

DISCOVER GEKKOLD® CUSTOMIZED APPLICATIONS

choose your customized configuration



AIR R / RF SERIES
1,6kW ÷ 440kW

AIR SE SERIES
30kW ÷ 377kW

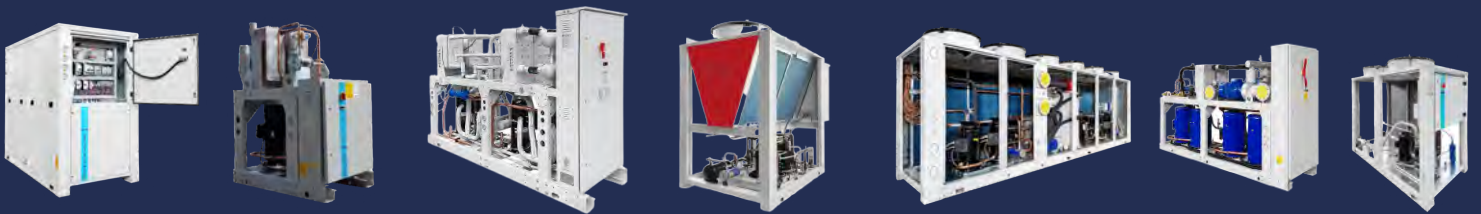
AIR FT SERIES
7,9kW ÷ 410kW

AIR LC SERIES
8kW ÷ 200kW

RC SERIES
7,4kW ÷ 375kW

AIR HR – HP SERIES
14kW ÷ 95kW
15kW ÷ 104kW

UNTIL 400KW



Water W SERIES
3,8kW ÷ 424kW

Water CW SERIES
50kW ÷ 371kW

Water HW SERIES
100kW ÷ 400kW
80kW ÷ 370kW

AIR S-HP SERIES
61,2kW - 81,4kW -
105,8kW

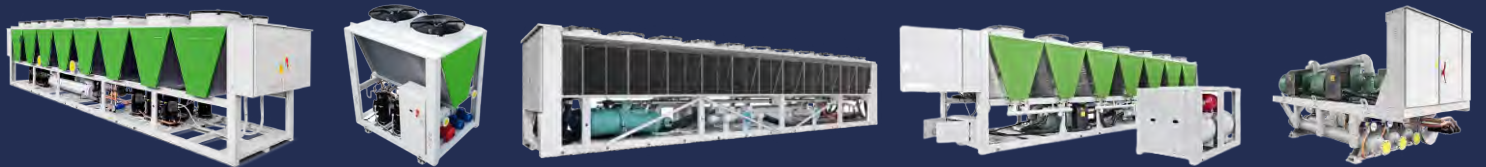
AIR FT-HP SERIES
16kW ÷ 345kW

TC SERIES
50kW ÷ 370kW

MT SERIES
8kW ÷ 430kW

CUSTOMIZED FOR YOU

with more than 100 OPTIONS available it is easy to customized your Chillers



AIR S / SF SERIES
AIR SF-OPT SERIES
94kW ÷ 1288kW

AIR S-MC SERIES
95kW ÷ 180kW

AIR N / NF SERIES
266kW ÷ 2136kW

AIR D / DF SERIES
AIR SV / SVF SERIES
266kW ÷ 2136kW

NEW!

Water B SERIES
291kW ÷ 2240kW

UNTIL 3000KW



CWS SERIES
291kW ÷ 2240kW

AIR HPS SERIES
211kW - 750kW

Water TCW SERIES
250kW ÷ 3000kW

AIR TCA / TCAF SERIES
250kW ÷ 1215kW

AIR Pro / HPro SERIES
130kW ÷ 520kW
55kW ÷ 330kW

GM SERIES
400L ÷ 5000L

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PROCESS COOLING APPLICATION

*R410A / R32 / R454B / R513A
Rotary / Scroll compressors
Coaxial / Shell & Tube evaporator / Plate
Inbuilt water storage tank & single pump P3*

Gekko AIR R / RF / SE series
From 1,6 kW up to 440 kW



Technical Data Tables

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Gekkold



gekkoldprom.com

Industrial Chiller Supplier

Gekko AIR R series

Air-Cooled liquid Chillers
AC axial fans
IP54 protection rating
Suitable for OUTDOOR installation



GEKKOLD

Russian Federation, Moscow,
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Air-cooled liquid chillers AIR R series, rotary / scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / coaxial / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.

Type of available evaporators: CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger installed inside the water storage tank ST = shell and tube evaporator, with high thickness copper tubes (0,41mm) B-ES = stainless steel brazed plate evaporator	Type of available expansion elements CP = Capillary tube VTS = Thermostatic expansion valve ETS = Electronic expansion valve (available as option)
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TECHNICAL DATA

PERFORMANCES		Model	001	002	003	004	005	006	008	010
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	1,6	2,1	3,9	4,7	5,6	6,3	7,9	9,3
TOTAL NOMINAL ABSORBED POWER		kW	1,1	1,4	1,8	2,1	2,4	2,8	3,8	4,6
EER		kW/kW	2,81	2,59	3,21	3,16	3,08	2,87	2,77	2,55
SEPR (HT) (3)		-	5,01	5,07	5,05	5,03	5,03	5,04	5,05	5,00
NOMINAL WATER FLOW		m3/h	0,3	0,4	0,7	0,8	1,0	1,1	1,4	1,6
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	20	22	20	23	23	37	26	25
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
KIND OF COMPRESSOR	-	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	SCROLL	SCROLL
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	CX	CX
KIND OF EXPANSION ELEMENT	-	CP	CP	CP	CP	CP	CP	CP	VTS	VTS
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m3/h	0,25÷2,0	0,30÷2,0	0,60÷2,2	0,60÷2,2	0,80÷2,2	0,80÷2,2	1,20÷3,0	1,40÷3,0	1,40÷3,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,56	0,56	0,56	0,56	0,56	0,56	0,98	0,98
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	3,46	3,46	3,46	3,46	3,46	3,46	1,78	1,78
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	NA	NA	0,74	0,74	0,74	0,74	1,10	1,10
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	NA	NA	3,22	3,22	3,22	3,22	2,17	2,17
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	1"	1"	
TANK VOLUME (5) (8)	dm³	10	10	25	25	25	25	50	50	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	NA	NA	NA	NA	NA	NA	5	5	
FAN SECTION (AXIAL)										
FANS	nr.	1	1	1	1	1	1	1	1	1
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF
MAXIMUM FANS ABSORBED POWER	AC	kW	0,07	0,11	0,10	0,10	0,10	0,10	0,25	0,25
MAXIMUM FANS ABSORBED CURRENT		A	0,40	0,80	0,50	0,50	0,50	0,50	1,10	1,10
TOTAL AIR FLOW		m3/h	700	650	1800	1800	1580	1580	4100	4100
TOTAL ELECTRIC DATA										
ELECTRICAL FEED	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50/N	400/3/50/N	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	6,1	7,5	10,8	12,4	14,4	16,7	10,2	10,5	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	16,0	21,0	27,5	39,5	46,5	57,5	50,0	50,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	NA	NA	NA	NA	NA	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	50,0	50,0	50,3	51,6	53,0	54,7	51,4	51,4	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	NA	NA	NA	NA	NA	NA	NA	NA	
DIMENSIONS AND WEIGHT										
LENGTH	mm	445	445	600	600	600	600	820	820	
WIDTH	mm	440	440	725	725	725	725	615	615	
HEIGHT	mm	806	806	1060	1060	1060	1060	1415	1415	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	55	55	90	95	95	100	160	165	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	65	65	115	120	120	125	210	215	

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Air-cooled liquid chillers AIR R series, rotary / scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / coaxial / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.

Type of available evaporators: CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger installed inside the water storage tank ST = shell and tube evaporator, with high thickness copper tubes (0,41mm) B-ES = stainless steel brazed plate evaporator	Type of available expansion elements CP = Capillary tube VTS = Thermostatic expansion valve ETS = Electronic expansion valve (available as option)
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TECHNICAL DATA										
PERFORMANCES		Model	012	016	018	022	025	030	038	045
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	12,2	13,5	18,0	22,0	25,0	31,0	37,0	45,0
TOTAL NOMINAL ABSORBED POWER		kW	5,4	6,7	7,5	8,8	9,9	11,1	15,3	16,0
EER		kW/kW	2,78	2,37	2,78	2,93	2,90	3,15	2,82	3,25
SEPR (HT) (3)		-	5,03	5,05	5,00	5,02	5,00	5,05	5,03	5,07
NOMINAL WATER FLOW		m3/h	2,1	2,3	3,1	3,8	4,3	5,3	6,4	7,7
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	27	28	28	31	42	34	34	39
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
KIND OF EVAPORATOR	-	CX	CX	CX	CX	CX	CX	CX	CX	CX
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m3/h	1,20÷2,9	1,20÷2,9	2,5÷5,0	3,0÷6,0	3,0÷6,0	4,0÷6,0	5,0÷12,0	6,0÷12,0	6,0÷12,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,98	0,98	0,98	1,28	1,28	1,28	2,20	2,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	1,78	1,78	1,78	2,37	2,37	2,37	4,24	4,24
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	1,10	1,10	1,47	1,47	1,47	1,47	2,94	2,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,17	2,17	2,86	2,86	2,86	2,32	5,83	5,83
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1"	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	
TANK VOLUME (5) (8)	dm³	50	50	110	110	110	270	270	270	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	5	5	8	8	8	8	8	8	
FAN SECTION (AXIAL)										
FANS	nr.	1	1	1	1	1	2	2	2	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	
MAXIMUM FANS ABSORBED POWER	AC	kW	0,49	0,49	0,68	0,81	0,81	1,44	1,62	1,44
MAXIMUM FANS ABSORBED CURRENT		A	2,40	2,40	3,00	1,50	1,50	2,82	3,08	2,82
TOTAL AIR FLOW		m3/h	4750	4750	6500	6800	6800	16000	16400	15000
TOTAL ELECTRIC DATA										
ELECTRICAL FEED	V/ph/Hz	400/3/50/N	400/3/50/N	400/3/50/N	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	13,3	13,9	18,8	19,8	21,1	25,3	31,8	37,1	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	71,0	71,0	75,0	104,0	127,4	141,4	144,2	178,2	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	NA	NA	NA	NA	NA	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	52,2	52,2	53,3	55,8	55,4	55,3	57,5	55,8	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	NA	NA	NA	NA	NA	54,3	57,2	54,5	
DIMENSIONS AND WEIGHT										
LENGTH	mm	820	820	1010	1010	1010	1610	1610	1610	
WIDTH	mm	615	615	720	720	720	860	860	860	
HEIGHT	mm	1415	1415	1585	1585	1585	1550	1550	1550	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	170	175	210	250	250	375	390	410	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	220	225	340	380	380	675	690	710	

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

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Type of available evaporators:

CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger installed inside the water storage tank
 ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)
 B-ES = stainless steel brazed plate evaporator

Type of available expansion elements

CP = Capillary tube
 VTS = Thermostatic expansion valve
 ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	055	061	075	090	100	130	160	185
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	55,0	63,0	72,0	88,0	100,0	115,0	150,0	170,0
TOTAL NOMINAL ABSORBED POWER		kW	21,1	22,6	28,8	31,6	35,5	44,0	56,0	62,8
EER		kW/kW	2,91	3,14	2,74	3,03	3,03	2,92	2,92	2,92
SEPR (HT) (3)		-	5,03	5,04	5,05	5,03	5,06	5,07	5,02	5,00
NOMINAL WATER FLOW		m ³ /h	9,4	10,8	12,4	15,1	17,2	19,8	25,8	29,2
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	51	25	20	28	39	54	54	55
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4	4/2/4	4/2/4	
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	
KIND OF EVAPORATOR	-	CX	CX	CX	CX	CX	ST	ST	ST	
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m ³ /h	6÷12	8÷18	10÷20	10÷20	10÷20	14÷27	15÷31	18÷35	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,20	2,53	2,53	2,53	2,53	4,56	4,56	4,56
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,24	4,56	4,56	4,56	4,56	7,75	7,75	7,75
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	2,94	6,12	6,12	6,12	6,12	10,20	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	5,83	10,40	10,40	10,40	10,40	17,40	17,40	17,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1 1/2"	2"	2"	2"	2"	DN65	DN65	DN65	
TANK VOLUME (5) (8)	dm ³	270	410	410	410	410	390	390	390	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	8	12	12	12	12	19	19	19	
FAN SECTION (AXIAL)										
FANS	nr.	2	2	2	2	2	2	3	3	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	
MAXIMUM FANS ABSORBED POWER	AC	kW	1,62	3,88	3,88	3,88	3,88	3,88	5,82	5,82
MAXIMUM FANS ABSORBED CURRENT		A	3,08	7,80	7,80	7,80	7,80	7,80	11,70	11,70
TOTAL AIR FLOW		m ³ /h	15600	25000	36000	34000	32000	40000	57000	54000
TOTAL ELECTRIC DATA										
ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	43,8	52,6	61,4	72,4	78,8	96,1	117,5	139,5	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	229,2	171,5	176,9	216,4	267,4	214,9	233,0	283,5	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	143,7	148,9	181,6	222,4	187,1	205,0	248,7	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	58,8	58,9	59,3	59,5	60,3	59,2	61,1	61,4	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LN.J) (6) (7)	dB(A)	57,6	58,7	58,9	58,9	59,2	58,8	60,5	60,6	
DIMENSIONS AND WEIGHT										
LENGTH	mm	1610	2220	2220	2220	2220	3355	3355	3355	
WIDTH	mm	860	1100	1100	1100	1100	1105*	1105*	1105*	
HEIGHT	mm	1550	2120	2120	2120	2120	2205	2205	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	500	740	770	785	890	1190	1260	1320	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	800	1160	1190	1205	1310	1610	1695	1760	

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021
 Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Air-cooled liquid chillers AIR R series, rotary / scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / coaxial / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.

Type of available evaporators:
 CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger installed inside the water storage tank
 ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)
 B-ES = stainless steel brazed plate evaporator

Type of available expansion elements
 CP = Capillary tube
 VTS = Thermostatic expansion valve
 ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	200	230	280	340	370	430
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	204,3	227,0	277,0	319,0	365,0	410,0
TOTAL NOMINAL ABSORBED POWER		kW	71,3	84,8	103,2	115,8	129,8	146,8
EER		kW/kW	3,24	2,97	2,92	2,97	3,05	3,00
SEPR (HT) (3)		-	5,00	5,02	5,03	5,07	5,07	5,51
NOMINAL WATER FLOW		m3/h	35,1	39,0	47,6	54,8	62,7	70,4
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	38	56	56	48	55	61
FRIGORIFIC SECTION								
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	
HYDRAULIC SECTION								
WATER FLOW RANGE (6)	m3/h	25÷46	25÷46	31÷58	38÷70	45÷80	52÷100	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	8,30	8,30	8,30	8,30	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	14,10	14,10	14,10	14,10	17,40	17,40
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,22	16,22	16,22	16,22	16,22	19,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,60	26,60	26,60	26,60	26,60	32,70
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	DN80	DN80	DN100	DN100	DN100	DN125	
TANK VOLUME (5) (8)	dm³	390	500	500	500	500	500	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	19	19	19	19	19	19	
FAN SECTION (AXIAL)								
FANS	nr.	4	5	5	5	6	6	
FAN SPEED REGULATION	-	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE	
MAXIMUM FANS ABSORBED POWER	AC	kW	7,76	9,70	9,70	9,70	11,64	11,64
MAXIMUM FANS ABSORBED CURRENT		A	15,60	19,50	19,50	19,50	23,40	23,40
TOTAL AIR FLOW		m3/h	68800	91000	90000	85000	102000	96000
TOTAL ELECTRIC DATA								
ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	162,6	179,4	212,0	241,4	278,0	307,0	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	351,1	367,9	439,4	492,1	528,7	641,2	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	306,1	322,9	385,0	430,1	466,7	559,6	
NOISE DATA								
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	63,1	64,3	65,7	65,7	66,1	67,5	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	62,0	63,1	63,7	63,7	64,4	65,1	
DIMENSIONS AND WEIGHT								
LENGTH	mm	4355	5350	5350	5350	6350	6350	
WIDTH	mm	1105**	1105	1105	1105	1105	1105	
HEIGHT	mm	2205	2205	2205	2205	2205	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	1815	2105	2240	2415	2745	2810	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	2275	2660	2800	2995	3345	3420	

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021
 Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Air-cooled liquid chillers AIR R series, scroll compressors, R513A refrigerant, brazed plate / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.

Type of available evaporators:

B-ES = stainless steel brazed plate evaporator

Type of available expansion elements

VTS = Thermostatic expansion valve

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	010	016	022	030	045	061	075	090
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	6,5	10,0	13,5	18,7	28,0	37,0	46,0	55,0
TOTAL NOMINAL ABSORBED POWER		kW	3,0	4,8	5,9	8,2	11,0	17,3	20,5	23,3
EER		kW/kW	2,67	2,64	2,75	2,72	2,89	2,46	2,51	2,65
SEPR (HT) (3)		-	5,00	5,05	5,02	5,05	5,07	5,04	5,05	5,03
NOMINAL WATER FLOW		m ³ /h	1,1	1,7	2,3	3,2	4,8	6,4	7,9	9,4
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	29	31	27	20	21	25	20	25
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	2/1/2	2/1/2	2/1/2	
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m ³ /h	0,80÷2,2	1,20÷2,9	2,5÷5,0	3,0÷6,0	4,0÷6,0	6÷12	6÷12	8÷18	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,56	0,98	0,98	1,28	1,28	2,20	2,20	2,53
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	3,46	1,78	1,78	2,37	2,37	4,24	4,24	4,56
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	0,74	1,10	1,10	1,47	1,47	2,94	2,94	6,12
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	3,22	2,17	2,17	2,32	2,32	5,83	5,83	10,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1/2"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	
TANK VOLUME (5) (8)	dm ³	50	50	110	270	270	410	410	410	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	5	5	8	8	8	12	12	12	
FAN SECTION (AXIAL)										
FANS	nr.	1	1	1	2	2	2	2	2	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	
MAXIMUM FANS ABSORBED POWER	AC	kW	0,25	0,49	0,81	1,44	1,44	3,88	3,88	3,88
MAXIMUM FANS ABSORBED CURRENT		A	1,10	2,40	1,50	2,82	2,82	7,80	7,80	7,80
TOTAL AIR FLOW		m ³ /h	4100	4750	6800	16000	15000	25000	36000	34000
TOTAL ELECTRIC DATA										
ELECTRICAL FEED	V/ph/Hz	400/3/50/N	400/3/50/N	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	11,1	15,3	14,5	24,5	37,1	50,7	64,5	76,1	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	53,5	75,8	103,8	120,4	176,4	141,6	170,5	210,4	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	99,6	144,4	125,8	150,3	183,4	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	48,0	48,8	50,5	54,8	57,1	59,1	59,9	60,9	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	NA	NA	NA	54,3	55,3	58,8	59,1	59,5	
DIMENSIONS AND WEIGHT										
LENGTH	mm	820	820	1010	1610	1610	2220	2220	2220	
WIDTH	mm	615	615	720	860	860	1100	1100	1100	
HEIGHT	mm	1415	1415	1585	1550	1550	2120	2120	2120	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	165	175	250	375	410	740	770	785	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	215	225	380	675	710	1160	1190	1205	

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of delta T between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Air-cooled liquid chillers AIR R series, scroll compressors, R513A refrigerant, brazed plate / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. 60Hz version as option.

Type of available evaporators:
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements
VTS = Thermostatic expansion valve
ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	130	160	185
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	72,0	90,0	110,0
TOTAL NOMINAL ABSORBED POWER		kW	29,4	40,2	44,8
EER		kW/kW	2,68	2,53	2,73
SEPR (HT) (3)		-	5,07	5,02	5,00
NOMINAL WATER FLOW		m ³ /h	12,4	15,5	18,9
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	25	20	25
FRIGORIFIC SECTION					
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	4/2/4	4/2/4	4/2/4
KIND OF COMPRESSOR		-	SCROLL	SCROLL	SCROLL
KIND OF EVAPORATOR		-	B-ES	B-ES	B-ES
KIND OF EXPANSION ELEMENT		-	VTS	VTS	VTS
HYDRAULIC SECTION					
WATER FLOW RANGE (6)		m ³ /h	8÷18	14÷31	18÷35
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,53	4,56	4,56
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,56	7,75	7,75
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	6,12	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	17,40	17,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	2"	DN65	DN65
TANK VOLUME (5) (8)		dm ³	390	390	390
EXPANSION VESSEL VOLUME (OPTION XV) (9)		liters	19	19	19
FAN SECTION (AXIAL)					
FANS		nr.	2	3	3
FAN SPEED REGULATION		-	ON/OFF	ON/OFF	ON/OFF
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	5,82	5,82
MAXIMUM FANS ABSORBED CURRENT		A	7,80	11,70	11,70
TOTAL AIR FLOW		m ³ /h	40000	57000	54000
TOTAL ELECTRIC DATA					
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	89,7	124,3	147,0
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	188,4	238,1	289,1
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	164,8	210,1	254,3
NOISE DATA					
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	59,5	61,9	63,1
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)		dB(A)	58,9	60,8	61,4
DIMENSIONS AND WEIGHT					
LENGTH		mm	3355	3355	3355
WIDTH		mm	1105*	1105*	1105*
HEIGHT		mm	2205	2205	2205
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)		kg	1190	1260	1320
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)		kg	1610	1695	1760

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of delta T between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Gekkold



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*Free-Cooling liquid Chillers
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Free-cooling liquid chillers AIR RF series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial / shell and tube evaporator, thermostatic expansion valve, condenser and free-cooling coil with copper tubes and aluminium finned fins, AC axial fans regulated with cut phase fan speed regulator. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard.

Type of available evaporators:
 CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger installed inside the water storage tank
 ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)
 B-ES = stainless steel brazed plate evaporator

Type of available expansion elements
 VTS = Thermostatic expansion valve
 ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	010	012	016	022	030	038	045	055	
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	9,5	12,0	14,4	23,4	29,8	38,6	45,2	57,7	
TOTAL NOMINAL ABSORBED POWER		kW	4,9	6,1	7,6	9,7	11,3	16,5	18,4	22,2	
EER		kW/kW	2,41	2,33	2,19	2,77	2,97	2,70	2,80	2,89	
SEPR (HT) (4)		-	5,01	5,05	5,04	5,07	5,03	5,07	5,05	5,04	
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	-0,3	-2,2	-3,6	0,7	0,1	2,0	1,0	0,5	
NOMINAL WATER FLOW		m ³ /h	1,6	2,1	2,5	4,0	5,1	6,6	7,8	9,9	
MECHANICAL MODE PRESSURE DROPS (5) (7) (8)		kPa	27	28	35	49	47	56	58	60	
FREE COOLING MODE PRESSURE DROPS (6) (7) (8)		kPa	47	57	76	75	76	74	82	107	
NOMINAL COOLING CAPACITY		30%EG 15°C/10°C @ 30°C (2)	kW	10,6	13,3	16,0	26,0	33,1	42,9	50,2	64,1
TOTAL NOMINAL ABSORBED POWER			kW	4,7	5,8	7,1	9,2	10,7	15,7	17,4	20,9
EER	kW/kW		2,87	2,77	2,61	3,28	3,53	3,18	3,30	3,43	
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C		1,0	-1,3	-3,1	1,8	1,0	3,5	2,1	1,5	
NOMINAL WATER FLOW	m ³ /h		2,0	2,5	3,0	4,9	6,3	8,1	9,5	12,1	
MECHANICAL MODE PRESSURE DROPS (5) (7) (8)	kPa		45	46	58	82	78	93	96	99	
FREE COOLING MODE PRESSURE DROPS (6) (7) (8)	kPa		78	94	126	124	126	123	136	177	
FRIGORIFIC SECTION											
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.		1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
KIND OF EVAPORATOR	-		CX	CX	CX	CX	CX	CX	CX	CX	CX
HYDRAULIC SECTION											
WATER FLOW RANGE (8)	m ³ /h	1,2÷2,9	1,2÷2,9	1,2÷2,9	3,5÷8,0	4,0÷8,0	5,5÷12,0	6,0÷12,0	6,0÷12,0	6,0÷12,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (3)	kW	0,98	0,98	0,98	1,28	1,28	2,20	2,20	2,20	
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	1,78	1,78	1,78	2,37	2,37	4,24	4,24	4,24	
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (3)	kW	2,17	1,10	1,10	1,47	2,94	2,94	2,94	2,94	
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,17	2,17	2,17	2,86	5,83	5,83	5,83	5,83	
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	3/4"	3/4"	3/4"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	
TANK VOLUME (7) (10)	dm ³	50	50	50	270	270	270	270	270	270	
EXPANSION VESSEL VOLUME (OPTION XV) (11)	liters	5	5	5	12	12	12	12	12	12	
FAN SECTION (AXIAL)											
FANS	nr.	1	1	1	2	2	2	2	2	2	
MAXIMUM FANS ABSORBED POWER	AC	kW	0,72	0,72	0,81	1,62	1,62	3,88	3,88	3,88	
MAXIMUM FANS ABSORBED CURRENT		A	1,41	1,41	1,54	3,08	3,08	7,80	7,80	7,80	
TOTAL AIR FLOW		m ³ /h	6115	6115	6800	13800	13000	30000	30000	28000	
TOTAL ELECTRIC DATA											
MAXIMUM ABSORBED CURRENT (F.L.A) (8)	A	11,1	12,9	15,2	21,4	25,6	36,5	42,0	48,5		
MAXIMUM PEAK CURRENT (L.R.A) (8)	A	49,8	64,8	67,8	104,4	141,4	144,2	178,2	229,2		
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (8)	A	NA	NA	NA	NA	NA	116,2	143,4	184,2		
NOISE DATA											
SOUND PRESSURE FOR STANDARD CONFIGURATION (8) (9)	dB(A)	49,7	49,7	53,2	56,6	56,5	58,5	58,6	59,6		
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (8) (9)	dB(A)	NA	NA	NA	56,4	56,3	58,3	58,3	58,6		
DIMENSIONS AND WEIGHT											
LENGTH	mm	1360	1360	1360	1610	1610	2220	2220	2220		
WIDTH	mm	720	720	720	860	860	1100	1100	1100		
HEIGHT	mm	1585	1585	1585	1550	1550	2120	2120	2120		
WEIGHT EMPTY FOR STANDARD CONFIGURATION (7) (8)	kg	260	265	275	460	470	635	650	740		
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (7) (8)	kg	315	320	330	745	755	930	950	1035		

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021
 Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
 - (2) Data referred to inlet/outlet water temperature = +15/+10 °C, ambient temperature = +30°C, fluid = 70% Water + 30% Ethylene Glycol
 - (3) Available pressure can be calculated from Gekkold Online Selection Software
 - (4) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
 - (5) Pressure drops taken in account: evaporator, valves, piping ; (6) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
 - (7) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
 - (8) Data referred to standard chiller configuration WP (single pump P3) and AC fans
 - (9) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
 - (10) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
 - (11) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit
- * For the configurations NT.NP (no tank, no pump), NT.WP (no tank, single pump P3), and NT.PH (no tank, single pump P5) the chiller width will be 1105mm

Free-cooling liquid chillers AIR RF series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial / shell and tube evaporator, thermostatic expansion valve, condenser and free-cooling coil with copper tubes and aluminium finned fins, AC axial fans regulated with cut phase fan speed regulator. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard.

Type of available evaporators:
 CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger installed inside the water storage tank
 ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)
 B-ES = stainless steel brazed plate evaporator

Type of available expansion elements
 CP = Capillary tube
 VTS = Thermostatic expansion valve
 ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	061	075	090	100	130	160	185	200		
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	61,8	74,7	87,4	101,7	118,0	150,0	174,0	200,0		
		TOTAL NOMINAL ABSORBED POWER	kW	24,1	28,7	34,3	37,3	47,6	59,1	67,3	77,5	
		EER	kW/kW	2,99	2,95	2,84	3,01	2,84	2,83	2,85	2,97	
		SEPR (HT) (4)	-	5,06	5,02	5,07	5,03	5,03	5,06	5,03	5,05	
		AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C	1,7	1,7	2,0	1,5	1,5	1,2	1,5	0,7	
		NOMINAL WATER FLOW	m ³ /h	10,6	12,8	15,0	17,5	20,3	25,8	29,9	34,4	
		MECHANICAL MODE PRESSURE DROPS (5) (7) (8)	kPa	33	26	42	58	66	78	88	64	
		FREE COOLING MODE PRESSURE DROPS (6) (7) (8)	kPa	58	60	85	112	121	120	128	102	
		NOMINAL COOLING CAPACITY	30%EG 15°C/10°C @ 30°C (2)	kW	67,2	83,9	97,0	112,9	131,0	166,5	193,1	222,0
		TOTAL NOMINAL ABSORBED POWER		kW	22,1	27,0	32,3	35,0	44,9	55,6	63,1	72,9
EER	kW/kW	3,61		3,52	3,37	3,57	3,38	3,35	3,40	3,54		
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C	4,1		3,1	3,5	2,8	2,8	2,4	2,8	1,8		
NOMINAL WATER FLOW	m ³ /h	12,7		15,9	18,4	21,4	24,8	31,5	36,6	42,1		
MECHANICAL MODE PRESSURE DROPS (5) (7) (8)	kPa	52		44	69	96	109	129	145	106		
FREE COOLING MODE PRESSURE DROPS (6) (7) (8)	kPa	92		102	140	185	200	199	212	169		
FRIGORIFIC SECTION												
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	2/1/2		2/1/2	2/1/2	2/1/2	4/2/4	4/2/4	4/2/4	4/2/4		
KIND OF EVAPORATOR	-	CX		CX	CX	CX	ST	ST	ST	ST		
HYDRAULIC SECTION												
WATER FLOW RANGE (8)	m ³ /h	8,6÷19	10÷22	10÷22	12÷23	14÷27	18÷31	26÷35	26÷46			
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (3)	kW	3,46	3,46	3,46	3,46	6,12	6,12	6,12	10,25		
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	6,33	6,33	6,33	6,33	10,40	10,40	10,40	17,40		
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (3)	kW	6,12	8,30	8,30	8,30	12,04	12,04	12,04	19,94		
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	14,10	14,10	14,10	20,20	20,20	20,20	32,70		
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	2"	2"	2"	2"	DN65	DN65	DN65	DN80			
TANK VOLUME (7) (10)	dm ³	410	410	410	410	390	500	500	500			
EXPANSION VESSEL VOLUME (OPTION XV) (11)	liters	19	19	19	19	19	19	19	40			
FAN SECTION (AXIAL)												
FANS	nr.	2	2	3	3	4	5	5	5			
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	3,88	5,82	5,82	7,76	9,70	9,70	9,70		
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	11,70	11,70	15,60	19,50	19,50	19,50		
TOTAL AIR FLOW		m ³ /h	36000	36000	49500	54000	66000	72000	71000	80000		
TOTAL ELECTRIC DATA												
MAXIMUM ABSORBED CURRENT (F.L.A) (8)	A	54,4	63,1	78,0	84,5	106,5	127,9	149,9	169,8			
MAXIMUM PEAK CURRENT (L.R.A) (8)	A	173,3	178,6	222,0	273,0	225,4	243,4	293,9	358,3			
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (8)	A	145,5	150,6	187,2	228,0	197,6	215,4	259,1	313,3			
NOISE DATA												
SOUND PRESSURE FOR STANDARD CONFIGURATION (8) (9)	dB(A)	58,9	59,3	60,8	61,4	61,7	62,9	63,0	63,7			
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (8) (9)	dB(A)	58,7	58,9	60,4	60,6	61,5	62,5	62,5	62,8			
DIMENSIONS AND WEIGHT												
LENGTH	mm	3355	3355	3355	4355	4355	5350	5350	6350			
WIDTH	mm	1105	1105	1105	1105	1105	1105	1105	1305*			
HEIGHT	mm	2205	2205	2205	2205	2205	2205	2205	2180			
WEIGHT EMPTY FOR STANDARD CONFIGURATION (7) (8)	kg	1120	1150	1180	1480	1675	1910	2000	2465			
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (7) (8)	kg	1590	1620	1650	1970	2180	2515	2670	3130			

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021
 Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
 - (2) Data referred to inlet/outlet water temperature = +15/+10 °C, ambient temperature = +30°C, fluid = 70% Water + 30% Ethylene Glycol
 - (3) Available pressure can be calculated from Gekkold Online Selection Software
 - (4) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
 - (5) Pressure drops taken in account: evaporator, valves, piping ; (6) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
 - (7) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
 - (8) Data referred to standard chiller configuration WP (single pump P3) and AC fans
 - (9) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
 - (10) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
 - (11) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit
- * For the configurations NT.NP (no tank, no pump), NT.WP (no tank, single pump P3), and NT.PH (no tank, single pump P5) the chiller width will be 1105mm

Free-cooling liquid chillers AIR RF series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial / shell and tube evaporator, thermostatic expansion valve, condenser and free-cooling coil with copper tubes and aluminium finned fins, AC axial fans regulated with cut phase fan speed regulator. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard.

Type of available evaporators:
 CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger installed inside the water storage tank
 ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)
 B-ES = stainless steel brazed plate evaporator

Type of available expansion elements
 CP = Capillary tube
 VTS = Thermostatic expansion valve
 ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	230	280	340	370	
W 12°C/7°C @ 35°C (1)	NOMINAL COOLING CAPACITY	kW	226,0	276,0	325,0	355,0	
	TOTAL NOMINAL ABSORBED POWER	kW	86,7	107,1	117,3	133,9	
	EER	kW/kW	2,96	2,85	3,04	2,87	
	SEPR (HT) (4)	-	5,00	5,06	5,01	5,01	
	AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C	0,5	-1,2	-7,0	-8,2	
	NOMINAL WATER FLOW	m3/h	38,8	47,4	55,8	61,0	
	MECHANICAL MODE PRESSURE DROPS (5) (7) (8)	kPa	53	60	68	77	
	FREE COOLING MODE PRESSURE DROPS (6) (7) (8)	kPa	98	120	117	122	
	30%EG 15°C/10°C @ 30°C (2)	NOMINAL COOLING CAPACITY	kW	250,9	306,4	360,8	394,1
		TOTAL NOMINAL ABSORBED POWER	kW	81,5	100,3	109,7	124,9
EER		kW/kW	3,52	3,41	3,63	3,44	
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	1,5	-0,7	-8,3	-9,9	
NOMINAL WATER FLOW		m3/h	47,5	58,0	68,3	74,6	
MECHANICAL MODE PRESSURE DROPS (5) (7) (8)		kPa	79	90	102	116	
FREE COOLING MODE PRESSURE DROPS (6) (7) (8)		kPa	147	180	175	183	
FRIGORIFIC SECTION							
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	4/2/4	4/2/4	4/2/4	4/2/4		
KIND OF EVAPORATOR	-	ST	ST	ST	ST		
HYDRAULIC SECTION							
WATER FLOW RANGE (8)	m3/h	26÷46	31÷58	38÷72	42÷80		
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (3)	kW	10,25	10,25	10,25	10,25	
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	17,40	17,40	17,40	17,40	
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (3)	kW	19,94	19,94	19,94	19,94	
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	32,70	32,70	32,70	32,70	
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	DN80	DN100	DN100	DN100		
TANK VOLUME (7) (10)	dm³	500	500	500	500		
EXPANSION VESSEL VOLUME (OPTION XV) (11)	liters	40	40	40	40		
FAN SECTION (AXIAL)							
FANS	nr.	6	6	6	6		
MAXIMUM FANS ABSORBED POWER	AC	kW	11,64	11,64	11,64	11,64	
MAXIMUM FANS ABSORBED CURRENT		A	23,40	23,40	23,40	23,40	
TOTAL AIR FLOW		m3/h	84000	84000	84000	84000	
TOTAL ELECTRIC DATA							
MAXIMUM ABSORBED CURRENT (F.L.A) (8)	A	186,6	219,2	248,6	278,0		
MAXIMUM PEAK CURRENT (L.R.A) (8)	A	375,1	446,6	499,3	528,7		
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (8)	A	330,1	392,2	437,3	466,7		
NOISE DATA							
SOUND PRESSURE FOR STANDARD CONFIGURATION (8) (9)	dB(A)	64,8	66,1	66,1	66,1		
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (8) (9)	dB(A)	63,6	64,4	64,4	64,4		
DIMENSIONS AND WEIGHT							
LENGTH	mm	6350	6350	6350	6350		
WIDTH	mm	1305*	1305*	1305*	1305*		
HEIGHT	mm	2180	2180	2180	2180		
WEIGHT EMPTY FOR STANDARD CONFIGURATION (7) (8)	kg	2695	2820	2920	2980		
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (7) (8)	kg	3365	3510	3625	3700		

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021
 Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
 - (2) Data referred to inlet/outlet water temperature = +15/+10 °C, ambient temperature = +30°C, fluid = 70% Water + 30% Ethylene Glycol
 - (3) Available pressure can be calculated from Gekkold Online Selection Software
 - (4) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
 - (5) Pressure drops taken in account: evaporator, valves, piping ; (6) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
 - (7) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
 - (8) Data referred to standard chiller configuration WP (single pump P3) and AC fans
 - (9) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
 - (10) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
 - (11) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit
- * For the configurations NT.NP (no tank, no pump), NT.WP (no tank, single pump P3), and NT.PH (no tank, single pump P5) the chiller width will be 1105mm

Gekkold



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Industrial Chiller Supplier

Gekko AIR SE series

*Air-Cooling liquid Chillers
Centrifugal fans
IP44 protection rating
Suitable for INDOOR installation*



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Air-cooled liquid chillers AIR SE series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial / shell and tube evaporator, condenser coil with copper tubes and aluminium finned fins, centrifugal fans with available air static pressure of 200Pa. Electrical feed 400V/3ph/50Hz. IP44 protection rating, chillers suitable for INDOOR installation. Inbuilt water storage tank and single pump P3 as standard.

Type of available evaporators:

CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage

tank ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)

B-ES = stainless steel brazed plate evaporator

TECHNICAL DATA

PERFORMANCES		Model	030	038	045	061	075	100	130	160
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 32°C (1)	kW	28,8	37,7	43,0	63,0	71,3	98,4	116,3	146,1
TOTAL NOMINAL ABSORBED POWER		kW	12,5	15,3	17,9	22,2	29,1	38,9	48,3	58,9
EER		kW/kW	2,58	2,87	2,73	3,21	2,68	2,70	2,66	2,69
SEPR (HT) (3)		-	4,59	5,11	5,07	5,21	4,80	4,86	4,75	4,78
NOMINAL WATER FLOW		m ³ /h	5,0	6,5	7,4	10,8	12,2	16,9	20,0	25,1
MECHANICAL MODE PRESSURE DROPS (4)		kPa	32	38	39	23	21	41	60	55
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	1/1/1	1/1/1	2/1/2	2/1/2	2/1/2	4/2/4	4/2/4	4/2/4
KIND OF EVAPORATOR	-	CX	CX	CX	CX	CX	CX	ST	ST	ST
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m ³ /h	4,0÷6,0	5,0÷12,0	6,0÷12,0	8,0÷18,0	10,0÷20,0	10,0÷20,0	14,0÷27,0	15,4÷31,0	15,4÷31,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	1,28	2,20	2,20	2,53	2,53	2,53	4,56	4,56
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	2,37	4,24	4,24	4,56	4,56	4,56	7,75	7,75
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	1,47	2,94	2,94	6,12	6,12	6,12	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,32	5,83	5,83	10,40	10,40	10,40	17,40	17,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	DN65	DN65	DN65
TANK VOLUME (5)	dm ³	270	270	270	410	410	410	390	390	390
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)	liters	12	12	12	19	19	19	19	19	19
FAN SECTION (CENTRIFUGAL)										
FANS	nr.	2	2	2	3	3	2	3	3	3
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	INVERTER	INVERTER	INVERTER
MAXIMUM FANS ABSORBED POWER	kW	2,20	2,20	2,20	3,30	3,30	6,00	9,00	9,00	9,00
MAXIMUM FANS ABSORBED CURRENT	A	9,80	9,80	9,80	14,70	14,70	24,80	37,20	37,20	37,20
TOTAL AIR FLOW	m ³ /h	13000	13000	13000	19500	19500	30000	45000	45000	45000
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	32,3	38,5	44,0	59,5	68,3	95,8	125,5	143,0	143,0
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	141,4	144,2	178,2	178,4	183,8	284,4	244,3	258,5	258,5
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	150,6	155,8	239,4	216,5	230,5	230,5
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	54,0	55,0	55,2	55,8	56,4	60,9	62,7	63,1	63,1
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	53,7	54,4	54,5	55,4	55,5	60,0	62,6	62,7	62,7
DIMENSIONS AND WEIGHT										
LENGTH	mm	1610	1610	1610	2220	2220	2220	3355	3355	3355
WIDTH	mm	860	860	860	1100	1100	1100	1305	1305	1305
HEIGHT	mm	1860	1860	1860	1900	1900	2350	2350	2350	2350
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	445	465	495	770	800	990	1315	1365	1365
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	720	740	770	1190	1220	1410	1740	1800	1800

The manufacturer reserves the right to modify specifications without notice.

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Revision: 02-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +32°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration WP (single pump P3)
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

Air-cooled liquid chillers AIR SE series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial / shell and tube evaporator, condenser coil with copper tubes and aluminium finned fins, centrifugal fans with available air static pressure of 200Pa. Electrical feed 400V/3ph/50Hz. IP44 protection rating, chillers suitable for INDOOR installation. Inbuilt water storage tank and single pump P3 as standard.

Type of available evaporators:

CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage

tank ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)

B-ES = stainless steel brazed plate evaporator

TECHNICAL DATA

PERFORMANCES		Model	185	230	280	340	370
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 32°C (1)	kW	174,0	228,3	278,8	324,4	362,5
TOTAL NOMINAL ABSORBED POWER		kW	65,1	86,7	109,4	123,5	140,8
EER		kW/kW	2,87	2,91	2,76	2,82	2,78
SEPR (HT) (3)		-	5,15	5,25	4,95	5,06	5,02
NOMINAL WATER FLOW		m ³ /h	29,9	39,2	47,9	55,7	62,3
MECHANICAL MODE PRESSURE DROPS (4)		kPa	62	61	62	53	58
FRIGORIFIC SECTION							
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	
HYDRAULIC SECTION							
WATER FLOW RANGE (6)	m ³ /h	21,0÷40,0	25,0÷46,0	31,0÷58,0	38,0÷70,0	45,0÷80,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	4,56	8,30	8,30	8,30	10,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	7,75	14,10	14,10	14,10	17,40
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	10,20	16,22	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	17,40	26,60	26,60	26,60	26,60
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	DN65	DN80	DN100	DN100	DN100	
TANK VOLUME (5)	dm ³	390	500	500	500	500	
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)	liters	19	19	19	19	19	
FAN SECTION (CENTRIFUGAL)							
FANS	nr.	3	4	5	6	6	
FAN SPEED REGULATION	-	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	
MAXIMUM FANS ABSORBED POWER	kW	9,00	12,00	15,00	18,00	18,00	
MAXIMUM FANS ABSORBED CURRENT	A	37,20	49,60	62,00	74,40	74,40	
TOTAL AIR FLOW	m ³ /h	45000	60000	75000	90000	90000	
TOTAL ELECTRIC DATA							
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	165,0	209,5	254,5	296,3	329,0	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	309,0	398,0	481,9	547,0	579,7	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	274,2	353,0	427,5	485,0	517,7	
NOISE DATA							
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	63,2	65,0	66,4	66,8	66,8	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	62,8	64,0	64,7	65,3	65,4	
DIMENSIONS AND WEIGHT							
LENGTH	mm	4355	5350	5350	6350	6350	
WIDTH	mm	1305	1305	1305	1305	1305	
HEIGHT	mm	2350	2350	2350	2350	2350	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	1730	2245	2395	2725	2910	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	2170	2800	2955	3305	3510	

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021
Revision: 02-2021

Data referred to:

(1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +32°C, fluid = Water

(2) Available pressure can be calculated from Gekkold Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers

(4) Pressure drops taken in account: evaporator, valves, piping

(5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change

(6) Data referred to standard chiller configuration WP (single pump P3)

(7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

Gekko AIR LC series

Air-Cooled liquid Chillers, liquid injection scroll compressor

AC axial fans

IP54 protection rating

Suitable for OUTDOOR installation, ice-rink application



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Air-cooled liquid chillers AIR LC series for ice-rink application, liquid injection scroll compressors, R449A refrigerant, brazed plate evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard.

Type of available evaporators:
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements
ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	008	016	022	025	030	038	045	061
NOMINAL COOLING CAPACITY	EG35% -10°C/-15°C @ 15°C (1)	kW	4,6	8,4	11,1	15,0	18,0	22,0	25,0	36,0
TOTAL NOMINAL ABSORBED POWER		kW	2,6	4,4	5,4	6,8	9,1	9,9	11,4	18,8
EER		kW/kW	2,24	2,46	2,53	2,73	2,31	2,55	2,48	2,17
SEPR (HT) (3)		-	5,05	5,05	5,02	5,00	5,05	5,03	5,07	5,04
NOMINAL WATER FLOW		m ³ /h	0,8	1,4	1,9	2,6	3,1	3,8	4,3	6,2
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	30	43	37	35	34	25	31	28
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	2/2/2
KIND OF COMPRESSOR	-	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m ³ /h	0,6÷2,2	1,2÷2,9	1,2÷2,9	1,2÷2,9	3,0÷6,0	3,0÷6,0	3,0÷6,0	6,0÷12,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,56	0,98	0,98	1,28	1,28	1,28	1,28	2,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	3,46	1,78	1,78	2,37	2,37	2,37	2,37	4,24
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	0,74	1,10	1,10	1,47	1,47	1,47	1,47	2,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	3,22	2,17	2,17	2,86	2,32	2,32	2,32	5,83
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1/2"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	
TANK VOLUME (5) (8)	dm ³	50	50	110	110	270	270	270	410	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	5	5	8	8	8	8	8	12	
FAN SECTION (AXIAL)										
FANS	nr.	1	1	1	1	2	2	2	2	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	
MAXIMUM FANS ABSORBED POWER	AC	kW	0,25	0,49	0,81	0,81	1,44	1,62	1,44	3,88
MAXIMUM FANS ABSORBED CURRENT		A	1,10	2,40	1,50	1,50	2,82	3,08	2,82	7,80
TOTAL AIR FLOW		m ³ /h	4200	4750	7500	6800	15600	16400	14800	24800
TOTAL ELECTRIC DATA										
ELECTRICAL FEED	V/ph/Hz	400/3/50/N	400/3/50/N	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	10,2	13,9	19,8	21,7	24,4	27,9	30,2	50,4	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	50,0	71,0	104,0	102,4	120,4	141,4	170,4	149,2	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	NA	99,6	116,7	139,6	125,6	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	51,4	52,2	56,0	56,3	55,3	59,1	55,8	60,2	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	NA	NA	NA	NA	54,9	57,8	55,9	59,2	
DIMENSIONS AND WEIGHT										
LENGTH	mm	820	820	1010	1010	1610	1610	1610	2220	
WIDTH	mm	615	615	720	720	860	860	860	1100	
HEIGHT	mm	1415	1415	1585	1585	1550	1550	1550	2120	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	160	175	250	250	375	390	410	740	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	210	225	380	380	675	690	710	1160	

The manufacturer reserves the right to modify specifications without notice.

Last update: 07/10/2021
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = -10/-15 °C, ambient temperature = +15°C, fluid = EG35%
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Air-cooled liquid chillers AIR LC series for ice-rink application, liquid injection scroll compressors, R449A refrigerant, brazed plate evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard.

Type of available evaporators:
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements
ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	075	090	130	160	185	200
NOMINAL COOLING CAPACITY	EG35% -10°C/-15°C @ 15°C (1)	kW	44,0	49,0	59,0	70,0	88,0	97,0
TOTAL NOMINAL ABSORBED POWER		kW	20,3	23,7	25,0	33,8	36,0	45,5
EER		kW/kW	2,44	2,28	2,62	2,24	2,63	2,26
SEPR (HT) (3)		-	5,05	5,03	5,07	5,02	5,00	5,00
NOMINAL WATER FLOW		m ³ /h	7,6	8,4	10,1	12,0	15,1	16,7
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	25	29	35	30	25	30
FRIGORIFIC SECTION								
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	2/2/2	2/2/2	4/2/4	4/2/4	4/2/4	4/2/4	
KIND OF COMPRESSOR	-	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	
HYDRAULIC SECTION								
WATER FLOW RANGE (6)	m ³ /h	6,0÷12,0	6,0÷12,0	8,0÷18,0	8,0÷18,0	10,0÷20,0	10,0÷20,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,20	2,20	2,53	2,53	2,53	2,53
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,24	4,24	4,56	4,56	4,56	4,56
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	2,94	2,94	6,12	6,12	6,12	6,12
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	5,83	5,83	10,40	10,40	10,40	10,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1 1/2"	2"	2"	2"	2"	2"	
TANK VOLUME (5) (8)	dm ³	410	410	390	390	390	390	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	12	12	19	19	19	19	
FAN SECTION (AXIAL)								
FANS	nr.	2	2	2	3	3	4	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	CUT PHASE	
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	3,88	3,88	5,82	5,82	7,76
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	11,70	11,70	15,60
TOTAL AIR FLOW		m ³ /h	36000	34000	40000	57000	54000	68800
TOTAL ELECTRIC DATA								
ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	57,0	62,0	83,8	93,0	106,2	120,0	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	173,5	205,0	166,0	191,8	222,7	263,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	145,7	171,4	146,0	168,2	194,9	229,4	
NOISE DATA								
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	61,4	61,8	60,9	62,3	63,6	64,7	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	59,7	59,9	59,5	61,0	61,6	62,7	
DIMENSIONS AND WEIGHT								
LENGTH	mm	2220	2220	3355	3355	3355	4355	
WIDTH	mm	1100	1100	1105*	1105*	1105*	1105**	
HEIGHT	mm	2120	2120	2205	2205	2205	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	770	785	1190	1260	1320	1815	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	1190	1205	1610	1695	1760	2275	

The manufacturer reserves the right to modify specifications without notice.

Last update: 07/10/2021
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = -10/-15 °C, ambient temperature = +15°C, fluid = EG35%
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

AAir-cooled liquid chillers AIR LC series for ice-rink application, liquid injection scroll compressors, R449A refrigerant, brazed plate evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation.
Inbuilt water storage tank and single pump P3 as standard.

Type of available evaporators:
 B-ES = stainless steel brazed plate evaporator

Type of available expansion elements
 ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	008	016	022	025	030	038	045	061
NOMINAL COOLING CAPACITY	EG50% -20°C/-25°C @ 15°C (1)	kW	2,4	4,7	6,2	8,2	10,0	12,2	13,3	19,5
TOTAL NOMINAL ABSORBED POWER		kW	1,8	3,0	3,8	4,8	6,3	7,5	8,2	13,6
EER		kW/kW	2,03	1,94	2,19	2,35	2,00	1,98	1,93	1,72
SEPR (HT) (3)		-	5,05	5,05	5,02	5,00	5,05	5,03	5,07	5,04
NOMINAL WATER FLOW		m ³ /h	0,5	1,0	1,3	1,8	2,1	2,6	2,8	4,1
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	27	37	33	47	40	35	29	40
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	2/2/2
KIND OF COMPRESSOR	-	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m ³ /h	0,4÷2,0	0,6÷2,9	0,8÷2,8	1,2÷2,9	1,2÷2,9	1,2÷2,9	1,2÷2,9	2,5÷5,0	4,0÷6,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,56	0,56	0,98	1,28	1,28	1,28	1,28	2,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	3,46	3,46	1,78	2,37	2,37	2,37	2,37	4,24
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	0,74	0,74	1,10	1,47	1,47	1,47	1,47	2,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	3,22	3,22	2,17	2,86	2,32	2,32	2,32	5,83
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1/2"	1/2"	1"	1"	1"	1"	1"	1"	1 1/2"
TANK VOLUME (5) (8)	dm ³	50	50	110	110	270	270	270	270	410
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	5	5	8	8	8	8	8	8	12
FAN SECTION (AXIAL)										
FANS	nr.	1	1	1	1	2	2	2	2	2
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF
MAXIMUM FANS ABSORBED POWER	AC	kW	0,25	0,49	0,81	0,81	1,44	1,62	1,44	3,88
MAXIMUM FANS ABSORBED CURRENT		A	1,10	2,40	1,50	1,50	2,82	3,08	2,82	7,80
TOTAL AIR FLOW		m ³ /h	4200	4750	7500	6800	15600	16400	14800	24800
TOTAL ELECTRIC DATA										
ELECTRICAL FEED	V/ph/Hz	400/3/50/N	400/3/50/N	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	10,2	13,9	19,8	21,7	24,4	27,9	30,2	50,4	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	50,0	71,0	104,0	102,4	120,4	141,4	170,4	149,2	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	NA	99,6	116,7	139,6	125,6	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	51,4	52,2	56,5	56,3	55,3	59,1	55,8	60,2	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	NA	NA	NA	NA	54,9	57,8	55,9	59,2	
DIMENSIONS AND WEIGHT										
LENGTH	mm	820	820	1010	1010	1610	1610	1610	2220	
WIDTH	mm	615	615	720	720	860	860	860	1100	
HEIGHT	mm	1415	1415	1585	1585	1550	1550	1550	2120	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	160	175	250	250	375	390	410	740	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	210	225	380	380	675	690	710	1160	

The manufacturer reserves the right to modify specifications without notice.

Last update: 07/10/2021
 Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = -20/-25 °C, ambient temperature = +15°C, fluid = EG50%
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Air-cooled liquid chillers AIR LC series for ice-rink application, liquid injection scroll compressors, R449A refrigerant, brazed plate evaporator, condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard.

Type of available evaporators:
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements
ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	075	090	130	160	185	200
NOMINAL COOLING CAPACITY	EG50% -20°C/-25°C @ 15°C (1)	kW	24,4	26,5	32,6	39,1	48,8	53,0
TOTAL NOMINAL ABSORBED POWER		kW	15,5	17,3	19,6	25,2	29,1	34,6
EER		kW/kW	1,83	1,75	1,91	1,73	1,83	1,65
SEPR (HT) (3)		-	5,05	5,03	5,07	5,02	5,00	5,00
NOMINAL WATER FLOW		m ³ /h	5,2	5,7	6,9	8,3	10,3	11,2
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	25	29	35	32	28	27
FRIGORIFIC SECTION								
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	2/2/2	2/2/2	4/2/4	4/2/4	4/2/4	4/2/4	
KIND OF COMPRESSOR	-	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	SCROLL INJECTION	
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	
HYDRAULIC SECTION								
WATER FLOW RANGE (6)	m ³ /h	5,0÷11,0	5,0÷11,0	6,0÷12,0	6,0÷12,0	8,0÷18,0	8,0÷18,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,20	2,20	2,53	2,53	2,53	2,53
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,24	4,24	4,56	4,56	4,56	4,56
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	2,94	2,94	6,12	6,12	6,12	6,12
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	5,83	5,83	10,40	10,40	10,40	10,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"	
TANK VOLUME (5) (8)	dm ³	410	410	390	390	390	390	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	12	12	19	19	19	19	
FAN SECTION (AXIAL)								
FANS	nr.	2	2	2	3	3	4	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	CUT PHASE	
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	3,88	3,88	5,82	5,82	7,76
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	11,70	11,70	15,60
TOTAL AIR FLOW		m ³ /h	36000	34000	40000	57000	54000	68800
TOTAL ELECTRIC DATA								
ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	57,0	62,0	83,8	93,0	106,2	120,0	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	173,5	205,0	166,0	191,8	222,7	263,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	145,7	171,4	146,0	168,2	194,9	229,4	
NOISE DATA								
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	61,4	61,8	60,9	62,3	63,6	64,7	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	59,7	59,9	59,5	61,0	61,6	62,7	
DIMENSIONS AND WEIGHT								
LENGTH	mm	2220	2220	3355	3355	3355	4355	
WIDTH	mm	1100	1100	1105*	1105*	1105*	1105**	
HEIGHT	mm	2120	2120	2205	2205	2205	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	770	785	1190	1260	1320	1815	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	1190	1205	1610	1695	1760	2275	

The manufacturer reserves the right to modify specifications without notice.

Last update: 07/10/2021
Revision: 04-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = -20/-25 °C, ambient temperature = +15°C, fluid = EG50%
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm



AIR CONDITIONING APPLICATION

R410A / R32 / R454B

Scroll compressors

Plate evaporator

No tank & no pump

Gekko AIR FT series

From 8 kW up to 410 kW



Technical Data Tables

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Gekkold



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Industrial Chiller Supplier

Gekko AIR FT series

*Air-Cooled liquid Chillers
AC axial fans*

*IP54 protection rating
Suitable for OUTDOOR installation*



GEKKOLD

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AAir-cooled liquid chillers AIR FT series for air conditioning application, scroll compressors, R410A / R32 / R454B refrigerant, brazed plate, condenser coil with copper tubes and aluminum fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Pump and tank available as an optional.

Type of available evaporators:
B-ES = stainless steel brazed plate evaporator

TECHNICAL DATA

PERFORMANCES		Model	008	010	012	016	018	022	025	030
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	7,9	9,3	12,2	13,5	18,0	22,0	25,0	31,0
TOTAL NOMINAL ABSORBED POWER		kW	2,9	3,7	4,4	5,7	6,5	7,5	8,6	9,8
EER		kW/kW	2,77	2,55	2,78	2,37	2,78	2,93	2,90	3,15
SEPR (HT) (3)		-	4,64	4,59	4,75	4,79	5,01	5,23	5,18	5,51
NOMINAL WATER FLOW		m3/h	1,4	1,6	2,1	2,3	3,1	3,8	4,3	5,3
MECHANICAL MODE PRESSURE DROPS (4)		kPa	42	54	42	50	45	66	42	70
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m3/h	1,2÷2,4	1,2÷3,0	1,2÷3,0	1,2÷3,0	2,3÷5,0	3,0÷6,0	3,0÷6,0	3,5÷6,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,88	0,98	0,98	0,98	0,98	1,28	1,28	1,28
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	1,65	1,78	1,78	1,78	1,78	2,37	2,37	2,37
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	1,10	1,10	1,10	1,10	1,47	1,47	1,47	1,47
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,17	2,17	2,17	2,17	2,86	2,86	2,86	2,86
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1"	1"	1"	1"	1"	1"	1"	1"	1 1/2"
TANK VOLUME (5)	dm³	50	50	50	50	110	110	110	200	
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)	liters	5	5	5	5	8	8	8	12	
FAN SECTION (AXIAL)										
FANS	nr.	1	1	1	1	1	1	1	1	2
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF
MAXIMUM FANS ABSORBED POWER	AC	kW	0,25	0,25	0,49	0,49	0,68	0,81	0,81	1,44
MAXIMUM FANS ABSORBED CURRENT		A	1,10	1,10	2,40	2,40	3,00	1,50	1,50	2,82
TOTAL AIR FLOW	m3/h	4100	4100	4750	4750	6500	7400	6800	16000	
TOTAL ELECTRIC DATA										
ELECTRICAL FEED	V/ph/Hz	400/3/50/N	400/3/50/N	400/3/50/N	400/3/50/N	400/3/50/N	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	8,4	8,7	11,6	12,2	17,0	17,4	21,1	23,0	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	48,0	48,0	69,0	69,0	73,0	102,0	127,4	139,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	NA	NA	NA	NA	NA	NA	102,4	111,2	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	50,0	50,0	50,0	50,0	51,3	54,3	55,4	53,1	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	NA	NA	NA	NA	NA	NA	NA	52,2	
DIMENSIONS AND WEIGHT										
LENGTH	mm	820	820	820	820	1010	1010	1010	1610	
WIDTH	mm	615	615	615	615	720	720	720	860	
HEIGHT	mm	1415	1415	1415	1415	1585	1585	1585	1550	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	135	135	140	140	165	205	250	275	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	135	135	140	140	165	205	380	280	

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm



Air-cooled liquid chillers AIR FT series for air conditioning application, scroll compressors, R410A / R32 / R454B refrigerant, brazed plate, condenser coil with copper tubes and aluminum fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Pump and tank available as an optional.

Type of available evaporators:

B-ES = stainless steel brazed plate evaporator

TECHNICAL DATA

PERFORMANCES		Model	038	045	055	061	075	090	100	130
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	37,0	45,0	55,0	64,0	72,0	88,0	100,0	115,0
TOTAL NOMINAL ABSORBED POWER		kW	13,1	13,8	18,9	20,3	26,3	29,1	33,0	39,4
EER		kW/kW	2,82	3,25	2,91	3,16	2,74	3,03	3,03	2,92
SEPR (HT) (3)		-	5,05	5,17	5,23	5,40	5,77	5,16	5,61	5,02
NOMINAL WATER FLOW		m3/h	6,4	7,7	9,5	11,0	12,4	15,1	17,2	19,8
MECHANICAL MODE PRESSURE DROPS (4)		kPa	50	46	55	66	53	51	48	59
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	1/1/1	1/1/1	1/1/1	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4	
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m3/h	6,0÷12,0	6,0÷12,0	6,0÷12,0	8,0÷17,0	8,0÷17,0	8,0÷17,0	8,0÷21,0	14,0÷34,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,20	2,20	2,20	2,53	2,53	2,53	2,53	4,56
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,24	4,24	4,24	4,56	4,56	4,56	4,56	7,75
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	2,94	2,94	2,94	6,12	6,12	6,12	6,12	10,20
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	5,83	5,83	5,83	10,40	10,40	10,40	10,40	17,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	DN65	
TANK VOLUME (5)	dm³	200	200	200	390	390	390	390	390	
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)	liters	12	12	12	19	19	19	19	19	
FAN SECTION (AXIAL)										
FANS	nr.	2	2	2	2	2	2	2	2	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	
MAXIMUM FANS ABSORBED POWER	AC	kW	1,62	1,44	1,62	3,88	3,88	3,88	3,88	3,88
MAXIMUM FANS ABSORBED CURRENT		A	3,08	2,82	3,08	7,80	7,80	7,80	7,80	7,80
TOTAL AIR FLOW	m3/h	16400	15000	15600	25000	36000	34000	32000	40000	
TOTAL ELECTRIC DATA										
ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	27,6	32,8	39,5	48,1	56,8	67,8	74,2	88,3	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	140,0	174,0	225,0	166,9	172,3	211,8	262,8	207,2	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	112,0	139,2	180,0	139,1	144,3	177,0	217,8	179,4	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	57,1	54,3	58,6	58,8	59,3	59,5	60,3	59,2	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	56,2	52,6	56,8	58,1	58,3	58,3	58,7	58,2	
DIMENSIONS AND WEIGHT										
LENGTH	mm	1610	1610	1610	2220	2220	2220	2220	3355	
WIDTH	mm	860	860	860	1100	1100	1100	1100	1105	
HEIGHT	mm	1550	1550	1540	2120	2120	2120	2120	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	280	295	375	530	565	585	670	1000	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	285	300	380	545	580	600	685	1025	

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Air-cooled liquid chillers AIR FT series for air conditioning application, scroll compressors, R410A / R32 / R454B refrigerant, brazed plate, condenser coil with copper tubes and aluminum fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation. Pump and tank available as an optional.

Type of available evaporators:
B-ES = stainless steel brazed plate evaporator

TECHNICAL DATA

PERFORMANCES		Model	160	185	200	230	280	340	370	430
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	150,0	170,0	204,3	227,0	277,0	319,0	365,0	410,0
TOTAL NOMINAL ABSORBED POWER		kW	51,4	58,2	63,0	76,5	94,9	107,5	119,6	136,6
EER		kW/kW	2,92	2,92	3,24	2,97	2,92	2,97	3,05	3,00
SEPR (HT) (3)		-	5,02	5,10	5,22	5,76	5,14	5,08	5,15	5,01
NOMINAL WATER FLOW		m ³ /h	25,8	29,2	35,1	39,0	47,6	54,9	62,8	70,5
MECHANICAL MODE PRESSURE DROPS (4)		kPa	58	48	39	43	51	53	55	54
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m ³ /h	14,0÷34,0	14,0÷34,0	22,0÷47,0	22,0÷47,0	25,0÷60,0	30,0÷70,0	35,0÷80,0	35,0÷87,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	4,56	4,56	8,30	8,30	8,30	8,30	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	7,75	7,75	14,10	14,10	14,10	14,10	17,40	17,40
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	10,20	10,20	16,22	16,22	16,22	16,22	16,22	19,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	17,40	17,40	26,60	26,60	26,60	26,60	26,60	32,70
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	DN65	DN65	DN80	DN80	DN100	DN100	DN100	DN100	DN125
TANK VOLUME (5)	dm ³	390	390	390	500	500	500	500	500	500
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)	liters	19	19	19	19	19	19	19	19	19
FAN SECTION (AXIAL)										
FANS	nr.	3	3	4	5	5	5	6	6	
FAN SPEED REGULATION	-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF
MAXIMUM FANS ABSORBED POWER	AC	kW	5,82	5,82	7,76	9,70	9,70	9,70	11,64	11,64
MAXIMUM FANS ABSORBED CURRENT		A	11,70	11,70	15,60	19,50	19,50	19,50	23,40	23,40
TOTAL AIR FLOW	m ³ /h	57000	54000	68800	91000	90000	85000	102000	96000	
TOTAL ELECTRIC DATA										
ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	109,7	131,7	148,5	165,3	197,9	227,3	260,6	289,6	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	225,2	275,7	337,0	353,8	425,3	478,0	511,3	623,8	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	197,2	240,9	292,0	308,8	370,9	416,0	449,3	542,2	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	61,3	61,5	63,3	64,6	66,0	66,0	66,4	67,8	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (6) (7)	dB(A)	60,1	60,2	61,7	62,8	63,5	63,5	64,0	64,8	
DIMENSIONS AND WEIGHT										
LENGTH	mm	3355	3355	4355	5350	5350	5350	6350	6350	
WIDTH	mm	1105	1105*	1105*	1105	1105	1105	1105	1105	
HEIGHT	mm	2205	2205	2205	2205	2205	2205	2205	2205	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	1050	1100	1690	1915	2070	2150	2410	2565	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	1080	1135	1710	1950	2110	2195	2455	2615	

The manufacturer reserves the right to modify specifications without notice.

Last update: 22/07/2021
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm



CONDENSING UNIT

R410A / R32 / R454B

Scroll compressors

No evaporator, no tank & no pump

Gekko MT series

From 7,7 kW up to 375,6 kW



Technical Data Tables

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Gekkold



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Industrial Chiller Supplier

Gekko MT series

*Moto-Condensing unit
AC axial fans
IP54 protection rating
Suitable for OUTDOOR installation*



GEKKOLD

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**Condensing unit MT series scroll compressors, R410A / R32 / R454B refrigerant,
condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation.
60Hz version as option.**

Type of included options: FLT = DEHYDRATING FILTER FOR LIQUID LINE
LIQ = LIQUID INDICATOR / SIGHT GLASS FOR LIQUID LINE
OIS = OIL SEPARATOR
RLQ = LIQUID RECEIVER

Type of remote evaporator: Hydraulic circuit customer side
Air handling unit circuit customer side

TECHNICAL DATA

PERFORMANCES		Model	008	012	016	018	022	025	030	038
NOMINAL COOLING CAPACITY	Tevap + 5°C @ 35°C (1)	kW	7,7	11,5	12,3	15,5	19,1	22,7	27,2	32,4
TOTAL NOMINAL ABSORBED POWER		kW	3,6	5,0	5,2	6,1	7,7	8,6	9,9	13,1
EER		kW/kW	2,13	2,31	2,36	2,52	2,47	2,65	2,74	2,47
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
KIND OF COMPRESSOR		-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
KIND OF EXPANSION ELEMENT		-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS
FAN SECTION (AXIAL)										
FANS		nr.	1	1	1	1	1	1	2	2
FAN SPEED REGULATION		-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF
MAXIMUM FANS ABSORBED POWER	AC	kW	0,25	0,49	0,49	0,68	0,81	0,81	1,44	1,62
MAXIMUM FANS ABSORBED CURRENT		A	1,10	2,40	2,40	3,00	1,50	1,50	2,82	3,08
TOTAL AIR FLOW		m3/h	4200	4750	4750	6500	6800	6800	16000	16400
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50/N	400/3/50/N	400/3/50/N	400/3/50/N	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (2)		A	10,2	13,3	13,9	18,8	19,8	18,7	22,0	27,6
MAXIMUM PEAK CURRENT (L.R.A) (2)		A	50,0	71,0	71,0	75,0	104,0	125,0	118,0	140,0
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (2)		A	NA	NA	NA	NA	NA	NA	NA	NA
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (2) (3)		dB(A)	51,4	52,2	52,2	53,3	54,5	54,0	53,0	56,6
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (2) (3)		dB(A)	NA	NA	NA	NA	NA	NA	52,3	56,2
DIMENSIONS AND WEIGHT										
LENGTH		mm	820	820	820	1010	1010	1010	1610	1610
WIDTH		mm	615	615	615	720	720	720	860	860
HEIGHT		mm	1415	1415	1415	1585	1585	1585	1550	1550
WEIGHT EMPTY FOR STANDARD CONFIGURATION		kg	135	135	140	165	205	230	275	280

The manufacturer reserves the right to modify specifications without notice.

Revision:

Last update: 27/01/2021
Revision: 01-2021

Data referred to:

(1) Data referred to Evaporating temperature = +5 °C, ambient temperature = +35°C, fluid = Water

(2) Data referred to standard chiller configuration and AC fans

(3) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface



**Condensing unit MT series, scroll compressors, R410A / R32 / R454B refrigerant,
condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation.
60Hz version as option.**

Type of included options:	Type of remote evaporator:	Hydraulic circuit customer side
FLT = DEHYDRATING FILTER FOR LIQUID LINE		Air handling unit circuit customer side
LIQ = LIQUID INDICATOR / SIGHT GLASS FOR LIQUID LINE		
OIS = OIL SEPARATOR		
RLQ = LIQUID RECEIVER		

TECHNICAL DATA

PERFORMANCES		Model	045	055	061	070	075	090	100	130
NOMINAL COOLING CAPACITY	Tevap + 5°C @ 35°C (1)	kW	40,5	49,7	53,0	61,0	66,0	80,2	91,0	102,0
TOTAL NOMINAL ABSORBED POWER		kW	14,0	19,3	20,1	23,4	26,7	29,5	33,2	40,9
EER		kW/kW	2,88	2,57	2,63	2,61	2,47	2,72	2,74	2,50
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/1	1/1/1	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4
KIND OF COMPRESSOR		-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
KIND OF EXPANSION ELEMENT		-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS
FAN SECTION (AXIAL)										
FANS		nr.	2	2	2	2	2	2	2	2
FAN SPEED REGULATION		-	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF	ON/OFF
MAXIMUM FANS ABSORBED POWER	AC	kW	1,44	1,62	2,50	3,88	3,88	3,88	3,88	3,88
MAXIMUM FANS ABSORBED CURRENT		A	2,82	3,08	4,96	7,80	7,80	7,80	7,80	7,80
TOTAL AIR FLOW		m3/h	15000	15600	25000	36000	36000	34000	32000	40000
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (2)		A	32,8	39,5	43,4	51,5	56,8	67,8	74,2	84,7
MAXIMUM PEAK CURRENT (L.R.A) (2)		A	174,0	225,0	137,2	159,2	164,5	204,0	255,0	175,7
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (2)		A	NA	NA	118,6	139,0	144,3	177,0	217,8	159,9
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (2) (3)		dB(A)	53,8	58,1	56,8	58,7	58,8	59,0	59,8	59,0
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (2) (3)		dB(A)	52,6	56,8	56,3	58,2	58,3	58,3	58,7	58,3
DIMENSIONS AND WEIGHT										
LENGTH		mm	1610	1610	2220	2220	2220	2220	2220	3355
WIDTH		mm	860	860	1100	1100	1100	1100	1100	1105*
HEIGHT		mm	1550	1550	2120	2120	2120	2120	2120	2205
WEIGHT EMPTY FOR STANDARD CONFIGURATION		kg	340	390	510	540	545	560	650	820

The manufacturer reserves the right to modify specifications without notice.

Last update: 27/01/2021
Revision: 01-2021

Data referred to:

(1) Data referred to Evaporating temperature = +5 °C, ambient temperature = +35°C, fluid = Water

(2) Data referred to standard chiller configuration and AC fans

(3) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface



**Condensing unit MT series, scroll compressors, R410A / R32 / R454B refrigerant,
condenser coil with copper tubes and aluminium fins, AC axial fans. IP54 protection rating, chillers suitable for outdoor installation.
60Hz version as option.**

Type of included options:

FLT = DEHYDRATING FILTER FOR LIQUID LINE
LIQ = LIQUID INDICATOR / SIGHT GLASS FOR LIQUID LINE
OIS = OIL SEPARATOR
RLQ = LIQUID RECEIVER

Type of remote evaporator:

Hydraulic circuit customer side
Air handling unit circuit customer side

TECHNICAL DATA

PERFORMANCES		Model	160	185	200	230	280	340	370	430
NOMINAL COOLING CAPACITY	Tevap + 5°C @ 35°C (1)	kW	127,2	154,8	190,0	211,2	254,4	290,4	331,6	375,6
TOTAL NOMINAL ABSORBED POWER		kW	53,4	59,2	62,8	72,3	96,1	108,7	121,6	138,8
EER		kW/kW	2,38	2,61	3,03	2,92	2,65	2,67	2,73	2,71
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4
KIND OF COMPRESSOR		-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
KIND OF EXPANSION ELEMENT		-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS
FAN SECTION (AXIAL)										
FANS		nr.	3	3	4	5	5	5	6	6
FAN SPEED REGULATION		-	ON/OFF	ON/OFF	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE	CUT PHASE
MAXIMUM FANS ABSORBED POWER	AC	kW	5,82	5,82	7,76	9,70	9,70	9,70	11,64	11,64
MAXIMUM FANS ABSORBED CURRENT		A	11,70	11,70	15,60	19,50	19,50	19,50	23,40	23,40
TOTAL AIR FLOW		m ³ /h	57000	54000	68800	91000	90000	85000	102000	96000
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (2)		A	109,7	131,7	148,5	165,3	197,9	227,3	260,6	289,6
MAXIMUM PEAK CURRENT (L.R.A) (2)		A	213,5	264,0	321,4	334,3	405,8	458,5	487,9	600,4
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (2)		A	197,2	240,9	292,0	308,8	370,9	416,0	449,3	542,2
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (2) (3)		dB(A)	60,8	61,0	62,8	64,1	65,5	65,5	65,9	67,3
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ) (2) (3)		dB(A)	60,1	60,2	61,7	62,8	63,5	63,5	64,0	64,8
DIMENSIONS AND WEIGHT										
LENGTH		mm	3355	3355	4355	5350	5350	5350	6350	6350
WIDTH		mm	1105*	1105*	1105**	1105	1105	1105	1105	1105
HEIGHT		mm	2205	2205	2205	2205	2205	2205	2205	2205
WEIGHT EMPTY FOR STANDARD CONFIGURATION		kg	955	995	1455	1750	1870	2010	2270	2315

The manufacturer reserves the right to modify specifications without notice.

Last update: 27/01/2021
Revision: 01-2021

Data referred to:

(1) Data referred to Evaporating temperature = +5 °C, ambient temperature = +35°C, fluid = Water

(2) Data referred to standard chiller configuration and AC fans

(3) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface



CONDENSERLESS

*R410A / R32 / R454B / R134A / R513A / R1234ZE
Screw / Scroll compressors
Coaxial / Shell & Tube evaporator / Plate
Inbuilt water storage tank & single pump P3*

Gekko RC - AIR FT - CWS series
From 7,4 kW up to 1953 kW



Technical Data Tables

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Gekkold



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Industrial Chiller Supplier

Gekko RC series

Condenserless liquid Chillers
Closed cabinet
IP54 protection rating
Suitable for OUTDOOR installation



GEKKOLD

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Condenserless liquid chillers RC series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial / shell and tube evaporator, closed cabinet. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. Standar configuration doesn't include 0-10V signal or power supply for the fans of remote condenser (remote condenser not supply by Gekkold). Supplied with 5 bar nitrogen charge.

Type of available evaporators:

CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage

tank ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)

B-ES = stainless steel brazed plate evaporator

TECHNICAL DATA

PERFORMANCES		Model	008	010	012	016	018	022	025	030
NOMINAL COOLING CAPACITY	W 12°C/7°C @ TC=50°C (1)	kW	7,4	8,4	11,1	12,1	16,6	17,4	21,9	25,2
TOTAL NOMINAL ABSORBED POWER		kW	4,1	4,3	5,3	5,3	7,1	7,5	8,6	9,5
EER		kW/kW	2,31	2,55	2,58	2,81	2,72	2,79	2,98	3,06
NOMINAL WATER FLOW		m ³ /h	1,3	1,4	1,9	2,1	2,9	3,0	3,8	4,3
MECHANICAL MODE PRESSURE DROPS (3)		kPa	21	21	21	16	22	17	33	24
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
KIND OF EVAPORATOR		-	CX	CX	CX	CX	CX	CX	CX	CX
HYDRAULIC SECTION										
WATER FLOW RANGE (5)		m ³ /h	1,2+2,4	1,4+3,0	1,2+2,9	1,2+2,9	2,5+5,0	3,0+6,0	3,0+6,0	4,0+6,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,88	0,98	0,98	0,98	0,98	1,28	1,28	1,28
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	1,65	1,78	1,78	1,78	1,78	2,37	2,37	2,37
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	1,10	1,10	1,10	1,10	1,47	1,47	1,47	1,47
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,17	2,17	2,17	2,17	2,86	2,86	2,86	2,32
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	1"	1"	1"	1"	1"	1"	1"	1 1/2"
TANK VOLUME (4)		dm ³	50	50	50	50	110	110	110	270
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	5	5	5	5	8	8	8	12
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50/N	400/3/50/N	400/3/50/N	400/3/50/N	400/3/50/N	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (5)		A	9,0	9,4	11,0	11,6	15,8	17,6	19,6	22,5
MAXIMUM PEAK CURRENT (L.R.A) (5)		A	48,0	48,0	69,0	69,0	73,0	125,0	127,4	141,4
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (5)		A	NA	NA	NA	NA	NA	NA	NA	NA
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (5) (6)		dB(A)	51,4	51,4	52,2	52,2	53,3	51,0	51,8	51,0
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (OPTION LNJ) (5) (6)		dB(A)	NA	NA	NA	NA	NA	NA	NA	50,3
DIMENSIONS AND WEIGHT										
LENGTH		mm	820	820	820	820	1010	1010	1010	1610
WIDTH		mm	615	615	615	615	720	720	720	860
HEIGHT		mm	1360	1360	1360	1360	1580	1420	1585	1380
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4) (5) (7)		kg	175	180	185	190	230	247	250	374
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4) (5) (7)		kg	225	230	235	240	360	376	379	673

The manufacturer reserves the right to modify specifications without notice.

Last update: 27/07/2020
Revision: 01-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, condensing temperature = +50°C, condenser subcooling temperature = +5°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) Pressure drops taken in account: evaporator, valves, piping
- (4) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (5) Data referred to standard chiller configuration WP (single pump P3)
- (6) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (7) Weight will be confirmed in case of order

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Condenserless liquid chillers RC series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial / shell and tube evaporator, closed cabinet. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. Standar configuration doesn't include 0-10V signal or power supply for the fans of remote condenser (remote condenser not supply by Gekkold). Supplied with 5 bar nitrogen charge.

Type of available evaporators:

CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage

tank ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)

B-ES = stainless steel brazed plate evaporator

TECHNICAL DATA

PERFORMANCES		Model	038	045	055	061	075	090	100	130
NOMINAL COOLING CAPACITY	W 12°C/7°C @ TC=50°C (1)	kW	32,0	37,8	48,7	53,0	64,1	75,5	86,5	104,6
TOTAL NOMINAL ABSORBED POWER		kW	12,6	14,4	18,0	18,8	23,4	26,9	30,5	37,5
EER		kW/kW	3,08	3,10	3,08	3,27	3,07	3,09	3,09	3,18
NOMINAL WATER FLOW		m ³ /h	5,5	6,5	8,4	9,1	11,0	13,0	14,9	18,0
MECHANICAL MODE PRESSURE DROPS (3)		kPa	34	39	51	23	20	28	39	54
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/1	1/1/1	1/1/1	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4
KIND OF EVAPORATOR		-	CX	CX	CX	CX	CX	CX	CX	ST
HYDRAULIC SECTION										
WATER FLOW RANGE (5)		m ³ /h	5,0÷12,0	6,0÷12,0	6,0÷12,0	8,0÷18,0	10,0÷20,0	10,0÷20,0	10,0÷20,0	14,0÷27,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,20	2,20	2,20	2,53	2,53	2,53	2,53	4,56
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,24	4,24	4,24	4,56	4,56	4,56	4,56	7,75
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	2,94	2,94	2,94	6,12	6,12	6,12	6,12	10,20
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	5,83	5,83	5,83	10,40	10,40	10,40	10,40	17,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	1 1/2"	1 1/2"	1 1/2"	2"	2"	2"	2"	DN65
TANK VOLUME (4)		dm ³	270	270	270	410	410	410	410	390
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	12	12	12	19	19	19	19	19
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (5)		A	28,7	34,2	40,7	44,8	53,6	64,6	71,0	88,3
MAXIMUM PEAK CURRENT (L.R.A) (5)		A	144,2	178,2	229,2	163,7	169,1	208,6	259,6	207,1
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (5)		A	NA	NA	NA	135,9	141,1	173,8	214,6	179,3
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (5) (6)		dB(A)	52,1	52,5	55,5	51,8	53,5	54,1	56,3	53,0
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (OPTION LNJ) (5) (6)		dB(A)	50,8	51,0	52,5	50,6	51,5	51,8	53,1	51,2
DIMENSIONS AND WEIGHT										
LENGTH		mm	1610	1610	1610	2220	2220	2220	2220	3355
WIDTH		mm	860	860	860	1100	1100	1100	1100	1105*
HEIGHT		mm	1380	1380	1380	1900	1900	1900	1900	1985
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4) (5) (7)		kg	384	397	417	780	797	806	864	1473
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4) (5) (7)		kg	683	696	716	1198	1215	1224	1281	1889

The manufacturer reserves the right to modify specifications without notice.

Last update: 27/07/2020
Revision: 01-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, condensing temperature = +50°C, condenser subcooling temperature = +5°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) Pressure drops taken in account: evaporator, valves, piping
- (4) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (5) Data referred to standard chiller configuration WP (single pump P3)
- (6) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (7) Weight will be confirmed in case of order

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Condenserless liquid chillers RC series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial / shell and tube evaporator, closed cabinet. IP54 protection rating, chillers suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. Standar configuration doesn't include 0-10V signal or power supply for the fans of remote condenser (remote condenser not supply by Gekkold). Supplied with 5 bar nitrogen charge.

Type of available evaporators:

CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage

tank ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)

B-ES = stainless steel brazed plate evaporator

TECHNICAL DATA

PERFORMANCES		Model	160	185	200	230	280	340	370	430
NOMINAL COOLING CAPACITY	W 12°C/7°C @ TC=50°C (1)	kW	132,7	156,4	172,3	202,2	254,1	292,0	329,8	375,6
TOTAL NOMINAL ABSORBED POWER		kW	46,4	53,4	64,3	71,5	88,2	99,7	113,1	126,3
EER		kW/kW	3,17	3,21	3,08	3,20	3,18	3,19	3,21	3,23
NOMINAL WATER FLOW		m ³ /h	22,8	26,9	29,6	34,7	43,6	50,1	56,7	64,5
MECHANICAL MODE PRESSURE DROPS (3)		kPa	54	55	48	56	56	48	55	61
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4
KIND OF EVAPORATOR		-	ST	ST	ST	ST	ST	ST	ST	ST
HYDRAULIC SECTION										
WATER FLOW RANGE (5)		m ³ /h	15,4÷30,8	17,5÷35,0	25,0÷46,0	25,0÷46,0	31,0÷58,0	38,0÷70,0	45,0÷80,0	52,0÷100,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	4,56	4,56	8,30	8,30	8,30	8,30	10,20	10,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	7,75	7,75	14,10	14,10	14,10	14,10	17,40	17,40
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	10,20	10,20	16,22	16,22	16,22	16,22	16,22	19,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	17,40	17,40	26,60	26,60	26,60	26,60	26,60	32,70
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	DN65	DN65	DN80	DN80	DN100	DN100	DN100	DN125
TANK VOLUME (4)		dm ³	390	390	390	500	500	500	500	500
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	19	19	19	19	19	19	19	19
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (5)		A	105,8	127,8	147,0	159,9	192,5	221,9	254,6	283,6
MAXIMUM PEAK CURRENT (L.R.A) (5)		A	221,3	271,8	335,5	348,4	419,9	472,6	505,3	617,8
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (5)		A	193,3	237,0	290,5	303,4	365,5	410,6	443,3	536,2
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (5) (6)		dB(A)	55,5	56,2	59,0	60,5	63,3	63,3	63,4	65,7
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (OPTION LNJ) (5) (6)		dB(A)	52,5	53,0	55,3	56,5	58,8	58,8	59,2	61,2
DIMENSIONS AND WEIGHT										
LENGTH		mm	3355	3355	4355	4355	4355	4355	5350	5350
WIDTH		mm	1105*	1105*	1105**	1105**	1105**	1105**	1105	1105
HEIGHT		mm	1985	1985	1985	1985	1985	1985	1985	1985
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4) (5) (7)		kg	1513	1535	1730	1860	1940	2030	2360	2440
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4) (5) (7)		kg	1944	1970	2182	2407	2491	2600	2955	3060

The manufacturer reserves the right to modify specifications without notice.

Last update: 27/07/2020
Revision: 01-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, condensing temperature = +50°C, condenser subcooling temperature = +5°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) Pressure drops taken in account: evaporator, valves, piping
- (4) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (5) Data referred to standard chiller configuration WP (single pump P3)
- (6) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (7) Weight will be confirmed in case of order

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Gekkold



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Industrial Chiller Supplier

Gekko AIR FT series

Condenserless liquid Chillers
Open cabinet with compact footprint
IP54 protection rating
Suitable for INDOOR installation



GEKKOLD

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Condenserless liquid chillers AIR FT series, scroll compressors, R410A / R32 / R454B refrigerant, brazed plate evaporator, thermostatic expansion valve, oil separators, open cabinet and compact design to fit in narrow spaces.
Electrical feed 400V/3ph/50Hz (60Hz version as option), IP54 protection rating, chillers suitable for indoor / outdoor installation.
Standar configuration doesn't include 0-10V signal or power supply for the fans of remote condenser (remote condenser not supply by Gekkold). Supplied with 5 bar nitrogen charge.

Special features of CFTC series: Type of available expansion elements
 B-ES = stainless steel brazed plate evaporator VTS = Thermostatic expansion valve
 Compact deisgn and open cabinet ETS = Electronic expansion valve (available as option)
 Possibility to control the remote condenser fans (remote conder data must be provided)

TECHNICAL DATA										
PERFORMANCES		Model	061	075	090	100	130	160	185	200
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 50°C (1)	kW	53,0	65,8	77,4	86,5	100,2	125,8	163,0	180,4
TOTAL NOMINAL ABSORBED POWER		kW	16,3	20,9	24,4	28,0	30,5	38,7	51,0	55,6
EER		kW/kW	3,24	3,15	3,17	3,09	3,29	3,25	3,20	3,24
NOMINAL WATER FLOW		m3/h	9,1	11,3	13,3	14,9	17,2	21,6	28,0	31,0
MECHANICAL MODE PRESSURE DROPS (2)		kPa	52	50	45	43	57	47	50	47
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.		2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4
HYDRAULIC SECTION (3)										
WATER FLOW RANGE	m3/h		8÷17	8÷17	8÷17	10÷22	15÷27	15÷32	15÷38	20÷53
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN		2"	2"	2"	2"	DN65	DN65	DN65	DN80
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A)	A		40,3	49,0	60,0	65,2	70,4	87,7	118,6	130,4
MAXIMUM PEAK CURRENT (L.R.A)	A		159,1	164,5	204,0	270,8	276,0	331,4	369,3	336,0
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)	A		131,3	136,5	169,2	222,6	227,8	273,9	307,3	287,8
NOISE DATA (4)										
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)		47,0	51,0	52,0	56,0	58,0	58,0	60,0	59,0
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LN.J)	dB(A)		42,0	46,0	47,0	51,0	53,0	53,0	55,0	54,0
DIMENSIONS AND WEIGHT										
LENGTH	mm		1250	1250	1250	1750	1750	1750	1750	3000
WIDTH	mm		750	750	750	800	800	800	800	800
HEIGHT	mm		1700	1700	1700	1900	1900	1900	1900	2000
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5)	kg		375	395	420	750	800	860	930	1100
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5)	kg		390	415	440	790	850	920	1000	1180

TECHNICAL DATA										
PERFORMANCES		Model	230	280	340	370	430			
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 50°C (1)	kW	200,4	251,6	288,8	326,0	371,0			
TOTAL NOMINAL ABSORBED POWER		kW	61,0	77,4	90,9	102,0	115,6			
EER		kW/kW	3,29	3,25	3,18	3,20	3,21			
NOMINAL WATER FLOW		m3/h	34,5	43,3	49,7	56,1	63,8			
MECHANICAL MODE PRESSURE DROPS (2)		kPa	57	47	49	50	50			
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.		4/2/4	4/2/4	4/2/4	4/2/4	4/2/4			
HYDRAULIC SECTION (3)										
WATER FLOW RANGE	m3/h		20÷53	20÷53	35÷85	35÷85	35÷85			
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN		DN80	DN80	DN100	DN100	DN100			
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A)	A		140,8	175,5	207,8	237,2	266,2			
MAXIMUM PEAK CURRENT (L.R.A)	A		346,4	419,1	458,5	487,9	600,4			
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)	A		298,2	361,6	396,5	425,9	518,8			
NOISE DATA (4)										
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)		61,0	61,0	63,0	63,0	65,5			
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LN.J)	dB(A)		56,0	56,0	58,0	58,0	60,5			
DIMENSIONS AND WEIGHT										
LENGTH	mm		3000	3000	3500	3500	3500			
WIDTH	mm		800	800	900	900	900			
HEIGHT	mm		2000	2000	2300	2300	2300			
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5)	kg		1120	1150	1320	1490	1660			
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5)	kg		1210	1250	1350	1500	1680			

The manufacturer reserves the right to modify specifications without notice.

Last update: 30/07/2021
Revision: 02-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, condensing temperature = +50°C, condenser subcooling temperature = +5°C, fluid = Water
- (2) Pressure drops taken in account: evaporator, valves, piping
- (3) You can match an hydromodule with this chiller: go to select it at <https://www.hitema.com/standard-products/hydro-module>
- (4) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (5) Weight will be confirmed in case of order

Gekkold



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Industrial Chiller Supplier

Gekko CWS series

Condenserless liquid Chillers
Open cabinet with compact footprint
IP54 protection rating
Suitable for INDOOR installation



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Condenserless liquid chillers CWS series, screw compressors, R134a / R513A refrigerant (R1234ze on request), 1 shell and tube evaporator, electronic expansion valves, 50-75-100% partition steps per compressor, oil separators, open cabinet and compact design to fit in narrow spaces. Electrical feed 400V/3ph/50Hz (60Hz version as option), IP54 protection rating, chillers suitable for indoor / outdoor installation. Standar configuration doesn't include 0-10V signal or power supply for the fans of remote condenser (remote condenser not supply by Gekkold). Supplied with 5 bar nitrogen charge.

Types of available condensing temperature control system:
 NF = No one condensing temperature control system (standard)
 FS = 0-10V signal for the fans of remote condenser from chiller
 RV(FS,FP) = Electronic fan speed control (cut phase), 0-10V signal and power supply of fans from chiller

Type of compressors starting method:
 PW = Part-Winding
 Y-D = Star-Delta

TECHNICAL DATA										
PERFORMANCES		Model	1_300	1_350	1_400	1_460	1_570	1_630	1_720	1_770
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 50°C (1)	kW	266,0	303,0	359,0	419,0	484,0	550,0	592,0	648,0
TOTAL NOMINAL ABSORBED POWER		kW	78,0	88,8	103,9	116,2	135,2	152,8	173,9	186,8
EER		kW/kW	3,41	3,41	3,46	3,61	3,58	3,60	3,40	3,47
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	45,6	52,0	61,6	71,9	83,0	94,3	101,5	111,1
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (2)		kPa	56,9	61,9	50,9	51,9	56,9	58,9	42,9	40,9
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS	nr.	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
COMPRESSORS STARTING METHOD	-	PW	PW	Y-D	Y-D	Y-D	Y-D	Y-D	Y-D	Y-D
HYDRAULIC SECTION (3)										
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m3/h	32÷58	36÷73	43÷86	63÷112	73÷116	85÷142	85÷142	97÷173	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)	DN	100	100	100	125	125	150	150	150	
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A)	A	196,0	214,0	280,0	310,0	320,0	360,0	413,0	477,0	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	943,0	1023,0	1364,0	1442,0	1853,0	2029,0	2520,0	2870,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	754,4	818,4	1091,2	1153,6	1482,4	1623,2	2016,0	2296,0	
NOISE DATA (4)										
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	64,1	64,5	65,4	65,7	66,6	67,5	68,3	68,9	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	59,1	59,5	60,4	60,7	61,6	62,5	63,3	63,9	
DIMENSIONS AND WEIGHT										
LENGTH	mm	4200	4200	5200	5200	5200	5200	5200	5200	
WIDTH	mm	1300	1300	1500	1500	1700	1700	1900	1900	
HEIGHT	mm	1500	1500	1600	1600	1700	1700	1900	1900	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5)	kg	1750	1820	2195	2230	2575	2630	2735	2775	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5)	kg	1850	1920	2355	2390	2755	2810	3015	3025	

TECHNICAL DATA										
PERFORMANCES		Model	2_300	2_350	2_400	2_460	2_570	2_630	2_720	2_860
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 50°C (1)	kW	247,0	290,4	339,0	386,0	482,0	532,0	606,0	718,0
TOTAL NOMINAL ABSORBED POWER		kW	71,2	88,0	99,8	113,6	138,8	156,0	177,6	207,8
EER		kW/kW	3,47	3,30	3,40	3,40	3,47	3,41	3,41	3,46
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	42,4	49,8	58,1	66,2	82,7	91,2	103,9	123,1
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (2)		kPa	49,9	53,9	60,9	50,9	54,9	51,9	44,9	55,9
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS	nr.	2/2	2/2	2/2	2/2	2/2	2/2	2/2	2/2	
COMPRESSORS STARTING METHOD	-	PW	PW	PW	PW	PW	PW	PW	Y-D	
HYDRAULIC SECTION (3)										
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m3/h	32÷59	39÷78	45÷91	52÷103	58÷116	71÷142	81÷162	96÷192	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)	DN	100	100	100	125	125	150	150	150	
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A)	A	216,0	248,0	288,0	324,0	364,0	392,0	428,0	560,0	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	616,0	609,0	729,0	848,0	983,0	1139,0	1237,0	1644,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	514,4	512,0	612,0	710,8	822,8	950,4	1032,4	1371,2	
NOISE DATA (4)										
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	63,7	62,7	62,9	62,6	68,4	67,1	67,5	68,4	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	58,7	57,7	57,9	57,6	63,4	62,1	62,5	63,4	
DIMENSIONS AND WEIGHT										
LENGTH	mm	5000	5000	5000	5000	5000	5000	5000	5000	
WIDTH	mm	1700	1700	1700	1800	1800	1800	1900	1900	
HEIGHT	mm	2050	2050	2100	2100	2200	2200	2200	2350	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5)	kg	1660	1830	1925	1955	2925	2970	3060	4340	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5)	kg	1790	1960	2055	2145	3155	3200	3360	4600	

The manufacturer reserves the right to modify specifications without notice.

Last update: 15/03/2021
 Revision: 00-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperatures = +12/+7 °C, condensing temperature = +50°C, condenser subcooling temperature = +5°C, fluid = Water
- (2) Pressure drops taken in account: evaporator, valves, piping
- (3) You can match an hydromodule with this chiller: go to select it at <https://www.hitema.com/standard-products/hydro-module>
- (4) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (5) Weight will be confirmed in case of order
- (6) Data referred to standard compressors starting method, with different starting method this data will change

Condenserless liquid chillers CWS series, screw compressors, R134a / R513A refrigerant (R1234ze on request), 1 shell and tube evaporator, electronic expansion valves, 50-75-100% partition steps per compressor, oil separators, open cabinet and compact design to fit in narrow spaces. Electrical feed 400V/3ph/50Hz (60Hz version as option), IP54 protection rating, chillers suitable for indoor / outdoor installation. Standar configuration doesn't include 0-10V signal or power supply for the fans of remote condenser (remote condenser not supply by Gekkold). Supplied with 5 bar nitrogen charge.

Types of available condensing temperature control system:
 NF = No one condensing temperature control system (standard)
 FS = 0-10V signal for the fans of remote condenser from chiller
 RV(FS,FP) = Electronic fan speed control (cut phase), 0-10V signal and power supply of fans from chiller

Type of compressors starting method:
 PW = Part-Winding
 Y-D = Star-Delta

TECHNICAL DATA

PERFORMANCES		Model	2_990	2_1140	2_1290	2_1400	2_1500
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 50°C (1)	kW	838,0	968,0	1100,0	1184,0	1296,0
TOTAL NOMINAL ABSORBED POWER		kW	232,4	270,4	305,6	347,8	373,6
EER		kW/kW	3,61	3,58	3,60	3,40	3,47
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	143,7	166,0	188,6	203,0	222,2
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (2)		kPa	56,9	73,9	58,9	63,9	68,9
FRIGORIFIC SECTION							
COMPRESSORS / REFRIGERATING CIRCUITS		nr.	2/2	2/2	2/2	2/2	2/2
COMPRESSORS STARTING METHOD		-	Y-D	Y-D	Y-D	Y-D	Y-D
HYDRAULIC SECTION (3)							
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)		m3/h	120÷224	129÷258	142÷264	142÷285	173÷311
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)		DN	200	200	200	200	200
TOTAL ELECTRIC DATA							
MAXIMUM ABSORBED CURRENT (F.L.A)		A	620,0	640,0	720,0	826,0	954,0
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	1752,0	2173,0	2389,0	2933,0	3347,0
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	1463,6	1802,4	1983,2	2429,0	2773,0
NOISE DATA (4)							
SOUND PRESSURE FOR STANDARD CONFIGURATION		dB(A)	68,7	69,6	70,5	71,3	71,9
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)		dB(A)	63,7	64,6	65,5	66,3	66,9
DIMENSIONS AND WEIGHT							
LENGTH		mm	5000	5950	5950	5950	5950
WIDTH		mm	2210	2210	2210	2210	2210
HEIGHT		mm	2350	2450	2450	2450	2450
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5)		kg	4415	4630	4660	4810	4960
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5)		kg	4765	4990	5230	5430	5630

TECHNICAL DATA

PERFORMANCES		Model	3_1690	3_1900	3_2050	3_2200
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 50°C (1)	kW	1422,0	1623,0	1782,0	1953,0
TOTAL NOMINAL ABSORBED POWER		kW	404,4	457,5	522,0	560,7
EER		kW/kW	3,52	3,55	3,41	3,48
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	243,8	278,3	305,6	334,9
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (2)		kPa	69,9	69,9	71,9	79,9
FRIGORIFIC SECTION						
COMPRESSORS / REFRIGERATING CIRCUITS		nr.	3/3	3/3	3/3	3/3
COMPRESSORS STARTING METHOD		-	Y-D	Y-D	Y-D	Y-D
HYDRAULIC SECTION (3)						
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)		m3/h	214÷380	217÷390	238÷476	261÷521
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)		DN	250	250	250	250
TOTAL ELECTRIC DATA						
MAXIMUM ABSORBED CURRENT (F.L.A)		A	960,0	1080,0	1239,0	1431,0
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	2493,0	2749,0	3346,0	3824,0
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	2122,4	2343,2	2842,0	3250,0
NOISE DATA (4)						
SOUND PRESSURE FOR STANDARD CONFIGURATION		dB(A)	71,4	72,3	73,1	73,7
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)		dB(A)	66,4	67,3	68,1	68,7
DIMENSIONS AND WEIGHT						
LENGTH		mm	5950	5950	5950	5950
WIDTH		mm	2210	2210	2210	2210
HEIGHT		mm	2450	2450	2450	2450
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5)		kg	7340	7640	7740	7910
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5)		kg	7890	8365	8610	8860

The manufacturer reserves the right to modify specifications without notice.

Last update: 15/03/2021
Revision: 00-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperatures = +12/+7 °C, condensing temperature = +50°C, condenser subcooling temperature = +5°C, fluid = Water
- (2) Pressure drops taken in account: evaporator, valves, piping
- (3) You can match an hydromodule with this chiller: go to select it at <https://www.hitema.com/standard-products/hydro-module>
- (4) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (5) Weight will be confirmed in case of order
- (6) Data referred to standard compressors starting method, with different starting method this data will change



REVERSABLE HEAT PUMPS

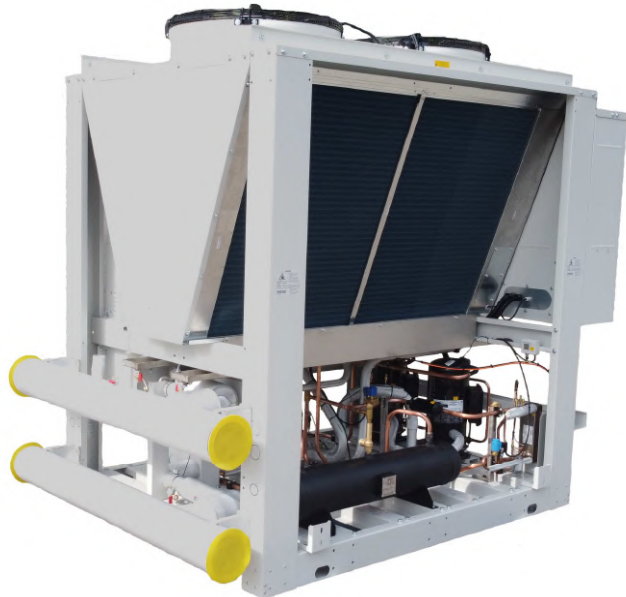
R410A / R32 / R454B

Scroll compressors

Coaxial / Shell & Tube evaporator / Plate

Gekko AIR HPS / AIR FT-HP / AIR HR – HP / AIR S-HP series

From 16,4 kW up to 753 kW



Technical Data Tables

GEKKOLD

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Gekkold



gekkoldprom.com

Industrial Chiller Supplier

Gekko AIR HPS series

Reversible Heat-Pumps

EC axial fans

IP54 protection rating

Suitable for OUTDOOR installation



GEKKOLD

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Reversible heat-pumps AIR HPS series, scroll compressors, R410A / R32 / R454B refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, EC axial fans, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -10°C

Type of available condensers:

B-ES = stainless steel brazed plate condenser

 **HEATING**

TECHNICAL DATA

PERFORMANCES		Model	190	240	290	330	380	430	470	530
NOMINAL HEATING CAPACITY	W 40°C/45°C @ 7°C (1)	kW	199,7	242,0	319,8	355,6	389,2	465,9	487,7	565,9
TOTAL NOMINAL ABSORBED POWER		kW	56,2	70,4	90,8	101,8	112,8	134,3	145,3	164,6
COP		kW/kW	3,56	3,44	3,52	3,49	3,45	3,47	3,36	3,44
NOMINAL WATER FLOW		m ³ /h	34,3	41,6	54,9	61,1	66,8	80,0	83,8	97,2
MECHANICAL MODE PRESSURE DROPS (4)		kPa	60	73	60	58	57	62	59	56
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	6/2/4	6/2/4	9/3/4
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m ³ /h	15÷35	22÷47	40÷75	45÷80	45÷85	60÷90	65÷90	70÷130
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	8,30	8,30	8,30	8,30	10,20	10,20	10,20	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	14,10	14,10	14,10	14,10	17,40	17,40	17,40	26,60
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,22	16,22	16,22	16,22	24,85	24,85	24,85	24,85
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,60	26,60	26,60	26,60	42,40	42,40	42,40	42,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	DN65	DN65	DN100	DN100	DN100	DN125	DN125	DN125
TANK VOLUME		dm ³	300	300	300	300	380	380	380	500
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	19	19	19	19	19	19	19	19
FAN SECTION (AXIAL)										
FANS		nr.	4	4	6	6	6	8	8	12
MAXIMUM FANS ABSORBED POWER	EC	kW	7,76	7,76	11,64	11,64	11,64	15,52	15,52	23,28
MAXIMUM FANS ABSORBED CURRENT		A	15,60	15,60	23,40	23,40	23,40	31,20	31,20	46,80
TOTAL AIR FLOW		m ³ /h	76300	76300	114450	114450	114450	152600	152600	228900
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	135,6	152,5	198,9	231,2	260,6	294,4	328,2	354,9
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	279,6	359,1	442,5	481,9	511,3	538,1	578,9	561,4
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	244,8	310,9	385,0	419,9	449,3	480,6	516,9	513,3
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	59,8	62,8	63,5	64,7	64,7	65,0	66,3	66,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	58,7	60,1	61,3	62,0	62,0	62,7	63,5	64,5
DIMENSIONS AND WEIGHT										
LENGTH		mm	2910	2910	4210	4210	4210	5900	5900	8890
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	2000	2350	2800	2850	3000	3900	4050	5900
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	2050	2420	2900	2950	3100	4000	4180	6220

The manufacturer reserves the right to modify specifications without notice.

Last update: 05/01/2021
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SCOP data comply with the EN14825:2013, referring to medium temperature climate zone
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and EC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Reversible heat-pumps AIR HPS series, scroll compressors, R410A / R32 / R454B refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, EC axial fans, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -10°C

Type of available condensers:
B-ES = stainless steel brazed plate condenser

 **HEATING**

TECHNICAL DATA

PERFORMANCES		Model	570	610	720
NOMINAL HEATING CAPACITY	W 40°C/45°C @ 7°C (1)	kW	606,7	671,0	753,3
TOTAL NOMINAL ABSORBED POWER		kW	175,1	194,0	212,9
COP		kW/kW	3,47	3,46	3,54
NOMINAL WATER FLOW		m ³ /h	104,2	115,3	129,4
MECHANICAL MODE PRESSURE DROPS (4)		kPa	50	55	59
FRIGORIFIC SECTION					
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	6/3/4	6/3/4	6/3/4
HYDRAULIC SECTION					
WATER FLOW RANGE (6)		m ³ /h	75÷130	85÷130	90÷140
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	26,60	26,60	26,60
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	31,88	31,88	39,09
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	53,50	53,50	65,60
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	DN150	DN150	DN150
TANK VOLUME		dm ³	500	500	500
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	19	19	38
FAN SECTION (AXIAL)					
FANS		nr.	12	12	12
MAXIMUM FANS ABSORBED POWER	EC	kW	23,28	23,28	23,28
MAXIMUM FANS ABSORBED CURRENT		A	46,80	46,80	46,80
TOTAL AIR FLOW		m ³ /h	228900	228900	228900
TOTAL ELECTRIC DATA					
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	402,5	446,0	489,5
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	653,3	780,3	823,8
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	591,3	698,7	742,2
NOISE DATA					
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	66,9	68,6	69,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	64,6	65,5	66,3
DIMENSIONS AND WEIGHT					
LENGTH		mm	8890	8890	8890
WIDTH		mm	2210	2210	2210
HEIGHT		mm	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	6000	6200	6300
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	6400	6670	6780

The manufacturer reserves the right to modify specifications without notice.

Last update: 27/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SCOP data comply with the EN14825:2013, referring to medium temperature climate zone
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and EC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Reversible heat-pumps AIR HPS series, scroll compressors, R410A / R32 / R454B refrigerant, brazed-plate evaporator/condenser, condenser/ evaporator coil with copper tubes and aluminium fins with hydrophilic coating, EC axial fans, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -10°C

Type of available evaporators:

B-ES = stainless steel brazed plate evaporator



TECHNICAL DATA

PERFORMANCES		Model	190	240	290	330	380	430	470	530
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	183,1	230,0	298,1	332,1	366,2	436,8	473,1	545,4
TOTAL NOMINAL ABSORBED POWER		kW	54,2	71,0	88,2	102,5	116,8	134,0	147,5	155,1
EER		kW/kW	3,38	3,24	3,38	3,24	3,13	3,26	3,21	3,52
NOMINAL WATER FLOW (5)		m ³ /h	31,4	39,5	51,2	57,0	62,9	75,0	81,3	93,7
MECHANICAL MODE PRESSURE DROPS (4)		kPa	56	67	58	58	56	61	58	56
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.		4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	6/2/4	6/2/4	9/3/4
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m ³ /h	15÷35	22÷47	40÷75	45÷80	45÷85	60÷90	65÷90	70÷130
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	8,30	8,30	8,30	8,30	10,20	10,20	10,20	16,22
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	14,10	14,10	14,10	14,10	17,40	17,40	17,40	26,60
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,22	16,22	16,22	16,22	24,85	24,85	24,85	24,85
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,60	26,60	26,60	26,60	42,40	42,40	42,40	42,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)	BSP / DN	DN65	DN65	DN100	DN100	DN100	DN100	DN125	DN125	DN125
TANK VOLUME		dm ³	300	300	300	300	380	380	380	500
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	19	19	19	19	19	19	19	19
FAN SECTION (AXIAL)										
FANS		nr.	4	4	6	6	6	8	8	12
MAXIMUM FANS ABSORBED POWER	EC	kW	7,76	7,76	11,64	11,64	11,64	15,52	15,52	23,28
MAXIMUM FANS ABSORBED CURRENT		A	15,60	15,60	23,40	23,40	23,40	31,20	31,20	46,80
TOTAL AIR FLOW		m ³ /h	76300	76300	114450	114450	114450	152600	152600	228900
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	135,6	152,5	198,9	231,2	260,6	294,4	328,2	354,9
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	279,6	359,1	442,5	481,9	511,3	538,1	578,9	561,4
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	244,8	310,9	385,0	419,9	449,3	480,6	516,9	513,3
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	59,8	62,8	63,5	64,7	64,7	65,0	66,3	66,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	58,7	60,1	61,3	62,0	62,0	62,7	63,5	64,5
DIMENSIONS AND WEIGHT										
LENGTH		mm	2910	2910	4210	4210	4210	5900	5900	8890
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	2000	2350	2800	2850	3000	3900	4050	5900
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	2050	2420	2900	2950	3100	4000	4180	6220

The manufacturer reserves the right to modify specifications without notice.

Last update: 05/01/2021
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and EC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Reversible heat-pumps AIR HPS series, scroll compressors, R410A / R32 / R454B refrigerant, brazed-plate evaporator/condenser, condenser/ evaporator coil with copper tubes and aluminium fins with hydrophilic coating, EC axial fans, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -10°C

Type of available evaporators:

B-ES = stainless steel brazed plate evaporator



TECHNICAL DATA

PERFORMANCES		Model	570	610	720
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	583,7	651,0	714,2
TOTAL NOMINAL ABSORBED POWER		kW	168,5	192,8	218,9
EER		kW/kW	3,46	3,38	3,26
NOMINAL WATER FLOW (5)		m ³ /h	100,3	111,8	122,7
MECHANICAL MODE PRESSURE DROPS (4)		kPa	50	56	60
FRIGORIFIC SECTION					
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	6/3/4	6/3/4	6/3/4
HYDRAULIC SECTION					
WATER FLOW RANGE (6)		m ³ /h	75÷130	85÷130	90÷140
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	26,60	26,60	26,60
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	31,88	31,88	39,09
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	53,50	53,50	65,60
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	DN150	DN150	DN150
TANK VOLUME		dm ³	500	500	500
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	19	19	38
FAN SECTION (AXIAL)					
FANS		nr.	12	12	12
MAXIMUM FANS ABSORBED POWER	EC	kW	23,28	23,28	23,28
MAXIMUM FANS ABSORBED CURRENT		A	46,80	46,80	46,80
TOTAL AIR FLOW		m ³ /h	228900	228900	228900
TOTAL ELECTRIC DATA					
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	402,5	446,0	489,5
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	653,3	780,3	823,8
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	591,3	698,7	742,2
NOISE DATA					
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	66,9	68,6	69,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	64,6	65,5	66,3
DIMENSIONS AND WEIGHT					
LENGTH		mm	8890	8890	8890
WIDTH		mm	2210	2210	2210
HEIGHT		mm	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	6000	6200	6300
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	6400	6670	6780

The manufacturer reserves the right to modify specifications without notice.

Last update: 05/01/2021
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and EC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Gekkold



gekkoldprom.com

Industrial Chiller Supplier

Gekko AIR FT-HP series

*Reversible Heat-Pumps
AC axial fans with RV
IP54 protection rating
Suitable for OUTDOOR installation*



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Reversible heat-pumps AIR FT-HP series, scroll compressors, R410A / R32 / R454B refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -5°C

Type of available condensers:

B-ES = stainless steel brazed plate condenser

HEATING

TECHNICAL DATA

PERFORMANCES		Model	016	018	022	025	030	038	045	055
NOMINAL HEATING CAPACITY	W 40°C/45°C @ 7°C (1)	kW	16,4	18,5	25,3	28,2	31,9	40,7	48,0	59,6
TOTAL NOMINAL ABSORBED POWER		kW	4,9	5,5	7,2	8,0	9,6	11,6	13,4	16,7
COP		kW/kW	3,33	3,38	3,51	3,50	3,34	3,50	3,58	3,57
SCOP (3)		-	2,77	2,80	2,92	2,90	3,05	3,26	3,62	3,61
NOMINAL WATER FLOW		m ³ /h	2,8	3,2	4,4	4,8	5,5	7,0	8,2	10,2
MECHANICAL MODE PRESSURE DROPS (4)		kPa	73	50	48	59	75	54	46	59
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m ³ /h	1,8÷4,2	2,5÷5	3÷6	3÷6	3,5÷6	6÷12	6÷12	6÷12
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	0,98	0,98	1,28	1,28	1,28	2,20	2,20	2,20
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	1,78	1,78	2,37	2,37	2,37	4,24	4,24	4,24
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	1,47	1,47	1,47	1,47	1,47	2,94	2,94	2,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,86	2,86	2,86	2,86	2,32	5,83	5,83	5,83
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
TANK VOLUME		dm ³	110	110	200	200	200	200	200	200
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	8	8	12	12	12	12	12	12
FAN SECTION (AXIAL)										
FANS		nr.	1	1	2	2	2	2	2	2
MAXIMUM FANS ABSORBED POWER	AC	kW	0,68	0,68	1,44	1,44	1,44	1,62	1,44	1,62
MAXIMUM FANS ABSORBED CURRENT		A	3,00	3,00	2,82	2,82	2,82	3,08	2,82	3,08
TOTAL AIR FLOW		m ³ /h	7298	6579	15298	15298	15298	16200	14267	15000
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	13,1	15,1	17,2	19,4	23,0	27,6	32,8	41,3
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	67,0	78,0	97,8	113,8	141,8	143,1	176,8	243,9
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	NA	NA	NA	NA	NA	NA	NA	NA
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	49,4	49,2	52,8	53,1	52,8	52,8	54,0	56,5
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	NA	NA	NA	NA	52,4	51,6	52,9	53,5
DIMENSIONS AND WEIGHT										
LENGTH		mm	1005	1005	1610	1610	1610	1610	1610	1610
WIDTH		mm	855	855	860	860	860	860	860	860
HEIGHT		mm	1540	1540	1550	1550	1550	1550	1550	1550
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	165	190	235	260	305	315	330	405
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	185	210	255	280	325	335	350	425

The manufacturer reserves the right to modify specifications without notice.

Last update: 27/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SCOP data comply with the EN14825:2013, referring to medium temperature climate zone
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Reversible heat-pumps AIR FT-HP series, scroll compressors, R410A / R32 / R454B refrigerant, brazed-plate evaporator/condenser, condenser/ evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -5°C

Type of available condensers:

B-ES = stainless steel brazed plate condenser

HEATING

TECHNICAL DATA

PERFORMANCES		Model	061	075	090	100	130	160	185	200
NOMINAL HEATING CAPACITY	W 40°C/45°C @ 7°C (1)	kW	67,4	81,4	96,0	106,2	127,5	162,8	191,9	218,7
TOTAL NOMINAL ABSORBED POWER		kW	19,9	24,0	27,6	30,8	36,3	46,3	53,4	61,5
COP		kW/kW	3,39	3,39	3,48	3,45	3,51	3,52	3,59	3,55
SCOP (3)		-	3,61	3,42	3,49	3,66	3,73	3,54	3,61	3,77
NOMINAL WATER FLOW		m ³ /h	11,6	14,0	16,5	18,2	21,9	28,0	33,0	37,6
MECHANICAL MODE PRESSURE DROPS (4)		kPa	67	62	55	57	67	62	55	60
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4	4/2/4	4/2/4	4/2/4
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m ³ /h	8÷17	8÷17	8÷17	8÷21	14÷34	14÷34	14÷34	22÷47
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	2,53	2,53	2,53	2,53	4,56	4,56	4,56	8,30
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	4,56	4,56	4,56	4,56	7,75	7,75	7,75	14,10
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	6,12	6,12	6,12	6,12	10,20	10,20	10,20	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	10,40	10,40	10,40	17,40	17,40	17,40	26,60
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	2"	2"	2"	2"	DN65	DN65	DN65	DN80
TANK VOLUME		dm ³	390	390	390	390	390	390	390	390
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	19	19	19	19	19	19	19	19
FAN SECTION (AXIAL)										
FANS		nr.	2	2	2	2	2	3	3	4
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	3,88	3,88	3,88	3,88	5,82	5,82	7,76
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	7,80	7,80	11,70	11,70	15,60
TOTAL AIR FLOW		m ³ /h	24541	36858	34534	32211	39956	56835	53738	67520
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	48,1	56,8	67,8	76,0	88,3	109,7	131,7	152,0
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	166,9	172,3	211,8	278,6	207,2	225,2	275,7	354,6
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	139,1	144,3	177,0	230,4	179,4	197,2	240,9	306,4
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	54,9	55,8	56,2	58,2	55,5	58,1	58,5	61,2
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	54,4	54,7	54,9	55,8	54,6	56,7	56,9	58,8
DIMENSIONS AND WEIGHT										
LENGTH		mm	2210	2210	2210	2210	3355	3355	3355	4355
WIDTH		mm	1100	1100	1100	1100	1105*	1105*	1105*	1105**
HEIGHT		mm	2120	2120	2120	2120	2205	2205	2205	2205
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	560	595	620	700	1060	1110	1160	1750
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	580	615	640	720	1100	1130	1180	1770

The manufacturer reserves the right to modify specifications without notice.

Last update: 27/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SCOP data comply with the EN14825:2013, referring to medium temperature climate zone
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Reversible heat-pumps AIR FT-HP series, scroll compressors, R410A / R32 / R454B refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -5°C

Type of available condensers:

B-ES = stainless steel brazed plate condenser

 **HEATING**

TECHNICAL DATA

PERFORMANCES		Model	230	280	340
NOMINAL HEATING CAPACITY	W 40°C/45°C @ 7°C (1)	kW	245,5	301,6	345,4
TOTAL NOMINAL ABSORBED POWER		kW	69,3	86,0	98,6
COP		kW/kW	3,54	3,51	3,50
SCOP (3)		-	3,77	3,73	3,52
NOMINAL WATER FLOW		m ³ /h	42,2	51,8	59,3
MECHANICAL MODE PRESSURE DROPS (4)		kPa	53	54	56
FRIGORIFIC SECTION					
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	4/2/4	4/2/4	4/2/4
HYDRAULIC SECTION					
WATER FLOW RANGE (6)		m ³ /h	22÷47	25÷60	30÷70
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	8,30	8,30	8,30
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	14,10	14,10	14,10
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,60	26,60	26,60
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	DN80	DN100	DN100
TANK VOLUME		dm ³	500	500	500
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	19	19	19
FAN SECTION (AXIAL)					
FANS		nr.	5	5	5
MAXIMUM FANS ABSORBED POWER	AC	kW	9,70	9,70	9,70
MAXIMUM FANS ABSORBED CURRENT		A	19,50	19,50	19,50
TOTAL AIR FLOW		m ³ /h	90854	89564	85045
TOTAL ELECTRIC DATA					
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	172,3	195,0	227,3
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	374,9	438,6	478,0
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	326,7	381,1	416,0
NOISE DATA					
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	62,8	62,8	64,2
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	60,2	60,2	61,1
DIMENSIONS AND WEIGHT					
LENGTH		mm	5350	5350	5350
WIDTH		mm	1105	1105	1105
HEIGHT		mm	2205	2205	2205
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	1975	2130	2210
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	1995	2150	2230

The manufacturer reserves the right to modify specifications without notice.

Last update: 27/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SCOP data comply with the EN14825:2013, referring to medium temperature climate zone
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

0

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Reversible heat-pumps AIR FT-HP series, scroll compressors, R410A / R32 / R454B refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -5°C

Type of available evaporators:

B-ES = stainless steel brazed plate evaporator



TECHNICAL DATA

PERFORMANCES		Model	016	018	022	025	030	038	045	055
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	15,3	17,8	23,7	26,4	29,2	37,8	44,5	55,0
TOTAL NOMINAL ABSORBED POWER		kW	4,8	5,7	7,2	8,2	9,7	11,7	13,5	17,8
EER		kW/kW	3,20	3,10	3,29	3,23	3,02	3,22	3,30	3,10
SEPR (HT) (3)		-	5,84	5,51	5,80	5,74	5,69	5,70	5,90	5,72
NOMINAL WATER FLOW (5)		m ³ /h	2,6	3,1	4,1	4,5	5,0	6,5	7,6	9,4
MECHANICAL MODE PRESSURE DROPS (4)		kPa	71	48	46	56	68	54	46	56
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m ³ /h	1,8÷4,2	2,5÷5	3÷6	3÷6	3,5÷6	6÷12	6÷12	6÷12
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,98	0,98	1,28	1,28	1,28	2,20	2,20	2,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	1,78	1,78	2,37	2,37	2,37	4,24	4,24	4,24
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	1,47	1,47	1,47	1,47	1,47	2,94	2,94	2,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,86	2,86	2,86	2,86	2,32	5,83	5,83	5,83
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
TANK VOLUME		dm ³	110	110	200	200	200	200	200	200
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	8	8	12	12	12	12	12	12
FAN SECTION (AXIAL)										
FANS		nr.	1	1	2	2	2	2	2	2
MAXIMUM FANS ABSORBED POWER	AC	kW	0,68	0,68	1,44	1,44	1,44	1,62	1,44	1,62
MAXIMUM FANS ABSORBED CURRENT		A	3,00	3,00	2,82	2,82	2,82	3,08	2,82	3,08
TOTAL AIR FLOW		m ³ /h	7298	6579	15298	15298	15298	16200	14267	15000
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	13,1	15,1	17,2	19,4	23,0	27,6	32,8	41,3
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	67,0	78,0	97,8	113,8	141,8	143,1	176,8	243,9
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	NA	NA	NA	NA	NA	NA	NA	NA
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	49,4	49,2	52,8	53,1	52,8	52,8	54,0	56,5
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	NA	NA	NA	NA	52,4	51,6	52,9	53,5
DIMENSIONS AND WEIGHT										
LENGTH		mm	1005	1005	1610	1610	1610	1610	1610	1610
WIDTH		mm	855	855	860	860	860	860	860	860
HEIGHT		mm	1540	1540	1550	1550	1550	1550	1550	1550
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	165	190	235	260	305	315	330	405
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	185	210	255	280	325	335	350	425

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Reversible heat-pumps AIR FT-HP series, scroll compressors, R410A / R32 / R454B refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -5°C

Type of available evaporators:
B-ES = stainless steel brazed plate evaporator



TECHNICAL DATA

PERFORMANCES		Model	061	075	090	100	130	160	185	200
NOMINAL COOLING CAPACITY	W12C/°C @ 35°C (1)	kW	62,7	75,7	89,0	100,6	116,8	151,3	178,0	207,5
TOTAL NOMINAL ABSORBED POWER		kW	19,7	24,2	27,8	31,5	36,0	46,7	53,8	60,5
EER		kW/kW	3,17	3,13	3,20	3,19	3,24	3,24	3,31	3,43
SEPR (HT) (3)		-	5,73	5,71	5,69	5,97	6,16	5,89	6,07	6,21
NOMINAL WATER FLOW (5)		m3/h	10,8	13,0	15,3	17,3	20,1	26,0	30,6	35,6
MECHANICAL MODE PRESSURE DROPS (4)		kPa	65	60	53	52	63	60	53	55
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4	4/2/4	4/2/4	4/2/4
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m3/h	8÷17	8÷17	8÷17	8÷21	14÷34	14÷34	14÷34	22÷47
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,53	2,53	2,53	2,53	4,56	4,56	4,56	8,30
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,56	4,56	4,56	4,56	7,75	7,75	7,75	14,10
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	6,12	6,12	6,12	6,12	10,20	10,20	10,20	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	10,40	10,40	10,40	17,40	17,40	17,40	26,60
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	2"	2"	2"	2"	DN65	DN65	DN65	DN80
TANK VOLUME		dm³	390	390	390	390	390	390	390	390
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	19	19	19	19	19	19	19	19
FAN SECTION (AXIAL)										
FANS		nr.	2	2	2	2	2	3	3	4
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	3,88	3,88	3,88	3,88	5,82	5,82	7,76
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	7,80	7,80	11,70	11,70	15,60
TOTAL AIR FLOW		m3/h	24541	36858	34534	32211	39956	56835	53738	67520
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	48,1	56,8	67,8	76,0	88,3	109,7	131,7	152,0
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	166,9	172,3	211,8	278,6	207,2	225,2	275,7	354,6
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	139,1	144,3	177,0	230,4	179,4	197,2	240,9	306,4
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	54,2	55,3	56,2	58,2	55,5	58,1	58,5	61,2
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	53,6	54,1	54,9	55,8	54,6	56,7	56,9	58,8
DIMENSIONS AND WEIGHT										
LENGTH		mm	2210	2210	2210	2210	3355	3355	3355	4355
WIDTH		mm	1100	1100	1100	1100	1105*	1105*	1105*	1105**
HEIGHT		mm	2120	2120	2120	2120	2205	2205	2205	2205
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	560	595	620	700	1060	1110	1160	1750
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	580	615	640	720	1100	1130	1180	1770

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Reversible heat-pumps AIR FT-HP series, scroll compressors, R410A / R32 / R454B refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -5°C

Type of available evaporators:

B-ES = stainless steel brazed plate evaporator



TECHNICAL DATA

PERFORMANCES		Model	230	280	340
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	242,4	289,3	326,8
TOTAL NOMINAL ABSORBED POWER		kW	67,9	85,8	101,3
EER		kW/kW	3,57	3,37	3,23
SEPR (HT) (3)		-	6,47	6,17	5,90
NOMINAL WATER FLOW (5)		m ³ /h	41,6	49,7	56,1
MECHANICAL MODE PRESSURE DROPS (4)		kPa	52	56	57
FRIGORIFIC SECTION					
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	4/2/4	4/2/4	4/2/4
HYDRAULIC SECTION					
WATER FLOW RANGE (6)		m ³ /h	22÷47	25÷60	30÷70
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	8,30	8,30	8,30
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	14,10	14,10	14,10
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,60	26,60	26,60
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	DN80	DN100	DN100
TANK VOLUME		dm ³	500	500	500
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	19	19	19
FAN SECTION (AXIAL)					
FANS		nr.	5	5	5
MAXIMUM FANS ABSORBED POWER	AC	kW	9,70	9,70	9,70
MAXIMUM FANS ABSORBED CURRENT		A	19,50	19,50	19,50
TOTAL AIR FLOW		m ³ /h	90854	89564	85045
TOTAL ELECTRIC DATA					
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	172,3	195,0	227,3
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	374,9	438,6	478,0
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	326,7	381,1	416,0
NOISE DATA					
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	62,8	62,8	64,2
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	60,2	60,2	61,1
DIMENSIONS AND WEIGHT					
LENGTH		mm	5350	5350	5350
WIDTH		mm	1105	1105	1105
HEIGHT		mm	2205	2205	2205
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	1975	2130	2210
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	1995	2150	2230

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

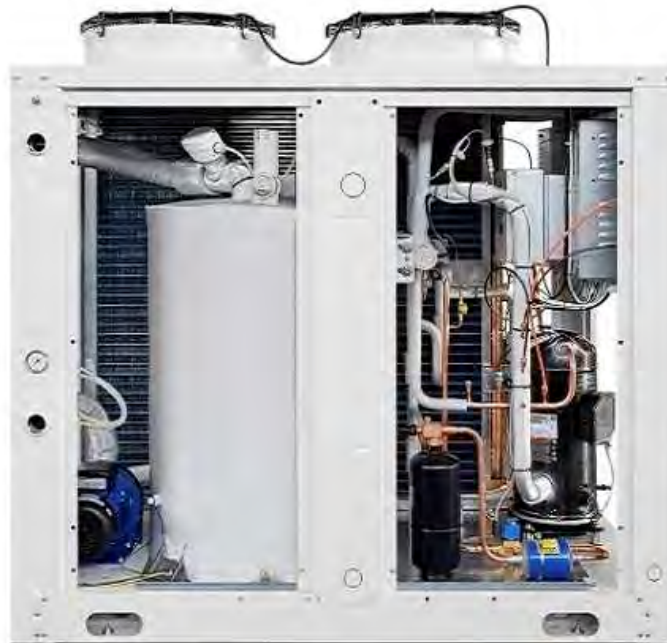
* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm



Gekko AIR HR – HP series

*Reversible Heat Pumps
AC axial fans with RV
IP54 protection rating
Suitable for OUTDOOR installation*



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Reversible heat-pumps AIR HR – HP series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial evaporator/condenser, condenser/ evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. Minimum working ambient temperature admitted = -5°C

Special features of HNR series:

CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage tank, guarantee high operation reliability



TECHNICAL DATA

PERFORMANCES		Model	016	018	022	025	030	038	045	055
NOMINAL HEATING CAPACITY	W 40°C/45°C @ 7°C (1)	kW	16,4	18,5	25,3	28,2	31,2	38,1	46,4	57,7
TOTAL NOMINAL ABSORBED POWER		kW	5,9	6,4	8,5	9,3	11,5	14,5	16,4	19,9
COP		kW/kW	2,78	2,88	2,98	3,02	2,72	2,63	2,83	2,90
SCOP (3)		-	2,02	2,09	2,17	2,20	2,49	2,45	2,86	2,93
NOMINAL WATER FLOW		m3/h	2,8	3,2	4,4	4,8	5,4	6,6	8,0	9,9
MECHANICAL MODE PRESSURE DROPS (4)		kPa	41	53	42	52	34	51	39	51
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m3/h	1,2÷2,9	2,5÷5	3÷6	3÷6	4÷6	5÷12	6÷12	6÷12
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,98	0,98	1,28	1,28	1,28	2,20	2,20	2,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	1,78	1,78	2,37	2,37	2,37	4,24	4,24	4,24
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	1,10	1,47	1,47	1,47	1,47	2,94	2,94	2,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,17	2,86	2,86	2,86	2,32	5,83	5,83	5,83
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
TANK VOLUME		dm³	50	110	110	110	270	270	270	270
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	5	8	8	8	12	12	12	12
FAN SECTION (AXIAL)										
FANS		nr.	1	1	2	2	2	2	2	2
MAXIMUM FANS ABSORBED POWER	AC	kW	0,68	0,68	1,44	1,44	1,44	1,62	1,44	1,62
MAXIMUM FANS ABSORBED CURRENT		A	3,00	3,00	2,82	2,82	2,82	3,08	2,82	3,08
TOTAL AIR FLOW		m3/h	7649	7649	15298	15298	15298	16200	14267	15000
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50/N	400/3/50/N	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	14,9	16,8	19,5	21,8	25,3	31,8	37,1	45,5
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	68,8	79,8	100,2	116,2	144,2	147,3	181,1	248,1
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	NA	NA	NA	NA	NA	NA	NA	NA
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	49,7	49,5	53,0	53,5	53,3	53,2	54,3	56,6
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	NA	NA	NA	NA	52,9	52,2	53,3	53,9
DIMENSIONS AND WEIGHT										
LENGTH		mm	1005	1005	1610	1610	1610	1610	1610	1610
WIDTH		mm	855	855	860	860	860	860	860	860
HEIGHT		mm	1540	1540	1550	1550	1550	1550	1550	1550
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	190	230	270	270	400	425	437	523
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	240	360	399	399	699	724	736	822

The manufacturer reserves the right to modify specifications without notice.

Last update: 16/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SCOP data comply with the EN14825:2013, referring to medium temperature climate zone
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface



Reversible heat-pumps AIR HR – HP series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial evaporator/condenser, condenser/ evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. Minimum working ambient temperature admitted = -5°C

Special features of HNR series:

CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage tank, guarantee high operation reliability



TECHNICAL DATA

PERFORMANCES		Model	061	075	090	100
NOMINAL HEATING CAPACITY	W 40°C/45°C @ 7°C (1)	kW	65,1	77,4	91,3	104,2
TOTAL NOMINAL ABSORBED POWER		kW	23,7	27,8	31,6	35,2
COP		kW/kW	2,75	2,78	2,89	2,96
SCOP (3)		-	#RIF!	2,80	2,90	3,14
NOMINAL WATER FLOW		m3/h	11,2	13,3	15,7	17,9
MECHANICAL MODE PRESSURE DROPS (4)		kPa	23	20	28	39
FRIGORIFIC SECTION						
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	2/1/2	2/1/2	2/1/2	2/1/2
HYDRAULIC SECTION						
WATER FLOW RANGE (6)		m3/h	8÷18	10÷20	10÷20	10÷20
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,53	2,53	2,53	2,53
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,56	4,56	4,56	4,56
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	6,12	6,12	6,12	6,12
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	10,40	10,40	10,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	2"	2"	2"	2"
TANK VOLUME		dm³	410	410	410	410
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	19	19	19	19
FAN SECTION (AXIAL)						
FANS		nr.	2	2	2	2
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	3,88	3,88	3,88
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	7,80
TOTAL AIR FLOW		m3/h	33096	36858	34534	32211
TOTAL ELECTRIC DATA						
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	52,6	61,4	72,4	80,6
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	171,5	176,9	216,4	283,2
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	143,7	148,9	181,6	235,0
NOISE DATA						
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	54,5	55,6	56,4	58,3
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	54,0	54,4	55,2	56,1
DIMENSIONS AND WEIGHT						
LENGTH		mm	2220	2220	2220	2220
WIDTH		mm	1100	1100	1100	1100
HEIGHT		mm	2120	2120	2120	2120
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	780	820	850	943
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	1198	1238	1268	1360

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Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SCOP data comply with the EN14825:2013, referring to medium temperature climate zone
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface



Reversible heat-pumps AIR HR – HP series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial evaporator/condenser, condenser/ evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. Minimum working ambient temperature admitted = -5°C

Special features of HNR series:

CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage tank, guarantee high operation reliability



TECHNICAL DATA

PERFORMANCES		Model	016	018	022	025	030	038	045	055
NOMINAL COOLING CAPACITY	W12 C/°C @ 35°C (1)	kW	14,7	17,2	23,0	25,6	28,2	34,2	42,7	53,0
TOTAL NOMINAL ABSORBED POWER		kW	5,7	6,7	8,5	9,4	11,0	14,8	15,8	20,0
EER		kW/kW	2,56	2,59	2,72	2,73	2,57	2,30	2,70	2,66
SEPR (HT) (3)		-	4,17	3,78	3,86	3,98	4,30	3,84	4,48	4,47
NOMINAL WATER FLOW (5)		m3/h	2,7	3,2	4,0	4,6	5,5	6,7	8,2	10,2
MECHANICAL MODE PRESSURE DROPS (4)		kPa	38	30	35	48	38	42	45	57
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m3/h	1,2÷2,9	2,5÷5	3÷6	3÷6	4÷6	5÷12	6÷12	6÷12
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	0,98	0,98	1,28	1,28	1,28	2,20	2,20	2,20
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	1,78	1,78	2,37	2,37	2,37	4,24	4,24	4,24
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	1,10	1,47	1,47	1,47	1,47	2,94	2,94	2,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,17	2,86	2,86	2,86	2,32	5,83	5,83	5,83
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	1"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
TANK VOLUME (5)		dm³	50	110	110	110	270	270	270	270
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	5	8	8	8	12	12	12	12
FAN SECTION (AXIAL)										
FANS		nr.	1	1	2	2	2	2	2	2
MAXIMUM FANS ABSORBED POWER	AC	kW	0,68	0,68	1,44	1,44	1,44	1,62	1,44	1,62
MAXIMUM FANS ABSORBED CURRENT		A	3,00	3,00	2,82	2,82	2,82	3,08	2,82	3,08
TOTAL AIR FLOW		m3/h	7298	7298	15298	15298	15298	16200	14267	15000
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50/N	400/3/50/N	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	14,9	16,8	19,5	21,8	25,3	31,8	37,1	45,5
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	68,8	79,8	100,2	116,2	144,2	147,3	181,1	248,1
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	NA	NA	NA	NA	NA	NA	NA	NA
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	49,7	49,5	53,0	53,5	53,3	53,2	54,3	56,6
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	NA	NA	NA	NA	52,9	52,2	53,3	53,9
DIMENSIONS AND WEIGHT										
LENGTH		mm	1005	1005	1610	1610	1610	1610	1610	1610
WIDTH		mm	855	855	860	860	860	860	860	860
HEIGHT		mm	1540	1540	1550	1550	1550	1550	1550	1550
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	190	230	270	270	400	425	437	523
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	240	360	399	399	699	724	736	822

The manufacturer reserves the right to modify specifications without notice.

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Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface



Reversible heat-pumps AIR HR – HP series, scroll compressors, R410A / R32 / R454B refrigerant, coaxial evaporator/condenser, condenser/ evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard. Minimum working ambient temperature admitted = -5°C

Special features of HNR series:

CX = GEKKOLD coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage tank, guarantee high operation reliability



TECHNICAL DATA

PERFORMANCES		Model	061	075	090	100
NOMINAL COOLING CAPACITY	W12 C/°C @ 35°C (1)	kW	62,2	69,9	83,3	95,6
TOTAL NOMINAL ABSORBED POWER		kW	21,7	27,8	31,3	34,7
EER		kW/kW	2,87	2,51	2,66	2,76
SEPR (HT) (3)		-	4,03	4,49	4,44	4,68
NOMINAL WATER FLOW (5)		m3/h	10,7	13,7	16,1	18,4
MECHANICAL MODE PRESSURE DROPS (4)		kPa	25	30	35	46
FRIGORIFIC SECTION						
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	2/1/2	2/1/2	2/1/2	2/1/2
HYDRAULIC SECTION						
WATER FLOW RANGE (6)		m3/h	8÷18	10÷20	10÷20	10÷20
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,53	2,53	2,53	2,53
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,56	4,56	4,56	4,56
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	6,12	6,12	6,12	6,12
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	10,40	10,40	10,40
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	2"	2"	2"	2"
TANK VOLUME (5)		dm³	410	410	410	410
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV)		liters	19	19	19	19
FAN SECTION (AXIAL)						
FANS		nr.	2	2	2	2
MAXIMUM FANS ABSORBED POWER	AC	kW	3,88	3,88	3,88	3,88
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	7,80
TOTAL AIR FLOW		m3/h	24541	36858	34534	32211
TOTAL ELECTRIC DATA						
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	52,6	61,4	72,4	80,6
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	171,5	176,9	216,4	283,2
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	143,7	148,9	181,6	235,0
NOISE DATA						
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	54,5	55,6	56,4	58,3
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	54,0	54,4	55,2	56,1
DIMENSIONS AND WEIGHT						
LENGTH		mm	2220	2220	2220	2220
WIDTH		mm	1100	1100	1100	1100
HEIGHT		mm	2120	2120	2120	2120
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	780	820	850	943
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	1198	1238	1268	1360

The manufacturer reserves the right to modify specifications without notice.

Last update: 16/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

Gekkold



gekkoldprom.com

Industrial Chiller Supplier

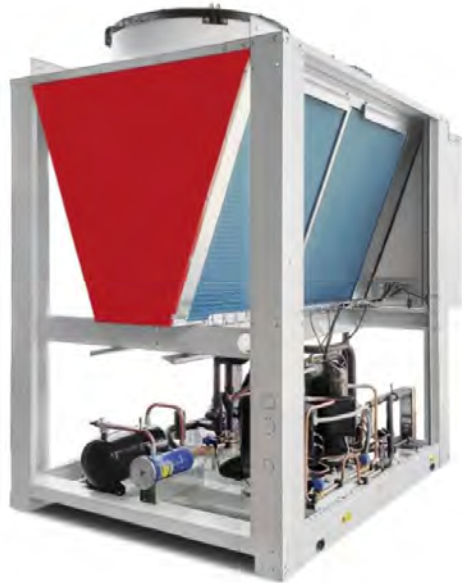
Gekko AIR S-HP series

*Modular reversible Heat-Pumps
EC axial fans*

IP54 protection rating

Suitable for OUTDOOR installation

Minimum working temperature heating mode -20°C



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Modular reversible heat-pumps AIR S-HP series suitable to work down to **-20°C ambient temperature**, scroll compressors with liquid injection, 1 refrigerant circuit, brazed plate condenser, evaporator coils with copper tubes and aluminium fins (fins space 3,2-5 mm to reduce ice formation source), brazed plate economizer, refrigerant R410A and electronic expansion valve, EC axial fans.
Electrical feed 400V/3ph/50Hz (460V/60Hz version as option), IP54 protection rating, chillers suitable for outdoor installation.
You can connect up to 8 modules in parallel with a single power supply point into a master control panel installed onboard of the first module.

Special features of SBS-HP series:
 scroll compressors with liquid injection
 brazed plate economizer
 evaporator fin space 3.2÷5 mm

 **HEATING**

TECHNICAL DATA						
PERFORMANCES		Model	050	075	100	
NOMINAL HEATING CAPACITY	W 40°C/45°C @ 7°C (1)	kW	61,7	79,5	98,8	
TOTAL NOMINAL ABSORBED POWER		kW	19,9	25,9	32,1	
COP		kW/kW	3,09	3,07	3,08	
SCOP (2)		-	2,60	2,56	2,61	
NOMINAL WATER FLOW		m ³ /h	10,6	13,7	17,0	
SINGLE MODULE PRESSURE DROPS (4)	W 30°C/35°C @ -15°C (11)	kPa	41,3	54,0	54,2	
MULTIPLE MODULES PRESSURE DROPS (5)		kPa	58,2	78,7	89,4	
NOMINAL HEATING CAPACITY		kW	38,5	49,9	62,1	
TOTAL NOMINAL ABSORBED POWER		kW	15,4	19,9	24,7	
COP		kW/kW	2,50	2,50	2,51	
NOMINAL WATER FLOW	m ³ /h	7,34	8,56	10,64		
SINGLE MODULE PRESSURE DROPS (4)	kPa	19,9	21,0	21,3		
MULTIPLE MODULES PRESSURE DROPS (5)	kPa	27,9	30,9	35,1		
FRIGORIFIC SECTION						
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	2/1/2	2/1/2	2/1/2		
HYDRAULIC SECTION (3)						
WATER FLOW RANGE	m ³ /h	7÷16	7÷16	8,5÷21		
HYDRAULIC CONNECTIONS FOR SINGLE MODULE (FLANGED)	DN	50	50	50		
HEADERS CONNECTIONS SIZE (VICTAULIC) (9)	DN	150	150	150		
FAN SECTION (AXIAL)						
FANS	nr.	2	2	2		
MAXIMUM FANS ABSORBED POWER	AC	kW	3,68	3,68	3,68	
MAXIMUM FANS ABSORBED CURRENT		A	7,66	7,66	7,66	
TOTAL AIR FLOW		m ³ /h	38150	38150	38150	
MAXIMUM FANS ABSORBED POWER	EC	kW	5,12	5,12	5,12	
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	
TOTAL AIR FLOW		m ³ /h	40280	40280	40280	
TOTAL ELECTRIC DATA (6)						
MAXIMUM ABSORBED CURRENT (F.L.A)	A	45,1	67,2	77,8		
MAXIMUM PEAK CURRENT (L.R.A)	A	142,5	209,5	208,8		
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)	A	118,9	174,7	175,2		
NOISE DATA (6) (7)						
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	58,1	58,3	58,3		
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ)	dB(A)	57,2	57,3	57,3		
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN)	dB(A)	54,6	54,8	54,8		
DIMENSIONS AND WEIGHT						
SINGLE MODULE LENGTH (12)	mm	1610	1610	1610		
SINGLE MODULE WIDTH	mm	2590	2590	2590		
MULTIPLE MODULES WIDTH	mm	2870	2870	2870		
HEIGHT	mm	2500	2500	2500		
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (8)	kg	1270	1280	1300		
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (8)	kg	1310	1325	1350		

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
 Revision: 01-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water
- (2) SCOP data comply with the EN14825:2013, referring to medium temperature climate zone
- (3) Pump and tank can be supplied in a separate hydro-module (GEKKOLD HYD series)
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Pressure drops taken in account: evaporator, automatic isolation valves, circuit setter balancing valve, one way valve, piping
- (6) Data referred to standard heat-pump configuration NP (no pump) and EC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) Weight referred to SINGLE MODULE version. For multiple module configuration, weight to be confirmed in case of order
- (9) Headers connection size is valid for a maximum flow rate of 191 m³/h in multi-module configuration. Dimensions will increase for greater flow rate.
- (10) Water flow is different from heating mode, assuming that an inverter pump will be used
- (11) Data referred to inlet/outlet water temperature = +30/+35°C, ambient temperature = -15°C, fluid = Water
- (12) Multiple modules length must be increase of 52mm each module, this length increasing correspond to minimum distance between two consecutive modules



WATER COOLED CHILLERS

*R410A / R32 / R454B / R134A / R513A / R1234ze
Screw / Scroll / Rotary compressors
Coaxial / Shell & Tube evaporator / Plate
Inbuilt water storage tank & single pump P3*

Gekko Water W - Water B - Water CW series
From 4,2 kW up to 2200 kW



Technical Data Tables

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Gekkold



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Industrial Chiller Supplier

Gekko Water W

Water-cooled liquid Chillers

Close cabinet

IP54 protection rating

Suitable for OUTDOOR & INDOOR installation



GEKKOLD

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Watercooled liquid chillers Water W series, rotary / scroll compressors, R410A / R32 / R454B refrigerant, coaxial / shell and tube evaporator (brazed plate evaporator as option), brazed plate / shell and tube condenser/s, closed cabinet. IP54 protection rating, chillers suitable for outdoor installation. 60Hz version as option. Condenser/s 2 ways valve/s, inbuilt water storage tank and single pump P3 as standard.

Types of available condensing temperature control system:

No one condensing temperature control system

PCC2 = 2 ways valve/s on water side, regulated by condensing pressure (standard)

PCC3 = 3 ways valve/s on water side, regulated by condensing pressure

Type of available expansion elements:

CP = Capillary tube

VTS = Thermostatic expansion valve

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	003	004	005	006	008	010	012	016	
W 12/17°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	4,2	5,1	6,0	6,9	9,1	10,3	13,7	15,0	
	NOMINAL HEATING CAPACITY (4)	kW	5,1	6,2	7,4	8,6	11,6	12,9	17,0	18,4	
	TOTAL NOMINAL ABSORBED POWER	kW	1,5	1,7	2,0	2,3	3,4	3,6	4,3	4,4	
	EER	kW/kW	4,63	4,48	4,31	3,98	3,55	3,95	4,11	4,44	
	SEPR (HT) (10)	-	7,00	7,02	7,07	7,06	7,05	7,01	7,03	7,00	
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m3/h	0,7	0,9	1,0	1,2	1,6	1,8	2,3	2,6	
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	0,9	1,1	1,3	1,5	2,0	2,2	2,9	3,2	
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)(6)	kPa	23,3	26,8	26,8	43,2	32,0	30,6	33,8	35,1	
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3)(5)	kPa	25,5	33,9	44,0	54,7	50,1	62,0	64,8	75,2	
	W 12/17°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE	NOMINAL COOLING CAPACITY	kW	3,7	4,5	5,3	6,1	8,0	9,1	12,1	13,3
NOMINAL HEATING CAPACITY (4)		kW	4,8	5,9	7,0	8,2	11,1	12,3	16,2	17,4	
TOTAL NOMINAL ABSORBED POWER		kW	1,7	2,0	2,3	2,7	4,0	4,2	5,1	5,1	
EER		kW/kW	3,35	3,24	3,12	2,88	2,57	2,85	2,97	3,21	
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m3/h	0,6	0,8	0,9	1,0	1,4	1,6	2,1	2,3	
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m3/h	0,8	1,0	1,2	1,4	1,9	2,1	2,8	3,0	
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)(6)		kPa	18,3	21,1	21,1	33,9	25,2	24,1	26,6	27,6	
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3)(5)		kPa	22,7	30,3	39,5	49,6	46,0	56,2	58,5	67,3	
FRIGORIFIC SECTION											
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
KIND OF COMPRESSOR	-	ROTARY	ROTARY	ROTARY	ROTARY	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	CX	CX	CX	CX	CX	
KIND OF CONDENSER	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	
KIND OF EXPANSION ELEMENT	-	CP	CP	CP	CP	VTS	VTS	VTS	VTS	VTS	
HYDRAULIC SECTION											
EVAPORATORS / CONDENSERS	nr.	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL) (6)	m3/h	0,1±0,2	0,1±0,2	0,1±0,2	0,1±0,2	0,1±0,3	0,1±0,3	0,1±0,3	0,1±0,3	0,1±0,3	
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m3/h	0,1±0,4	0,1±0,4	0,1±0,4	0,1±0,4	0,2±0,6	0,2±0,6	0,2±0,6	0,2±0,6	0,2±0,6	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (3)	kW	0,56	0,56	0,56	0,56	0,88	0,98	0,98	0,98	
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	3,46	3,46	3,46	3,46	1,65	1,78	1,78	1,78	
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (3)	kW	0,74	0,74	0,74	0,74	1,10	1,10	1,10	1,10	
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	3,22	3,22	3,22	3,22	2,17	2,17	2,17	2,17	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (THREADED / FLANGED)	BSP / DN	1/2"	1/2"	1/2"	1/2"	1"	1"	1"	1"	1"	
HYDRAULIC CONNECTIONS, CONDENSER SIDE (THREADED / FLANGED)	BSP / DN	3/4"	3/4"	3/4"	3/4"	1"	1"	1"	1"	1"	
TANK VOLUME (6) (8)	dm³	25	25	25	25	50	50	50	50	50	
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	NA	NA	NA	NA	5	5	5	5	5	
TOTAL ELECTRIC DATA (6)											
ELECTRICAL FEED	V/ph/Hz	230/1/50	230/1/50	230/1/50	230/1/50	400/3/50/N	400/3/50/N	400/3/50/N	400/3/50/N	400/3/50/N	
MAXIMUM ABSORBED CURRENT (F.L.A)	A	10,3	11,9	13,9	16,2	9,4	9,6	11,3	11,6	11,6	
MAXIMUM PEAK CURRENT (L.R.A)	A	27,5	39,5	46,5	57,5	49,7	49,8	64,8	64,8	64,8	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)	A	NA	NA	NA	NA	NA	NA	NA	NA	NA	
NOISE DATA (6) (7)											
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	48,2	50,1	52,1	54,1	42,0	42,0	42,0	43,0	43,0	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNj)	dB(A)	NA	NA	NA	NA	NA	NA	NA	NA	NA	
DIMENSIONS AND WEIGHT											
LENGTH	mm	600	600	600	600	820	820	820	820	820	
WIDTH	mm	725	725	725	725	615	615	615	615	615	
HEIGHT	mm	950	950	950	950	1240	1240	1240	1240	1240	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	85	90	90	95	150	150	165	165	165	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	110	115	115	120	200	200	210	210	210	

The manufacturer reserves the right to modify specifications without notice.

Last update: 02/03/2021
Revision: 01-2021

Data referred to:

- Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +30/35°C (fluid = Water)
- Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +40/45°C (fluid = Water)
- Pressure drops taken in account: heat exchanger, valves, piping. Pump at the evaporator side, head pressure can be calculated from Gekkold Online Selection Software
- Water cooled chillers can be used as not reversible heat pumps, this kind of application must be indicated in the order
- Data referred to standard chiller configuration (PCC2), with different condensing temperature control system this data will change
- Data referred to standard chiller configuration, evaporator as indicated in frigorific section and single pump P3 (WP), with different evaporator this data can change
- Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guaranteed, the tank supplied by Gekkold can be not enough
- The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit
- SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm



Watercooled liquid chillers Water W series, rotary / scroll compressors, R410A / R32 / R454B refrigerant, coaxial / shell and tube evaporator (brazed plate evaporator as option), brazed plate / shell and tube condenser/s, closed cabinet. IP54 protection rating, chillers suitable for outdoor installation. 60Hz version as option. Condenser/s 2 ways valve/s, inbuilt water storage tank and single pump P3 as standard.

Types of available condensing temperature control system:

No one condensing temperature control system

PCC2 = 2 ways valve/s on water side, regulated by condensing pressure (standard)

PCC3 = 3 ways valve/s on water side, regulated by condensing pressure

Type of available expansion elements:

CP = Capillary tube

VTS = Thermostatic expansion valve

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	018	022	025	030	038	045	055	061	
W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	20,5	23,9	27,0	31,0	40,1	46,8	60,2	62,5	
	NOMINAL HEATING CAPACITY (4)	kW	25,3	29,2	32,6	37,7	48,4	56,7	72,9	75,8	
	TOTAL NOMINAL ABSORBED POWER	kW	5,7	6,5	6,9	8,0	10,5	12,1	14,9	15,8	
	EER	kW/kW	4,31	4,54	4,80	4,60	4,80	4,75	4,75	4,70	
	SEPR (HT) (10)	-	7,03	7,00	7,04	7,03	7,07	7,02	7,06	7,01	
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	3,5	4,1	4,6	5,3	6,9	8,0	10,3	10,7	
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	4,3	5,0	5,6	6,5	8,3	9,7	12,5	13,0	
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)/(6)	kPa	36,1	39,6	50,5	41,5	41,7	40,5	60,3	45,3	
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3)/(5)	kPa	56,5	74,4	48,2	64,0	58,8	68,7	75,9	52,1	
	W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE	NOMINAL COOLING CAPACITY	kW	18,2	21,1	23,9	27,4	35,4	41,4	53,2	55,2
NOMINAL HEATING CAPACITY (4)		kW	24,0	27,6	30,8	35,6	45,6	53,4	68,7	71,5	
TOTAL NOMINAL ABSORBED POWER		kW	6,8	7,7	8,2	9,5	12,4	14,3	17,7	18,8	
EER		kW/kW	3,11	3,28	3,47	3,33	3,47	3,43	3,43	3,40	
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m ³ /h	3,1	3,6	4,1	4,7	6,1	7,1	9,2	9,5	
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m ³ /h	4,1	4,7	5,3	6,1	7,8	9,2	11,8	12,3	
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)/(6)		kPa	28,4	31,1	39,7	32,6	32,8	31,8	47,4	35,6	
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3)/(5)		kPa	50,7	66,4	42,8	57,1	52,2	61,1	67,5	46,4	
FRIGORIFIC SECTION											
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	2/1/2
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	
KIND OF EVAPORATOR	-	CX	CX	CX	CX	CX	CX	CX	CX	CX	
KIND OF CONDENSER	-	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	B-ES	ST	
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	
HYDRAULIC SECTION											
EVAPORATORS / CONDENSERS	nr.	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL) (6)	m ³ /h	0,3÷0,5	0,3÷0,6	0,3÷0,6	0,4÷0,6	0,5÷1,2	0,6÷1,2	0,6÷1,2	0,8÷1,2	0,8÷1,8	
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m ³ /h	0,2÷0,6	0,2÷0,6	0,4÷1,4	0,4÷1,4	0,4÷1,4	0,4÷1,4	0,8÷2,2	0,8÷1,7		
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (3)	kW	0,98	1,28	1,28	1,28	2,20	2,20	2,20	2,53	
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	1,78	2,37	2,37	2,37	4,24	4,24	4,24	4,56	
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (3)	kW	1,47	1,47	1,47	1,47	2,94	2,94	2,94	6,12	
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	2,86	2,86	2,86	2,32	5,83	5,83	5,83	10,40	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (THREADED / FLANGED)	BSP / DN	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	
HYDRAULIC CONNECTIONS, CONDENSER SIDE (THREADED / FLANGED)	BSP / DN	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2"	2"		
TANK VOLUME (6) (8)	dm ³	110	110	110	270	270	270	270	410		
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	8	8	8	8	8	8	8	12		
TOTAL ELECTRIC DATA (6)											
ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A)	A	15,9	18,3	19,0	21,6	28,7	34,2	40,7	43,0		
MAXIMUM PEAK CURRENT (L.R.A)	A	74,8	98,4	113,4	120,4	144,2	178,2	229,2	141,8		
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)	A	NA	NA	NA	NA	NA	NA	NA	118,2		
NOISE DATA (6) (7)											
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	43,0	51,0	51,5	51,5	52,1	52,5	55,5	52,5		
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	NA	NA	NA	50,5	50,8	51,0	52,5	51,0		
DIMENSIONS AND WEIGHT											
LENGTH	mm	1010	1010	1010	1610	1610	1610	1610	2220		
WIDTH	mm	720	720	720	860	860	860	860	1100		
HEIGHT	mm	1420	1420	1420	1380	1380	1380	1380	1855		
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	260	275	290	340	360	365	450	700		
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	390	405	415	610	630	635	720	1120		

The manufacturer reserves the right to modify specifications without notice.

Last update: 02/03/2021
Revision: 01-2021

Data referred to:

- Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +30/35°C (fluid = Water)
- Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +40/45°C (fluid = Water)
- Pressure drops taken in account: heat exchanger, valves, piping. Pump at the evaporator side, head pressure can be calculated from Gekkold Online Selection Software
- Water cooled chillers can be used as not reversible heat pumps, this kind of application must be indicated in the order
- Data referred to standard chiller configuration (PCC2), with different condensing temperature control system this data will change
- Data referred to standard chiller configuration, evaporator as indicated in frigorific section and single pump P3 (WP), with different evaporator this data can change
- Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guaranteed, the tank supplied by Gekkold can be not enough
- The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit
- SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm



Watercooled liquid chillers Water W series, rotary / scroll compressors, R410A / R32 / R454B refrigerant, coaxial / shell and tube evaporator (brazed plate evaporator as option), brazed plate / shell and tube condenser/s, closed cabinet. IP54 protection rating, chillers suitable for outdoor installation. 60Hz version as option. Condenser/s 2 ways valve/s, inbuilt water storage tank and single pump P3 as standard.

Types of available condensing temperature control system:

No one condensing temperature control system

PCC2 = 2 ways valve/s on water side, regulated by condensing pressure (standard)

PCC3 = 3 ways valve/s on water side, regulated by condensing pressure

Type of available expansion elements:

CP = Capillary tube

VTS = Thermostatic expansion valve

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	070	075	090	100	130	160	185	200	
W 12/17°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	70,4	78,9	92,8	106,7	124,0	157,8	185,7	213,3	
	NOMINAL HEATING CAPACITY (4)	kW	85,7	95,9	112,7	129,3	150,9	191,8	225,4	258,6	
	TOTAL NOMINAL ABSORBED POWER	kW	17,8	19,5	22,4	25,2	31,5	38,6	44,3	53,5	
	EER	kW/kW	4,62	4,64	4,67	4,71	4,60	4,64	4,67	4,71	
	SEPR (HT) (10)	-	7,03	7,02	7,06	7,07	7,00	7,07	7,05	7,07	
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	12,1	13,5	15,9	18,3	21,3	27,1	31,8	36,6	
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	14,7	16,4	19,3	22,2	12,9	16,4	19,3	22,2	
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)/(6)	kPa	22,1	46,9	46,1	43,2	47,4	59,4	65,4	52,1	
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3)/(5)	kPa	55,1	68,9	63,8	51,6	45,8	57,4	59,9	56,8	
	W 12/17°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE	NOMINAL COOLING CAPACITY	kW	62,3	69,7	82,1	94,3	109,6	139,5	164,1	188,5
NOMINAL HEATING CAPACITY (4)		kW	80,9	90,5	106,4	121,9	142,5	181,1	212,7	243,8	
TOTAL NOMINAL ABSORBED POWER		kW	21,2	23,3	26,8	30,2	37,5	46,2	53,2	63,6	
EER		kW/kW	3,34	3,35	3,38	3,41	3,33	3,35	3,38	3,41	
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m ³ /h	10,7	12,0	14,1	16,2	18,8	24,0	28,2	32,4	
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m ³ /h	13,9	15,5	18,2	20,9	12,2	15,5	18,2	20,9	
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)/(6)		kPa	17,3	36,8	36,3	34,0	37,3	46,7	51,4	41,0	
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3)/(5)		kPa	49,1	61,4	56,8	45,9	40,8	51,1	53,3	50,6	
FRIGORIFIC SECTION											
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	
KIND OF EVAPORATOR	-	CX	CX	CX	CX	ST	ST	ST	ST	ST	
KIND OF CONDENSER	-	ST	ST	ST	ST	ST	ST	ST	ST	ST	
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	
HYDRAULIC SECTION											
EVAPORATORS / CONDENSERS	nr.	1/1	1/1	1/1	1/1	1/2	1/2	1/2	1/2	1/2	
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL) (6)	m ³ /h	1,0÷2,0	1,0÷2,0	1,0÷2,0	1,0÷2,0	1,4÷2,7	1,5÷3,1	1,8÷3,5	2,5÷4,6		
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m ³ /h	0,8÷1,7	0,8÷1,7	1,0÷2,2	1,0÷2,2	0,8÷1,7	0,8÷2,0	1,0÷2,2	1,4÷2,4		
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (3)	kW	2,53	2,53	2,53	2,53	4,56	4,56	4,56	8,30	
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,56	4,56	4,56	4,56	7,75	7,75	7,75	14,10	
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (3)	kW	6,12	6,12	6,12	6,12	10,20	10,20	10,20	16,22	
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	10,40	10,40	10,40	17,40	17,40	17,40	26,60	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (THREADED / FLANGED)	BSP / DN	2"	2"	2"	2"	65	65	65	80		
HYDRAULIC CONNECTIONS, CONDENSER SIDE (THREADED / FLANGED)	BSP / DN	2"	2"	2"	2"	2 x 2"	2 x 2"	2 x 2"	2 x DN65		
TANK VOLUME (6) (8)	dm ³	410	410	410	410	390	390	390	390		
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	12	12	12	12	19	19	19	19		
TOTAL ELECTRIC DATA (6)											
ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	
MAXIMUM ABSORBED CURRENT (F.L.A)	A	48,3	53,6	64,6	71,0	84,6	105,8	127,8	147,0		
MAXIMUM PEAK CURRENT (L.R.A)	A	163,8	169,1	208,6	259,6	183,4	221,3	271,8	335,5		
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)	A	135,8	141,1	173,8	214,6	159,8	193,3	237,0	290,5		
NOISE DATA (6) (7)											
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	53,1	53,5	54,1	56,3	54,1	55,5	56,2	59,0		
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	51,2	51,5	51,8	53,1	51,8	52,5	53,0	55,3		
DIMENSIONS AND WEIGHT											
LENGTH	mm	2220	2220	2220	2220	3355	3355	3355	4355		
WIDTH	mm	1100	1100	1100	1100	1105*	1105*	1105*	1105**		
HEIGHT	mm	1855	1855	1855	1855	1985	1985	1985	1985		
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	725	740	750	860	1180	1375	1420	1825		
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	1145	1160	1170	1270	1620	1830	1885	2310		

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Last update: 02/03/2021
Revision: 01-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +30/35°C (fluid = Water)
- (2) Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +40/45°C (fluid = Water)
- (3) Pressure drops taken in account: heat exchanger, valves, piping. Pump at the evaporator side, head pressure can be calculated from Gekkold Online Selection Software
- (4) Water cooled chillers can be used as not reversible heat pumps, this kind of application must be indicated in the order
- (5) Data referred to standard chiller configuration (PCC2), with different condensing temperature control system this data will change
- (6) Data referred to standard chiller configuration, evaporator as indicated in frigorific section and single pump P3 (WP), with different evaporator this data can change
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guaranteed, the tank supplied by Gekkold can be not enough
- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit
- (10) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Watercooled liquid chillers Water W series, rotary / scroll compressors, R410A / R32 / R454B refrigerant, coaxial / shell and tube evaporator (brazed plate evaporator as option), brazed plate / shell and tube condenser/s, closed cabinet. IP54 protection rating, chillers suitable for outdoor installation. 60Hz version as option. Condenser/s 2 ways valve/s, inbuilt water storage tank and single pump P3 as standard.

Types of available condensing temperature control system:

No one condensing temperature control system

PCC2 = 2 ways valve/s on water side, regulated by condensing pressure (standard)

PCC3 = 3 ways valve/s on water side, regulated by condensing pressure

Type of available expansion elements:

CP = Capillary tube

VTS = Thermostatic expansion valve

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	230	280	340	370	430	
W 12/35°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	240,9	302,2	346,7	391,3	445,8	
	NOMINAL HEATING CAPACITY (4)	kW	291,7	365,5	420,0	474,4	539,9	
	TOTAL NOMINAL ABSORBED POWER	kW	59,0	71,6	81,5	93,3	104,3	
	EER	kW/kW	4,75	4,77	4,74	4,71	4,74	
	SEPR (HT) (10)	-	7,05	7,00	7,01	7,06	8,06	
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	41,3	51,8	59,5	67,1	76,4	
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	25,0	31,3	36,0	40,7	46,3	
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)(6)	kPa	62,9	66,4	56,3	62,8	81,5	
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3)(5)	kPa	52,1	55,2	61,7	52,9	57,9	
	W 12/45°C CONDENSER SIDE	NOMINAL COOLING CAPACITY	kW	213,0	267,1	306,5	345,8	394,0
NOMINAL HEATING CAPACITY (4)		kW	275,0	344,5	396,0	447,4	509,0	
TOTAL NOMINAL ABSORBED POWER		kW	70,3	85,7	97,8	111,8	125,2	
EER		kW/kW	3,43	3,45	3,42	3,40	3,43	
NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)		m ³ /h	36,6	45,9	52,7	59,5	67,8	
NOMINAL WATER FLOW, CONDENSER SIDE (EACH)		m ³ /h	23,6	29,5	33,9	38,4	43,6	
MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)(6)		kPa	49,4	52,2	44,2	49,3	64,1	
MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3)(5)		kPa	46,3	49,1	54,8	47,1	51,5	
FRIGORIFIC SECTION								
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	
KIND OF COMPRESSOR	-	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL		
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST		
KIND OF CONDENSER	-	ST	ST	ST	ST	ST		
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS		
HYDRAULIC SECTION								
EVAPORATORS / CONDENSERS	nr.	1/2	1/2	1/2	1/2	1/2		
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL) (6)	m ³ /h	2,5÷4,6	3,1÷5,8	3,8÷7,0	4,5÷8,0	5,2÷10,0		
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m ³ /h	1,4÷2,8	2,0÷3,7	2,0÷4,0	2,0÷5,2	3,4÷6,0		
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (3)	kW	8,30	8,30	8,30	10,20	10,20	
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	14,10	14,10	14,10	17,40	17,40	
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (3)	kW	16,22	16,22	16,22	16,22	19,94	
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,60	26,60	26,60	26,60	32,70	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (THREADED / FLANGED)	BSP / DN	80	100	100	100	125		
HYDRAULIC CONNECTIONS, CONDENSER SIDE (THREADED / FLANGED)	BSP / DN	2 x DN65	2 x DN80	2 x DN80	2 x DN80	2 x DN100		
TANK VOLUME (6) (8)	dm ³	500	500	500	500	500		
EXPANSION VESSEL VOLUME (OPTION XV) (9)	liters	19	19	19	19	19		
TOTAL ELECTRIC DATA (6)								
ELECTRICAL FEED	V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50		
MAXIMUM ABSORBED CURRENT (F.L.A)	A	159,9	192,5	221,9	254,6	283,6		
MAXIMUM PEAK CURRENT (L.R.A)	A	348,4	419,9	472,6	505,3	617,8		
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)	A	303,4	365,5	410,6	443,3	536,2		
NOISE DATA (6) (7)								
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	60,5	63,3	63,3	63,4	65,7		
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	56,5	58,8	58,8	59,2	61,2		
DIMENSIONS AND WEIGHT								
LENGTH	mm	5350	5350	5350	6350	6350		
WIDTH	mm	1305	1305	1305	1305	1305		
HEIGHT	mm	1985	1985	1985	1985	1985		
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	2190	2400	2530	2865	2945		
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	2775	3000	3150	3510	3605		

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- (9) The expansion vessel volume is calculated considering 40°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit
- (10) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator (coaxial evaporator excluded) and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

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** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Gekkold



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Gekko - Water B series

Water-cooled liquid Chillers
Open cabinet with compact footprint
IP54 protection rating
Suitable for OUTDOOR installation



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Watercooled liquid chillers Water B series, screw compressors, R134a / R513a refrigerant (R1234ze on request), 1 shell and tube evaporator, shell and tube condensers, electronic expansion valves, 50-75-100% partition steps per compressor, open cabinet and compact design to fit in narrow spaces. Electrical feed 400V/3ph/50Hz (60Hz version as option), IP54 protection rating, chillers suitable for indoor / outdoor installation.

Types of available condensing temperature control system:
 No one condensing temperature control system (standard)
 PCC2 = 2 ways valve/s on water side, regulated by condensing pressure
 PCC3 = 3 ways valve/s on water side, regulated by condensing pressure

Type of compressors starting method:
 PW = Part-Winding
 Y-D = Star-Delta

TECHNICAL DATA

PERFORMANCES		Model	1_300	1_350	1_400	1_460	1_570	1_630	1_720	1_770
W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	302,5	344,6	408,2	476,5	550,4	625,5	673,2	736,9
	NOMINAL HEATING CAPACITY (4)	kW	367,8	419,0	495,3	573,8	663,7	753,5	818,9	893,4
	TOTAL NOMINAL ABSORBED POWER	kW	65,3	74,4	87,0	97,4	113,3	128,0	145,7	156,5
	EER	kW/kW	4,63	4,63	4,69	4,89	4,86	4,89	4,62	4,71
	COP (4)	kW/kW	5,63	5,63	5,69	5,89	5,86	5,89	5,62	5,71
	SEPR (HT) (10)	-	7,03	7,03	8,01	8,02	8,04	8,05	8,02	8,06
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m3/h	51,9	59,1	70,0	81,7	94,4	107,3	115,4	126,4
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	63,1	71,8	84,9	98,4	113,8	129,2	140,4	153,2
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	69,7	80,0	62,0	63,3	50,3	73,6	54,2	51,6
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	28,6	46,9	29,8	42,5	46,0	54,0	46,9	49,2
W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (2)	NOMINAL COOLING CAPACITY	kW	266,0	303,0	359,0	419,0	484,0	550,0	592,0	648,0
	NOMINAL HEATING CAPACITY (4)	kW	344,0	391,8	462,9	535,2	619,2	702,8	765,9	834,8
	TOTAL NOMINAL ABSORBED POWER	kW	78,0	88,8	103,9	116,2	135,2	152,8	173,9	186,8
	EER	kW/kW	3,41	3,41	3,46	3,61	3,58	3,60	3,40	3,47
	COP (4)	kW/kW	4,41	4,41	4,46	4,61	4,58	4,60	4,40	4,47
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m3/h	45,6	52,0	61,6	71,9	83,0	94,3	101,5	111,1
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	59,0	67,2	79,4	91,8	106,2	120,5	131,3	143,2
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	53,9	61,9	47,9	48,9	38,9	56,9	41,9	39,9
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	25,0	41,0	26,0	37,0	40,0	47,0	41,0	43,0
	FRIGORIFIC SECTION									
COMPRESSORS / REFRIGERATING CIRCUITS / CONDENSERS	nr.	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1	1/1/1
COMPRESSORS STARTING METHOD	-	PW	PW	Y-D	Y-D	Y-D	Y-D	Y-D	Y-D	Y-D
HYDRAULIC SECTION (6)										
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m3/h	32÷64	36÷73	43÷86	63÷126	73÷140	85÷160	85÷160	97÷195	
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m3/h	36÷80	36÷80	50÷120	50÷120	55÷135	75÷145	75÷165	75÷180	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)	DN	100	100	100	125	125	150	150	150	
HYDRAULIC CONNECTIONS, CONDENSER SIDE (FLANGED)	DN	100	100	125	125	125	150	150	150	
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A)	A	196,0	214,0	280,0	310,0	320,0	360,0	413,0	477,0	
MAXIMUM PEAK CURRENT (L.R.A) (9)	A	943,0	1023,0	1364,0	1442,0	1853,0	2029,0	2520,0	2870,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (9)	A	754,4	818,4	1091,2	1153,6	1482,4	1623,2	2016,0	2296,0	
NOISE DATA (7)										
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	64,1	64,5	65,4	65,7	66,6	67,5	68,3	68,9	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	59,1	59,5	60,4	60,7	61,6	62,5	63,3	63,9	
DIMENSIONS AND WEIGHT										
LENGTH	mm	3500	3500	4150	4150	4600	4600	4600	4600	
WIDTH	mm	1400	1400	1600	1600	1900	1900	1900	1900	
HEIGHT	mm	2050	2050	2050	2050	2300	2300	2300	2300	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	1900	1950	2195	2230	2575	2630	2735	2775	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kg	2050	2100	2500	2550	2960	3040	3180	3230	

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- (4) Water cooled chillers can be used as not reversible heat pumps, this kind of application must be indicated in the order
- (5) Data referred to standard chiller configuration (no one condensing temperature control system), with different condensing temperature control system this data will change
- (6) You can match an hydromodule with this chiller: go to select it at <https://www.hitema.com/standard-products/hydro-module>
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) Weight will be confirmed in case of order
- (9) Data referred to standard compressors starting method, with different starting method this data will change
- (10) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

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Type of compressors starting method:
 PW = Part-Winding
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TECHNICAL DATA

PERFORMANCES		Model	2_300	2_350	2_400	2_460	2_570	2_630	2_720	2_860
W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	280,9	330,2	385,5	439,0	548,1	605,0	689,1	816,5
	NOMINAL HEATING CAPACITY (4)	kW	340,5	404,0	469,1	534,1	664,4	735,7	837,9	990,6
	TOTAL NOMINAL ABSORBED POWER	kW	59,7	73,7	83,6	95,2	116,3	130,7	148,8	174,1
	EER	kW/kW	4,71	4,48	4,61	4,61	4,71	4,63	4,63	4,69
	COP (4)	kW/kW	5,71	5,48	5,61	5,61	5,71	5,63	5,63	5,69
	SEPR (HT) (10)	-	7,06	7,02	7,01	8,05	8,00	8,04	8,06	8,06
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	48,2	56,6	66,1	75,3	94,0	103,7	118,2	140,0
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	29,2	34,6	40,2	45,8	57,0	63,1	71,8	84,9
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	65,8	69,7	81,3	68,4	71,0	69,7	56,8	72,3
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	29,8	37,6	42,3	32,0	28,6	34,3	50,3	29,8
W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (2)	NOMINAL COOLING CAPACITY	kW	247,0	290,4	339,0	386,0	482,0	532,0	606,0	718,0
	NOMINAL HEATING CAPACITY (4)	kW	318,2	378,4	438,8	499,6	620,8	688,0	783,6	925,8
	TOTAL NOMINAL ABSORBED POWER	kW	71,2	88,0	99,8	113,6	138,8	156,0	177,6	207,8
	EER	kW/kW	3,47	3,30	3,40	3,40	3,47	3,41	3,41	3,46
	COP (4)	kW/kW	4,47	4,30	4,40	4,40	4,47	4,41	4,41	4,46
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	42,4	49,8	58,1	66,2	82,7	91,2	103,9	123,1
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	27,3	32,4	37,6	42,8	53,2	59,0	67,2	79,4
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	50,9	53,9	62,9	52,9	54,9	53,9	43,9	55,9
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	26,0	33,0	37,0	28,0	25,0	30,0	44,0	26,0
	FRIGORIFIC SECTION									
COMPRESSORS / REFRIGERATING CIRCUITS / CONDENSERS	nr.	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2
COMPRESSORS STARTING METHOD	-	PW	PW	PW	PW	PW	PW	PW	PW	Y-D
HYDRAULIC SECTION (6)										
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m ³ /h	32÷59	39÷78	45÷91	52÷103	58÷116	71÷142	81÷162	96÷192	
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m ³ /h	20÷40	20÷45	20÷50	32÷60	35÷80	35÷80	35÷80	50÷120	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)	DN	100	100	100	125	125	150	150	150	
HYDRAULIC CONNECTIONS, CONDENSER SIDE (FLANGED)	DN	2 x 80	2 x 80	2 x 80	2 x 100	2 x 100	2 x 100	2 x 100	2 x 125	
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A)	A	216,0	248,0	288,0	324,0	364,0	392,0	428,0	560,0	
MAXIMUM PEAK CURRENT (L.R.A) (9)	A	616,0	609,0	729,0	848,0	983,0	1139,0	1237,0	1644,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (9)	A	514,4	512,0	612,0	710,8	822,8	950,4	1032,4	1371,2	
NOISE DATA (7)										
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	63,7	62,7	62,9	62,6	68,4	67,1	67,5	68,4	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	58,7	57,7	57,9	57,6	63,4	62,1	62,5	63,4	
DIMENSIONS AND WEIGHT										
LENGTH	mm	3900	4200	4450	4450	4700	4700	5000	5200	
WIDTH	mm	1600	1600	1700	1700	1700	1700	1700	1850	
HEIGHT	mm	2050	2050	2100	2100	2200	2200	2200	2350	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	1570	2070	2240	2300	3300	3360	4000	4950	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kg	1700	2200	2370	2490	3530	3590	4450	5210	

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Type of compressors starting method:
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 Y-D = Star-Delta

TECHNICAL DATA

PERFORMANCES		Model	2_990	2_1140	2_1290	2_1400	2_1500
W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	953,0	1100,8	1250,9	1346,4	1473,8
	NOMINAL HEATING CAPACITY (4)	kW	1147,7	1327,3	1506,9	1637,8	1786,8
	TOTAL NOMINAL ABSORBED POWER	kW	194,7	226,5	256,0	291,4	313,0
	EER	kW/kW	4,89	4,86	4,89	4,62	4,71
	COP (4)	kW/kW	5,89	5,86	5,89	5,62	5,71
	SEPR (HT) (10)	-	8,01	8,04	8,02	8,04	8,05
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	163,4	188,8	214,5	230,9	252,7
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	98,4	113,8	129,2	140,4	153,2
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	72,3	94,2	72,3	86,5	94,2
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	25,3	32,2	33,3	30,9	33,2
W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (2)	NOMINAL COOLING CAPACITY	kW	838,0	968,0	1100,0	1184,0	1296,0
	NOMINAL HEATING CAPACITY (4)	kW	1070,4	1238,4	1405,6	1531,8	1669,6
	TOTAL NOMINAL ABSORBED POWER	kW	232,4	270,4	305,6	347,8	373,6
	EER	kW/kW	3,61	3,58	3,60	3,40	3,47
	COP (4)	kW/kW	4,61	4,58	4,60	4,40	4,47
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	143,7	166,0	188,6	203,0	222,2
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	91,8	106,2	120,5	131,3	143,2
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	55,9	72,9	55,9	66,9	72,9
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	22,0	28,0	29,0	27,0	29,0
	FRIGORIFIC SECTION						
COMPRESSORS / REFRIGERATING CIRCUITS / CONDENSERS	nr.	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	
COMPRESSORS STARTING METHOD	-	Y-D	Y-D	Y-D	Y-D	Y-D	
HYDRAULIC SECTION (6)							
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m ³ /h	120÷224	129÷258	147÷294	142÷285	156÷311	
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m ³ /h	60÷140	70÷155	70÷175	80÷200	90÷200	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)	DN	200	200	200	200	200	
HYDRAULIC CONNECTIONS, CONDENSER SIDE (FLANGED)	DN	2 x 125	2 x 150	2 x 150	2 x 150	2 x 150	
TOTAL ELECTRIC DATA							
MAXIMUM ABSORBED CURRENT (F.L.A)	A	620,0	640,0	720,0	826,0	954,0	
MAXIMUM PEAK CURRENT (L.R.A) (9)	A	1752,0	2173,0	2389,0	2933,0	3347,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (9)	A	1463,6	1802,4	1983,2	2429,0	2773,0	
NOISE DATA (7)							
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	68,7	69,6	70,5	71,3	71,9	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	63,7	64,6	65,5	66,3	66,9	
DIMENSIONS AND WEIGHT							
LENGTH	mm	5200	5200	5200	5400	5400	
WIDTH	mm	1850	2000	2000	2000	2000	
HEIGHT	mm	2350	2450	2450	2450	2450	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	5060	5400	5480	5700	5870	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kg	5410	5760	6050	6320	6540	

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TECHNICAL DATA

PERFORMANCES		Model	3_1690	3_1900	3_2050	3_2200
W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	1651,2	1876,4	2016,2	2210,7
	NOMINAL HEATING CAPACITY (4)	kW	1991,0	2260,4	2453,3	2680,2
	TOTAL NOMINAL ABSORBED POWER	kW	339,8	384,0	437,1	469,5
	EER	kW/kW	4,86	4,89	4,61	4,71
	COP (4)	kW/kW	5,86	5,89	5,61	5,71
	SEPR (HT) (10)	-	8,50	8,57	-	-
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	283,1	321,8	345,7	379,1
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	113,8	129,2	140,2	153,2
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	88,6	86,5	90,8	101,1
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	32,2	33,3	30,9	33,2
W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (2)	NOMINAL COOLING CAPACITY	kW	1452,0	1650,0	1773,0	1944,0
	NOMINAL HEATING CAPACITY (4)	kW	1857,6	2108,4	2294,7	2504,4
	TOTAL NOMINAL ABSORBED POWER	kW	405,6	458,4	521,7	560,4
	EER	kW/kW	3,58	3,60	3,40	3,47
	COP (4)	kW/kW	4,58	4,60	4,40	4,47
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	249,0	282,9	304,0	333,4
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	106,2	120,5	131,2	143,2
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	68,5	66,9	70,2	78,2
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	28,0	29,0	27,0	29,0
	FRIGORIFIC SECTION					
COMPRESSORS / REFRIGERATING CIRCUITS / CONDENSERS	nr.	3/3/3	3/3/3	3/3/3	3/3/3	
COMPRESSORS STARTING METHOD	-	Y-D	Y-D	Y-D	Y-D	
HYDRAULIC SECTION (6)						
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m ³ /h	214÷427	217÷433	238÷476	261÷521	
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m ³ /h	70÷155	70÷175	80÷200	90÷200	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)	DN	250	250	250	250	
HYDRAULIC CONNECTIONS, CONDENSER SIDE (FLANGED)	DN	3 x 150	3 x 150	3 x 150	3 x 150	
TOTAL ELECTRIC DATA						
MAXIMUM ABSORBED CURRENT (F.L.A)	A	960,0	1080,0	1239,0	1431,0	
MAXIMUM PEAK CURRENT (L.R.A) (9)	A	2493,0	2749,0	3346,0	3824,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (9)	A	2122,4	2343,2	2842,0	3250,0	
NOISE DATA (7)						
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	71,4	72,3	73,1	73,7	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	66,4	67,3	68,1	68,7	
DIMENSIONS AND WEIGHT						
LENGTH	mm	5950	5950	5950	5950	
WIDTH	mm	2210	2210	2210	2210	
HEIGHT	mm	2450	2450	2450	2450	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	7340	7640	7740	7910	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kg	7890	8365	8610	8860	

The manufacturer reserves the right to modify specifications without notice.

Last update: 11/03/2021
 Revision: 01-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +30/35°C (fluid = Water)
- (2) Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +40/45°C (fluid = Water)
- (3) Pressure drops taken in account: heat exchanger, valves, piping
- (4) Water cooled chillers can be used as not reversible heat pumps, this kind of application must be indicated in the order
- (5) Data referred to standard chiller configuration (no one condensing temperature control system), with different condensing temperature control system this data will change
- (6) You can match an hydromodule with this chiller: go to select it at <https://www.hitema.com/standard-products/hydro-module>
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) Weight will be confirmed in case of order
- (9) Data referred to standard compressors starting method, with different starting method this data will change
- (10) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

Gekkold



gekkoldprom.com

Industrial Chiller Supplier

Gekko Water CW series

*Water-cooled liquid
Chillers*

Open cabinet with compact footprint

IP54 protection rating

Suitable for INDOOR installation



GEKKOLD

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Watercooled liquid chillers Water CW series, scroll compressors, R410A / R32 / R454B refrigerant, brazed plate evaporator/s, brazed plate condenser/s, thermostatic expansion valve, open cabinet and compact design to fit in narrow spaces.
Electrical feed 400V/3ph/50Hz (60Hz version as option), IP54 protection rating, chillers suitable for indoor / outdoor installation.

Types of available condensing temperature control system:
 No one condensing temperature control system (standard)
 PCC2 = 2 ways valve/s on water side, regulated by condensing pressure
 PCC3 = 3 ways valve/s on water side, regulated by condensing pressure

Type of available expansion elements:
 VTS = Thermostatic expansion valve
 ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	061	075	090	100	130	160	185	200
W 12/7°C EVAPORATOR SIDE W 30/55°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	57,5	74,4	87,6	97,8	113,4	142,3	184,4	204,1
	NOMINAL HEATING CAPACITY (4)	kW	71,0	91,5	107,5	120,8	138,3	174,0	226,1	249,6
	TOTAL NOMINAL ABSORBED POWER	kW	13,5	17,1	20,0	22,9	25,0	31,7	41,7	45,5
	EER	kW/kW	4,26	4,35	4,39	4,27	4,54	4,50	4,42	4,49
	COP (4)	kW/kW	5,26	5,35	5,39	5,27	5,54	5,50	5,42	5,49
	SEPR (HT) (9)		7,01	7,03	7,01	7,07	7,06	7,07	7,02	7,03
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m3/h	9,9	12,8	15,0	16,8	19,4	24,4	31,6	35,0
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	12,2	15,7	18,4	20,7	23,7	29,8	38,8	21,4
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	66,5	64,0	57,6	55,0	72,0	60,1	63,0	59,9
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3) (5)	kPa	47,7	79,2	58,8	77,9	79,5	57,1	59,7	78,3
W 12/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (2)	NOMINAL COOLING CAPACITY	kW	50,8	65,8	77,4	86,5	100,2	125,8	163,0	180,4
	NOMINAL HEATING CAPACITY (4)	kW	67,3	86,7	101,8	114,5	130,7	164,5	214,0	236,0
	TOTAL NOMINAL ABSORBED POWER	kW	16,5	20,9	24,4	28,0	30,5	38,7	51,0	55,6
	EER	kW/kW	3,08	3,15	3,17	3,09	3,29	3,25	3,20	3,24
	COP (4)	kW/kW	4,08	4,15	4,17	4,09	4,29	4,25	4,20	4,24
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m3/h	8,7	11,3	13,3	14,9	17,2	21,6	28,0	31,0
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	11,5	14,9	17,5	19,6	22,4	28,2	36,7	20,2
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	52,3	50,3	45,3	43,2	56,6	47,2	49,5	47,1
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3) (5)	kPa	42,9	71,0	52,7	70,0	71,0	51,0	53,5	70,0
	FRIGORIFIC SECTION									
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4
HYDRAULIC SECTION (6)										
EVAPORATORS / CONDENSERS	nr.	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	2/2
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m3/h	8÷17	8÷17	8÷17	10÷22	15÷27	15÷32	15÷38	20÷53	20÷53
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m3/h	8÷17	8÷17	10÷22	10÷22	14÷27	14÷37	20÷42	14÷25	14÷25
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (THREADED / FLANGED)	BSP / DN	2"	2"	2"	2"	DN65	DN65	DN65	DN80	DN80
HYDRAULIC CONNECTIONS, CONDENSER SIDE (THREADED / FLANGED)	BSP / DN	2"	2"	2"	2"	DN65	DN65	DN80	2 x DN65	2 x DN65
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A)	A	40,3	49,0	60,0	65,2	70,4	87,7	118,6	130,4	130,4
MAXIMUM PEAK CURRENT (L.R.A)	A	159,1	164,5	204,0	270,8	276,0	331,4	369,3	336,0	336,0
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)	A	131,3	136,5	169,2	222,6	227,8	273,9	307,3	287,8	287,8
NOISE DATA (7)										
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	47,0	51,0	52,0	56,0	58,0	58,0	60,0	59,0	59,0
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	42,0	46,0	47,0	51,0	53,0	53,0	55,0	54,0	54,0
DIMENSIONS AND WEIGHT										
LENGTH	mm	1250	1250	1250	1750	1750	1750	1750	1750	3000
WIDTH	mm	750	750	750	800	800	800	800	800	800
HEIGHT	mm	1700	1700	1700	1900	1900	1900	1900	1900	2000
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	375	395	420	750	800	860	930	1100	1100
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kg	390	415	440	790	850	920	1000	1180	1180

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Last update: 02/03/2021
 Revision: 01-2021

Data referred to:

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- (2) Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +40/45°C (fluid = Water)
- (3) Pressure drops taken in account: heat exchanger, valves, piping
- (4) Water cooled chillers can be used as not reversible heat pumps, this kind of application must be indicated in the order
- (5) Data referred to standard chiller configuration (no one condensing temperature control system), with different condensing temperature control system this data will change
- (6) You can match an hydromodule with this chiller: go to select it at <https://www.hitema.com/standard-products/hydro-module>
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) Weight will be confirmed in case of order
- (9) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

Watercooled liquid chillers Water CW series, scroll compressors, R410A / R32 / R454B refrigerant, brazed plate evaporator/s, brazed plate condenser/s, thermostatic expansion valve, open cabinet and compact design to fit in narrow spaces.
Electrical feed 400V/3ph/50Hz (60Hz version as option), IP54 protection rating, chillers suitable for indoor / outdoor installation.

Types of available condensing temperature control system:
 No one condensing temperature control system (standard)
 PCC2 = 2 ways valve/s on water side, regulated by condensing pressure
 PCC3 = 3 ways valve/s on water side, regulated by condensing pressure

Type of available expansion elements:
 VTS = Thermostatic expansion valve
 ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	230	280	340	370	430
W 12/7°C EVAPORATOR SIDE W 30/5°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	226,7	284,7	326,8	368,8	419,8
	NOMINAL HEATING CAPACITY (4)	kW	276,6	348,0	401,1	452,3	514,3
	TOTAL NOMINAL ABSORBED POWER	kW	49,9	63,3	74,4	83,4	94,6
	EER	kW/kW	4,54	4,50	4,39	4,42	4,44
	COP (4)	kW/kW	5,54	5,50	5,39	5,42	5,44
	SEPR (HT) (9)		7,05	7,02	7,06	7,06	8,01
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m3/h	38,9	48,8	56,0	63,2	72,0
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	23,7	29,8	34,4	38,8	44,1
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	72,0	60,1	62,2	63,0	63,0
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3) (5)	kPa	79,5	58,0	47,8	59,7	62,8
W 12/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (2)	NOMINAL COOLING CAPACITY	kW	200,4	251,6	288,8	326,0	371,0
	NOMINAL HEATING CAPACITY (4)	kW	261,4	329,0	379,7	428,0	486,6
	TOTAL NOMINAL ABSORBED POWER	kW	61,0	77,4	90,9	102,0	115,6
	EER	kW/kW	3,29	3,25	3,18	3,20	3,21
	COP (4)	kW/kW	4,29	4,25	4,18	4,20	4,21
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m3/h	34,5	43,3	49,7	56,1	63,8
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	22,4	28,2	32,6	36,7	41,7
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	56,6	47,2	48,9	49,5	49,5
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (3) (5)	kPa	71,0	51,8	42,8	53,5	56,2
	FRIGORIFIC SECTION						
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	
HYDRAULIC SECTION (6)							
EVAPORATORS / CONDENSERS	nr.	2/2	2/2	2/2	2/2	2/2	
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m3/h	20÷53	20÷53	35÷85	35÷85	35÷85	
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m3/h	14÷25	20÷40	20÷42	20÷42	34÷58	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (THREADED / FLANGED)	BSP / DN	DN80	DN80	DN100	DN100	DN100	
HYDRAULIC CONNECTIONS, CONDENSER SIDE (THREADED / FLANGED)	BSP / DN	2 x DN65	2 X DN80	2 X DN80	2 X DN80	2 X DN100	
TOTAL ELECTRIC DATA							
MAXIMUM ABSORBED CURRENT (F.L.A)	A	140,8	175,5	207,8	237,2	266,2	
MAXIMUM PEAK CURRENT (L.R.A)	A	346,4	419,1	458,5	487,9	600,4	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)	A	298,2	361,6	396,5	425,9	518,8	
NOISE DATA (7)							
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	61,0	61,0	63,0	63,0	65,5	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	56,0	56,0	58,0	58,0	60,5	
DIMENSIONS AND WEIGHT							
LENGTH	mm	3000	3000	3500	3500	3500	
WIDTH	mm	800	800	900	900	900	
HEIGHT	mm	2000	2000	2300	2300	2300	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	1120	1150	1320	1490	1660	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kg	1210	1250	1350	1500	1680	

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Last update: 02/03/2021
 Revision: 01-2021

Data referred to:

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- Data referred to inlet/outlet water temperatures: evaporator side = +12/+7 °C (fluid = Water), condenser side = +40/45°C (fluid = Water)
- Pressure drops taken in account: heat exchanger, valves, piping
- Water cooled chillers can be used as not reversible heat pumps, this kind of application must be indicated in the order
- Data referred to standard chiller configuration (no one condensing temperature control system), with different condensing temperature control system this data will change
- You can match an hydromodule with this chiller: go to select it at <https://www.hitema.com/standard-products/hydro-module>
- Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- Weight will be confirmed in case of order
- SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value



HYDROMODULE

*Inbuilt water storage tank
No pump / single pump / double pump versions*

**Gekko GM series
From 400L up to 5000L**



Technical Data Tables

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Gekkold



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Industrial Chiller Supplier

HYDRO-MODULES

*Carbon steel water storage tank
Galvanized and painted carbon steel frame
No pump / single pump / double pump versions
Inbuilt expansion vessel*

Gekko GM series
From 400 litres up to 5000 litres



GEKKOLD

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gekkoldprom.com



Hydro-Module GM series, water storage tank in carbon steel, open frame if only tank / closed frame in galvanized and painted steel if with single/double pump, expansion vessel, automatic filling valve, automatic air vent. 3bar maximum operating pressure.
ONLY FOR INBUILT PUMP/S VERSION: 400V/3ph/50Hz electrical feed, IP54 protection rating, chillers suitable for outdoor installation.

Type of available configuration for pumps:

- WP = Single pump P3 with nominal pressure head 3 barg
- DP = Double pump P3 (run and standby, with automatic changeover every 24h or on fault) with nominal pressure head 3 barg
- PH = Single pump P5 with nominal pressure head 5 barg
- DPH = Double pump P5 (run and standby, with automatic changeover every 24h or on fault) with nominal pressure head 5 barg

TECHNICAL DATA

HYDRO-MODULE FEATURES		Model	400L	475L	650L	800L	1100L	1750L	2250L	3000L	4000L	5000L
TANK VOLUME		dm ³	400	475	650	800	1100	1750	2250	3000	4000	5000
EXPANSION VESSEL NUMBER x VOLUME (1)		liters	19	19	2x19	2x19	1x60	2x60	2x60	3x60	3x60	4x60
DIMENSIONS AND WEIGHT												
LENGTH		mm	2010	2010	2010	2010	2910	2910	3910	3910	3910	3910
WIDTH		mm	1000	1000	1200	1200	1460	1460	1850	1850	2000	2000
HEIGHT		mm	1450	1450	1520	1520	1650	1650	2010	2010	2180	2180
WEIGHT EMPTY, NO PUMP VERSION (2)	EMP.	kg	253	263	303	313	473	493	765	795	924	954
WEIGHT OPERATIVE, NO PUMP VERSION (2)	OP.	kg	685	775	1030	1170	1683	2423	3195	4075	5244	6354

PUMP FEATURES	Data	Pmax [kW]	Imax [A]	Lw [dB(A)]	Qmin [m ³ /h]	Qmax [m ³ /h]	Hmax [kPa]	Hmin [kPa]	Tmin [°C]	Tmax [°C]	MEL
NSCE 32-160-22 (P3) (3)		2,53	4,56	78	7,0	28,0	24,0	16,4	-20	120	IE3
NSCE 32-160-30 (P3) (3)		3,46	6,33	78	8,0	32,0	29,6	19,7			
NSCE 32-200-55 (P5) (3)		6,12	10,4	78	9,0	31,0	48,5	35,4			
NSCE 32-200-75 (P5) (3)		8,30	14,1	82	10,0	34,0	62,2	46,3			
NSCE 40-160-40 (P3) (3)		4,56	7,75	78	12,0	48,0	27,7	20,4			
NSCE 40-160-55 (P3) (3)		6,12	10,4	78	13,0	55,0	34,7	25,7			
NSCE 40-200-92 (P5) (3)		10,25	17,4	84	16,0	57,0	51,0	33,6			
NSCE 40-200-110 (P5) (3)		12,27	20,6	84	17,0	63,0	57,1	36,0			
NSCE 40-250-110 (P5) (3)		12,04	20,2	84	18,0	48,0	59,5	45,8			
NSCE 50-160-75 (P3) (3)		8,30	14,1	82	22,0	96,0	33,0	15,7			
NSCE 50-160-92 (P3) (3)		10,25	17,4	84	24,0	105,0	38,1	18,5			
NSCE 50-200-150 (P5) (3)		16,22	26,6	82	24,0	94,0	54,2	37,1			
NSCE 50-200-185 (P5) (3)		19,94	32,7	84	26,0	110,0	63,0	43,1			
NSCE 65-160-92 (P3) (3)		10,25	17,4	84	28,0	142,0	29,7	15,6			
NSCE 65-160-150 (P3) (3)		16,22	26,6	82	35,0	169,0	41,1	23,3			
NSCE 65-200-185 (P5) (3)		19,94	32,7	84	31,0	154,0	49,8	24,9			
NSCE 65-200-220 (P5) (3)		23,79	40,4	81	33,0	162,0	55,7	28,1			
NSCS 65-250-300 (P5) (3)		31,88	53,5	80	32,0	181,0	66,6	33,2			
NSCE 80-160-150 (P3) (3)		16,22	26,6	82	51,0	240,0	32,9	14,2			
NSCE 80-160-220 (P3) (3)		24,09	40,9	81	60,0	280,0	41,8	18,1			
NSCS 80-200-300 (P5) (3)		31,88	53,5	80	55,0	236,0	52,1	34,5			
NSCS 80-250-370 (P5) (3)		39,09	65,6	79	51,0	225,0	66,0	45,6			
NSCS 100-160-220 (P3) (3)		23,79	40,4	81	45,0	317,0	33,3	15,9			
NSCS 100-160-300 (P3) (3)		32,47	54,5	80	50,0	359,0	43,0	21,5			
NSCS 100-200-370 (P5) (3)		40,40	67,8	79	44,0	356,0	53,2	24,4			
NSCS 100-200-450 (P5) (3)		47,25	77,5	85	47,0	356,0	59,4	24,4			

The manufacturer reserves the right to modify specifications without notice.

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LEGEND:

- Pmax = maximum absorbed power
- Imax = maximum absorbed current
- Lw = sound power level
- Qmin = minimum flow rate
- Qmax = maximum flow rate
- Hmin = minimum head pressure
- Hmax = maximum head pressure
- Tmin = minimum pumped fluid admitted temperature
- Tmax = maximum pumped fluid admitted temperature
- MEL = motor efficiency level

Data referred to:

- (1) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the hydromodule tank
- (2) Weight to be confirmed in case of order
- (3) Mechanical seal material: SiC/SiC/EPDM - Casing material: painted cast iron - Impeller material: stainless steel (models 32, 40, 50) / cast iron (models 65, 80, 100)

**Hydro-Module GM series, water storage tank in carbon steel, open frame if only tank / closed frame in galvanized and painted steel if with single/double pump, expansion vessel, automatic filling valve, automatic air vent. 3bar maximum operating pressure.
ONLY FOR INBUILT PUMP/S VERSION: 400V/3ph/50Hz electrical feed, IP54 protection rating, chillers suitable for outdoor installation.**

Type of available configuration for pumps:

WP = Single pump P3 with nominal pressure head 3 barg

DP = Double pump P3 (run and standby, with automatic changeover every 24h or on fault) with nominal pressure head 3 barg

PH = Single pump P5 with nominal pressure head 5 barg

DPH = Double pump P5 (run and standby, with automatic changeover every 24h or on fault) with nominal pressure head 5 barg

TECHNICAL DATA

WEIGHT WITH 1 PUMP		Model	400L	475L	650L	800L	1100L	1750L	2250L	3000L	4000L	5000L
PUMP MODEL												
NSCE 32-160-22 (P3) (2)	EMP.	kg	289	299	336	346	495	515	773	803	898	928
	OP.	kg	721	811	1056	1196	1687	2427	3163	4043	5132	6242
NSCE 32-160-30 (P3) (2)	EMP.	kg	292	302	339	349	498	518	776	806	901	931
	OP.	kg	724	814	1059	1199	1690	2430	3166	4046	5135	6245
NSCE 32-200-55 (P5) (2)	EMP.	kg	309	319	356	366	515	535	793	823	918	948
	OP.	kg	741	831	1076	1216	1707	2447	3183	4063	5152	6262
NSCE 32-200-75 (P5) (2)	EMP.	kg	326	336	373	383	532	552	810	840	935	965
	OP.	kg	758	848	1093	1233	1724	2464	3200	4080	5169	6279
NSCE 40-160-40 (P3) (2)	EMP.	kg	300	310	347	357	508	528	787	817	912	942
	OP.	kg	738	828	1074	1214	1708	2448	3187	4067	5157	6267
NSCE 40-160-55 (P3) (2)	EMP.	kg	310	320	357	367	518	538	797	827	922	952
	OP.	kg	748	838	1084	1224	1718	2458	3197	4077	5167	6277
NSCE 40-200-92 (P5) (2)	EMP.	kg	336	346	383	393	544	564	823	853	948	978
	OP.	kg	774	864	1110	1250	1744	2484	3223	4103	5193	6303
NSCE 40-200-110 (P5) (2)	EMP.	kg	340	350	387	397	548	568	827	857	952	982
	OP.	kg	778	868	1114	1254	1748	2488	3227	4107	5197	6307
NSCE 40-250-110 (P5) (2)	EMP.	kg	351	361	398	408	559	579	838	868	963	993
	OP.	kg	789	879	1125	1265	1759	2499	3238	4118	5208	6318
NSCE 50-160-75 (P3) (2)	EMP.	kg			380	390	541	561	820	850	945	975
	OP.	kg			1107	1247	1741	2481	3220	4100	5190	6300
NSCE 50-160-92 (P3) (2)	EMP.	kg			386	396	547	567	826	856	951	981
	OP.	kg			1113	1253	1747	2487	3226	4106	5196	6306
NSCE 50-200-150 (P5) (2)	EMP.	kg			429	439	590	610	869	899	994	1024
	OP.	kg			1156	1296	1790	2530	3269	4149	5239	6349
NSCE 50-200-185 (P5) (2)	EMP.	kg			439	449	600	620	879	909	1004	1034
	OP.	kg			1166	1306	1800	2540	3279	4159	5249	6359
NSCE 65-160-92 (P3) (2)	EMP.	kg					564	584	846	876	972	1002
	OP.	kg					1774	2514	3258	4138	5231	6341
NSCE 65-160-150 (P3) (2)	EMP.	kg					606	626	888	918	1014	1044
	OP.	kg					1816	2556	3300	4180	5273	6383
NSCE 65-200-185 (P5) (2)	EMP.	kg					621	641	903	933	1029	1059
	OP.	kg					1831	2571	3315	4195	5288	6398
NSCE 65-200-220 (P5) (2)	EMP.	kg					630	650	912	942	1038	1068
	OP.	kg					1840	2580	3324	4204	5297	6407
NSCS 65-250-300 (P5) (2)	EMP.	kg					748	768	1030	1060	1156	1186
	OP.	kg					1958	2698	3442	4322	5415	6525
NSCE 80-160-150 (P3) (2)	EMP.	kg							912	942	1040	1070
	OP.	kg							3342	4222	5317	6427
NSCE 80-160-220 (P3) (2)	EMP.	kg							931	961	1059	1089
	OP.	kg							3361	4241	5336	6446
NSCS 80-200-300 (P5) (2)	EMP.	kg							1045	1075	1173	1203
	OP.	kg							3475	4355	5450	6560
NSCS 80-250-370 (P5) (2)	EMP.	kg							1075	1105	1203	1233
	OP.	kg							3505	4385	5480	6590
NSCS 100-160-220 (P3) (2)	EMP.	kg									1125	1155
	OP.	kg									5445	6555
NSCS 100-160-300 (P3) (2)	EMP.	kg									1241	1271
	OP.	kg									5561	6671
NSCS 100-200-370 (P5) (2)	EMP.	kg									1255	1285
	OP.	kg									5575	6685
NSCS 100-200-450 (P5) (2)	EMP.	kg									1393	1423
	OP.	kg									5713	6823

The manufacturer reserves the right to modify specifications without notice.

Last update: 11/05/2020
Revision: 00-2020

Data referred to:

(1) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge

and considering only the water volume of the hydromodule tank

(2) Weight to be confirmed in case of order

(3) Mechanical seal material: SiC/SiC/EPDM - Casing material: painted cast iron - Impeller material: stainless steel (models 32, 40, 50) / cast iron (models 65, 80, 100)

Hydro-Module GM series, water storage tank in carbon steel, open frame if only tank / closed frame in galvanized and painted steel if with single/double pump, expansion vessel, automatic filling valve, automatic air vent. 3bar maximum operating pressure.
ONLY FOR INBUILT PUMP/S VERSION: 400V/3ph/50Hz electrical feed, IP54 protection rating, chillers suitable for outdoor installation.

Type of available configuration for pumps:

WP = Single pump P3 with nominal pressure head 3 barg

DP = Double pump P3 (run and standby, with automatic changeover every 24h or on fault) with nominal pressure head 3 barg

PH = Single pump P5 with nominal pressure head 5 barg

DPH = Double pump P5 (run and standby, with automatic changeover every 24h or on fault) with nominal pressure head 5 barg

TECHNICAL DATA

WEIGHT WITH 2 PUMP		Model	400L	475L	650L	800L	1100L	1750L	2250L	3000L	4000L	5000L
PUMP MODEL												
NSCE 32-160-22 (P3) (2)	EMP.	kg	345	355	391	401	555	575	839	869	963	993
	OP.	kg	785	875	1119	1259	1759	2499	3244	4124	5213	6323
NSCE 32-160-30 (P3) (2)	EMP.	kg	351	361	397	407	561	581	845	875	969	999
	OP.	kg	791	881	1125	1265	1765	2505	3250	4130	5219	6329
NSCE 32-200-55 (P5) (2)	EMP.	kg	385	395	431	441	595	615	879	909	1003	1033
	OP.	kg	825	915	1159	1299	1799	2539	3284	4164	5253	6363
NSCE 32-200-75 (P5) (2)	EMP.	kg	419	429	465	475	629	649	913	943	1037	1067
	OP.	kg	859	949	1193	1333	1833	2573	3318	4198	5287	6397
NSCE 40-160-40 (P3) (2)	EMP.	kg	372	382	418	428	585	605	871	901	996	1026
	OP.	kg	823	913	1158	1298	1805	2545	3298	4178	5267	6377
NSCE 40-160-55 (P3) (2)	EMP.	kg	392	402	438	448	605	625	891	921	1016	1046
	OP.	kg	843	933	1178	1318	1825	2565	3318	4198	5287	6397
NSCE 40-200-92 (P5) (2)	EMP.	kg	444	454	490	500	657	677	943	973	1068	1098
	OP.	kg	895	985	1230	1370	1877	2617	3370	4250	5339	6449
NSCE 40-200-110 (P5) (2)	EMP.	kg	452	462	498	508	665	685	951	981	1076	1106
	OP.	kg	903	993	1238	1378	1885	2625	3378	4258	5347	6457
NSCE 40-250-110 (P5) (2)	EMP.	kg	474	484	520	530	687	707	973	1003	1098	1128
	OP.	kg	925	1015	1260	1400	1907	2647	3400	4280	5369	6479
NSCE 50-160-75 (P3) (2)	EMP.	kg			484	494	651	671	937	967	1062	1092
	OP.	kg			1224	1364	1871	2611	3364	4244	5333	6443
NSCE 50-160-92 (P3) (2)	EMP.	kg			496	506	663	683	949	979	1074	1104
	OP.	kg			1236	1376	1883	2623	3376	4256	5345	6455
NSCE 50-200-150 (P5) (2)	EMP.	kg			582	592	749	769	1035	1065	1160	1190
	OP.	kg			1322	1462	1969	2709	3462	4342	5431	6541
NSCE 50-200-185 (P5) (2)	EMP.	kg			602	612	769	789	1055	1085	1180	1210
	OP.	kg			1342	1482	1989	2729	3482	4362	5451	6561
NSCE 65-160-92 (P3) (2)	EMP.	kg					702	722	994	1024	1119	1149
	OP.	kg					1942	2682	3447	4327	5418	6528
NSCE 65-160-150 (P3) (2)	EMP.	kg					786	806	1078	1108	1203	1233
	OP.	kg					2026	2766	3531	4411	5502	6612
NSCE 65-200-185 (P5) (2)	EMP.	kg					816	836	1108	1138	1233	1263
	OP.	kg					2056	2796	3561	4441	5532	6642
NSCE 65-200-220 (P5) (2)	EMP.	kg					834	854	1126	1156	1251	1281
	OP.	kg					2074	2814	3579	4459	5550	6660
NSCS 65-250-300 (P5) (2)	EMP.	kg					1070	1090	1362	1392	1487	1517
	OP.	kg					2310	3050	3815	4695	5786	6896
NSCE 80-160-150 (P3) (2)	EMP.	kg							1134	1164	1260	1290
	OP.	kg							3624	4504	5596	6706
NSCE 80-160-220 (P3) (2)	EMP.	kg							1172	1202	1298	1328
	OP.	kg							3662	4542	5634	6744
NSCS 80-200-300 (P5) (2)	EMP.	kg							1400	1430	1526	1556
	OP.	kg							3890	4770	5862	6972
NSCS 80-250-370 (P5) (2)	EMP.	kg							1460	1490	1586	1616
	OP.	kg							3950	4830	5922	7032
NSCS 100-160-220 (P3) (2)	EMP.	kg									1444	1474
	OP.	kg									5864	6974
NSCS 100-160-300 (P3) (2)	EMP.	kg									1676	1706
	OP.	kg									6096	7206
NSCS 100-200-370 (P5) (2)	EMP.	kg									1704	1734
	OP.	kg									6124	7234
NSCS 100-200-450 (P5) (2)	EMP.	kg									1980	2010
	OP.	kg									6400	7510

The manufacturer reserves the right to modify specifications without notice.

Last update: 11/05/2020
Revision: 00-2020

Data referred to:

- (1) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the hydromodule tank
- (2) Weight to be confirmed in case of order
- (3) Mechanical seal material: SiC/SiC/EPDM - Casing material: painted cast iron - Impeller material: stainless steel (models 32, 40, 50) / cast iron (models 65, 80, 100)



MULTI SCROLL

R410A / R32 / R454B

Scroll compressors

Plate / Shell & Tube evaporator

No tank & no pump

Gekko AIR S / SF / SF-OPT / S-MC series

From 94 kW up to 1287,5 kW



Technical Data Tables

GEKKOLD

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Gekkold



gekkoldprom.com

Industrial Chiller Supplier

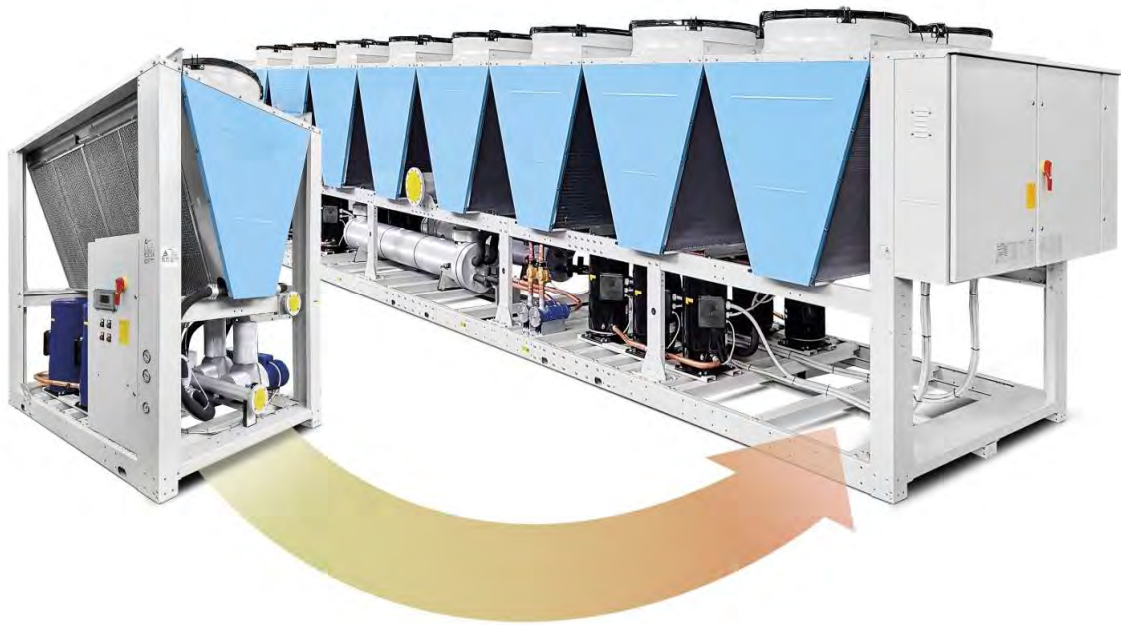
Gekko AIR S series

Air-Cooled liquid Chillers

EC axial fans

IP54 protection rating

Suitable for OUTDOOR installation



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Air-cooled liquid chillers AIR S series, scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt water storage tank and single pump P3 as option. Microchannel condenser coils as option.

Type of available evaporators:

ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements:

VTS = Thermostatic expansion valve
ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	095	120	145	160	190	240	290	330
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	98,4	122,6	144,7	161,2	189,0	236,0	288,9	319,9
TOTAL NOMINAL ABSORBED POWER		kW	25,9	34,1	44,3	52,0	51,4	68,0	88,6	103,6
EER		kW/kW	3,80	3,60	3,27	3,10	3,68	3,47	3,26	3,09
SEPR (HT) (3)		-	5,06	5,05	5,05	5,06	5,04	5,06	5,03	5,00
NOMINAL WATER FLOW		m ³ /h	16,9	21,1	24,9	27,7	32,5	40,5	49,6	55,0
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	50	54	55	54	47	40	41	47
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	ST	ST	ST	ST	ST
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m ³ /h	13,0÷23,0	16,0÷23,0	16,0÷42,0	20,0÷42,0	23,0÷42,0	29,0÷53,0	36,0÷66,0	38,0÷70,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	3,46	4,56	4,56	4,56	8,30	8,30	8,30	8,30
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	6,33	7,75	7,75	7,75	14,10	14,10	14,10	14,10
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	6,12	10,20	10,20	10,20	16,22	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	17,40	17,40	17,40	26,60	26,60	26,60	26,60
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (8)	DN	DN65	DN65	DN80	DN80	DN80	DN80	DN100	DN100	DN100
TANK VOLUME (5) (9)	dm ³	150	150	150	150	300	300	300	300	300
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (10)	liters	1x8	1x8	1x8	1x8	1x19	1x19	1x19	1x19	1x19
FAN SECTION (AXIAL)										
FANS	nr.	2	2	2	2	4	4	4	4	4
MAXIMUM FANS ABSORBED POWER	EC	kW	3,68	3,68	3,68	3,68	7,36	7,36	7,36	7,36
MAXIMUM FANS ABSORBED CURRENT		A	7,66	7,66	7,66	7,66	15,32	15,32	15,32	15,32
TOTAL AIR FLOW	m ³ /h	41200	41200	41200	41200	82400	82400	82400	82400	82400
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	67,7	80,5	96,9	111,6	135,3	161,1	193,8	223,1	223,1
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	211,7	269,1	324,3	362,3	279,3	349,6	421,2	473,8	473,8
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	176,9	224,1	269,9	300,3	244,5	304,6	366,8	411,8	411,8
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	58,2	60,0	61,8	61,8	61,2	63,0	64,8	64,8	64,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)	dB(A)	57,4	58,2	59,1	59,1	60,4	61,2	62,1	62,1	62,1
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (6) (7)	dB(A)	54,8	56,1	57,5	57,5	57,8	59,1	60,6	60,6	60,6
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (6) (7)	dB(A)	54,4	55,2	56,1	56,1	57,4	58,2	59,1	59,1	59,1
DIMENSIONS AND WEIGHT										
LENGTH	mm	1610	1610	1610	1610	2910	2910	2910	2910	2910
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	1030	1200	1250	1280	1900	2220	2320	2350	2350
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	1050	1225	1280	1310	1950	2290	2410	2450	2450

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration NP (no pump) and EC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095-160
- (9) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (10) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

** pump P5 includes the soft start (SF) option

Air-cooled liquid chillers AIR S series, scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt water storage tank and single pump P3 as option. Microchannel condenser coils as option.

Type of available evaporators:

ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements:

VTS = Thermostatic expansion valve
ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	330/F6	380	430	470	470/F8	530	570	610
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	345,5	387,0	433,3	464,8	490,9	527,4	563,0	603,0
TOTAL NOMINAL ABSORBED POWER		kW	97,8	110,6	132,8	147,4	141,8	154,4	168,3	186,5
EER		kW/kW	3,53	3,50	3,26	3,15	3,46	3,42	3,34	3,23
SEPR (HT) (3)		-	5,04	5,03	5,52	5,54	5,52	5,50	5,57	5,54
NOMINAL WATER FLOW		m ³ /h	59,3	66,5	74,4	79,9	84,3	90,6	96,7	103,6
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	55	57	56	60	67	59	52	56
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	4/2/4	4/2/4	6/2/4	6/2/4	6/2/4	6/2/4	6/2/4	6/2/4	6/2/4
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	ST
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m ³ /h	38,0÷70,0	47,0÷87,0	60,0÷110,0	62,0÷120,0	62,0÷120,0	79,0÷145,0	79,0÷145,0	81,0÷150,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	8,30	10,20	10,20	10,20	10,20	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	14,10	17,40	17,40	17,40	17,40	26,60	26,60	26,60
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,22	24,85	24,85	24,85	24,85	24,85	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,60	42,40	42,40	42,40	42,40	42,40	53,50	53,50
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (8)	DN	DN100	DN100	DN125	DN125	DN125	DN150	DN150	DN150	
TANK VOLUME (5) (9)	dm ³	300	380	380	380	380	500	500	500	
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (10)	liters	1x19	1x19	1x19	1x19	1x19	2x19	2x19	2x19	
FAN SECTION (AXIAL)										
FANS	nr.	6	6	6	6	8	8	8	8	
MAXIMUM FANS ABSORBED POWER	EC	kW	11,04	11,04	11,04	11,04	14,72	14,72	14,72	14,72
MAXIMUM FANS ABSORBED CURRENT		A	22,98	22,98	22,98	22,98	30,64	30,64	30,64	30,64
TOTAL AIR FLOW	m ³ /h	123600	123600	123600	123600	164800	164800	164800	164800	
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	230,8	260,1	290,6	320,0	327,7	357,0	386,4	415,4	
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	481,5	510,9	518,0	570,7	578,4	607,7	637,1	749,6	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	419,5	448,9	463,6	508,7	516,4	545,7	575,1	668,0	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	65,5	65,5	66,5	66,5	67,0	67,0	67,0	68,2	
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)	dB(A)	63,3	63,3	63,9	63,9	64,7	64,7	64,7	65,4	
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (6) (7)	dB(A)	61,4	61,4	62,3	62,3	62,9	62,9	62,9	63,9	
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (6) (7)	dB(A)	60,3	60,3	60,9	60,9	61,7	61,7	61,7	62,4	
DIMENSIONS AND WEIGHT										
LENGTH	mm	4210	4210	4210	4210	5900	5900	5900	5900	
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	
HEIGHT	mm	2500	2500	2500	2500	2500	2500	2500	2500	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	2740	2850	3270	3320	3900	3950	4050	4100	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	2840	2950	3400	3460	4000	4070	4180	4250	

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration NP (no pump) and EC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095-160
- (9) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (10) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

** pump P5 includes the soft start (SF) option

Air-cooled liquid chillers AIR S series, scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt water storage tank and single pump P3 as option. Microchannel condenser coils as option.

Type of available evaporators:

ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)

B-ES = stainless steel brazed plate evaporator

Type of available expansion elements:

VTS = Thermostatic expansion valve

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES

	Model	610/F10	660	660/F10	720	840	930	1030	1230
NOMINAL COOLING CAPACITY	kW	629,3	645,6	675,8	717,6	842,3	965,6	1021,7	1287,5
TOTAL NOMINAL ABSORBED POWER	kW	181,6	205,1	198,2	214,0	252,2	305,3	333,6	407,0
EER	kW/kW	3,47	3,15	3,41	3,35	3,34	3,16	3,06	3,16
SEPR (HT) (3)	-	5,51	5,56	5,50	5,57	5,57	5,53	5,50	5,57
NOMINAL WATER FLOW	m ³ /h	108,1	110,9	116,1	123,3	144,7	165,9	175,5	221,2
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)	kPa	61	59	64	73	74	69	72	84

FRIGORIFIC SECTION

COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	6/2/4	6/2/4	6/2/4	6/2/4	9/3/6	9/3/6	9/3/6	12/4/8
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST

HYDRAULIC SECTION

WATER FLOW RANGE (6)	m ³ /h	81,0÷150,0	81,0÷150,0	81,0÷150,0	86,0÷161,0	102,0÷180,0	108,0÷200,0	115,0÷215,0	142,0÷251,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2) kW	16,22	16,22	16,22	16,22	23,51	23,51	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)	A	26,60	26,60	26,60	26,60	39,00	39,00	53,50	53,50
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2) kW	31,88	31,88	31,88	39,09	39,09	39,09	47,31**	47,31**
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)	A	53,50	53,50	53,50	65,60	65,60	65,60	77,60	77,60
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (8)	DN	DN150	DN150	DN150	DN150	DN150	DN200	DN200	DN200
TANK VOLUME (5) (9)	dm ³	500	500	500	500	500	500	500	700
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (10)	liters	2x19	2x19	2x19	2x19	2x19	2x19	2x19	1x60

FAN SECTION (AXIAL)

FANS	nr.	10	8	10	10	12	12	12	16
MAXIMUM FANS ABSORBED POWER	EC kW	18,40	14,72	18,40	18,40	22,08	22,08	22,08	29,44
MAXIMUM FANS ABSORBED CURRENT	A	38,30	30,64	38,30	38,30	45,96	45,96	45,96	61,28
TOTAL AIR FLOW	m ³ /h	206000	164800	206000	206000	247200	247200	247200	329600

TOTAL ELECTRIC DATA

MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	423,0	444,4	452,0	481,0	579,6	666,6	710,1	888,8
MAXIMUM PEAK CURRENT (L.R.A) (6)	A	757,3	778,6	786,3	815,3	830,3	1000,8	1044,3	1223,0
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)	A	675,7	697,0	704,7	733,7	768,3	919,2	962,7	1141,4

NOISE DATA

SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	68,5	69,1	69,3	70,0	68,8	70,8	71,6	72,1
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)	dB(A)	66,0	65,9	66,5	66,9	66,5	67,7	68,2	68,9
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (6) (7)	dB(A)	64,3	64,6	65,0	65,6	64,7	66,4	NA	NA
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (6) (7)	dB(A)	63,0	62,9	63,5	63,9	63,5	64,7	NA	NA

DIMENSIONS AND WEIGHT

LENGTH	mm	7200	5900	7200	7200	8890	8890	8890	11490
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT	mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	4750	4170	4820	4900	5900	6050	6200	7600
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	4820	4330	4950	5070	6220	6450	6670	8100

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration NP (no pump) and EC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095-160
- (9) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (10) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

** pump P5 includes the soft start (SF) option

Gekkold



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Industrial Chiller Supplier

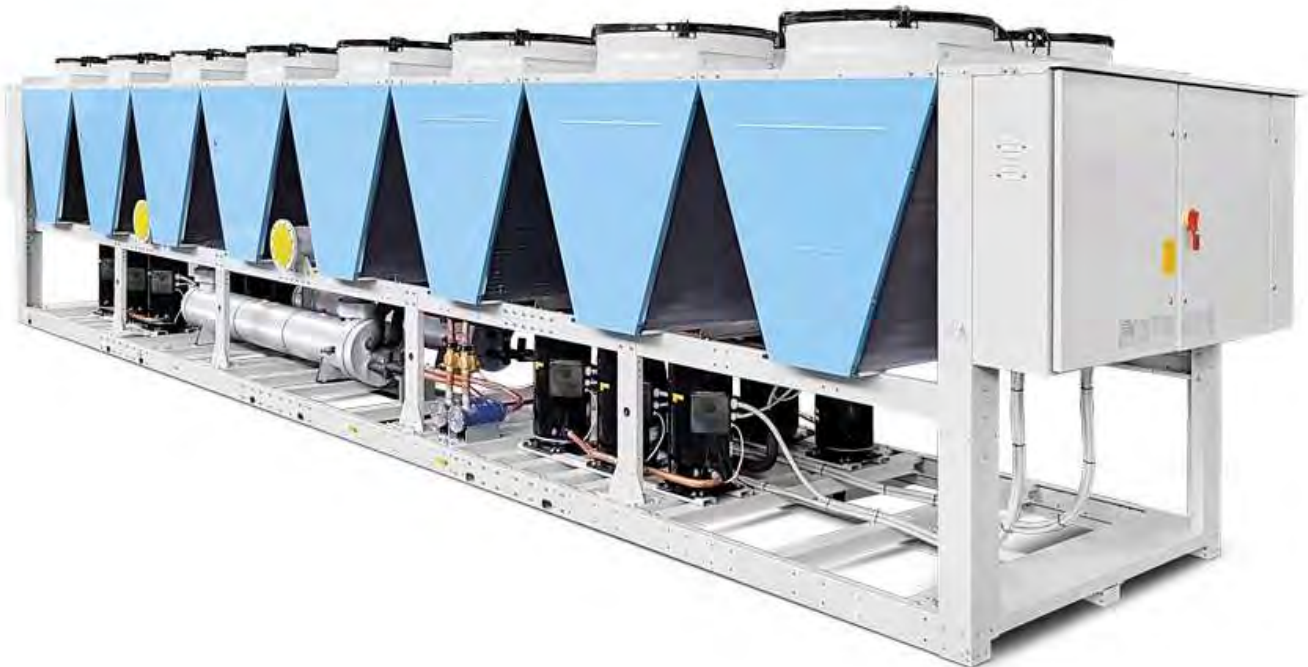
Gekko AIR SF series

Freecooling liquid chillers

EC axial fans

IP54 protection rating

Suitable for OUTDOOR installation



GEKKOLD

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Air-cooled liquid chillers AIR SF series, scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / shell and tube evaporator, condenser and freecooling coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation.

Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt water storage tank and single pump P3 as option.

Type of available evaporators:

ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)

B-ES = stainless steel brazed plate evaporator

Type of available expansion elements

VTS = Thermostatic expansion valve

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES

		Model	095	120	145	160	190	240	290	330
W 12°C/7°C @ 35°C (1)	NOMINAL COOLING CAPACITY	kW	94,1	115,7	146,5	170,4	180,8	223,1	295,3	327,8
	TOTAL NOMINAL ABSORBED POWER	kW	27,5	36,8	41,2	56,8	54,4	72,8	89,8	104,0
	EER	kW/kW	3,42	3,15	3,56	3,00	3,33	3,07	3,29	3,15
	SEPR (HT) (3)	-	5,07	5,02	5,07	5,04	5,05	5,01	5,03	5,03
	AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C	1,30	-0,40	2,80	1,20	1,60	-0,05	1,00	0,10
	NOMINAL WATER FLOW	m ³ /h	16,2	19,9	25,2	29,3	31,1	38,4	50,8	56,4
	MECHANICAL MODE PRESSURE DROPS (4) (6) (7)	kPa	59	63	58	56	53	48	60	69
FREE COOLING MODE PRESSURE DROPS (5)	kPa	122	150	107	113	115	135	130	152	

FRIGORIFIC SECTION

COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	2/1/2	2/1/2	2/1/2	2/1/2	4/2/4	4/2/4	4/2/4	4/2/4
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS
KIND OF EVAPORATOR	-	B-ES	B-ES	B-ES	B-ES	ST	ST	ST	ST

HYDRAULIC SECTION

WATER FLOW RANGE (7)	m ³ /h	13,0÷23,0	16,0÷23,0	21,0÷36,0	25,0÷45,0	25,0÷45,0	30,0÷55,0	36,0÷66,0	40,0÷73,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	6,12	6,12	6,12	10,20	10,20	10,20	10,20	16,22
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	10,40	10,40	10,40	17,40	17,40	17,40	17,40	26,60
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	8,3*	12,04*	12,04	12,04	19,94	19,94	19,94	19,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	14,10	20,20	20,20	20,20	32,70	32,70	32,70	32,70
HYDRAULIC CONNECTIONS (FLANGED)	DN	DN65	DN65	DN80	DN80	DN80	DN80	DN100	DN100	
TANK VOLUME (6) (9)	dm ³	150	150	300	300	300	300	380	380	
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (10)	liters	1x8	1x8	1x19	1x19	1x19	1x19	2x19	2x19	

FAN SECTION (AXIAL)

FANS	nr.	2	2	4	4	4	4	6	6	
MAXIMUM FANS ABSORBED POWER	EC	kW	3,68	3,68	7,36	7,36	7,36	7,36	11,04	11,04
MAXIMUM FANS ABSORBED CURRENT		A	7,66	7,66	15,32	15,32	15,32	15,32	22,98	22,98
TOTAL AIR FLOW	m ³ /h	34000	34000	68000	68000	68000	68000	102000	102000	

TOTAL ELECTRIC DATA

MAXIMUM ABSORBED CURRENT (F.L.A) (7)	A	67,7	80,5	103,1	133,8	135,3	161,1	201,4	230,8
MAXIMUM PEAK CURRENT (L.R.A) (7)	A	211,7	269,1	346,7	384,6	279,3	349,6	428,8	481,5
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (7)	A	176,9	224,1	289,2	322,6	244,5	304,6	374,4	419,5

NOISE DATA

SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)	dB(A)	56,1	58,8	60,6	61,8	59,1	61,8	64,4	64,4
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)	dB(A)	54,8	56,1	58,5	59,1	57,8	59,1	61,4	61,4
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)	dB(A)	52,5	54,5	56,6	57,6	55,5	57,6	60,1	60,1
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)	dB(A)	51,8	53,1	55,5	56,1	54,8	56,1	58,4	58,4

DIMENSIONS AND WEIGHT

LENGTH	mm	1610	1610	3300	3300	3300	3300	4600	4600
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT	mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)	kg	1120	1280	1950	1990	1990	2300	3250	3270
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)	kg	1170	1340	2070	2120	2120	2440	3550	3590

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
- (6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (7) Data referred to standard chiller configuration NP (no pump) and EC fans
- (8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (9) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (10) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* Pump P5 is not available with Tank (T) option

** Pump P5 includes the soft start (SF) option

*** 45 feet container needed for shipment

Air-cooled liquid chillers AIR SF series, scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / shell and tube evaporator, condenser and freecooling coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation.

Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt water storage tank and single pump P3 as option.

Type of available evaporators:

ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)

B-ES = stainless steel brazed plate evaporator

Type of available expansion elements

VTS = Thermostatic expansion valve

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES

	Model	380	430	470	470/F10	530	570	570/F12	610
NOMINAL COOLING CAPACITY	kW	387,8	432,6	465,5	483,7	521,4	553,4	577,5	592,3
TOTAL NOMINAL ABSORBED POWER	kW	114,7	136,5	151,7	147,3	161,4	175,6	172,9	194,4
EER	kW/kW	3,38	3,17	3,07	3,28	3,23	3,15	3,34	3,05
SEPR (HT) (3)	-	5,04	5,50	5,53	5,50	5,50	5,53	5,50	5,55
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C	1,10	0,20	-0,40	1,00	0,50	0,00	1,10	-0,60
NOMINAL WATER FLOW	m ³ /h	66,7	74,4	80,1	83,2	89,7	95,2	99,3	101,9
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)	kPa	72	72	77	83	78	70	77	76
FREE COOLING MODE PRESSURE DROPS (5)	kPa	136	148	162	175	156	156	170	160

FRIGORIFIC SECTION

COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	4/2/4	6/2/4	6/2/4	6/2/4	6/2/4	6/2/4	6/2/4	6/2/4
KIND OF EXPANSION ELEMENT	-	VTS	VTS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST

HYDRAULIC SECTION

WATER FLOW RANGE (7)	m ³ /h	47,0÷87,0	58,0÷107,0	62,0÷115,0	62,0÷115,0	78,0÷142,0	78,0÷142,0	78,0÷142,0	84,0÷143,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	16,22	16,22	16,22	16,22	24,85	24,85	24,85
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	26,60	26,60	26,60	26,60	42,20	42,20	42,20
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	31,88	31,88	31,88	31,88	39,09	39,09	39,09
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	53,50	53,50	53,50	53,50	65,60	65,60	65,60
HYDRAULIC CONNECTIONS (FLANGED)	DN	DN100	DN125	DN125	DN125	DN150	DN150	DN150	DN150
TANK VOLUME (6) (9)	dm ³	500	500	500	500	500	500	500	500
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (10)	liters	2x19	2x19	2x19	2x19	2x19	2x19	2x19	2x19

FAN SECTION (AXIAL)

FANS	nr.	8	8	8	10	10	10	12	10
MAXIMUM FANS ABSORBED POWER	EC	kW	14,72	14,72	14,72	18,40	18,40	18,40	22,08
MAXIMUM FANS ABSORBED CURRENT		A	30,64	30,64	30,64	38,30	38,30	38,30	45,96
TOTAL AIR FLOW	m ³ /h	136000	136000	136000	170000	170000	170000	204000	170000

TOTAL ELECTRIC DATA

MAXIMUM ABSORBED CURRENT (F.L.A) (7)	A	267,8	298,3	327,7	335,3	364,7	394,0	401,7	423,0
MAXIMUM PEAK CURRENT (L.R.A) (7)	A	518,5	525,7	578,4	586,0	615,4	644,8	652,4	757,3
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (7)	A	456,5	471,3	516,4	524,0	553,4	582,8	590,4	675,7

NOISE DATA

SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)	dB(A)	64,8	66,0	66,0	66,3	66,3	66,3	66,5	67,6
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)	dB(A)	62,2	62,9	62,9	63,4	63,4	63,4	63,9	64,3
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)	dB(A)	60,6	61,6	61,6	62,0	62,0	62,0	62,3	63,1
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)	dB(A)	59,2	59,9	59,9	60,4	60,4	60,4	60,9	61,3

DIMENSIONS AND WEIGHT

LENGTH	mm	5900	5900	5900	7200	7200	7200	8500	7200
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT	mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)	kg	3730	4020	4100	4830	4830	4930	5600	5000
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)	kg	4000	4300	4400	4970	4970	5100	5930	5200

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
- (6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (7) Data referred to standard chiller configuration NP (no pump) and EC fans
- (8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (9) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (10) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* Pump P5 is not available with Tank (T) option

** Pump P5 includes the soft start (SF) option

*** 45 feet container needed for shipment

Air-cooled liquid chillers AIR SF series, scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / shell and tube evaporator, condenser and freecooling coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation.

Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt water storage tank and single pump P3 as option.

Type of available evaporators:

ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)

B-ES = stainless steel brazed plate evaporator

Type of available expansion elements

VTS = Thermostatic expansion valve

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	610/F12	660	660/F14	720	720/F14	840	930	1030
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	616,1	661,7	682,5	700,4	720,4	856,4	957,7	1018,3
TOTAL NOMINAL ABSORBED POWER		kW	189,6	206,3	203,3	224,9	219,7	261,0	310,2	337,5
EER		kW/kW	3,25	3,21	3,36	3,11	3,28	3,28	3,09	3,02
SEPR (HT) (3)		-	5,53	5,50	5,51	5,56	5,55	5,56	5,53	5,56
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	0,60	0,05	1,00	-0,45	0,50	0,90	-0,48	-0,60
NOMINAL WATER FLOW		m ³ /h	106,0	113,8	117,4	120,5	123,9	147,0	164,7	175,1
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	82	86	92	91	96	81	90	94
FREE COOLING MODE PRESSURE DROPS (5)		kPa	173	164	175	176	186	167	172	178
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	6/2/4	6/2/4	6/2/4	6/2/4	6/2/4	9/3/6	9/3/6	9/3/6	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	
HYDRAULIC SECTION										
WATER FLOW RANGE (7)	m ³ /h	84,0÷143,0	84,0÷148,0	84,0÷148,0	84,0÷157,0	84,0÷157,0	98,0÷183,0	113,0÷210,0	141,0÷230,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	24,85	24,85	24,85	31,88	31,88	31,88	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	42,20	42,20	42,20	53,50	53,50	53,50	53,50	53,50
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,09	39,09	39,09	57,65*	57,65*	57,65**	57,65**	57,65**
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65,60	65,60	65,60	93,50	93,50	93,50	93,50	93,50
HYDRAULIC CONNECTIONS (FLANGED)	DN	DN150	DN150	DN150	DN150	DN150	DN150	DN200	DN200	
TANK VOLUME (6) (9)	dm ³	500	500	500	500	500	700	700	700	
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (10)	liters	2x19	2x19	2x19	2x19	2x19	1x60	1x60	1x60	
FAN SECTION (AXIAL)										
FANS	nr.	12	12	14	12	14	18	18	18	
MAXIMUM FANS ABSORBED POWER	EC	kW	22,08	22,08	25,76	22,08	25,76	33,12	33,12	33,12
MAXIMUM FANS ABSORBED CURRENT		A	45,96	45,96	53,62	45,96	53,62	68,94	68,94	68,94
TOTAL AIR FLOW	m ³ /h	204000	204000	238000	204000	238000	306000	306000	306000	
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)	A	430,7	459,7	467,4	488,7	496,4	602,2	689,4	733,1	
MAXIMUM PEAK CURRENT (L.R.A) (7)	A	764,9	793,9	801,6	822,9	830,6	852,9	1023,6	1067,3	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (7)	A	683,3	712,3	720,0	741,3	749,0	790,9	942,0	985,7	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)	dB(A)	67,8	68,8	68,9	69,6	69,7	71,3	71,3	71,3	
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)	dB(A)	64,7	65,3	65,6	65,9	66,2	67,7	67,7	67,7	
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)	dB(A)	63,4	64,3	64,5	65,0	65,1	na	na	na	
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)	dB(A)	61,7	62,3	62,6	62,9	63,2	na	na	na	
DIMENSIONS AND WEIGHT										
LENGTH	mm	8500	8500	9800	8500	9800	12790***	12790***	12790***	
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	
HEIGHT	mm	2500	2500	2500	2500	2500	2500	2500	2500	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)	kg	5600	5600	6700	5700	6700	8250	8250	8250	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)	kg	5930	5930	7230	6050	7230	8900	8900	8900	

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
Revision: 03-2021

Data referred to:

(1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water

(2) Available pressure can be calculated from Gekkold Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

(4) Pressure drops taken in account: evaporator, valves, piping

(5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil

(6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change

(7) Data referred to standard chiller configuration NP (no pump) and EC fans

(8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

(9) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough

(10) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

* Pump P5 is not available with Tank (T) option

** Pump P5 includes the soft start (SF) option

*** 45 feet container needed for shipment



Gekko AIR SF-OPT series

Optimized freecooling liquid chillers

EC axial fans

IP54 protection rating

Suitable for OUTDOOR installation



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Air-cooled liquid chillers AIR SF-OPT series, scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, **integrated and optimized free-cooling coils, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation.**

Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt water storage tank and single pump P3 as option.

Type of available evaporators:

ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements

VTS = Thermostatic expansion valve
ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	095	120	145	160	190	240	290	330
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	99,8	124,4	148,6	179,0	186,4	230,9	297,3	331,8
TOTAL NOMINAL ABSORBED POWER		kW	29,2	36,9	42,9	50,6	56,5	74,2	93,7	108,3
EER		kW/kW	3,42	3,38	3,46	3,53	3,30	3,11	3,17	3,06
SEPR (HT) (3)		-	5,02	5,04	5,02	5,03	5,06	5,06	5,05	5,05
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	3,85	2,73	4,60	3,90	2,74	3,60	3,80	3,20
NOMINAL WATER FLOW		m ³ /h	17,2	21,4	25,6	30,8	32,1	39,7	51,1	57,1
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	72	70	65	63	60	55	68	76
FREE COOLING MODE PRESSURE DROPS (5)		kPa	149	165	122	128	129	149	145	167
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	2/1/2	2/1/2	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4	4/2/4
KIND OF EXPANSION ELEMENT	-	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS	VTS
KIND OF EVAPORATOR	-	B-ES	B-ES	ST	ST	ST	ST	ST	ST	ST
HYDRAULIC SECTION										
WATER FLOW RANGE (7)		m ³ /h	13,0÷23,0	16,0÷23,0	21,0÷36,0	25,0÷45,0	25,0÷45,0	30,0÷55,0	36,0÷66,0	40,0÷73,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	6,12	6,12	6,12	10,20	10,20	10,20	10,20	16,22
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	10,40	10,40	10,40	17,40	17,40	17,40	17,40	26,60
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	8,30	12,03	12,03	12,03	19,94	19,94	19,94	19,94
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	14,10	20,20	20,20	20,20	32,70	32,70	32,70	32,70
HYDRAULIC CONNECTIONS (FLANGED)		DN	DN65	DN65	DN80	DN80	DN80	DN80	DN100	DN100
TANK VOLUME (6) (9)		dm ³	150	150	300	300	300	300	380	380
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (10)		liters	1x12	1x12	1x19	1x19	1x19	1x19	2x19	2x19
FAN SECTION (AXIAL)										
FANS	nr.		4	4	6	6	6	6	8	8
MAXIMUM FANS ABSORBED POWER	EC	kW	7,36	7,36	11,04	11,04	11,04	11,04	14,72	14,72
MAXIMUM FANS ABSORBED CURRENT		A	15,32	15,32	22,98	22,98	22,98	22,98	30,64	30,64
TOTAL AIR FLOW		m ³ /h	68000	68000	102000	102000	102000	102000	136000	136000
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)		A	75,3	88,2	110,4	83,0	143,0	168,7	209,1	238,4
MAXIMUM PEAK CURRENT (L.R.A) (7)		A	219,3	276,8	225,9	227,0	287,0	357,3	436,5	489,2
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (7)		A	184,5	231,8	197,9	192,2	252,2	312,3	382,1	427,2
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)		dB(A)	58,2	60,0	59,8	59,6	60,3	62,5	64,8	64,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)		dB(A)	57,4	58,2	59,1	59,1	59,3	60,3	62,2	62,2
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)		dB(A)	57,2	57,7	59,0	58,9	59,1	59,6	61,2	61,2
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)		dB(A)	52,7	53,8	54,3	54,2	54,6	56,0	58,0	58,0
DIMENSIONS AND WEIGHT										
LENGTH		mm	3300	3300	4600	4600	4600	4600	5900	5900
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)		kg	1670	1830	2690	2810	2810	3230	3490	3540
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)		kg	1776	1946	2940	2960	2960	3400	3726	3786

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
- (6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (7) Data referred to standard chiller configuration NP (no pump) and EC fans
- (8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (9) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (10) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

Air-cooled liquid chillers AIR SF-OPT series, scroll compressors, R410A / R32 / R454B refrigerant, brazed plate / shell and tube evaporator, condenser coil with copper tubes and aluminium fins, integrated and optimized free-cooling coils, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation.

Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt water storage tank and single pump P3 as option.

Type of available evaporators:

ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)

B-ES = stainless steel brazed plate evaporator

Type of available expansion elements

VTS = Thermostatic expansion valve

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	380	430	470	530	570	610	660	720
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	386,5	430,3	464,1	514,9	545,0	606,2	667,6	706,8
TOTAL NOMINAL ABSORBED POWER		kW	121,2	143,1	159,2	170,5	186,6	200,0	216,5	232,1
EER		kW/kW	3,19	3,01	2,91	3,02	2,92	3,03	3,08	3,05
SEPR (HT) (3)		-	5,01	5,57	5,50	5,53	5,53	5,56	5,50	5,52
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	3,60	3,00	2,50	3,00	2,60	3,00	3,20	2,80
NOMINAL WATER FLOW		m ³ /h	66,5	74,0	79,8	88,6	93,7	104,3	114,8	121,6
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	79	79	84	86	78	83	94	98
FREE COOLING MODE PRESSURE DROPS (5)		kPa	150	163	177	171	170	174	179	191
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP	nr.	4/2/4	6/2/4	6/2/4	6/2/4	6/2/4	6/2/4	6/2/4	6/2/4	6/2/4
KIND OF EXPANSION ELEMENT	-	VTS	VTS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	ST
HYDRAULIC SECTION										
WATER FLOW RANGE (7)		m ³ /h	47,0÷87,0	58,0÷107,0	62,0÷115,0	78,0÷142,0	78,0÷142,0	84,0÷143,0	84,0÷148,0	84,0÷157,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	16,22	16,22	16,22	16,22	16,22	19,94	19,94	31,88
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	26,60	26,60	26,60	26,60	26,60	32,70	32,70	53,50
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	31,88	31,88	31,88	39,09	39,09	39,09	39,09	57,65
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	53,50	53,50	53,50	65,60	65,60	65,60	65,60	93,50
HYDRAULIC CONNECTIONS (FLANGED)		DN	DN100	DN125	DN125	DN150	DN150	DN150	DN150	DN150
TANK VOLUME (6) (9)		dm ³	500	500	500	500	500	500	700	700
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (10)		liters	2x19	2x19	2x19	2x19	2x19	2x19	1x60	1x60
FAN SECTION (AXIAL)										
FANS	nr.		10	10	10	12	12	14	16	16
MAXIMUM FANS ABSORBED POWER	EC	kW	18,40	18,40	18,40	22,08	22,08	25,76	29,44	29,44
MAXIMUM FANS ABSORBED CURRENT		A	38,30	38,30	38,30	45,96	45,96	53,62	61,28	61,28
TOTAL AIR FLOW		m ³ /h	170000	170000	170000	204000	204000	238000	272000	272000
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)		A	275,5	306,0	335,3	372,3	401,7	438,4	475,0	504,0
MAXIMUM PEAK CURRENT (L.R.A) (7)		A	526,2	533,4	586,0	623,1	652,4	772,6	809,2	838,2
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (7)		A	464,2	479,0	524,0	561,1	590,4	691,0	727,6	756,6
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)		dB(A)	65,1	66,3	66,3	66,5	66,5	68,0	69,1	69,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)		dB(A)	62,8	63,4	63,4	63,9	63,9	65,0	65,9	66,4
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)		dB(A)	62,0	62,4	62,4	63,0	63,0	63,9	64,7	65,1
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)		dB(A)	58,5	59,4	59,4	59,8	59,8	61,1	62,0	62,6
DIMENSIONS AND WEIGHT										
LENGTH		mm	7200	7200	7200	8500	8500	9800	11100	11100
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)		kg	4320	4610	4690	5420	5520	6180	6780	6880
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)		kg	4646	4946	5046	5616	5746	6492	7222	7342

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
Revision: 03-2021

Data referred to:

(1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water

(2) Available pressure can be calculated from Gekkold Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

(4) Pressure drops taken in account: evaporator, valves, piping

(5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil

(6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change

(7) Data referred to standard chiller configuration NP (no pump) and EC fans

(8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

(9) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough

(10) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

Gekkold



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Industrial Chiller Supplier

Gekko AIR S-MC series

Modular aircooled liquid chillers

Microchannel condenser coil

EC axial fans

IP54 protection rating

Suitable for OUTDOOR installation



GEKKOLD

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Modular air-cooled liquid chillers AIR S-MC series, scroll compressors, 2 refrigerant circuits with one brazed plate evaporator per circuit and aluminum microchannel condenser coils to minimize the refrigerant charge (R410A / R32 / R454B), thermostatic expansion valve.
EC axial fans. IP54 protection rating, chillers suitable for outdoor installation.
Electrical feed 400V/3ph/50Hz (60Hz version as option).
You can connect up to 8 modules in parallel with a single power supply point into a master control panel installed onboard of the first module.

Type of available evaporators:
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements:
VTS = Thermostatic expansion valve
ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	095	120	145	160
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	95,5	119,4	143,7	179,9
TOTAL NOMINAL ABSORBED POWER		kW	22,0	29,0	39,1	57,5
EER		kW/kW	4,34	4,12	3,68	3,13
SEPR (HT) (2)		-	6,32	5,68	5,43	5,26
NOMINAL WATER FLOW		m ³ /h	16,4	20,5	24,7	30,9
SINGLE MODULE PRESSURE DROPS (4)		kPa	47,4	43,1	40,5	46,9
MULTIPLE MODULES PRESSURE DROPS (5)		kPa	80,5	56,1	57,2	70,1
FRIGORIFIC SECTION						
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	2/2/2	2/2/2	2/2/2	2/2/2
REFRIGERANT CHARGE PER CIRCUIT		kg	<10	<10	<10	<10
HYDRAULIC SECTION (3)						
WATER FLOW RANGE		m ³ /h	10÷34	13÷34	20÷34	20÷55
HYDRAULIC CONNECTIONS FOR SINGLE MODULE (FLANGED)		DN	65	65	80	80
HEADERS CONNECTIONS SIZE (VICTAULIC) (9)		DN	150	150	150	150
FAN SECTION (AXIAL)						
FANS		nr.	2	2	2	2
MAXIMUM FANS ABSORBED POWER	EC	kW	5,12	5,12	5,12	5,12
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	7,80
TOTAL AIR FLOW		m ³ /h	43520	43520	43520	43520
TOTAL ELECTRIC DATA (6)						
MAXIMUM ABSORBED CURRENT (F.L.A)		A	63,8	80,2	91,6	122,4
MAXIMUM PEAK CURRENT (L.R.A)		A	207,8	282,8	335,2	373,1
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)		A	173,0	234,7	277,7	311,1
NOISE DATA (6) (7)						
SOUND PRESSURE FOR STANDARD CONFIGURATION		dB(A)	58,2	60,5	60,5	61,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ)		dB(A)	57,4	58,5	58,5	59,1
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN)		dB(A)	54,8	56,5	56,5	57,5
DIMENSIONS AND WEIGHT						
SINGLE MODULE LENGTH (10)		mm	1610	1610	1610	1610
SINGLE MODULE WIDTH		mm	2590	2590	2590	2590
MULTIPLE MODULES WIDTH		mm	2870	2870	2870	2870
HEIGHT		mm	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (8)		kg	850	915	930	1160
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (8)		kg	870	935	950	1180

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
Revision: 01-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (3) Pump and tank can be supplied in a separate hydro-module (GEKKOLD HYD series)
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Pressure drops taken in account: evaporator, automatic isolation valves, circuit setter balancing valve, one way valve, piping
- (6) Data referred to standard chiller configuration NP (no pump) and EC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) Weight referred to SINGLE MODULE version. For multiple module configuration, weight to be confirmed in case of order
- (9) Headers connection size is valid for a maximum flow rate of 191 m³/h in multi-module configuration. Dimensions will increase for greater flow rate.
- (10) Multiple modules length must be increase of 52mm each module, this length increasing correspond to minimum distance between two consecutive modules

Gekkold



gekkoldprom.com

Industrial Chiller Supplier

PROCESS COOLING APPLICATION

R134A / R513A / R1234ze

Screw compressors

Shell & Tube evaporator / Brazed plate economizer

No tank & no pump

Gekko AIR N / NF / D / DF series

From 154 kW up to 2244 kW



Technical Data Tables

GEKKOLD

Russian Federation, Moscow,
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Gekko AIR D series

Air-Cooled liquid Chillers, screw compressors

EC fans

IP54 protection rating

Suitable for OUTDOOR installation



Technical Data Tables

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Air cooled liquid chillers AIR D series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation.

Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M2 = standard configuration, with AC fans with cut phase regulation, with economizer and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	663/F4**	693/F4**	783/F6	793/F6	863/F6	873/F8	883/F8	893/F10
NOMINAL COOLING CAPACITY (1)	ECO.M2 (3)	kW	248	308	432	477	519	606	666	755
TOTAL NOMINAL ABSORBED POWER (1)		kW	61,20	79,58	110,20	127,66	146,16	153,60	183,20	198,34
EER (1)		kW/kW	3,57	3,51	3,53	3,41	3,28	3,56	3,34	3,45
NOMINAL WATER FLOW		m3/h	42,60	53,00	74,38	82,07	89,26	104,17	114,48	129,85
EVAPORATOR PRESSURE DROP		kPa	22	22	70	59	69	64	50	64
HYDRAULIC SECTION										
WATER FLOW RANGE		m3/h	30÷80	30÷80	44÷88	48÷97	49÷97	74÷148	74÷148	84÷168
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	8,3	8,3	10,2	10,2	16,2	16,2	16,2	16,2
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	14,1	14,1	17,4	17,4	26,6	26,6	26,6	26,6
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,2	16,2	24,9	24,9	31,9	31,9	31,9	31,9
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,6	26,6	42,4	42,4	53,5	53,5	53,5	53,5
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	100	100	100	125	125	150	150	150
FAN SECTION (AXIAL)										
FANS		nr.	4	4	6	6	6	8	8	10
CONDENSER COILS		nr.	4	4	6	6	6	8	8	10
MAXIMUM FANS ABSORBED POWER	EC	kW	8,16	8,16	12,24	12,24	12,24	16,32	16,32	20,40
MAXIMUM FANS ABSORBED CURRENT		A	13,84	13,84	20,76	20,76	20,76	27,68	27,68	34,60
TOTAL AIR FLOW		m3/h	79852	79852	119778	119778	119778	159704	159704	199630
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	147,6	231,6	311,4	347,4	333,4	395,2	423,2	467,0
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	436,8	675,8	796,7	925,7	900,7	1070,6	1230,6	1339,5
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	369,2	574,2	679,7	788,5	765,7	910,4	1042,0	1134,9
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	63,5	65,0	65,0	64,8	67,9	69,3	68,3	68,8
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (4) (5)		dB(A)	61,0	61,9	62,6	62,5	64,4	65,8	65,1	65,8
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (4) (5)		dB(A)	59,3	60,6	60,9	60,7	63,3	64,8	63,8	64,4
DIMENSIONS AND WEIGHT										
LENGTH		mm	2910	2910	4600	4600	4600	5900	5900	7200
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	3050	3200	4000	4300	4500	5250	5400	6300
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	3150	3330	4150	4470	4700	5500	5650	6580

The manufacturer reserves the right to modify specifications without notice.

Last update: 02/05/2022
Revision: 00-2022

Data referred to:

(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C

(2) Available pressure can be calculated from Gekkold Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

(4) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans

(5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

**Model 663-693 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

Air cooled liquid chillers AIR D series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation.

Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M2 = standard configuration, with AC fans with cut phase regulation, with economizer and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	963/F12	973/F12	983/F14	993/F16	9103/F18	9113/F18	983/F24***	993/F24***
NOMINAL COOLING CAPACITY (1)	ECO.M2 (3)	kW	904	1019	1180	1321	1438	1566	1794	1982
TOTAL NOMINAL ABSORBED POWER (1)		kW	231,00	264,80	309,20	345,60	384,90	423,64	300,12	518,40
EER (1)		kW/kW	3,54	3,52	3,49	3,49	3,41	3,40	3,59	3,49
NOMINAL WATER FLOW		m ³ /h	155,47	175,25	202,95	227,27	247,25	269,37	308,57	340,97
EVAPORATOR PRESSURE DROP		kPa	69	70	74	79	89	99	75	90
HYDRAULIC SECTION										
WATER FLOW RANGE		m ³ /h	111÷221	101÷201	127÷254	148÷297	158÷315	157÷314	191÷381	189÷379
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	23,5	23,5	23,5	0,0	0,0	0,0	0,0	0,0
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	39,0	39,0	39,0	0,0	0,0	0,0	0,0	0,0
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,1	39,1	39,1	NA	NA	NA	NA	NA
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65,6	65,6	65,6	NA	NA	NA	NA	NA
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	200	200	200	200	250	250
FAN SECTION (AXIAL)										
FANS		nr.	12	12	14	16	18	18	24	24
CONDENSER COIL		nr.	12	12	14	16	18	18	12	12
MAXIMUM FANS ABSORBED POWER	EC	kW	24,48	24,48	28,56	32,64	36,72	36,72	48,96	48,96
MAXIMUM FANS ABSORBED CURRENT		A	41,52	41,52	48,44	55,36	62,28	62,28	83,04	83,04
TOTAL AIR FLOW		m ³ /h	239556	239556	279482	319408	359334	359334	435888	435888
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	606,8	666,8	694,6	782,4	896,2	1024,2	1053,6	1173,6
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	1792,4	1910,4	2316,3	2558,2	3127,1	3582,1	2655,8	2933,8
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	1519,6	1622,0	1945,7	2152,4	2623,1	3008,1	2285,2	2528,0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	69,7	69,9	70,8	71,6	72,3	72,8	72,1	72,8
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	66,6	66,8	67,5	68,3	69,0	69,3	68,3	68,9
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	65,3	65,5	66,3	67,1	67,8	68,3	67,4	68,2
DIMENSIONS AND WEIGHT										
LENGTH		mm	8500	8500	9800	11100	12790	12790	12880	12880
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	7100	7250	8000	9200	9400	10100	11300	11600
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	7400	7600	8350	9600	9800	10500	11800	12100

The manufacturer reserves the right to modify specifications without notice.

Last update: 02/05/2022
Revision: 00-2022

Data referred to:

(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C

(2) Available pressure can be calculated from Gekkold Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

(4) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans

(5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

***Model 663-693 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

Air cooled liquid chillers AIR D series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation.

Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M1 = standard configuration, with AC fans with cut phase regulation, with economizer and oversized compressor motor size

NE.M1 = chiller without economizer, with AC fans with cut phase regulation and oversized compressor motor size



TECHNICAL DATA

PERFORMANCES		Model	663/F4**	693/F4**	783/F6	793/F6	863/F6	873/F8	883/F8	893/F10
NOMINAL COOLING CAPACITY (1)	ECO.M1 (3)	kW	247	-	434	478	522	606	652	757
TOTAL NOMINAL ABSORBED POWER (1)		kW	60,90	-	112,20	128,80	148,40	155,00	184,40	198,30
EER (1)		kW/kW	3,58	-	3,48	3,39	3,25	3,54	3,25	3,46
NOMINAL WATER FLOW		m3/h	42,53	-	74,57	82,29	89,80	104,24	112,15	130,15
EVAPORATOR PRESSURE DROP		kPa	22	-	71	60	70	64	71	64
NOMINAL COOLING CAPACITY (6)	NE.M1 (3)	kW	297	-	515	568	600	720	771	913
TOTAL NOMINAL ABSORBED POWER (6)		kW	61,0	-	113,0	133,0	145,0	157,0	182,0	202,0
EER (6)		kW/kW	4,29	-	4,11	3,91	3,82	4,15	3,89	4,11
NOMINAL WATER FLOW		m3/h	36,50	-	63,30	69,80	73,80	88,40	94,70	112,20
EVAPORATOR PRESSURE DROP		kPa	17	-	52	61	48	67	51	48
HYDRAULIC SECTION										
WATER FLOW RANGE		m3/h	30÷80	-	43÷86	52÷103	52÷103	72÷144	79÷158	82÷163
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	8,3	-	10,2	10,2	16,2	16,2	16,2	16,2
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	14,1	-	17,4	17,4	26,6	26,6	26,6	26,6
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,2	-	24,9	24,9	31,9	31,9	31,9	31,9
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,6	-	42,4	42,4	53,5	53,5	53,5	53,5
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	100	-	100	125	125	150	150	150
FAN SECTION (AXIAL)										
FANS		nr.	4	-	6	6	6	8	8	10
CONDENSER COIL		nr.	4	-	6	6	6	8	8	10
MAXIMUM FANS ABSORBED POWER	EC	kW	8,16	-	12,24	12,24	12,24	16,32	16,32	20,40
MAXIMUM FANS ABSORBED CURRENT		A	13,84	-	20,76	20,76	20,76	27,68	27,68	34,60
TOTAL AIR FLOW		m3/h	79852	-	119778	119778	119778	159704	159704	199630
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	231,6	-	363,4	383,4	455,4	523,2	551,2	659,0
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	666,8	-	1039,7	1146,7	1254,7	1380,6	1489,6	1634,5
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	565,2	-	881,7	969,3	1066,1	1176,0	1266,8	1398,3
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	65,0	-	69,1	69,1	68,0	68,6	69,4	69,7
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (4) (5)		dB(A)	61,9	-	65,3	65,3	64,5	65,3	65,8	66,4
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (4) (5)		dB(A)	60,6	-	64,5	64,5	63,5	64,1	64,8	65,3
DIMENSIONS AND WEIGHT										
LENGTH		mm	2910	-	4600	4600	4600	5900	5900	7200
WIDTH		mm	2210	-	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	-	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	3050	-	4000	4300	4500	5250	5400	6300
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	3150	-	4150	4470	4700	5500	5650	6580

The manufacturer reserves the right to modify specifications without notice.

Last update: 02/05/2022
Revision: 00-2022

Data referred to:

(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C

(2) Available pressure can be calculated from Gekkold Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

(4) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans

(5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

(6) Data referred to Inlet/Outlet water temperature = +22/15 °C, ambient temperature = +35°C

**Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

Air cooled liquid chillers AIR D series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation.

Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M1 = standard configuration, with AC fans with cut phase regulation, with economizer and oversized compressor motor size

NE.M1 = chiller without economizer, with AC fans with cut phase regulation and oversized compressor motor size

M1

TECHNICAL DATA

PERFORMANCES		Model	963/F12	973/F12	983/F14	993/F16	9103/F18	9113/F18	983/F24***	993/F24***
NOMINAL COOLING CAPACITY (1)	ECO.M1 (3)	kW	898	1003	1160	1327	1438	-	1764	1980
TOTAL NOMINAL ABSORBED POWER (1)		kW	229,68	269,20	302,94	333,94	388,10	-	440,10	506,28
EER (1)		kW/kW	3,53	3,41	3,50	3,62	3,38	-	3,61	3,57
NOMINAL WATER FLOW		m3/h	154,48	172,48	199,58	228,26	247,25	-	303,43	340,62
EVAPORATOR PRESSURE DROP		kPa	68	69	73	81	90	-	74	90
NOMINAL COOLING CAPACITY (6)	NE.M1 (3)	kW	1070	1194	1389	1596	1738	-	2073	2244
TOTAL NOMINAL ABSORBED POWER (6)		kW	229,0	275,0	305,0	349,0	408,0	-	445,0	520,0
EER (6)		kW/kW	4,22	3,99	4,16	4,18	3,91	-	4,20	3,94
NOMINAL WATER FLOW		m3/h	131,40	146,70	170,70	196,10	213,50	-	254,70	275,80
EVAPORATOR PRESSURE DROP		kPa	71	64	54	60	97	-	71	60
HYDRAULIC SECTION										
WATER FLOW RANGE		m3/h	108÷195	108÷195	123÷247	144÷287	154÷307	-	185÷370	185÷370
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	23,5	23,5	23,5	0,0	0,0	-	0,0	0,0
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	39,0	39,0	39,0	0,0	0,0	-	0,0	0,0
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,1	39,1	39,1	NA	NA	-	NA	NA
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65,6	65,6	65,6	NA	NA	-	NA	NA
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	200	200	200	-	250	250
FAN SECTION (AXIAL)										
FANS		nr.	12	12	14	16	18	-	24	24
CONDENSER COIL		nr.	12	12	14	16	18	-	12	12
MAXIMUM FANS ABSORBED POWER	EC	kW	24,48	24,48	28,56	32,64	36,72	-	48,96	48,96
MAXIMUM FANS ABSORBED CURRENT		A	41,52	41,52	48,44	55,36	62,28	-	83,04	83,04
TOTAL AIR FLOW		m3/h	239556	239556	279482	319408	359334	-	435888	435888
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	786,8	886,8	954,6	962,4	1202,2	-	1443,6	1443,6
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	2370,4	2637,4	3167,3	3171,2	3705,1	-	3636,8	3636,8
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	1999,8	2231,6	2663,3	2667,2	3131,1	-	3132,8	3132,8
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	70,6	71,3	72,1	72,2	72,8	-	73,6	73,6
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (4) (5)		dB(A)	67,2	67,7	68,5	68,7	69,3	-	69,4	69,4
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (4) (5)		dB(A)	66,1	66,8	67,5	67,7	68,3	-	68,8	68,8
DIMENSIONS AND WEIGHT										
LENGTH		mm	8500	8500	9800	11100	12790	-	12880	12880
WIDTH		mm	2210	2210	2210	2210	2210	-	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	-	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	7100	7250	8000	9200	9400	-	11300	11600
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	7400	7600	8350	9600	9800	-	11800	12100

The manufacturer reserves the right to modify specifications without notice.

Last update: 02/05/2022
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Data referred to:

(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C

(2) Available pressure can be calculated from Gekkold Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

(4) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans

(5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

(6) Data referred to Inlet/Outlet water temperature = +22/15 °C, ambient temperature = +35°C

**Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps



Gekko AIR DF series

Freecooling liquid chillers, screw compressors

EC fans

IP54 protection rating

Suitable for OUTDOOR installation



Technical Data Tables

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Air cooled liquid chillers AIR DF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser and OPTIMIZED freecooling coil with copper tubes and aluminium fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency. Inbuilt water storage tank and single pump P3 as option. Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M2 = standard configuration, with EC fans, with economizer and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	663/F4**	683/F6	773/F6	793/F8	863/F8	873/F10	883/F10	893/F12
NOMINAL COOLING CAPACITY (1)	ECO M2 (3)	kW	242	286	362	490	531	615	680	768
TOTAL NOMINAL ABSORBED POWER (1)		kW	65.20	67.20	96.96	122.26	139.96	150.96	181.44	198.60
EER (1)		kW/kW	3.28	3.59	3.30	3.52	3.39	3.58	3.35	3.42
NOMINAL WATER FLOW		m3/h	41.54	49.25	62.31	84.26	91.38	105.82	116.90	132.13
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	-1.30	0.70	-1.22	-1.35	-2.20	-1.00	-2.00	-1.30
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	28	58	79	72	57	67	52	75
FREE COOLING MODE PRESSURE DROPS (5)		kPa	103	102	149	132	126	136	133	131
HYDRAULIC SECTION										
WATER FLOW RANGE (7)		m3/h	30+80	30+80	44+88	54+108	64+129	75+149	83+166	79+159
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	10.2	10.2	16.2	16.2	24.9	24.9	24.9	24.9
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	17.4	17.4	26.6	26.6	42.2	42.2	42.2	42.2
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	19.9	19.9	19.9	31.9	39.1	39.1	39.1	NA
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	32.7	32.7	32.7	53.5	65.6	65.6	65.6	NA
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	100	100	100	125	125	150	150	150
FAN SECTION (AXIAL)										
FANS		nr.	4	6	6	8	8	10	10	12
CONDENSER COILS		nr.	4	6	6	8	8	10	10	12
MAXIMUM FANS ABSORBED POWER	EC	kW	8.44	12.66	12.66	16.88	16.88	21.10	21.70	26.04
MAXIMUM FANS ABSORBED CURRENT		A	14.08	21.12	21.12	28.16	28.16	35.20	35.80	42.96
TOTAL AIR FLOW		m3/h	70984	106476	106476	141968	141968	177460	177460	212952
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)		A	147.6	195.4	271.4	355.2	341.2	403.0	431.0	474.8
MAXIMUM PEAK CURRENT (L.R.A) (7)		A	436.8	543.7	666.7	929.6	904.6	1074.5	1234.5	1343.4
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (7)		A	369.2	461.5	569.7	792.4	769.6	914.3	1045.9	1138.8
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)		dB(A)	63.5	64.9	64.9	65.3	68.1	69.5	68.5	69.0
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (7) (8)		dB(A)	61.0	62.5	62.5	63.4	65.0	66.2	65.6	66.2
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (7) (8)		dB(A)	59.3	60.8	60.8	61.4	63.7	65.0	64.2	64.7
DIMENSIONS AND WEIGHT										
LENGTH		mm	2910	4600	4600	5900	5900	7200	7200	8500
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (7)		kg	3050	3200	4000	4300	4500	5250	5400	6300
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (7)		kg	3150	3330	4150	4470	4700	5500	5650	6580

The manufacturer reserves the right to modify specifications without notice.

Last update: 03/05/2022
Revision: 00-2022

Data referred to:

- (1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
- (6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (7) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans
- (8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

**Model 663-693 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

Air cooled liquid chillers AIR DF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser and OPTIMIZED freecooling coil with copper tubes and aluminium fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency. Inbuilt water storage tank and single pump P3 as option. Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M2 = standard configuration, with EC fans, with economizer and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	963/F14	973/F14	983/F16	993/F16	9103/F18	9113/F18	973/F24***	983/F24***
NOMINAL COOLING CAPACITY (1)	ECO M2 (3)	kW	912	1029	1185	1306	1410	1509	1546	1730
TOTAL NOMINAL ABSORBED POWER (1)		kW	236.00	268.00	320.00	368.00	412.96	454.00	381.96	480.66
EER (1)		kW/kW	3.42	3.45	3.34	3.24	3.12	3.06	3.56	3.25
NOMINAL WATER FLOW		m3/h	156.86	177.03	203.74	224.70	242.51	259.52	265.85	297.63
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	-1.50	-2.80	-2.80	-4.00	-3.50	-4.40	-6.00	-6.80
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	81	78	87	84	97	110	90	112
FREE COOLING MODE PRESSURE DROPS (5)		kPa	139	148	158	165	176	199	143	172
HYDRAULIC SECTION										
WATER FLOW RANGE (7)		m3/h	102+203	117+233	147+295	150+300	150+300	150+300	155+320	160+325
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	NA	NA	NA	NA	NA	NA	NA	NA
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	NA	NA	NA	NA	NA	NA	NA	NA
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	200	200	200	200	200	200
FAN SECTION (AXIAL)										
FANS		nr.	14	14	16	16	18	18	24	24
CONDENSER COIL		nr.	14	14	16	16	18	18	12	12
MAXIMUM FANS ABSORBED POWER	EC	kW	30.38	30.38	34.72	34.72	39.06	39.06	51.60	51.60
MAXIMUM FANS ABSORBED CURRENT		A	50.12	50.12	57.28	57.28	64.44	64.44	85.44	85.44
TOTAL AIR FLOW		m3/h	248444	248444	283936	283936	319428	319428	412608	412608
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)		A	614.6	674.6	702.4	782.4	896.2	1024.2	1023.6	1053.6
MAXIMUM PEAK CURRENT (L.R.A) (7)		A	1796.3	1914.3	2320.2	2558.2	3127.1	3582.1	2243.8	2655.8
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (7)		A	1523.5	1625.9	1949.6	2152.4	2623.1	3008.1	1955.4	2285.2
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)		dB(A)	69.9	70.1	70.9	71.6	72.3	72.8	71.3	72.1
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (7) (8)		dB(A)	67.0	67.1	67.8	68.3	69.0	69.3	67.7	68.3
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (7) (8)		dB(A)	65.6	65.7	66.5	67.1	67.8	68.3	66.7	67.4
DIMENSIONS AND WEIGHT										
LENGTH		mm	9800	9800	11100	11100	12790	12790	12880	12880
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (7)		kg	7100	7250	8000	9200	9400	10100	11300	11600
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (7)		kg	7400	7600	8350	9600	9800	10500	11800	12100

The manufacturer reserves the right to modify specifications without notice.

Last update: 03/05/2022
Revision: 00-2022

Data referred to:

- Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C
- Available pressure can be calculated from Gekkold Online Selection Software
- SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- Pressure drops taken in account: evaporator, valves, piping
- Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
- Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans
- Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

**Model 663-693 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

Air cooled liquid chillers AIR DF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser and OPTIMIZED freecooling coil with copper tubes and aluminium fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency. Inbuilt water storage tank and single pump P3 as option. Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M1 = standard configuration, with EC fans, with economizer and oversized compressor motor size

NE.M1 = chiller without economizer, with EC fans and oversized compressor motor size

M1

TECHNICAL DATA

PERFORMANCES		Model	663/F4**	683/F6	773/F6	793/F8	863/F8	873/F10	883/F10	893/F12	
NOMINAL COOLING CAPACITY (1)	ECO.M1 (3)	kW	242	-	365	489	536	613	665	767	
		TOTAL NOMINAL ABSORBED POWER (1)	kW	64.54	-	96.42	127.76	145.18	157.12	184.78	200.92
		EER (1)	kW/kW	3.31	-	3.34	3.38	3.31	3.44	3.22	3.38
		NOMINAL WATER FLOW	m3/h	41.54	-	62.70	84.07	92.18	105.43	114.33	131.93
		AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C	-1.26	-	-1.26	-1.35	-2.26	-1.39	-2.20	-1.80
		MECHANICAL MODE PRESSURE DROPS (4) (6) (7)	kPa	28	-	80	72	58	67	51	74
FREE COOLING MODE PRESSURE DROPS (5)	kPa	92	-	140	133	127	134	127	129		
NOMINAL COOLING CAPACITY (9)	NE.M1 (3)	kW	284	-	437	582	610	719	771	906	
		TOTAL NOMINAL ABSORBED POWER (9)	kW	64.8	-	99.1	129.6	141.8	157.7	182.0	203.8
		EER (9)	kW/kW	3.88	-	3.91	3.97	3.84	4.02	3.78	3.94
		NOMINAL WATER FLOW (9)	m3/h	34.90	-	53.70	71.50	74.90	88.30	94.70	111.30
		AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C	5.00	-	4.83	4.80	4.23	5.00	4.15	4.39
		MECHANICAL MODE PRESSURE DROPS (4) (6) (7)	kPa	21	-	77	71	54	64	50	54
FREE COOLING MODE PRESSURE DROPS (5)	kPa	91	-	146	139	127	135	130	119		
HYDRAULIC SECTION											
WATER FLOW RANGE (7)		m3/h	30+80	-	43+86	52+103	52+103	72+144	79+158	82+163	
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	10.2	-	16.2	16.2	24.9	24.9	24.9	24.9	
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	17.4	-	26.6	26.6	42.2	42.2	42.2	42.2	
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	19.9	-	19.9	31.9	39.1	39.1	39.1	NA	
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	32.7	-	32.7	53.5	65.6	65.6	65.6	NA	
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	100	-	100	125	125	150	150	150	
FAN SECTION (AXIAL)											
FANS		nr.	4	-	6	8	8	10	10	12	
CONDENSER COIL		nr.	4	-	6	8	8	10	10	12	
MAXIMUM FANS ABSORBED POWER	EC	kW	8.44	-	12.66	16.88	16.88	21.10	21.70	26.04	
MAXIMUM FANS ABSORBED CURRENT		A	14.08	-	21.12	28.16	28.16	35.20	35.80	42.96	
TOTAL AIR FLOW		m3/h	70984	-	106476	141968	141968	177460	177460	212952	
TOTAL ELECTRIC DATA											
MAXIMUM ABSORBED CURRENT (F.L.A) (7)		A	231.6	-	347.4	391.2	463.2	531.0	559.0	666.8	
MAXIMUM PEAK CURRENT (L.R.A) (7)		A	666.8	-	925.7	1150.6	1258.6	1384.5	1493.5	1638.4	
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (7)		A	565.2	-	788.5	973.2	1070.0	1179.9	1270.7	1402.2	
NOISE DATA											
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)		dB(A)	65.0	-	64.8	69.3	68.3	68.8	69.6	69.9	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (7) (8)		dB(A)	61.9	-	62.5	65.8	65.1	65.8	66.3	66.8	
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (7) (8)		dB(A)	60.6	-	60.7	64.8	63.8	64.4	65.1	65.5	
DIMENSIONS AND WEIGHT											
LENGTH		mm	2910	-	4600	5900	5900	7200	7200	8500	
WIDTH		mm	2210	-	2210	2210	2210	2210	2210	2210	
HEIGHT		mm	2500	-	2500	2500	2500	2500	2500	2500	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (7)		kg	3050	-	4000	4300	4500	5250	5400	6300	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (7)		kg	3150	-	4150	4470	4700	5500	5650	6580	

The manufacturer reserves the right to modify specifications without notice.

Last update: 03/05/2022
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Data referred to:

(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C

(2) Available pressure can be calculated from Gekkold Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

(4) Pressure drops taken in account: evaporator, valves, piping

(5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil

(6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change

(7) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans

(8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

(9) Data referred to Inlet/Outlet water temperature = +22/15 °C, ambient temperature = +35°C

**Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

Air cooled liquid chillers AIR DF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser and OPTIMIZED freecooling coil with copper tubes and aluminium fins. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps and EC FANS. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency. Inbuilt water storage tank and single pump P3 as option. Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M1 = standard configuration, with EC fans, with economizer and oversized compressor motor size

NE.M1 = chiller without economizer, with EC fans and oversized compressor motor size

M1

TECHNICAL DATA

PERFORMANCES		Model	963/F14	973/F14	983/F16	993/F16	9103/F18	9113/F18	973/F24***	983/F24***	
NOMINAL COOLING CAPACITY (1)	ECO.M1 (3)	kW	906	1011	1165	1301	1410	-	1546	1708	
		TOTAL NOMINAL ABSORBED POWER (1)	kW	235.14	275.34	313.32	364.14	416.48	-	396.33	466.05
		EER (1)	kW/kW	3.41	3.31	3.35	3.26	3.10	-	3.45	3.30
		NOMINAL WATER FLOW	m ³ /h	155.87	173.87	200.37	223.71	242.51	-	265.85	293.76
		AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C	-1.95	-3.10	-3.20	-4.52	-3.50	-	-4.90	-6.60
		MECHANICAL MODE PRESSURE DROPS (4) (6) (7)	kPa	80	75	85	83	97	-	90	109
FREE COOLING MODE PRESSURE DROPS (5)	kPa	137	141	153	163	176	-	141	169		
NOMINAL COOLING CAPACITY (9)	NE.M1 (3)	kW	1053	1175	1362	1518	1663	-	1781	1989	
		TOTAL NOMINAL ABSORBED POWER (9)	kW	233.0	280.0	314.0	372.0	428.0	-	401.0	471.0
		EER (9)	kW/kW	4.00	3.79	3.91	3.73	3.56	-	3.94	3.81
		NOMINAL WATER FLOW (9)	m ³ /h	129.40	144.40	167.30	186.50	204.30	-	218.80	244.40
		AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY	°C	4.39	3.05	2.87	1.26	2.30	-	0.90	0.00
		MECHANICAL MODE PRESSURE DROPS (4) (6) (7)	kPa	71	53	77	76	90	-	63	77
FREE COOLING MODE PRESSURE DROPS (5)	kPa	143	129	156	170	183	-	118	141		
HYDRAULIC SECTION											
WATER FLOW RANGE (7)		m ³ /h	108+195	108+195	123+247	144+287	154+307	-	185+370	185+370	
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	0.0	0.0	0.0	0.0	0.0	-	0.0	0.0	
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	NA	NA	NA	NA	NA	-	NA	NA	
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	NA	NA	NA	NA	NA	-	NA	NA	
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	200	200	200	-	200	200	
FAN SECTION (AXIAL)											
FANS		nr.	14	14	16	16	18	-	24	24	
CONDENSER COIL		nr.	14	14	16	16	18	-	12	12	
MAXIMUM FANS ABSORBED POWER	EC	kW	30.38	30.38	34.72	34.72	39.06	-	51.60	51.60	
MAXIMUM FANS ABSORBED CURRENT		A	50.12	50.12	57.28	57.28	64.44	-	85.44	85.44	
TOTAL AIR FLOW		m ³ /h	248444	248444	283936	283936	319428	-	412608	412608	
TOTAL ELECTRIC DATA											
MAXIMUM ABSORBED CURRENT (F.L.A) (7)		A	794.6	894.6	962.4	962.4	1202.2	-	1353.6	1443.6	
MAXIMUM PEAK CURRENT (L.R.A) (7)		A	2374.3	2641.3	3171.2	3171.2	3705.1	-	3080.8	3636.8	
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (7)		A	2003.7	2235.5	2667.2	2667.2	3131.1	-	2675.0	3132.8	
NOISE DATA											
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)		dB(A)	70.8	71.5	72.2	72.2	72.8	-	72.8	73.6	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (7) (8)		dB(A)	67.5	68.0	68.7	68.7	69.3	-	68.9	69.4	
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (7) (8)		dB(A)	66.3	67.0	67.7	67.7	68.3	-	68.2	68.8	
DIMENSIONS AND WEIGHT											
LENGTH		mm	9800	9800	11100	11100	12790	-	12880	12880	
WIDTH		mm	2210	2210	2210	2210	2210	-	2210	2210	
HEIGHT		mm	2500	2500	2500	2500	2500	-	2500	2500	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (7)		kg	7100	7250	8000	9200	9400	-	11300	11600	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (7)		kg	7400	7600	8350	9600	9800	-	11800	12100	

The manufacturer reserves the right to modify specifications without notice.

Last update: 03/05/2022
Revision: 00-2022

Data referred to:

(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C

(2) Available pressure can be calculated from Gekkold Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

(4) Pressure drops taken in account: evaporator, valves, piping

(5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil

(6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change

(7) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans

(8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

(9) Data referred to Inlet/Outlet water temperature = +22/15 °C, ambient temperature = +35°C

***Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

Gekkold



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Industrial Chiller Supplier

Gekko AIR N series

Air-Cooled liquid Chillers, screw compressors

AC axial fans

IP54 protection rating

Suitable for OUTDOOR installation



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Air cooled liquid chillers **AIR N series**, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins and axial fans. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Water storage tank NOT available.
 Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M2 = standard configuration, with AC fans with cut phase regulation, with economizer and standard compressor motor size
 HE.M2 = high efficiency configuration with EC fans, optimized coil design, with economizer and standard compressor motor size
 NE.M2 = chiller without economizer, with AC fans with cut phase regulation and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	663/F4**	693/F4**	783/F6	793/F6	863/F6	873/F8	883/F8	893/F10		
NOMINAL COOLING CAPACITY (1)	ECO.M2 (3)	kW	240	295	428	471	517	598	656	748		
		TOTAL NOMINAL ABSORBED POWER (1)	kW	63,76	84,30	118,24	138,20	156,00	166,00	199,00	213,00	
		EER (1)	kW/kW	3,40	3,24	3,34	3,18	3,11	3,32	3,08	3,25	
NOMINAL WATER FLOW		m3/h	41,20	50,70	73,70	80,90	89,00	102,00	112,80	128,00		
EVAPORATOR PRESSURE DROP		kPa	21	25	43	58	68	62	49	63		
NOMINAL COOLING CAPACITY (1)		NE.M2 (3)	kW	213	263	381	422	449	533	576	672	
			TOTAL NOMINAL ABSORBED POWER (1)	kW	56,0	74,0	103,0	121,0	131,0	146,0	170,0	187,0
			EER (1)	kW/kW	3,40	3,27	3,38	3,21	3,17	3,35	3,15	3,30
NOMINAL WATER FLOW			m3/h	36,60	45,20	65,00	72,00	77,00	92,00	99,00	115,00	
EVAPORATOR PRESSURE DROP	kPa		18	18	46	48	53	51	56	52		
NOMINAL COOLING CAPACITY (1)	HE.M2 (3)		kW	244	304	439	483	526	614	676	767	
			TOTAL NOMINAL ABSORBED POWER (1)	kW	60,4	78,9	110,9	129,4	148,0	155,0	184,0	199,0
			EER (1)	kW/kW	3,56	3,47	3,57	3,41	3,28	3,58	3,37	3,49
NOMINAL WATER FLOW			m3/h	42,00	52,20	75,00	83,00	90,50	105,60	116,00	131,00	
EVAPORATOR PRESSURE DROP		kPa	21	26	44	60	70	65	51	66		
HYDRAULIC SECTION												
WATER FLOW RANGE		m3/h	30÷80	30÷80	43÷86	52÷103	52÷103	72÷144	79÷158	82÷163		
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)		P3 (2)	kW	8,3	8,3	10,2	10,2	16,2	16,2	16,2	16,2	
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)			A	14,1	14,1	17,4	17,4	26,6	26,6	26,6	26,6	
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,2	16,2	24,9	24,9	31,9	31,9	31,9	31,9		
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,6	26,6	42,4	42,4	53,5	53,5	53,5	53,5		
HYDRAULIC CONNECTIONS (VICTAULIC)	DN	100	100	100	125	125	150	150	150			
FAN SECTION (AXIAL)												
FANS	nr.	4	4	6	6	6	8	8	10			
MAXIMUM FANS ABSORBED POWER	AC	kW	7,76	7,76	11,64	11,64	11,64	15,52	15,52	19,40		
MAXIMUM FANS ABSORBED CURRENT		A	15,60	15,60	23,40	23,40	23,40	31,20	31,20	39,00		
TOTAL AIR FLOW		m3/h	71651	71651	107476	107476	104378	143302	143302	179127		
MAXIMUM FANS ABSORBED POWER	EC	kW	10,24	10,24	15,36	15,36	15,36	20,48	20,48	25,60		
MAXIMUM FANS ABSORBED CURRENT		A	15,60	15,60	23,40	23,40	23,40	31,20	31,20	39,00		
TOTAL AIR FLOW		m3/h	81515	81515	122272	122272	122272	163030	163030	203787		
TOTAL ELECTRIC DATA												
MAXIMUM ABSORBED CURRENT (F.L.A) (4)	A	147,6	231,6	311,4	347,4	333,4	395,2	423,2	467,0			
MAXIMUM PEAK CURRENT (L.R.A) (4)	A	437,0	676,0	797,0	926,0	901,0	1014,2	1231,0	1340,0			
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)	A	369,0	574,0	680,0	789,0	766,0	910,0	1042,0	1135,0			
NOISE DATA												
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)	dB(A)	63,8	65,6	64,3	64,1	67,5	68,6	67,7	68,1			
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (4) (5)	dB(A)	61,5	63,0	61,4	61,3	63,6	64,1	63,8	64,4			
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (4) (5)	dB(A)	59,7	61,4	60,0	59,8	62,9	63,8	63,0	63,4			
DIMENSIONS AND WEIGHT												
LENGTH	mm	3100	3100	4050	4050	4050	5000	5000	5950			
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210			
HEIGHT	mm	2500	2500	2500	2500	2500	2500	2500	2500			
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)	kg	3050	3200	4000	4300	4500	5250	5400	6300			
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)	kg	3150	3330	4150	4470	4700	5500	5650	6580			

The manufacturer reserves the right to modify specifications without notice.

Last update: 01/04/2021
 Revision: 00-2021

Data referred to:

- (1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans
- (5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

**Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps



Air cooled liquid chillers **AIR N series**, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins and axial fans. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Water storage tank NOT available.
 Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M2 = standard configuration, with AC fans with cut phase regulation, with economizer and standard compressor motor size
 HE.M2 = high efficiency configuration with EC fans, optimized coil design, with economizer and standard compressor motor size
 NE.M2 = chiller without economizer, with AC fans with cut phase regulation and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	963/F12	973/F12	983/F14	993/F18	9103/F18	9113/F20	983/F24***	993/F24***	
NOMINAL COOLING CAPACITY (1)	ECO.M2 (3)	kW	896	973	1130	1314	1408	1526	1695	1851	
		TOTAL NOMINAL ABSORBED POWER (1)	kW	246,00	279,00	326,00	365,00	414,00	445,00	321,00	363,00
		EER (1)	kW/kW	3,35	3,24	3,22	3,32	3,16	3,18	4,68	4,57
		NOMINAL WATER FLOW	m3/h	154,00	167,00	194,00	226,00	242,00	262,00	291,00	318,00
EVAPORATOR PRESSURE DROP		kPa	68	65	68	79	85	95	67	79	
NOMINAL COOLING CAPACITY (1)	NE.M2 (3)	kW	802	874	1016	1195	1283	1399	1527	1680	
		TOTAL NOMINAL ABSORBED POWER (1)	kW	216,0	247,0	288,0	330,0	374,0	406,0	429,0	491,0
		EER (1)	kW/kW	3,39	3,27	3,26	3,31	3,17	3,18	3,25	3,16
		NOMINAL WATER FLOW	m3/h	137,00	150,00	174,80	205,60	220,00	240,00	262,00	288,00
EVAPORATOR PRESSURE DROP		kPa	56	54	57	66	72	81	56	66	
NOMINAL COOLING CAPACITY (1)	HE.M2 (3)	kW	921	1004	1163	1358	1442	1566	1744	1891	
		TOTAL NOMINAL ABSORBED POWER (1)	kW	231,0	262,0	307,0	338,0	397,0	423,0	302,0	347,0
		EER (1)	kW/kW	3,58	3,48	3,45	3,60	3,31	3,36	4,96	4,77
		NOMINAL WATER FLOW	m3/h	158,00	172,00	200,00	233,00	248,00	269,00	300,00	325,00
EVAPORATOR PRESSURE DROP		kPa	71	68	72	83	89	99	71	82	
HYDRAULIC SECTION											
WATER FLOW RANGE		m3/h	108÷195	108÷195	123÷247	144÷287	154÷307	167÷333	185÷370	185÷370	
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	23,5	23,5	23,5	NA for this cabinet size, please refer to Gekkold hydro module series					
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	39,0	39,0	39,0	HYD					
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,1	39,1	39,1	NA for this cabinet size, please refer to Gekkold hydro module series					
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65,6	65,6	65,6	HYD					
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	200	200	200	200	250	250	
FAN SECTION (AXIAL)											
FANS		nr.	12	12	14	18	18	20	24	24	
MAXIMUM FANS ABSORBED POWER	AC	kW	23,28	23,28	27,16	34,92	34,92	38,80	46,56	46,56	
MAXIMUM FANS ABSORBED CURRENT		A	46,80	46,80	54,60	70,20	70,20	78,00	93,60	93,60	
TOTAL AIR FLOW		m3/h	199461	199461	232704	299191	285249	332435	420610	402020	
MAXIMUM FANS ABSORBED POWER	EC	kW	30,72	30,72	35,84	46,08	46,08	51,20	61,44	61,44	
MAXIMUM FANS ABSORBED CURRENT		A	46,80	46,80	54,60	70,20	70,20	78,00	93,60	93,60	
TOTAL AIR FLOW		m3/h	226261	226261	263971	339391	339391	377101	475792	475792	
TOTAL ELECTRIC DATA											
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	606,8	666,8	694,6	790,2	896,2	1032,0	1053,6	1173,6	
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	1792,0	1910,0	2316,0	2562,0	3127,0	3586,0	2656,0	2934,0	
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	1520,0	1622,0	1946,0	2156,0	2623,0	3012,0	2285,0	2528,0	
NOISE DATA											
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	68,7	69,3	70,1	70,9	71,6	72,2	72,1	72,9	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (4) (5)		dB(A)	64,3	65,7	66,0	66,6	67,3	67,8	68,7	69,0	
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (4) (5)		dB(A)	63,9	64,6	65,3	66,1	66,8	67,4	67,5	68,2	
DIMENSIONS AND WEIGHT											
LENGTH		mm	6900	6900	7850	9750	9750	10700	13140	13140	
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210	
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	7100	7250	8000	9200	9400	10100	11300	11600	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	7400	7600	8350	9600	9800	10500	11800	12100	

The manufacturer reserves the right to modify specifications without notice.

Last update: 01/04/2021
 Revision: 00-2021

Data referred to:

- (1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans
- (5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

***Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps



Air cooled liquid chillers **AIR N series**, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins and axial fans. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Water storage tank NOT available.
 Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M1 = standard configuration, with AC fans with cut phase regulation, with economizer and oversized compressor motor size

HE.M1 = high efficiency configuration with EC fans, optimized coil design, with economizer and oversized compressor motor size

NE.M1 = chiller without economizer, with AC fans with cut phase regulation and oversized compressor motor size

M1

TECHNICAL DATA

PERFORMANCES		Model	663/F4**	693/F4**	783/F6	793/F6	863/F6	873/F8	883/F8	893/F10	
NOMINAL COOLING CAPACITY (1)	ECO.M1 (3)	kW	217	-	388	423	467	541	584	685	
		TOTAL NOMINAL ABSORBED POWER (1)	kW	79,52	-	149,20	174,00	199,50	212,50	251,40	266,00
		EER (1)	kW/kW	2,48	-	2,41	2,28	2,21	2,37	2,19	2,40
NOMINAL WATER FLOW	ECO.M1 (3)	m3/h	37,26	-	66,60	72,61	80,33	93,06	100,42	117,00	
EVAPORATOR PRESSURE DROP		kPa	13	-	53	43	52	47	53	49	
NOMINAL COOLING CAPACITY (6)		kW	283	-	494	542	577	683	731	875	
TOTAL NOMINAL ABSORBED POWER (6)	NE.M1 (3)	kW	63,0	-	120,0	140,8	152,2	168,7	195,8	214,0	
EER (6)		kW/kW	4,00	-	3,75	3,56	3,52	3,71	3,46	3,75	
NOMINAL WATER FLOW		m3/h	34,72	-	60,80	66,71	71,10	84,00	90,00	107,60	
EVAPORATOR PRESSURE DROP	NE.M1 (3)	kPa	11	-	43	51	40	56	42	40	
NOMINAL COOLING CAPACITY (1)		kW	223	-	401	438	481	560	605	706	
TOTAL NOMINAL ABSORBED POWER (1)		kW	75,4	-	140,0	162,0	188,0	199,5	232,0	248,5	
EER (1)	HE.M1 (3)	kW/kW	2,68	-	2,64	2,52	2,41	2,60	2,44	2,64	
NOMINAL WATER FLOW		m3/h	38,29	-	68,83	75,16	82,00	96,30	103,80	121,00	
EVAPORATOR PRESSURE DROP		kPa	13	-	56	46	55	50	57	52	
HYDRAULIC SECTION											
WATER FLOW RANGE		m3/h	30-80	-	43-86	52-103	52-103	72-144	79-158	82-163	
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	8,3	-	10,2	10,2	16,2	16,2	16,2	16,2	
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	14,1	-	17,4	17,4	26,6	26,6	26,6	26,6	
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,2	-	24,9	24,9	31,9	31,9	31,9	31,9	
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,6	-	42,4	42,4	53,5	53,5	53,5	53,5	
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	100	-	100	125	125	150	150	150	
FAN SECTION (AXIAL)											
FANS		nr.	4	-	6	6	6	8	8	10	
MAXIMUM FANS ABSORBED POWER	AC	kW	7,76	-	11,64	11,64	11,64	15,52	15,52	19,40	
MAXIMUM FANS ABSORBED CURRENT		A	15,60	-	23,40	23,40	23,40	31,20	31,20	39,00	
TOTAL AIR FLOW		m3/h	71651	-	107476	107476	104378	143302	143302	179127	
MAXIMUM FANS ABSORBED POWER	EC	kW	10,24	-	15,36	15,36	15,36	20,48	20,48	25,60	
MAXIMUM FANS ABSORBED CURRENT		A	15,60	-	23,40	23,40	23,40	31,20	31,20	39,00	
TOTAL AIR FLOW		m3/h	81515	-	122272	122272	122272	163030	163030	203787	
TOTAL ELECTRIC DATA											
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	232,0	-	360,0	383,0	455,0	523,0	551,0	659,0	
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	667,0	-	1040,0	1147,0	1255,0	1381,0	1490,0	1635,0	
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	565,0	-	882,0	969,0	1066,0	1176,0	1267,0	1398,0	
NOISE DATA											
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	64,9	-	68,9	69,0	67,7	68,1	69,0	69,1	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (4) (5)		dB(A)	61,8	-	64,7	65,0	63,8	64,1	64,8	64,9	
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (4) (5)		dB(A)	60,5	-	64,1	64,3	63,0	63,4	64,2	64,4	
DIMENSIONS AND WEIGHT											
LENGTH		mm	3100	-	4050	4050	4050	5000	5000	5950	
WIDTH		mm	2210	-	2210	2210	2210	2210	2210	2210	
HEIGHT		mm	2500	-	2500	2500	2500	2500	2500	2500	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	3050	-	4000	4300	4500	5250	5400	6300	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	3150	-	4150	4470	4700	5500	5650	6580	

The manufacturer reserves the right to modify specifications without notice.

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 Revision: 00-2021

Data referred to:

(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +45°C

(2) Available pressure can be calculated from Gekkold Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

(4) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans

(5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

(6) Data referred to Inlet/Outlet water temperature = +22/15 °C, ambient temperature = +35°C

**Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

Air cooled liquid chillers **AIR N series**, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins and axial fans. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Water storage tank NOT available.
Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M1 = standard configuration, with AC fans with cut phase regulation, with economizer and oversized compressor motor size
HE.M1 = high efficiency configuration with EC fans, optimized coil design, with economizer and oversized compressor motor size
NE.M1 = chiller without economizer, with AC fans with cut phase regulation and oversized compressor motor size

M1

TECHNICAL DATA

PERFORMANCES		Model	963/F12	973/F12	983/F14	993/F18	9103/F18	9113/F20	983/F24***	993/F24***	
NOMINAL COOLING CAPACITY (1)	ECO.M1 (3)	kW	796	857	991	1169	1236	-	1534	1694	
		TOTAL NOMINAL ABSORBED POWER (1)	kW	300,00	344,80	385,20	434,00	502,00	-	567,00	645,00
		EER (1)	kW/kW	2,46	2,33	2,40	2,49	2,30	-	2,50	2,45
NOMINAL WATER FLOW	ECO.M1 (3)	m ³ /h	136,70	147,00	170,00	200,00	212,00	-	256,00	283,00	
EVAPORATOR PRESSURE DROP		kPa	50	47	49	59	63	-	49	59	
NOMINAL COOLING CAPACITY (6)		kW	1031	1112	1294	1543	1655	-	2003	2193	
TOTAL NOMINAL ABSORBED POWER (6)	NE.M1 (3)	kW	238,0	282,0	316,0	364,8	431,6	-	468,0	540,0	
EER (6)		kW/kW	3,95	3,64	3,77	3,86	3,55	-	3,89	3,74	
NOMINAL WATER FLOW		m ³ /h	126,70	136,80	159,00	190,00	203,00	-	240,00	262,00	
EVAPORATOR PRESSURE DROP	NE.M1 (3)	kPa	61	51	43	52	84	-	59	50	
NOMINAL COOLING CAPACITY (1)		kW	822	888	1029	1224	1279	-	1591	1741	
TOTAL NOMINAL ABSORBED POWER (1)		kW	298,0	325,6	364,4	404,0	480,0	-	538,8	618,0	
EER (1)	HE.M1 (3)	kW/kW	2,56	2,55	2,63	2,79	2,48	-	2,72	2,62	
NOMINAL WATER FLOW		m ³ /h	141,30	152,00	176,00	210,00	219,00	-	266,00	291,00	
EVAPORATOR PRESSURE DROP		kPa	53	50	53	64	67	-	53	62	
HYDRAULIC SECTION											
WATER FLOW RANGE		m ³ /h	108÷195	108÷195	123÷247	144÷287	154÷307	-	185÷370	185÷370	
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	23,5	23,5	23,5	NA for this cabinet size, please refer to Gekkold hydro module series					
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	39,0	39,0	39,0	HYD					
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,1	39,1	39,1	NA for this cabinet size, please refer to Gekkold hydro module series					
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65,6	65,6	65,6	HYD					
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	200	200	200	-	250	250	
FAN SECTION (AXIAL)											
FANS		nr.	12	12	14	18	18	-	24	24	
MAXIMUM FANS ABSORBED POWER	AC	kW	23,28	23,28	27,16	34,92	34,92	-	46,56	46,56	
MAXIMUM FANS ABSORBED CURRENT		A	46,80	46,80	54,60	70,20	70,20	-	93,60	93,60	
TOTAL AIR FLOW		m ³ /h	199461	199461	232704	299191	285249	-	420610	402020	
MAXIMUM FANS ABSORBED POWER	EC	kW	30,72	30,72	35,84	46,08	46,08	-	61,44	61,44	
MAXIMUM FANS ABSORBED CURRENT		A	46,80	46,80	54,60	70,20	70,20	-	93,60	93,60	
TOTAL AIR FLOW		m ³ /h	226261	226261	263971	339391	339391	-	475792	475792	
TOTAL ELECTRIC DATA											
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	787,0	887,0	955,0	970,0	1202,0	-	1444,0	1444,0	
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	2370,0	2637,0	3157,0	3175,0	3705,0	-	3637,0	3637,0	
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	2000,0	2232,0	2663,0	2671,0	3131,0	-	3133,0	3133,0	
NOISE DATA											
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	70,1	70,9	71,6	71,6	72,2	-	73,6	73,6	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (4) (5)		dB(A)	66,0	66,6	67,3	67,3	67,8	-	69,5	69,5	
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (4) (5)		dB(A)	65,3	66,1	66,8	66,8	67,4	-	68,9	68,9	
DIMENSIONS AND WEIGHT											
LENGTH		mm	6900	6900	7850	9750	9750	-	13140	13140	
WIDTH		mm	2210	2210	2210	2210	2210	-	2210	2210	
HEIGHT		mm	2450	2450	2450	2450	2450	-	2450	2450	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	7100	7250	8000	9200	9400	-	11300	11600	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	7400	7600	8350	9600	9800	-	11800	12100	

The manufacturer reserves the right to modify specifications without notice.

Last update: 01/04/2021
Revision: 00-2021

Data referred to:

- (1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +45°C
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans
- (5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.
- (6) Data referred to Inlet/Outlet water temperature = +22/15 °C, ambient temperature = +35°C

**Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

Air cooled liquid chillers **AIR N series**, screw compressors R1234ze, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins and axial fans. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Water storage tank NOT available.
Special design with exception to above description is available for ** and *** marked models: refer to notes.

Available Models configuration:

ECO.M2 = standard configuration, with AC fans with cut phase regulation, with economizer and standard compressor motor size

HE.M2 = high efficiency configuration with EC fans, optimized coil design, with economizer and standard compressor motor size

NE.M2 = chiller without economizer, with AC fans with cut phase regulation and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	663/F4**	693/F4**	783/F6	793/F6	863/F6	873/F8	883/F8	893/F10		
NOMINAL COOLING CAPACITY (1)	ECO.M2 (3)	kW	154	231	334	369	404	467	516	585		
		TOTAL NOMINAL ABSORBED POWER (1)	kW	35,80	58,98	82,40	96,20	106,00	115,00	136,00	146,80	
		EER (1)	kW/kW	3,54	3,46	3,55	3,42	3,43	3,58	3,41	3,52	
		NOMINAL WATER FLOW	m ³ /h	26,60	39,67	57,33	63,34	69,47	80,26	88,57	100,59	
		EVAPORATOR PRESSURE DROP	kPa	25	26	47	51	51	51	42	52	
		NOMINAL COOLING CAPACITY (1)	kW	137	209	301	335	357	423	460	533	
TOTAL NOMINAL ABSORBED POWER (1)	NE.M2 (3)	kW	31,9	53,1	74,0	87,0	92,6	103,4	119,4	132,8		
		EER (1)	kW/kW	3,46	3,44	3,51	3,40	3,42	3,56	3,41	3,50	
		NOMINAL WATER FLOW	m ³ /h	23,61	35,70	51,67	57,50	61,31	72,61	78,90	91,32	
		EVAPORATOR PRESSURE DROP	kPa	30	22	40	42	40	42	34	43	
		NOMINAL COOLING CAPACITY (1)	kW	155	234	339	374	409	472	523	593	
		TOTAL NOMINAL ABSORBED POWER (1)	kW	35,2	57,2	80,3	92,8	102,0	111,6	131,2	142,0	
EER (1)	HE.M2 (3)	kW/kW	3,41	3,46	3,54	3,46	3,49	3,57	3,45	3,54		
		NOMINAL WATER FLOW	m ³ /h	26,62	39,50	58,02	64,20	70,20	81,02	89,60	101,62	
		EVAPORATOR PRESSURE DROP	kPa	25	26	48	52	52	52	43	53	
		HYDRAULIC SECTION										
		WATER FLOW RANGE	m ³ /h	25÷52	30÷61	36÷73	40÷80	42÷85	46÷94	47÷95	54÷108	
		MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	8,3	8,3	10,2	10,2	16,2	16,2	16,2	16,2
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)	A	14,1		14,1	17,4	17,4	26,6	26,6	26,6	26,6		
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,2	16,2	24,9	24,9	31,9	31,9	31,9	31,9		
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,6	26,6	42,4	42,4	53,5	53,5	53,5	53,5		
HYDRAULIC CONNECTIONS (VICTAULIC)	DN	80	100	100	100	100	100	100	125			
FAN SECTION (AXIAL)												
FANS	nr.	4	4	6	6	6	8	8	10			
MAXIMUM FANS ABSORBED POWER	AC	kW	7,76	7,76	11,64	11,64	11,64	15,52	15,52	19,40		
MAXIMUM FANS ABSORBED CURRENT		A	15,60	15,60	23,40	23,40	23,40	31,20	31,20	39,00		
TOTAL AIR FLOW		m ³ /h	71651	71651	107476	107476	104378	143302	143302	179127		
MAXIMUM FANS ABSORBED POWER	EC	kW	10,24	10,24	15,36	15,36	15,36	20,48	20,48	25,60		
MAXIMUM FANS ABSORBED CURRENT		A	15,60	15,60	23,40	23,40	23,40	31,20	31,20	39,00		
TOTAL AIR FLOW		m ³ /h	81515	81515	122272	122272	122272	163030	163030	203787		
TOTAL ELECTRIC DATA												
MAXIMUM ABSORBED CURRENT (F.L.A) (4)	A	147,6	231,6	311,4	347,4	333,4	395,2	423,2	467,0			
MAXIMUM PEAK CURRENT (L.R.A) (4)	A	437,0	676,0	797,0	926,0	901,0	1014,2	1231,0	1340,0			
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)	A	369,0	574,0	680,0	789,0	766,0	910,0	1042,0	1135,0			
NOISE DATA												
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)	dB(A)	63,8	65,6	64,3	64,1	67,5	68,6	67,7	68,1			
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)	dB(A)	61,5	63,0	61,4	61,3	63,6	64,1	63,8	64,4			
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)	dB(A)	59,7	61,4	60,0	59,8	62,9	63,8	63,0	63,4			
DIMENSIONS AND WEIGHT												
LENGTH	mm	3100	3100	4050	4050	4050	5000	5000	5950			
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210			
HEIGHT	mm	2500	2500	2500	2500	2500	2500	2500	2500			
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)	kg	3050	3200	4000	4300	4500	5250	5400	6300			
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)	kg	3150	3330	4150	4470	4700	5500	5650	6580			

The manufacturer reserves the right to modify specifications without notice.

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Data referred to:

(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C

(2) Available pressure can be calculated from Gekkold Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

(4) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans

(5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

**Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

Air cooled liquid chillers **AIR N series**, screw compressors R1234ze, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned fins and axial fans. Each model is equipped with 2 refrigerant circuits, 2 compressors each one with 50-75-100 partition steps. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable for outdoor installation. Water storage tank NOT available.
Special design with exception to above description is available for ** and * marked models: refer to notes.**

Available Models configuration:

ECO.M2 = standard configuration, with AC fans with cut phase regulation, with economizer and standard compressor motor size
 HE.M2 = high efficiency configuration with EC fans, optimized coil design, with economizer and standard compressor motor size
 NE.M2 = chiller without economizer, with AC fans with cut phase regulation and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	963/F12	973/F12	983/F14	993/F18	9103/F18	9113/F20	983/F24***	993/F24***	
NOMINAL COOLING CAPACITY (1)	ECO.M2 (3)	kW	691	759	879	1023	1104	1191	1349	1478	
		TOTAL NOMINAL ABSORBED POWER (1)	kW	169,00	193,20	224,70	249,60	278,00	302,30	222,40	250,80
		EER (1)	kW/kW	3,59	3,51	3,49	3,60	3,53	3,49	5,02	4,97
NOMINAL WATER FLOW	ECO.M2 (3)	m ³ /h	118,61	130,20	151,00	175,60	189,67	204,40	231,50	253,70	
EVAPORATOR PRESSURE DROP		kPa	48	56	63	60	61	73	61	77	
NOMINAL COOLING CAPACITY (1)		kW	626	688	799	945	1015	1105	1230	1357	
TOTAL NOMINAL ABSORBED POWER (1)	NE.M2 (3)	kW	151,6	174,8	202,0	229,7	254,0	279,6	200,6	229,9	
EER (1)		kW/kW	3,58	3,47	3,49	3,57	3,51	3,47	4,98	4,91	
NOMINAL WATER FLOW		m ³ /h	107,45	118,27	137,52	162,20	174,22	189,60	211,13	232,90	
EVAPORATOR PRESSURE DROP	HE.M2 (3)	kPa	40	46	52	52	52	64	51	66	
NOMINAL COOLING CAPACITY (1)		kW	700	770	894	1035	1122	1209	1364	1498	
TOTAL NOMINAL ABSORBED POWER (1)		kW	164,0	186,1	214,8	241,2	266,8	291,8	215,0	240,1	
EER (1)	HE.M2 (3)	kW/kW	3,59	3,55	3,57	3,60	3,59	3,52	4,93	4,97	
NOMINAL WATER FLOW		m ³ /h	119,90	132,20	153,45	177,60	192,59	207,52	234,13	257,13	
EVAPORATOR PRESSURE DROP		kPa	49	57	65	62	63	75	62	79	
HYDRAULIC SECTION											
WATER FLOW RANGE		m ³ /h	75÷150	75÷165	82÷172	122÷245	125÷250	120÷240	162÷324	165÷335	
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	23,5	23,5	23,5	NA for this cabinet size, please refer to Gekkold hydro module series					
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	39,0	39,0	39,0	HYD					
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,1	39,1	39,1	NA for this cabinet size, please refer to Gekkold hydro module series					
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65,6	65,6	65,6	HYD					
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	150	200	200	200	200	200	
FAN SECTION (AXIAL)											
FANS		nr.	12	12	14	18	18	20	24	24	
MAXIMUM FANS ABSORBED POWER	AC	kW	23,28	23,28	27,16	34,92	34,92	38,80	46,56	46,56	
MAXIMUM FANS ABSORBED CURRENT		A	46,80	46,80	54,60	70,20	70,20	78,00	93,60	93,60	
TOTAL AIR FLOW		m ³ /h	199461	199461	232704	299191	285249	332435	420610	402020	
MAXIMUM FANS ABSORBED POWER	EC	kW	30,72	30,72	35,84	46,08	46,08	51,20	61,44	61,44	
MAXIMUM FANS ABSORBED CURRENT		A	46,80	46,80	54,60	70,20	70,20	78,00	93,60	93,60	
TOTAL AIR FLOW		m ³ /h	226261	226261	263971	339391	339391	377101	475792	475792	
TOTAL ELECTRIC DATA											
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	606,8	666,8	694,6	790,2	896,2	1032,0	1053,6	1173,6	
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	1792,0	1910,0	2316,0	2562,0	3127,0	3586,0	2656,0	2934,0	
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	1520,0	1622,0	1946,0	2156,0	2623,0	3012,0	2285,0	2528,0	
NOISE DATA											
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	68,7	69,3	70,1	70,9	71,6	72,2	72,1	72,9	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (4) (5)		dB(A)	64,3	65,7	66,0	66,6	67,3	67,8	68,7	69,0	
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (4) (5)		dB(A)	63,9	64,6	65,3	66,1	66,8	67,4	67,5	68,2	
DIMENSIONS AND WEIGHT											
LENGTH		mm	6900	6900	7850	9750	9750	10700	13140	13140	
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210	
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	7100	7250	8000	9200	9400	10100	11300	11600	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	7400	7600	8350	9600	9800	10500	11800	12100	

The manufacturer reserves the right to modify specifications without notice.

Last update: 01/04/2021
 Revision: 00-2021

Data referred to:

- (1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans
- (5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

**Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

Gekkold



gekkoldprom.com

Industrial Chiller Supplier

Gekko AIR NF series

Freecooling liquid chillers, screw compressors

AC axial fans

IP54 protection rating

Suitable for OUTDOOR installation



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Freecooling chillers AIR NF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned core and axial fans Each model is equipped as standard with 2 refrigerant circuits, 2 compressors each with partition steps per compressor 50-75-100. Electrical feed 400V/3ph/50Hz.

Available Models configuration:

ECO.M2 = standard configuration, with AC fans with cut phase regulation, with economizer and standard compressor motor size

HE.M2 = high efficiency configuration with EC fans, optimized coil design, with economizer and standard compressor motor size

NE.M2 = chiller without economizer, with AC fans with cut phase regulation and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	663/F4***	683/F6	693/F6	773/F6	783/F8	793/F8	863/F8	873/F10
ECO.M2 (3)	NOMINAL COOLING CAPACITY (1)	kW	232	277	308	351	432	475	517	596
	TOTAL NOMINAL ABSORBED POWER (1)	kW	69.32	70.00	79.90	104.30	115.00	135.00	156.00	168.00
	EER (1)	kW/kW	3.04	3.44	3.40	3.05	3.34	3.18	3.04	3.21
	AIR TEMPERATURE 100% FREE COOLING (1)	°C	-1.90	0.60	-0.20	-1.40	-0.70	-1.60	-2.50	-1.90
	FREECOOLING PRESSURE DROP	kPa	89.90	110.90	142.90	151.50	132.70	141.10	136.00	137.00
	NOMINAL WATER FLOW	m ³ /h	40.00	47.00	52.90	60.30	74.00	81.70	89.00	102.50
	EVAPORATOR PRESSURE DROP	kPa	26	55	79	74	69	69	54	64
NE.M2 (3)	NOMINAL COOLING CAPACITY (1)	kW	241	286	318	366	447	494	536	620
	TOTAL NOMINAL ABSORBED POWER (1)	kW	62.8	64.9	73.3	94.7	105.8	122.0	139.0	151.0
	EER (1)	kW/kW	3.38	3.68	3.70	3.41	3.64	3.55	3.42	3.52
	AIR TEMPERATURE 100% FREE COOLING (1)	°C	-4.00	-0.90	-1.90	-3.30	-2.50	-3.60	-4.70	-3.30
	FREECOOLING PRESSURE DROP	kPa	84.60	113.30	148.90	160.10	128.70	136.30	130.80	160.80
	NOMINAL WATER FLOW	m ³ /h	41.50	49.00	54.70	63.00	77.00	85.00	92.00	106.70
	EVAPORATOR PRESSURE DROP	kPa	28	58	84	81	74	73	58	68
HE.M2 (3)	NOMINAL COOLING CAPACITY (1)	kW	203	247	277	314	386	427	449	532
	TOTAL NOMINAL ABSORBED POWER (1)	kW	59.3	61.5	71.2	91.9	101.0	119.3	131.0	146.0
	EER (1)	kW/kW	3.06	3.43	3.40	3.07	3.35	3.20	3.09	3.25
	AIR TEMPERATURE 100% FREE COOLING (1)	°C	-0.70	1.50	0.60	-0.40	0.30	-0.60	-1.00	-0.80
	FREECOOLING PRESSURE DROP	kPa	67.90	92.90	121.90	126.60	110.80	118.50	123.60	114.00
	NOMINAL WATER FLOW	m ³ /h	34.00	42.50	47.70	54.00	66.00	73.50	77.30	91.60
	EVAPORATOR PRESSURE DROP	kPa	21	45	66	61	57	56	57	52
HYDRAULIC SECTION										
WATER FLOW RANGE	m ³ /h		30+60	33+62	33+62	42+84	47+94	57+114	62+125	72+144
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	10.2	10.2	10.2	16.2	16.2	16.2	24.9	24.9
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	17.4	17.4	17.4	26.6	26.6	26.6	42.2	42.2
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	19.9	19.9	19.9	19.9	31.9	31.9	39.1	39.1
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	32.7	32.7	32.7	32.7	53.5	53.5	65.6	65.6
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	100	100	100	100	100	125	125	150
FAN SECTION (AXIAL)										
FANS		nr.	4	6	6	6	8	8	8	10
MAXIMUM FANS ABSORBED POWER	AC	kW	7.76	11.64	11.64	11.64	15.52	15.52	15.52	19.40
MAXIMUM FANS ABSORBED CURRENT		A	15.60	23.40	23.40	23.40	31.20	31.20	31.20	39.00
TOTAL AIR FLOW		m ³ /h	63389	95083	95083	95083	126778	126778	126778	158472
MAXIMUM FANS ABSORBED POWER	EC	kW	10.24	15.36	15.36	15.36	20.48	20.48	20.48	25.60
MAXIMUM FANS ABSORBED CURRENT		A	15.60	23.40	23.40	23.40	31.20	31.20	31.20	39.00
TOTAL AIR FLOW		m ³ /h	76528	114793	114793	114793	153057	153057	153057	229585
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	147.6	195.4	239.4	271.4	319.2	355.2	341.2	403.0
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	437.0	544.0	680.0	667.0	801.0	930.0	905.0	1075.0
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	369.0	462.0	578.0	570.0	684.0	792.0	770.0	910.0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	63.8	64.5	65.2	64.5	64.7	64.5	67.7	69.0
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	61.6	62.0	62.4	62.0	62.0	61.9	64.0	65.0
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	59.7	60.3	60.9	60.3	60.5	60.3	63.1	64.3
DIMENSIONS AND WEIGHT										
LENGTH		mm	3100	4050	4050	4050	5000	5000	5000	5950
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	2900	3800	3900	4050	4650	4800	4950	5500
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	3100	4150	4200	4350	5100	5300	5450	6100

The manufacturer reserves the right to modify specifications without notice.

Last update: 05/10/2021

Data referred to:

- Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C
- Available pressure can be calculated from Gekold Online Selection Software
- SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans
- Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

***Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

Freecooling chillers AIR NF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned core and axial fans Each model is equipped as standard with 2 refrigerant circuits, 2 compressors each with partition steps per compressor 50-75-100. Electrical feed 400V/3ph/50Hz.

Available Models configuration:

ECO.M2 = standard configuration, with AC fans with cut phase regulation, with economizer and standard compressor motor size

HE.M2 = high efficiency configuration with EC fans, optimized coil design, with economizer and standard compressor motor size

NE.M2 = chiller without economizer, with AC fans with cut phase regulation and standard compressor motor size

M2

TECHNICAL DATA

PERFORMANCES		Model	883/F12	893/F14	963/F16	973/F18	983/F20	993/F22	973/F24	
ECO.M2 (3)	NOMINAL COOLING CAPACITY (1)	kW	683	768	899	1025	1183	1321	1501	
	TOTAL NOMINAL ABSORBED POWER (1)	kW	179.00	198.70	244.80	268.00	321.00	361.00	406.50	
	EER (1)	kW/kW	3.40	3.44	3.29	3.41	3.31	3.30	3.34	
	AIR TEMPERATURE 100% FREE COOLING (1)	°C	-1.60	-3.40	-2.00	-2.00	-2.20	-2.30	-6.60	
	FREECOOLING PRESSURE DROP	kPa	148.00	142.70	127.50	138.10	148.60	154.60	145.30	
	NOMINAL WATER FLOW	m ³ /h	117.00	132.00	154.60	176.00	203.00	227.00	258.00	
	EVAPORATOR PRESSURE DROP	kPa	53	75	78	78	88	86	85	
	NE.M2 (3)	NOMINAL COOLING CAPACITY (1)	kW	703	790	931	1068	1227	1372	1531
		TOTAL NOMINAL ABSORBED POWER (1)	kW	165.0	183.0	225.0	249.5	295.6	330.0	390.0
EER (1)		kW/kW	3.67	3.70	3.58	3.70	3.69	3.63	3.47	
AIR TEMPERATURE 100% FREE COOLING (1)		°C	-4.00	-3.30	-3.40	-3.50	-3.70	-3.60	-5.30	
FREECOOLING PRESSURE DROP		kPa	135.40	150.00	142.50	159.20	177.90	191.80	151.00	
NOMINAL WATER FLOW		m ³ /h	120.60	176.00	160.00	183.70	211.00	236.00	263.40	
EVAPORATOR PRESSURE DROP		kPa	56	79	84	84	93	92	88	
HE.M2 (3)		NOMINAL COOLING CAPACITY (1)	kW	611	697	803	928	1067	1207	1358
		TOTAL NOMINAL ABSORBED POWER (1)	kW	156.0	177.8	215.0	243.0	286.0	325.9	364.0
	EER (1)	kW/kW	3.43	3.44	3.29	3.37	3.31	3.31	3.34	
	AIR TEMPERATURE 100% FREE COOLING (1)	°C	-0.50	-2.40	-1.00	-1.00	-1.20	-1.40	-5.30	
	FREECOOLING PRESSURE DROP	kPa	140.60	122.00	107.70	117.20	126.00	134.00	123.40	
	NOMINAL WATER FLOW	m ³ /h	105.00	120.00	138.00	159.60	183.50	207.60	233.00	
	EVAPORATOR PRESSURE DROP	kPa	61	62	64	65	73	73	71	
	HYDRAULIC SECTION									
	WATER FLOW RANGE	m ³ /h	82+154	82+154	108+200	112+200	142+284	144+289	150+301	
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	24.9	24.9	24.9	NA for this cabinet size, please refer to Gekkold hydro module series HYD				
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	42.4	42.4	42.4					
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39.1	39.1	39.1	NA for this cabinet size, please refer to Gekkold hydro module series HYD				
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65.6	65.6	65.6					
HYDRAULIC CONNECTIONS (VICTAULIC)	DN	150	150	150	150	200	200	200		
FAN SECTION (AXIAL)										
FANS	nr.	12	14	16	18	20	22	22		
MAXIMUM FANS ABSORBED POWER	AC	kW	23.28	27.16	31.04	34.92	38.80	42.68	42.68	
MAXIMUM FANS ABSORBED CURRENT		A	46.80	54.60	62.40	70.20	78.00	85.80	85.80	
TOTAL AIR FLOW		m ³ /h	179322	209209	239096	268983	298870	328757	367939	
MAXIMUM FANS ABSORBED POWER	EC	kW	30.72	35.84	40.96	46.08	51.20	56.32	56.32	
MAXIMUM FANS ABSORBED CURRENT		A	46.80	54.60	62.40	70.20	78.00	85.80	85.80	
TOTAL AIR FLOW		m ³ /h	216287	252335	288383	324431	360479	396527	442548	
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)	A	438.8	482.6	622.4	690.2	718.0	805.8	911.8		
MAXIMUM PEAK CURRENT (L.R.A) (4)	A	1238.0	1347.0	1800.0	1922.0	2328.0	2570.0	2244.0		
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)	A	1050.0	1143.0	1527.0	1634.0	1957.0	2164.0	1955.0		
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)	dB(A)	68.1	68.4	69.2	69.4	70.2	71.0	71.7		
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)	dB(A)	64.7	64.9	65.4	65.6	66.2	66.9	68.5		
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)	dB(A)	63.6	63.9	64.5	64.8	65.5	66.2	67.2		
DIMENSIONS AND WEIGHT										
LENGTH	mm	6900	7850	8800	9750	10700	11650	13140		
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210		
HEIGHT	mm	2500	2500	2500	2500	2500	2500	2500		
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)	kg	6300	7400	8500	9500	10400	11400	11700		
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)	kg	6900	8050	9300	10600	11500	12700	13200		

The manufacturer reserves the right to modify specifications without notice.

Last update: 05/10/2021

Data referred to:

- (1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +35°C
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans
- (5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

***Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

Freecooling chillers AIR NF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned core and axial fans Each model is equipped as standard with 2 refrigerant circuits, 2 compressors each with partition steps per compressor 50-75-100. Electrical feed 400V/3ph/50Hz.

Available Models configuration:

ECO.M1 = standard configuration, with AC fans with cut phase regulation, with economizer and oversized compressor motor size

HE.M1 = high efficiency configuration with EC fans, optimized coil design, with economizer and oversized compressor motor size

NE.M1 = chiller without economizer, with AC fans with cut phase regulation and oversized compressor motor size

M1

TECHNICAL DATA

PERFORMANCES		Model	663/F4***	683/F6	693/F6	773/F6	783/F8	793/F8	863/F8	873/F10
ECO.M1 (3)	NOMINAL COOLING CAPACITY (1)	kW	225	-	-	344	426	469	509	590
	TOTAL NOMINAL ABSORBED POWER (1)	kW	90.34	-	-	135.20	144.00	166.80	208.00	222.70
	EER (1)	kW/kW	2.29	-	-	2.34	2.67	2.57	2.28	2.44
	AIR TEMPERATURE 100% FREE COOLING (1)	°C	1.40	-	-	1.74	2.47	1.60	0.65	1.10
	FREECOOLING PRESSURE DROP	kPa	81.40	-	-	152.90	132.70	141.30	137.40	137.10
	NOMINAL WATER FLOW	m3/h	38.70	-	-	59.17	73.27	80.67	87.55	101.48
NE.M1 (3)	EVAPORATOR PRESSURE DROP	kPa	19	-	-	60	65	64	53	59
	NOMINAL COOLING CAPACITY (6)	kW	239	-	-	366	448	493	540	621
	TOTAL NOMINAL ABSORBED POWER (6)	kW	81.6	-	-	121.8	140.0	160.8	185.2	198.0
	EER (6)	kW/kW	2.60	-	-	2.67	2.79	2.72	2.63	2.78
	AIR TEMPERATURE 100% FREE COOLING (1)	°C	-0.71	-	-	-0.19	0.55	-0.46	-1.52	-0.22
	FREECOOLING PRESSURE DROP	kPa	84.60	-	-	161.00	128.80	137.50	132.10	160.80
HE.M1 (3)	NOMINAL WATER FLOW	m3/h	41.11	-	-	62.95	77.06	84.80	92.88	106.81
	EVAPORATOR PRESSURE DROP	kPa	20	-	-	65	70	69	56	64
	NOMINAL COOLING CAPACITY (1)	kW	266	-	-	406	501	546	577	685
	TOTAL NOMINAL ABSORBED POWER (1)	kW	68.2	-	-	104.4	117.2	139.6	152.0	168.0
	EER (1)	kW/kW	3.50	-	-	3.50	3.77	3.52	3.44	3.66
	AIR TEMPERATURE 100% FREE COOLING (1)	°C	5.20	-	-	5.70	6.60	5.50	5.00	5.30
HYDRAULIC SECTION	FREECOOLING PRESSURE DROP	kPa	67.90	-	-	127.60	111.50	119.50	125.80	114.00
	NOMINAL WATER FLOW	m3/h	32.68	-	-	49.88	61.55	67.08	70.89	84.16
EVAPORATOR PRESSURE DROP	kPa	10	-	-	53	43	57	42	51	
	WATER FLOW RANGE	m3/h	30+60	-	-	42+84	47+94	57+114	62+125	72+144
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	10.2	-	-	16.2	16.2	16.2	24.9	24.9
	P5 (2)	A	17.4	-	-	26.6	26.6	26.6	42.2	42.2
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)	P3 (2)	kW	19.9	-	-	19.9	31.9	31.9	39.1	39.1
	P5 (2)	A	32.7	-	-	32.7	53.5	53.5	65.6	65.6
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P3 (2)	A	100	-	-	100	100	125	125	150
	P5 (2)	DN	100	-	-	100	100	125	125	150
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)	P3 (2)	DN	100	-	-	100	100	125	125	150
	P5 (2)	DN	100	-	-	100	100	125	125	150
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	100	-	-	100	100	125	125	150
FAN SECTION (AXIAL)										
FANS		nr.	4	-	-	6	8	8	8	10
MAXIMUM FANS ABSORBED POWER	AC	kW	7.76	-	-	11.64	15.52	15.52	15.52	19.40
	EC	A	15.60	-	-	23.40	31.20	31.20	31.20	39.00
MAXIMUM FANS ABSORBED CURRENT	AC	A	15.60	-	-	23.40	31.20	31.20	31.20	39.00
	EC	A	15.60	-	-	23.40	31.20	31.20	31.20	39.00
TOTAL AIR FLOW		m3/h	63389	-	-	95083	126778	126778	126778	158472
MAXIMUM FANS ABSORBED POWER	AC	kW	10.24	-	-	15.36	20.48	20.48	20.48	25.60
	EC	A	15.60	-	-	23.40	31.20	31.20	31.20	39.00
TOTAL AIR FLOW		m3/h	76528	-	-	114793	153057	153057	153057	229585
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	232.0	-	-	347.0	371.0	391.0	463.0	531.0
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	667.0	-	-	926.0	1044.0	1151.0	1259.0	1385.0
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	565.0	-	-	789.0	866.0	973.0	1070.0	1180.0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	65.2	-	-	64.5	69.0	69.0	67.9	68.2
SOUND PRESSURE FOR LOW NOISE CONFIGURTION (4) (5)		dB(A)	62.4	-	-	61.9	65.0	65.0	64.2	64.4
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURTION (4) (5)		dB(A)	60.9	-	-	60.3	64.3	64.3	63.3	63.6
DIMENSIONS AND WEIGHT										
LENGTH		mm	3100	-	-	4050	5000	5000	5000	5950
WIDTH		mm	2210	-	-	2210	2210	2210	2210	2210
HEIGHT		mm	2500	-	-	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	2900	-	-	4050	4650	4800	4950	5500
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	3100	-	-	4350	5100	5300	5450	6100

The manufacturer reserves the right to modify specifications without notice.

Last update: 05/10/2021

Data referred to:

(1) Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +45°C

(2) Available pressure can be calculated from Gekkold Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

(4) Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans

(5) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.

(6) Data referred to Inlet/Outlet water temperature = +22/15 °C, ambient temperature = +35°C

***Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps

Freecooling chillers AIR NF series, screw compressors R134A / R513a, shell and tube evaporator, brazed-plate economizers, condenser with copper tubes and aluminium finned core and axial fans Each model is equipped as standard with 2 refrigerant circuits, 2 compressors each with partition steps per compressor 50-75-100. Electrical feed 400V/3ph/50Hz.

Available Models configuration:

ECO.M1 = standard configuration, with AC fans with cut phase regulation, with economizer and oversized compressor motor size
HE.M1 = high efficiency configuration with EC fans, optimized coil design, with economizer and oversized compressor motor size
NE.M1 = chiller without economizer, with AC fans with cut phase regulation and oversized compressor motor size

M1

TECHNICAL DATA

PERFORMANCES		Model	883/F12	893/F14	963/F16	973/F18	983/F20	993/F22	973/F24	
NOMINAL COOLING CAPACITY (1)	ECO.M1 (3)	kW	667	775	872	994	1147	1280	1457	
		TOTAL NOMINAL ABSORBED POWER (1)	kW	241.20	260.00	314.60	351.40	397.00	454.00	507.50
		EER (1)	kW/kW	2.52	2.70	2.52	2.57	2.63	2.58	2.65
		AIR TEMPERATURE 100% FREE COOLING (1)	°C	1.60	1.25	1.28	1.35	1.07	0.50	1.20
		FREECOOLING PRESSURE DROP	kPa	144.00	143.80	127.40	135.60	144.90	154.60	141.70
		NOMINAL WATER FLOW	m3/h	114.73	133.30	149.99	170.97	197.29	220.16	250.61
EVAPORATOR PRESSURE DROP	kPa	55	69	69	64	69	74	79		
NOMINAL COOLING CAPACITY (6)	NE.M1 (3)	kW	694	803	917	1045	1169	1315	1472	
		TOTAL NOMINAL ABSORBED POWER (6)	kW	236.0	238.0	288.0	320.0	385.4	438.0	495.0
		EER (6)	kW/kW	2.60	2.93	2.79	2.85	2.68	2.66	2.67
		AIR TEMPERATURE 100% FREE COOLING (1)	°C	-0.75	-0.47	-0.12	-0.05	2.20	1.35	1.00
		FREECOOLING PRESSURE DROP	kPa	131.90	150.00	141.40	153.80	173.20	191.80	147.10
		NOMINAL WATER FLOW	m3/h	119.37	138.12	157.73	179.74	201.07	226.18	253.19
EVAPORATOR PRESSURE DROP	kPa	49	72	72	68	74	80	88		
NOMINAL COOLING CAPACITY (1)	HE.M1 (3)	kW	757	855	968	1120	1277	1488	1670	
		TOTAL NOMINAL ABSORBED POWER (1)	kW	168.2	195.5	232.0	267.3	305.2	340.0	395.0
		EER (1)	kW/kW	3.95	3.84	3.68	3.71	3.71	3.89	3.82
		AIR TEMPERATURE 100% FREE COOLING (1)	°C	6.07	4.00	5.91	5.84	5.60	5.75	5.60
		FREECOOLING PRESSURE DROP	kPa	136.20	122.00	109.50	113.50	120.50	134.00	119.50
		NOMINAL WATER FLOW	m3/h	93.00	105.04	118.93	137.60	156.89	182.81	205.17
EVAPORATOR PRESSURE DROP	kPa	47	45	49	41	62	68	70		
HYDRAULIC SECTION										
WATER FLOW RANGE		m3/h	82+154	82+154	108+200	112+200	142+284	144+289	150+301	
MAXIMUM PUMP ABSORBED POWER (OPTION WP OR DP)	P3 (2)	kW	24.9	24.9	24.9	NA for this cabinet size, please refer to Gekkold hydro module series				
MAXIMUM PUMP ABSORBED CURRENT (OPTION WP OR DP)		A	42.4	42.2	42.2	HYD				
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39.1	39.1	39.1	NA for this cabinet size, please refer to Gekkold hydro module series				
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65.6	65.6	65.6	HYD				
HYDRAULIC CONNECTIONS (VICTAULIC)		DN	150	150	150	150	200	200	200	
FAN SECTION (AXIAL)										
FANS		nr.	12	14	16	18	20	22		
MAXIMUM FANS ABSORBED POWER	AC	kW	23.28	27.16	31.04	34.92	38.80	42.68	42.68	
MAXIMUM FANS ABSORBED CURRENT		A	46.80	54.60	62.40	70.20	78.00	85.80	85.80	
TOTAL AIR FLOW		m3/h	179322	209209	239096	268983	298870	328757	367939	
MAXIMUM FANS ABSORBED POWER	EC	kW	30.72	35.84	40.96	46.08	51.20	56.32	56.32	
MAXIMUM FANS ABSORBED CURRENT		A	46.80	54.60	62.40	70.20	78.00	85.80	85.80	
TOTAL AIR FLOW		m3/h	216287	252335	288383	324431	360479	396527	442548	
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (4)		A	567.0	675.0	802.0	910.0	978.0	986.0	1354.0	
MAXIMUM PEAK CURRENT (L.R.A) (4)		A	1497.0	1642.0	2378.0	2649.0	3179.0	3183.0	3081.0	
MAXIMUM PEAK CURRENT WITH SOFT START (L.R.A) (4)		A	1275.0	1406.0	2008.0	2243.0	2675.0	2679.0	2675.0	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (4) (5)		dB(A)	69.2	69.4	70.2	71.0	71.7	71.7	73.1	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (4) (5)		dB(A)	65.5	65.6	66.2	66.9	67.5	67.5	69.5	
SOUND PRESSURE FOR SUPER LOW NOISE CONFIGURATION (4) (5)		dB(A)	64.6	64.8	65.5	66.2	66.9	66.9	68.5	
DIMENSIONS AND WEIGHT										
LENGTH		mm	6900	7850	8800	9750	10700	11650	13140	
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (4)		kg	6300	7400	8500	9500	10400	11400	11700	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (4)		kg	6900	8050	9300	10600	11500	12700	13200	

The manufacturer reserves the right to modify specifications without notice.

Last update: 05/10/2021

Revision: #R1F1

Data referred to:

- Data referred to Inlet/Outlet water temperature = +12/7 °C, ambient temperature = +45°C
- Available pressure can be calculated from Gekkold Online Selection Software
- SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- Data referred to standard chiller configuration NP (chiller without pump) and considering EC fans
- Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface.
- Data referred to Inlet/Outlet water temperature = +22/15 °C, ambient temperature = +35°C

**Model 663 is the only one equipped with brazed plate evaporators instead of shell and tube in order to obtain a compact design

***Model 983/F24 and 993/F24 are designed with 3 independent refrigerant circuits and 3 compressors each one with 50-75-100 partition steps



INVERTER SCREW CHILLERS

R134A / R513A / R1234ZE

Rotary / Scroll compressors

Shell & Tube evaporator / Brazed plate economizer

Inbuilt water storage tank & single pump P3 as

Gekko AIR SV / SVF / SVF-OPT

From 300 kW up to 1390 kW



Technical Data Tables

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Gekkold



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Industrial Chiller Supplier

Gekko AIR SV series

Air-Cooled liquid Chillers, INVERTER screw compressors

EC axial fans

IP54 protection rating

Suitable for OUTDOOR installation



GEKKOLD

Russian Federation, Moscow,
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Air-cooled liquid chillers AIR SV series, inverter screw compressors, R134A / R513A / R1234ze refrigerant, shell and tube evaporator, brazed plate economizer, condenser coil with copper tubes and aluminium fins, EC axial fans r. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt water storage tank and single pump P3 as option. Microchannel condenser coils as option.

Type of available evaporators:

ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements:

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	300	350	390	440	480	520	600	680
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	300,0	351,0	392,0	441,0	483,0	525,0	608,0	681,0
TOTAL NOMINAL ABSORBED POWER		kW	84,1	100,9	115,8	126,1	143,5	159,8	175,0	205,9
EER		kW/kW	3,57	3,48	3,38	3,50	3,37	3,28	3,47	3,31
SEPR (HT) (3)		-	5,04	5,01	5,04	5,55	5,54	5,52	5,57	5,55
NOMINAL WATER FLOW		m ³ /h	51,5	60,3	67,3	75,8	83,0	90,2	104,5	117,0
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	58	58	58	53	53	61	49	48
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.		1/1/27÷108%	1/1/25÷100%	1/1/20÷101%	1/1/20÷100%	1/1/16÷102%	1/1/16÷100%	2/2/26÷102%	2/2/25÷100%
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	ST
ECONOMIZER			NO	YES	NO	YES	NO	YES	NO	YES
TYPE OF ECONOMIZER	type	plate	plate	plate	plate	plate	plate	plate	plate	plate
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m ³ /h		36,0÷72,0	42,0÷80,0	42,0÷84,0	52,0÷105,0	57,0÷113,0	57,0÷113,0	68,0÷137,0	81,0÷162,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	8,30	8,30	10,20	10,20	10,20	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	14,10	14,10	17,40	17,40	17,40	26,60	26,60	26,60
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,22	16,22	24,85	24,85	24,85	24,85	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,60	26,60	42,40	42,40	42,40	42,40	53,50	53,50
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (8)	DN	DN100	DN100	DN100	DN125	DN125	DN125	DN125	DN125	DN150
TANK VOLUME (5) (9)	dm ³	380	380	380	500	500	500	500	500	500
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (10)	liters	1x19	1x19	1x19	2x19	2x19	2x19	2x19	2x19	2x19
FAN SECTION (AXIAL)										
FANS	nr.	6	6	6	8	8	8	10	10	10
MAXIMUM FANS ABSORBED POWER	EC	kW	11,04	11,04	11,04	14,72	14,72	14,72	18,40	18,40
MAXIMUM FANS ABSORBED CURRENT		A	22,98	22,98	22,98	30,64	30,64	30,64	38,30	38,30
TOTAL AIR FLOW		m ³ /h	123600	123600	123600	164800	164800	164800	206000	206000
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A	243,0	243,0	283,0	290,6	370,6	370,6	418,3	478,3	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)	68,6	68,6	69,5	69,7	70,6	70,6	71,5	71,5	
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)	dB(A)	64,9	64,9	65,6	66,1	66,8	66,8	67,6	67,6	
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (6) (7)	dB(A)	64,0	64,0	64,8	65,1	66,0	66,0	66,8	66,8	
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (6) (7)	dB(A)	61,9	61,9	62,6	63,1	63,8	63,8	64,6	64,6	
DIMENSIONS AND WEIGHT										
LENGTH	mm	4600	4600	4600	5900	5900	5900	7200	7200	
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	
HEIGHT	mm	2450	2450	2450	2450	2450	2450	2450	2450	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg	3050	3100	3200	3600	3670	3750	5200	5250	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg	3180	3250	3370	3780	3850	3930	5500	5600	

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration NP (no pump) and EC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095-160
- (9) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (10) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

** pump P5 includes the soft start (SF) option

Air-cooled liquid chillers AIR SV series, inverter screw compressors, R134A / R513A / R1234ze refrigerant, shell and tube evaporator, brazed plate economizer, condenser coil with copper tubes and aluminium fins, EC axial fans r. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt water storage tank and single pump P3 as option. Microchannel condenser coils as option.

Type of available evaporators:
ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements:
ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	770	850	910	970	1030	1140	1290	1390
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	778,0	857,0	916,0	982,0	1048,0	1167,0	1290,0	1390,0
TOTAL NOMINAL ABSORBED POWER		kW	228,9	250,0	276,9	292,5	320,0	333,7	385,5	416,3
EER		kW/kW	3,40	3,43	3,31	3,36	3,27	3,50	3,35	3,34
SEPR (HT) (3)		-	5,57	5,56	5,51	5,57	5,55	5,52	5,52	5,51
NOMINAL WATER FLOW		m3/h	133,7	147,2	157,4	168,7	180,0	200,5	221,6	238,8
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	55	64	68	65	68	66	76	89
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.	2/2/20÷102%	2/2/20÷102%	2/2/17÷106%	2/2/16÷100%	2/2/16÷100%	2/2/22÷112%	2/2/22÷100%	2/2/22÷100%	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	
ECONOMIZER		NO	YES	NO	NO	YES	NO	NO	YES	
TYPE OF ECONOMIZER	type	plate	plate	plate	plate	plate	plate	plate	plate	
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m3/h	94,0÷188,0	102,0÷203,0	108,0÷210,0	117,0÷210,0	124,0÷227,0	125,0÷250,0	141,0÷270,0	141,0÷270,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	16,22	23,51	23,51	23,51	31,88	31,88	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	26,60	39,00	39,00	39,00	53,50	53,50	53,50	53,50
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,09	39,09	39,09	39,09	39,09	47,31**	47,31**	47,31**
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65,60	65,60	65,60	65,60	65,60	77,60	77,60	77,60
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (8)		DN	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200
TANK VOLUME (5) (9)		dm³	600	600	600	600	600	700	700	700
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (10)		liters	2x19	2x19	2x19	1x60	1x60	1x60	1x60	1x60
FAN SECTION (AXIAL)										
FANS		nr.	12	14	14	16	16	18	18	18
MAXIMUM FANS ABSORBED POWER	EC	kW	22,08	25,76	25,76	29,44	29,44	33,12	33,12	33,12
MAXIMUM FANS ABSORBED CURRENT		A	45,96	53,62	53,62	61,28	61,28	68,94	68,94	68,94
TOTAL AIR FLOW		m3/h	247200	288400	288400	329600	329600	370800	370800	370800
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	566,0	573,6	733,6	741,3	741,3	908,9	908,9	908,9
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	72,5	72,6	73,6	73,7	73,7	74,6	74,6	74,6
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	68,6	68,9	69,6	69,8	69,8	70,6	70,6	70,6
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (6) (7)		dB(A)	67,9	68,0	68,9	69,0	69,0	69,9	69,9	69,9
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (6) (7)		dB(A)	65,6	65,9	66,6	66,8	66,8	67,6	67,6	67,6
DIMENSIONS AND WEIGHT										
LENGTH		mm	8500	9800	9800	11100	11100	12400	12400	12400
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2450	2450	2450	2450	2450	2450	2450	2450
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)		kg	5900	6550	6730	7450	7700	9100	9600	9600
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)		kg	6200	6900	7100	7900	8200	9650	10200	10200

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
Revision: 03-2021

Data referred to:

- Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- Available pressure can be calculated from Gekkold Online Selection Software
- SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- Pressure drops taken in account: evaporator, piping
- Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- Data referred to standard chiller configuration NP (no pump) and EC fans
- Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095-160
- To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

** pump P5 includes the soft start (SF) option

Gekkold



gekkoldprom.com

Industrial Chiller Supplier

Gekko AIR SVF series

Freecooling liquid chillers, INVERTER screw compressors

EC axial fans

IP54 protection rating

Suitable for OUTDOOR installation



GEKKOLD

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Air-cooled liquid chillers AIR SVF series, inverter screw compressors, R134A / R513A / R1234ze refrigerant, shell and tube evaporator, brazed plate economizer, condenser and freecooling coil with copper tubes and aluminium fins, EC axial fans r. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt water storage tank and single pump P3 as option. Microchannel condenser coils as option.

Type of available evaporators:

ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements:

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	300	350	390	440	480	520	600	680
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	301,0	351,0	392,0	441,0	483,0	532,0	608,0	691,0
TOTAL NOMINAL ABSORBED POWER		kW	92,4	104,6	119,5	130,9	151,4	162,1	178,4	212,2
EER		kW/kW	3,26	3,35	3,28	3,37	3,19	3,28	3,41	3,26
SEPR (HT) (3)		-	5,04	5,01	5,04	5,55	5,54	5,52	5,57	5,55
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	0,55	1,64	0,81	1,61	0,87	1,55	1,68	0,77
NOMINAL WATER FLOW		m ³ /h	51,7	60,3	67,3	75,8	83,0	91,4	104,5	118,7
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	58	58	58	53	53	61	49	48
FREE COOLING MODE PRESSURE DROPS (5)		kPa	128,00	125,70	125,60	108,00	119,16	124,65	106,72	120,57
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.		1/1/27÷108%	1/1/25÷100%	1/1/20÷101%	1/1/20÷100%	1/1/16÷102%	1/1/16÷100%	2/2/26÷102%	2/2/25÷100%
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	ST
ECONOMIZER		NO	YES	NO	YES	NO	YES	NO	YES	YES
TYPE OF ECONOMIZER	type	plate	plate	plate	plate	plate	plate	plate	plate	plate
HYDRAULIC SECTION										
WATER FLOW RANGE (7)		m ³ /h	36,0÷72,0	42,0÷80,0	42,0÷84,0	52,0÷105,0	57,0÷113,0	57,0÷113,0	68,0÷137,0	81,0÷162,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	10,20	16,22	16,22	16,22	16,22	24,85	24,85	24,85
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	17,40	26,60	26,60	26,60	26,60	42,20	42,20	42,20
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	19,94	19,94	31,88	31,88	31,88	39,09	39,09	39,09
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	32,70	32,70	53,50	53,50	53,50	65,60	65,60	65,60
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (9)		DN	DN100	DN100	DN100	DN125	DN125	DN150	DN150	DN150
TANK VOLUME (6) (10)		dm ³	380	380	500	500	500	500	500	500
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (11)		liters	1x19	2x19	2x19	2x19	2x19	2x19	2x19	2x19
FAN SECTION (AXIAL)										
FANS		nr.	6	8	8	10	10	12	14	14
MAXIMUM FANS ABSORBED POWER	EC	kW	11,04	14,72	14,72	18,40	18,40	22,08	25,76	25,76
MAXIMUM FANS ABSORBED CURRENT		A	22,98	30,64	30,64	38,30	38,30	45,96	53,62	53,62
TOTAL AIR FLOW		m ³ /h	123600	164800	164800	206000	206000	247200	288400	288400
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)		A	243,0	250,6	290,6	298,3	378,3	386,0	433,6	493,6
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)		dB(A)	68,6	68,8	69,7	69,9	70,8	70,9	71,7	71,7
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)		dB(A)	64,9	65,4	66,1	66,5	67,1	67,4	68,2	68,2
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)		dB(A)	64,0	64,3	65,1	65,4	66,2	66,4	67,2	67,2
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)		dB(A)	61,9	62,4	63,1	63,5	64,1	64,4	65,2	65,2
DIMENSIONS AND WEIGHT										
LENGTH		mm	4600	5900	5900	7200	7200	8500	9800	9800
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2450	2450	2450	2450	2450	2450	2450	2450
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)		kg	3150	3850	4000	4700	4750	5400	6600	6800
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)		kg	3350	4100	4270	5020	5090	5790	7040	7260

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, piping
- (5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
- (6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (7) Data referred to standard chiller configuration NP (no pump) and EC fans
- (8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (9) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095-160
- (10) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (11) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

** pump P5 includes the soft start (SF) option

Air-cooled liquid chillers AIR SVF series, inverter screw compressors, R134A / R513A / R1234ze refrigerant, shell and tube evaporator, brazed plate economizer, condenser and freecooling coil with copper tubes and aluminium fins, EC axial fans r. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt water storage tank and single pump P3 as option. Microchannel condenser coils as option.

Type of available evaporators:

ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)
B-ES = stainless steel brazed plate evaporator

Type of available expansion elements:

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	770	850	910
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	785,0	868,0	926,0
TOTAL NOMINAL ABSORBED POWER		kW	238,4	257,3	293,1
EER		kW/kW	3,29	3,37	3,16
SEPR (HT) (3)		-	5,57	5,56	5,51
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	0,77	0,93	0,42
NOMINAL WATER FLOW		m3/h	134,9	149,1	159,1
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	55	64	68
FREE COOLING MODE PRESSURE DROPS (5)		kPa	136,1	132,9	145,8
FRIGORIFIC SECTION					
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.	2/2/20÷102%	2/2/20÷102%	2/2/17÷106%	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	
KIND OF EVAPORATOR	-	ST	ST	ST	
ECONOMIZER					
TYPE OF ECONOMIZER	type	plate	plate	plate	
HYDRAULIC SECTION					
WATER FLOW RANGE (7)	m3/h	94,0÷188,0	102,0÷203,0	108,0÷210,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	31,88	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	53,50	53,50	53,50
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	57,65*	57,65**	57,65**
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	93,50	93,50	93,50
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (9)	DN	DN150	DN150	DN150	
TANK VOLUME (6) (10)	dm³	500	700	700	
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (11)	liters	2x19	1x60	1x60	
FAN SECTION (AXIAL)					
FANS	nr.	16	18	18	
MAXIMUM FANS ABSORBED POWER	EC	kW	29,44	33,12	33,12
MAXIMUM FANS ABSORBED CURRENT		A	61,28	68,94	68,94
TOTAL AIR FLOW		m3/h	329600	370800	370800
TOTAL ELECTRIC DATA					
MAXIMUM ABSORBED CURRENT (F.L.A) (7)	A	581,3	588,9	748,9	
NOISE DATA					
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)	dB(A)	72,7	72,8	73,7	
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)	dB(A)	69,1	69,3	70,0	
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)	dB(A)	68,1	68,3	69,1	
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)	dB(A)	66,1	66,3	67,0	
DIMENSIONS AND WEIGHT					
LENGTH	mm	11100	12400	12400	
WIDTH	mm	2210	2210	2210	
HEIGHT	mm	2450	2450	2450	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)	kg	7600	8400	8600	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)	kg	8110	8970	9200	

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021
Revision: #R1F1

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, piping
- (6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (7) Data referred to standard chiller configuration NP (no pump) and EC fans
- (8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (9) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095-160
- (10) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough
- (11) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

** pump P5 includes the soft start (SF) option

Air-cooled liquid chillers AIR SVF-OPT series, inverter screw compressors, R134A / R513A / R1234ze refrigerant, shell and tube evaporator, brazed plate economizer, condenser and OPTIMIZED freecooling coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option).

IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt water storage tank and single pump P3 as option. Microchannel condenser coils as option.

Type of available evaporators:

ST = shell and tube evaporator, with high thickness copper tubes (0,41mm)

B-ES = stainless steel brazed plate evaporator

Type of available expansion elements:

ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	300	350	390	440	480	520	600	680
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	304,0	351,0	390,0	435,0	477,0	522,0	594,0	688,0
TOTAL NOMINAL ABSORBED POWER		kW	97,0	109,4	123,2	137,1	158,1	170,8	187,4	219,6
EER		kW/kW	3,13	3,21	3,17	3,17	3,02	3,06	3,17	3,13
SEPR (HT) (3)		-	5,04	5,01	5,04	5,55	5,54	5,52	5,57	5,55
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	3,45	3,90	3,33	3,71	3,18	3,54	3,54	3,41
NOMINAL WATER FLOW		m ³ /h	52,2	60,3	67,0	74,7	81,9	89,7	102,0	118,2
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	53	53	53	48	48	56	44	43
FREE COOLING MODE PRESSURE DROPS (5)		kPa	109,00	112,83	110,70	96,90	106,80	114,96	98,31	104,39
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.		1/1/27÷108%	1/1/25÷100%	1/1/20÷101%	1/1/20÷100%	1/1/16÷102%	1/1/16÷100%	2/2/26÷102%	2/2/25÷100%
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	ST
ECONOMIZER		NO	YES	NO	YES	NO	YES	NO	YES	YES
TYPE OF ECONOMIZER	type	plate	plate	plate	plate	plate	plate	plate	plate	plate
HYDRAULIC SECTION										
WATER FLOW RANGE (7)	m ³ /h	36,0÷72,0	42,0÷80,0	42,0÷84,0	52,0÷105,0	57,0÷113,0	57,0÷113,0	68,0÷137,0	81,0÷162,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	10,20	16,22	16,22	16,22	16,22	24,85	24,85	24,85
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	17,40	26,60	26,60	26,60	26,60	42,20	42,20	42,20
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	19,94	19,94	31,88	31,88	31,88	39,09	39,09	39,09
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	32,70	32,70	53,50	53,50	53,50	65,60	65,60	65,60
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (9)	DN	DN100	DN100	DN100	DN125	DN125	DN150	DN150	DN150	
TANK VOLUME (6) (10)	dm ³	380	380	500	500	500	500	500	500	
EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) (11)	liters	1x19	2x19	2x19	2x19	2x19	2x19	2x19	2x19	
FAN SECTION (AXIAL)										
FANS	nr.	8	10	10	12	12	14	16	18	
MAXIMUM FANS ABSORBED POWER	EC	kW	14,72	18,40	18,40	22,08	22,08	25,76	29,44	33,12
MAXIMUM FANS ABSORBED CURRENT		A	30,64	38,30	38,30	45,96	45,96	53,62	61,28	68,94
TOTAL AIR FLOW		m ³ /h	164800	206000	206000	247200	247200	288400	329600	370800
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)	A	250,6	258,3	298,3	306,0	386,0	393,6	441,3	508,9	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)	dB(A)	68,8	69,0	69,9	70,1	70,9	71,1	71,8	71,9	
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)	dB(A)	65,4	65,9	66,5	66,9	67,4	67,7	68,5	68,7	
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)	dB(A)	64,3	64,6	65,4	65,6	66,4	66,6	67,3	67,5	
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)	dB(A)	62,4	62,9	63,5	63,9	64,4	64,7	65,5	65,7	
DIMENSIONS AND WEIGHT										
LENGTH	mm	5900	7200	7200	8500	8500	9800	11100	12400	
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	
HEIGHT	mm	2450	2450	2450	2450	2450	2450	2450	2450	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)	kg	3850	4750	4750	5500	6200	6900	7950	8800	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)	kg	4400	5400	5400	6250	6950	7800	9000	9900	

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2021

Data referred to:

(1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water

(2) Available pressure can be calculated from Gekkold Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

(4) Pressure drops taken in account: evaporator, piping

(5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil

(6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change

(7) Data referred to standard chiller configuration NP (no pump) and EC fans

(8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

(9) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095-160

(10) To avoid excessive start/stop of the compressors a minimum water volume for the entire plant must be guarantee, the tank supplied by Gekkold can be not enough

(11) The expansion vessel volume is calculated considering 50°C of deltaT between water temperature with chiller stopped and chiller active, 1/2bar of hydraulic circuit pre-charge and considering only the water volume of the unit

** pump P5 includes the soft start (SF) option



TURBOCOR

R134A / R513A / R1234ZE

Turbocor compressors

Hybrid falling film/flooded evaporator

Inbuilt water storage tank & single pump P3 as option

Gekko AIR TCA – TCAF - TCW series

From 233 kW up to 3104 kW



Technical Data Tables

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Gekko AIR TCA series

Air-Cooled liquid Chillers, turbocor compressor

EC axial fans

IP54 protection rating

Suitable for OUTDOOR installation



GEKKOLD

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Air-cooled liquid chillers AIR TCA series, turbocore compressors, R134A / R513A / R1234ze refrigerant, hybrid falling film/flooded evaporator, brazed plate economizer, condenser coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt single or double pumps P3 as option. Microchannel condenser coils as option.

Type of available evaporators:
HYB = hybrid falling film / flooded

Type of available expansion elements:
ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	250	280	310	350	390	440	500	560
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	250,0	280,0	310,0	350,0	390,0	440,0	500,0	560,0
TOTAL NOMINAL ABSORBED POWER		kW	70,8	77,9	83,5	97,8	108,0	121,1	156,7	143,6
EER		kW/kW	3,53	3,59	3,71	3,58	3,61	3,63	3,19	3,90
SEPR (HT) (3)		-	5,04	5,01	5,04	5,55	5,54	5,52	5,57	5,55
NOMINAL WATER FLOW		m3/h	43,0	48,1	53,3	60,1	67,0	75,6	85,9	96,2
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	47	58	58	53	53	61	49	48
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.		1/1/27÷108%	1/1/25÷100%	1/1/20÷101%	1/1/20÷100%	1/1/16÷102%	1/1/16÷100%	2/2/26÷102%	2/2/25÷100%
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	ST
ECONOMIZER										
TYPE OF ECONOMIZER	type	plate	plate	plate	plate	plate	plate	plate	plate	plate
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m3/h	32,0÷72,0	33,0÷82,0	49,0÷90,0	49,0÷108,0	57,0÷113,0	57,0÷113,0	68,0÷137,0	81,0÷162,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	8,30	8,30	10,20	10,20	10,20	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	14,10	14,10	17,40	17,40	17,40	26,60	26,60	26,60
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,22	16,22	24,85	24,85	24,85	24,85	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,60	26,60	42,40	42,40	42,40	42,40	53,50	53,50
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (8)		DN	DN100	DN100	DN100	DN125	DN125	DN125	DN125	DN150
FAN SECTION (AXIAL)										
FANS	nr.		4	6	6	6	8	8	8	10
MAXIMUM FANS ABSORBED POWER	EC	kW	7,36	11,04	11,04	11,04	14,72	14,72	14,72	18,40
MAXIMUM FANS ABSORBED CURRENT		A	15,32	22,98	22,98	22,98	30,64	30,64	30,64	38,30
TOTAL AIR FLOW		m3/h	82400	123600	123600	123600	164800	164800	164800	206000
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A		150,3	158,0	158,0	233,0	240,6	240,6	310,6	308,3
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	63,8	64,4	64,4	65,0	65,6	65,6	66,8	67,1
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	61,1	62,3	62,3	62,6	63,5	63,5	64,1	64,8
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (6) (7)		dB(A)	59,5	60,4	60,4	60,9	61,6	61,6	62,6	63,0
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (6) (7)		dB(A)	58,1	59,3	59,3	59,6	60,5	60,5	61,1	61,8
DIMENSIONS AND WEIGHT										
LENGTH		mm	4600	4600	4600	5900	5900	5900	7200	7200
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2450	2450	2450	2450	2450	2450	2450	2450
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)		kg	3050	3100	3200	3600	3670	3750	5200	5250
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)		kg	3180	3250	3370	3780	3850	3930	5500	5600

The manufacturer reserves the right to modify specifications without notice.

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Revision: 03-2021

Data referred to:

(1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water

(2) Available pressure can be calculated from Gekkold Online Selection Software

(3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

(4) Pressure drops taken in account: evaporator, piping

(5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change

(6) Data referred to standard chiller configuration NP (no pump) and EC fans

(7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

(8) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095-160

** pump P5 includes the soft start (SF) option

Air-cooled liquid chillers AIR TCA series, turbocore compressors, R134A / R513A / R1234ze refrigerant, hybrid falling film/flooded evaporator, brazed plate economizer, condenser coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt single or double pumps P3 as option. Microchannel condenser coils as option.

Type of available evaporators:
HYB = hybrid falling film / flooded

Type of available expansion elements:
ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	620	700	780	850	920	1004	1110	1215
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	620,0	700,0	780,0	850,0	920,0	1004,0	1110,0	1215,0
TOTAL NOMINAL ABSORBED POWER		kW	171,1	195,7	224,3	234,4	260,1	273,3	321,7	338,8
EER		kW/kW	3,62	3,58	3,48	3,63	3,54	3,67	3,45	3,59
SEPR (HT) (3)		-	5,57	5,56	5,51	5,57	5,55	5,52	5,52	5,51
NOMINAL WATER FLOW		m ³ /h	106,5	120,3	134,0	146,0	158,1	172,5	190,7	208,7
MECHANICAL MODE PRESSURE DROPS (4) (5) (6)		kPa	55	64	68	65	68	66	76	89
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.		2/2/20÷102%	2/2/20÷102%	2/2/17÷106%	2/2/16÷100%	2/2/16÷100%	3/3/22÷112%	3/3/22÷100%	3/3/22÷100%
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	ST
ECONOMIZER		YES	NO	NO	YES	YES	NO	NO	YES	
TYPE OF ECONOMIZER	type	plate	plate	plate	plate	plate	plate	plate	plate	
HYDRAULIC SECTION										
WATER FLOW RANGE (6)	m ³ /h		94,0÷188,0	102,0÷203,0	108,0÷210,0	117,0÷210,0	124,0÷227,0	125,0÷250,0	141,0÷270,0	141,0÷270,0
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	16,22	23,51	23,51	23,51	31,88	31,88	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	26,60	39,00	39,00	39,00	53,50	53,50	53,50	53,50
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,09	39,09	39,09	39,09	39,09	47,31**	47,31**	47,31**
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65,60	65,60	65,60	65,60	65,60	77,60	77,60	77,60
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (8)	DN	DN150	DN150	DN150	DN150	DN200	DN200	DN200	DN200	
FAN SECTION (AXIAL)										
FANS	nr.		10	12	14	14	16	18	18	18
MAXIMUM FANS ABSORBED POWER	EC	kW	18,40	22,08	25,76	25,76	29,44	33,12	33,12	33,12
MAXIMUM FANS ABSORBED CURRENT		A	38,30	45,96	53,62	53,62	61,28	68,94	68,94	68,94
TOTAL AIR FLOW		m ³ /h	206000	247200	288400	288400	329600	370800	370800	370800
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (6)	A		308,3	466,0	473,6	473,6	481,3	698,9	698,9	698,9
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)	dB(A)		67,1	68,1	68,3	68,3	68,6	69,8	69,8	69,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)	dB(A)		64,8	65,6	66,1	66,1	66,5	67,4	67,4	67,4
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (6) (7)	dB(A)		63,0	63,9	64,3	64,3	64,6	65,7	65,7	65,7
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (6) (7)	dB(A)		61,8	62,6	63,1	63,1	63,5	64,4	64,4	64,4
DIMENSIONS AND WEIGHT										
LENGTH	mm		8500	9800	9800	11100	11100	12400	12400	12400
WIDTH	mm		2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT	mm		2450	2450	2450	2450	2450	2450	2450	2450
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (6)	kg		5900	6550	6730	7450	7700	9100	9600	9600
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (6)	kg		6200	6900	7100	7900	8200	9650	10200	10200

The manufacturer reserves the right to modify specifications without notice.

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Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, piping
- (5) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (6) Data referred to standard chiller configuration NP (no pump) and EC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (8) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095-160

** pump P5 includes the soft start (SF) option

Gekkold



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Industrial Chiller Supplier

Gekko AIR TCAF series

Freecooling liquid chillers, turbocor compressors

EC axial fans

IP54 protection rating

Suitable for OUTDOOR installation



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Air-cooled liquid chillers AIR TCAF series, turbocore compressors, R134A / R513A / R1234ze refrigerant, hybrid falling film/flooded evaporator, brazed plate economizer, condenser and freecooling coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt single or double pumps P3 as option. Microchannel condenser coils as option.

Type of available evaporators:
HYB = hybrid falling film / flooded

Type of available expansion elements:
ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	250	280	310	350	390	440	500	560
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	250,0	280,0	310,0	350,0	390,0	440,0	500,0	560,0
TOTAL NOMINAL ABSORBED POWER		kW	70,7	83,8	86,6	99,7	111,7	124,8	141,1	167,1
EER		kW/kW	3,53	3,34	3,58	3,51	3,49	3,53	3,54	3,35
SEPR (HT) (3)		-	5,04	5,01	5,04	5,55	5,54	5,52	5,57	5,55
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	2,45	1,75	2,85	2,15	2,85	2,10	2,45	1,75
NOMINAL WATER FLOW		m3/h	43,0	48,1	53,3	60,1	67,0	75,6	85,9	96,2
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	47	58	58	53	53	61	49	48
FREE COOLING MODE PRESSURE DROPS (5)		kPa	120	143	136	144	129	139	129	142
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.	1/1/27÷108%	1/1/25÷100%	1/1/20÷101%	1/1/20÷100%	1/1/16÷102%	1/1/16÷100%	2/2/26÷102%	2/2/25÷100%	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS	ETS
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	ST	ST	ST	ST
ECONOMIZER										
TYPE OF ECONOMIZER	type	plate	plate	plate	plate	plate	plate	plate	plate	plate
HYDRAULIC SECTION										
WATER FLOW RANGE (7)	m3/h	32,0÷72,0	33,0÷82,0	49,0÷90,0	49,0÷108,0	57,0÷113,0	57,0÷113,0	68,0÷137,0	81,0÷162,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	10,20	10,20	10,20	16,22	16,22	16,22	16,22	24,85
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	17,40	17,40	17,40	26,60	26,60	26,60	26,60	42,20
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	19,94	19,94	19,94	19,94	31,88	31,88	31,88	39,09
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	32,70	32,70	32,70	32,70	53,50	53,50	53,50	65,60
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (9)	DN	DN100	DN100	DN125	DN125	DN125	DN125	DN125	DN150	DN150
FAN SECTION (AXIAL)										
FANS	nr.	6	6	8	8	10	10	12	12	
MAXIMUM FANS ABSORBED POWER	EC	kW	11,04	11,04	14,72	14,72	18,40	18,40	22,08	22,08
MAXIMUM FANS ABSORBED CURRENT		A	22,98	22,98	30,64	30,64	38,30	38,30	45,96	45,96
TOTAL AIR FLOW	m3/h	123600	123600	164800	164800	206000	206000	247200	247200	
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A) (7)	A	158,0	158,0	165,6	240,6	248,3	248,3	326,0	316,0	
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)	dB(A)	64,4	64,4	65,0	65,6	66,0	66,0	67,5	67,5	
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)	dB(A)	62,3	62,3	63,2	63,5	64,2	64,2	65,3	65,3	
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)	dB(A)	60,4	60,4	61,1	61,6	62,1	62,1	63,4	63,4	
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)	dB(A)	59,3	59,3	60,2	60,5	61,2	61,2	62,3	62,3	
DIMENSIONS AND WEIGHT										
LENGTH	mm	4600	4600	5900	5900	7200	7200	8500	8500	
WIDTH	mm	2210	2210	2210	2210	2210	2210	2210	2210	
HEIGHT	mm	2450	2450	2450	2450	2450	2450	2450	2450	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)	kg	3168	3208	4044	4160	4858	4923	5200	5250	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)	kg	3476	3523	4448	4577	5369	5445	5912	5983	

The manufacturer reserves the right to modify specifications without notice.

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Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, piping
- (5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
- (6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (7) Data referred to standard chiller configuration NP (no pump) and EC fans
- (8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (9) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095-160

** pump P5 includes the soft start (SF) option



Air-cooled liquid chillers AIR TCAF series, turbocore compressors, R134A / R513A / R1234ze refrigerant, hybrid falling film/flooded evaporator, brazed plate economizer, condenser and freecooling coil with copper tubes and aluminium fins, EC axial fans. Electrical feed 400V/3ph/50Hz (60Hz version as option). IP54 protection rating, chillers suitable for outdoor installation. Additional modules (2 fans) can be added to improve efficiency (before the order). Inbuilt single or double pumps P3 as option. Microchannel condenser coils as option.

Type of available evaporators:
HYB = hybrid falling film / flooded

Type of available expansion elements:
ETS = Electronic expansion valve (available as option)

TECHNICAL DATA

PERFORMANCES		Model	620	700	780	850	920
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	620,0	700,0	780,0	850,0	920,0
TOTAL NOMINAL ABSORBED POWER		kW	178,5	203,0	227,9	241,7	273,1
EER		kW/kW	3,47	3,45	3,42	3,52	3,37
SEPR (HT) (3)		-	5,57	5,56	5,51	5,57	5,55
AIR TEMPERATURE FOR 100% FREE COOLING CAPACITY		°C	2,10	2,15	1,45	1,65	1,10
NOMINAL WATER FLOW		m3/h	106,5	120,3	134,0	146,0	158,1
MECHANICAL MODE PRESSURE DROPS (4) (6) (7)		kPa	55	64	68	65	68
FREE COOLING MODE PRESSURE DROPS (5)	kPa	139	153	172	155	168	
FRIGORIFIC SECTION							
COMPRESSORS / REFRIGERATING CIRCUITS / CAPACITY CONTROL	nr.	2/2/20±102%	2/2/20±102%	2/2/17±106%	2/2/16±100%	2/2/16±100%	
KIND OF EXPANSION ELEMENT	-	ETS	ETS	ETS	ETS	ETS	
KIND OF EVAPORATOR	-	ST	ST	ST	ST	ST	
ECONOMIZER							
TYPE OF ECONOMIZER	type	plate	plate	plate	plate	plate	
HYDRAULIC SECTION							
WATER FLOW RANGE (7)	m3/h	94,0÷188,0	102,0÷203,0	108,0÷210,0	117,0÷210,0	124,0÷227,0	
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	24,85	24,85	31,88	31,88	31,88
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	42,20	42,20	53,50	53,50	53,50
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	39,09	39,09	57,65*	57,65*	57,65*
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	65,60	65,60	93,50	93,50	93,50
HYDRAULIC CONNECTIONS (FLANGED/VICTAULIC) (9)	DN	DN150	DN150	DN200	DN200	DN200	
FAN SECTION (AXIAL)							
FANS	nr.	14	16	16	18	18	
MAXIMUM FANS ABSORBED POWER	EC	kW	25,76	29,44	29,44	33,12	33,12
MAXIMUM FANS ABSORBED CURRENT		A	53,62	61,28	61,28	68,94	68,94
TOTAL AIR FLOW	m3/h	288400	329600	329600	370800	370800	
TOTAL ELECTRIC DATA							
MAXIMUM ABSORBED CURRENT (F.L.A) (7)	A	323,6	481,3	481,3	488,9	488,9	
NOISE DATA							
SOUND PRESSURE FOR STANDARD CONFIGURATION (7) (8)	dB(A)	67,8	68,6	68,6	68,8	68,8	
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (7) (8)	dB(A)	65,8	66,5	66,5	66,9	66,9	
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN) (7) (8)	dB(A)	63,8	64,6	64,6	64,9	64,9	
SOUND PRESSURE FOR EXTRA LOW NOISE OPTION (ELN) (7) (8)	dB(A)	62,8	63,5	63,5	63,9	63,9	
DIMENSIONS AND WEIGHT							
LENGTH	mm	9800	11100	11100	12790	12790	
WIDTH	mm	2210	2210	2210	2210	2210	
HEIGHT	mm	2450	2450	2450	2450	2450	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) (7)	kg	5900	6550	6730	7450	7700	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) (7)	kg	7010	7632	7661	8493	8862	

The manufacturer reserves the right to modify specifications without notice.

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Revision: 03-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value
- (4) Pressure drops taken in account: evaporator, piping
- (5) Pressure drops taken in account: evaporator, valves, piping, free-cooling coil
- (6) Data referred to standard chiller configuration as indicated in frigorific section, with different evaporator this data can change
- (7) Data referred to standard chiller configuration NP (no pump) and EC fans
- (8) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (9) Flanged connections with one of next options: Pump, Double pump, Tank. Flanged connections standard for models 095-160

** pump P5 includes the soft start (SF) option

Gekkold



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Industrial Chiller Supplier

Gekko AIR TCW series

*Watercooled liquid chillers,
turboacor compressors
IP54 protection rating
Suitable for INDOOR and OUTDOOR installation*



GEKKOLD

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Watercooled liquid chillers AIR TCW series, turbocor compressors, R134a / R513a refrigerant (R1234ze on request), 1 flooded or hybrid falling film evaporator, shell and tube condensers, electronic expansion valves, open cabinet and compact design to fit in narrow spaces.
Electrical feed 400V/3ph/50Hz (60Hz version as option), IP54 protection rating, chillers suitable for indoor / outdoor installation.

Types of available condensing temperature control system: No one condensing temperature control system (standard)
PCC2 = 2 ways valve/s on water side, regulated by condensing pressure
PCC3 = 3 ways valve/s on water side, regulated by condensing pressure

Type of compressors starting method: INVERTER

TECHNICAL DATA

PERFORMANCES		Model	240	300	350	430	500	610	700	870
W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	232,8	291,0	339,5	417,1	485,0	591,7	679,0	834,2
	NOMINAL HEATING CAPACITY (4)	kW	277,8	353,4	404,6	504,9	579,8	720,2	809,2	1009,9
	TOTAL NOMINAL ABSORBED POWER	kW	45,0	62,4	65,1	87,8	94,8	128,5	130,2	175,7
	EER	kW/kW	5,17	4,67	5,22	4,75	5,12	4,61	5,22	4,75
	COP (4)	kW/kW	6,17	5,67	6,22	5,75	6,12	5,61	6,22	5,75
	SEPR (HT) (10)	-	7,03	7,03	8,01	8,02	8,04	8,05	8,02	8,06
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	39,9	49,9	58,2	71,5	83,2	101,5	116,4	143,0
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	47,6	60,6	69,4	86,6	99,4	123,5	138,8	173,2
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	34,5	43,4	42,2	46,2	41,8	50,9	55,9	69,2
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	11,5	12,5	13,4	15,4	41,2	39,4	39,3	40,3
W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (2)	NOMINAL COOLING CAPACITY	kW	240,0	300,0	350,0	430,0	500,0	610,0	700,0	860,0
	NOMINAL HEATING CAPACITY (4)	kW	283,7	360,5	413,2	515,3	592,0	734,7	826,4	1030,6
	TOTAL NOMINAL ABSORBED POWER	kW	43,7	60,5	63,2	85,3	92,0	124,7	126,4	170,6
	EER	kW/kW	5,49	4,96	5,54	5,04	5,43	4,89	5,54	5,04
	COP (4)	kW/kW	6,49	5,96	6,54	6,04	6,43	5,89	6,54	6,04
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	41,2	51,4	60,0	73,7	85,7	104,6	120,0	147,5
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	48,6	61,8	70,9	88,4	101,5	126,0	141,7	176,7
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	36,7	46,1	44,8	49,1	44,4	54,1	59,4	73,6
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	12,0	13,0	14,0	16,0	43,0	41,0	41,0	42,0
	FRIGORIFIC SECTION									
COMPRESSORS / REFRIGERATING CIRCUITS / CONDENSERS	nr.	1/1/1	1/1/1	1/1/1	1/1/1	2/1/1	2/1/1	2/1/1	2/1/1	
COMPRESSORS STARTING METHOD	-	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	
HYDRAULIC SECTION (6)										
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m ³ /h	32÷64	36÷73	43÷86	63÷126	73÷140	85÷160	85÷160	97÷195	
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m ³ /h	40÷80	52÷104	59÷119	68÷136	70÷139	75÷150	75÷160	93÷187	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)	DN	100	100	125	125	150	150	150	150	
HYDRAULIC CONNECTIONS, CONDENSER SIDE (FLANGED)	DN	100	125	125	125	125	150	150	150	
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A)	A	145,0	145,0	231,0	231,0	290,0	290,0	462,0	462,0	
MAXIMUM PEAK CURRENT (L.R.A) (9)	A	20,0	20,0	20,0	20,0	165,0	165,0	251,0	251,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (9)	A	16,0	16,0	16,0	16,0	161,0	161,0	247,0	247,0	
NOISE DATA (7)										
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	62,0	62,0	63,0	63,0	65,0	65,0	66,0	66,0	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	57,0	57,0	58,0	58,0	60,0	60,0	61,0	61,0	
DIMENSIONS AND WEIGHT										
LENGTH	mm	2600	2600	2600	2600	3900	3900	4000	4000	
WIDTH	mm	1500	1500	1500	1500	1600	1600	1600	1600	
HEIGHT	mm	2000	2000	2000	2000	2000	2000	2000	2000	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	2250	2850	2900	3000	3650	3700	3800	3900	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kg	2380	3000	3070	3200	3890	3990	4120	4300	

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Data referred to:

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- (9) Data referred to standard compressors starting method, with different starting method this data will change
- (10) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers in the configuration with brazed plate or shell and tube evaporator and without pump. Any added option that modify cooling capacity or absorbed power of the chiller will not be considered in the SEPR value

Watercooled liquid chillers AIR TCW series, turbocor compressors, R134a / R513a refrigerant (R1234ze on request), 1 flooded or hybrid falling film evaporator, shell and tube condensers, electronic expansion valves, open cabinet and compact design to fit in narrow spaces. Electrical feed 400V/3ph/50Hz (60Hz version as option), IP54 protection rating, chillers suitable for indoor / outdoor installation.

Types of available condensing temperature control system: No one condensing temperature control system (standard)
PCC2 = 2 ways valve/s on water side, regulated by condensing pressure
PCC3 = 3 ways valve/s on water side, regulated by condensing pressure

Type of compressors starting method: INVERTER

TECHNICAL DATA

PERFORMANCES		Model	930	1050	1290	1460	1730	1960	2150	2450
W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	902,1	1018,5	1251,3	1416,2	1668,4	1901,2	2085,5	2374,6
	NOMINAL HEATING CAPACITY (4)	kW	1104,3	1213,7	1514,8	1690,6	2019,8	2279,6	2524,7	2857,3
	TOTAL NOMINAL ABSORBED POWER	kW	202,2	195,2	263,5	274,4	351,4	378,4	439,2	482,7
	EER	kW/kW	4,46	5,22	4,75	5,16	4,75	5,02	4,75	4,92
	COP (4)	kW/kW	5,46	6,22	5,75	6,16	5,75	6,02	5,75	5,92
	SEPR (HT) (10)	-	7,06	7,02	7,01	8,05	8,00	8,04	8,06	8,06
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	154,7	174,7	214,6	242,9	286,1	326,0	357,6	407,2
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	189,4	208,1	259,8	289,9	346,4	390,9	432,9	490,0
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	537,1	471,2	616,6	474,9	375,4	463,5	382,9	518,1
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	36,5	37,4	35,5	37,4	43,2	41,3	44,2	40,3
W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (2)	NOMINAL COOLING CAPACITY	kW	930,0	1050,0	1290,0	1460,0	1720,0	1960,0	2150,0	2448,0
	NOMINAL HEATING CAPACITY (4)	kW	1126,3	1239,5	1545,8	1726,4	2061,1	2327,4	2576,4	2916,7
	TOTAL NOMINAL ABSORBED POWER	kW	196,3	189,5	255,8	266,4	341,1	367,4	426,4	468,7
	EER	kW/kW	4,74	5,54	5,04	5,48	5,04	5,33	5,04	5,22
	COP (4)	kW/kW	5,74	6,54	6,04	6,48	6,04	6,33	6,04	6,22
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m ³ /h	159,5	180,1	221,2	250,4	294,9	336,1	368,7	419,8
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m ³ /h	193,1	212,6	265,1	296,0	353,4	399,1	441,8	500,2
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	570,9	500,8	655,3	504,7	398,9	492,7	407,0	550,7
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	38,0	39,0	37,0	39,0	45,0	43,0	46,0	42,0
	FRIGORIFIC SECTION									
COMPRESSORS / REFRIGERATING CIRCUITS / CONDENSERS	nr.	3/1/1	3/1/1	3/1/1	4/1/1	4/1/1	5/1/1	5/1/1	6/1/1	
COMPRESSORS STARTING METHOD	-	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	INVERTER	
HYDRAULIC SECTION (6)										
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m ³ /h	32÷59	39÷78	45÷91	52÷103	58÷116	71÷142	81÷162	96÷192	
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m ³ /h	102÷204	130÷225	140÷323	165÷380	195÷395	201÷442	212÷488	252÷580	
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)	DN	150	150	200	200	250	250	250	300	
HYDRAULIC CONNECTIONS, CONDENSER SIDE (FLANGED)	DN	150	200	200	200	250	250	250	300	
TOTAL ELECTRIC DATA										
MAXIMUM ABSORBED CURRENT (F.L.A)	A	435,0	693,0	693,0	924,0	924,0	1155,0	1155,0	1386,0	
MAXIMUM PEAK CURRENT (L.R.A) (9)	A	310,0	482,0	482,0	713,0	713,0	944,0	944,0	1175,0	
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (9)	A	306,0	478,0	478,0	709,0	709,0	940,0	940,0	1171,0	
NOISE DATA (7)										
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	66,8	67,8	67,8	69,0	69,0	70,0	70,0	70,8	
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	61,8	62,8	62,8	64,0	64,0	65,0	65,0	65,8	
DIMENSIONS AND WEIGHT										
LENGTH	mm	4200	4200	4200	5000	5000	5000	5000	6000	
WIDTH	mm	1800	1800	1800	2210	2210	2210	2210	2210	
HEIGHT	mm	2100	2100	2100	2500	2500	2500	2500	2500	
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	4250	4650	5250	6300	7180	7950	8380	8530	
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kg	4720	5200	5850	7120	8180	9050	9570	10000	

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 PCC2 = 2 ways valve/s on water side, regulated by condensing pressure
 PCC3 = 3 ways valve/s on water side, regulated by condensing pressure

Type of compressors starting method: INVERTER

TECHNICAL DATA

PERFORMANCES		Model	2600	2950	3200	
W 12°C/7°C EVAPORATOR SIDE W 30/35°C CONDENSER SIDE (1)	NOMINAL COOLING CAPACITY	kW	2473,5	2858,6	3104,0	
	NOMINAL HEATING CAPACITY (4)	kW	2989,9	3451,4	3728,1	
	TOTAL NOMINAL ABSORBED POWER	kW	516,4	592,8	624,1	
	EER	kW/kW	4,79	4,82	4,97	
	COP (4)	kW/kW	5,79	5,82	5,97	
	SEPR (HT) (10)	-	8,01	8,04	8,02	
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m3/h	424,2	490,2	532,3	
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	512,7	591,9	639,3	
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	439,5	457,3	489,5	
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	44,2	44,2	45,1	
W 12°C/7°C EVAPORATOR SIDE W 40/45°C CONDENSER SIDE (2)	NOMINAL COOLING CAPACITY	kW	2550,0	2947,0	3200,0	
	NOMINAL HEATING CAPACITY (4)	kW	3051,4	3522,5	3805,9	
	TOTAL NOMINAL ABSORBED POWER	kW	501,4	575,5	605,9	
	EER	kW/kW	5,09	5,12	5,28	
	COP (4)	kW/kW	6,09	6,12	6,28	
	NOMINAL WATER FLOW, EVAPORATOR SIDE (TOTAL)	m3/h	437,3	505,4	548,7	
	NOMINAL WATER FLOW, CONDENSER SIDE (EACH)	m3/h	523,3	604,1	652,6	
	MECHANICAL MODE PRESSURE DROPS, EVAPORATOR SIDE (3)	kPa	467,1	486,0	520,2	
	MECHANICAL MODE PRESSURE DROPS, CONDENSER SIDE (5)	kPa	46,0	46,0	47,0	
	FRIGORIFIC SECTION					
COMPRESSORS / REFRIGERATING CIRCUITS / CONDENSERS	nr.	6/1/1	7/1/1	8/1/1		
COMPRESSORS STARTING METHOD	-	INVERTER	INVERTER	INVERTER		
HYDRAULIC SECTION (6)						
WATER FLOW RANGE, EVAPORATOR SIDE (TOTAL)	m3/h	120÷224	129÷258	147÷294		
WATER FLOW RANGE, CONDENSER SIDE (EACH)	m3/h	265÷600	305÷671	329÷800		
HYDRAULIC CONNECTIONS, EVAPORATOR SIDE (VICTAULIC)	DN	300	300	300		
HYDRAULIC CONNECTIONS, CONDENSER SIDE (FLANGED)	DN	300	300	300		
TOTAL ELECTRIC DATA						
MAXIMUM ABSORBED CURRENT (F.L.A)	A	1386,0	1617,0	1848,0		
MAXIMUM PEAK CURRENT (L.R.A) (9)	A	1175,0	1406,0	1637,0		
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (9)	A	1171,0	1402,0	1633,0		
NOISE DATA (7)						
SOUND PRESSURE FOR STANDARD CONFIGURATION	dB(A)	70,8	71,5	72,0		
SOUND PRESSURE FOR LOW NOISE CONFIGURATION (OPTION LNJ)	dB(A)	65,8	66,5	67,0		
DIMENSIONS AND WEIGHT						
LENGTH	mm	6200	7400	7400		
WIDTH	mm	2210	2210	2210		
HEIGHT	mm	2500	2500	2500		
WEIGHT EMPTY FOR STANDARD CONFIGURATION (5) (8)	kg	9000	9600	10300		
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (5) (8)	kg	10500	11400	11600		

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PROPANE

R290

*Reciprocating compressors Plate
evaporator*

No tank & no pump

Gekko AIR Pro / HPro series

From 56,8 kW up to 688 kW



Technical Data Tables

GEKKOLD

Russian Federation, Moscow,
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Gekko AIR Pro series

Air-Cooled liquid Chillers, R290 refrigerant

EC axial fans

IP54 protection rating

Suitable ONLY for OUTDOOR installation



GEKKOLD

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Modular air-cooled liquid chillers AIR Pro series designed to minimize the refrigerant charge, reciprocating compressors, R290 refrigerant, brazed plate evaporator, aluminium microchannel condenser, AC axial fans regulated with cut phase speed regulator. Electrical feed 400V/3ph/50Hz. IP54 protection rating, chillers suitable only for outdoor installation in open air (10). Leak detection system included.
You can connect up to 8 modules in parallel with a single power supply point into a master control panel installed onboard of the first module.

Available Models configurations:

HT = configuration for leaving water temperature down to 5°C with standard frigorific circuit

MT = configuration for leaving water temperature below 5°C with the adding of liquid-suction heat exchanger on the frigorific circuit that permit to subcooling liquid refrigerant to prevent flash gas formation at inlet to expansion valve and fully evaporating any residual liquid that may remain in the liquid-suction prior to reaching the compressor

TECHNICAL DATA

PERFORMANCES		Model	080	095	120	145	160	190	240	290
PRP-HT (1)	NOMINAL COOLING CAPACITY (8)	kW	84,9	97,3	124,5	138,8	169,8	194,7	248,9	277,6
	TOTAL NOMINAL ABSORBED POWER	kW	24,7	30,0	44,9	51,3	49,4	60,1	89,9	102,5
	EER	kW/kW	3,02	2,91	2,58	2,54	3,02	2,91	2,58	2,54
	REFRIGERANT CHARGE (8) (10)	kg	13	13	13	13	13 + 13	13 + 13	13 + 13	13 + 13
	NOMINAL WATER FLOW	m3/h	14,6	16,7	21,4	23,8	29,3	33,4	42,8	47,7
PRP-MT (2)	SINGLE MODULE PRESSURE DROPS (4)	kPa	45	56	48	48	45	56	48	48
	MULTIPLE MODULES PRESSURE DROPS (5)	kPa	54	69	70	69	54	69	70	69
	NOMINAL COOLING CAPACITY (8)	kW	58,1	65,9	80,9	86,0	116,2	131,7	161,8	172,0
	TOTAL NOMINAL ABSORBED POWER	kW	19,9	24,1	35,7	40,7	39,8	48,2	71,4	81,5
	EER	kW/kW	2,50	2,40	2,07	1,95	2,50	2,40	2,07	1,95
FRIGORIFIC SECTION	REFRIGERANT CHARGE (8) (10)	kg	15	15	15	15	15 + 15	15 + 15	15 + 15	15 + 15
	NOMINAL WATER FLOW	m3/h	13,9	15,6	19,3	20,5	27,8	31,2	38,6	41,1
	SINGLE MODULE PRESSURE DROPS (4)	kPa	57	69	55	50	57	69	55	50
	MULTIPLE MODULES PRESSURE DROPS (5)	kPa	66	80	72	70	66	80	72	70
	FRIGORIFIC SECTION									
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/1	1/1/1	1/1/1	1/1/1	2/2/2	2/2/2	2/2/2	2/2/2
HYDRAULIC SECTION (3)										
WATER FLOW RANGE		m3/h	9÷22	9÷22	16÷40	16÷40	20÷50	20÷50	34÷80	34÷80
HYDRAULIC CONNECTIONS FOR SINGLE MODULE (FLANGED)		DN	50	50	65	65	80	80	100	100
HEADERS CONNECTIONS SIZE (VICTAULIC) (9)		DN	150	150	150	150	150	150	150	150
FAN SECTION (AXIAL)										
FANS		nr.	2	2	2	2	4	4	4	4
AC	MAXIMUM FANS ABSORBED POWER	kW	3,68	3,68	3,68	3,68	7,36	7,36	7,36	7,36
	MAXIMUM FANS ABSORBED CURRENT	A	7,66	7,66	7,66	7,66	15,32	15,32	15,32	15,32
	TOTAL AIR FLOW	m3/h	41160	41160	41160	41160	82320	82320	82320	82320
EC	MAXIMUM FANS ABSORBED POWER (OPTION EC)	kW	5,12	5,12	5,12	5,12	10,24	10,24	10,24	10,24
	MAXIMUM FANS ABSORBED CURRENT (OPTION EC)	A	7,80	7,80	7,80	7,80	15,60	15,60	15,60	15,60
	TOTAL AIR FLOW (OPTION EC)	m3/h	43520	43520	43520	43520	87040	87040	87040	87040
TOTAL ELECTRIC DATA (8)										
MAXIMUM ABSORBED CURRENT (F.L.A)		A	68,7	82,3	111,0	118,9	137,3	164,5	221,9	237,7
MAXIMUM PEAK CURRENT (PART WINDING START) (L.R.A)		A	159,2	188,6	390,0	417,0	227,9	270,9	501,0	535,9
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A)		A	127,4	150,9	312,0	333,6	196,0	233,1	423,0	452,5
NOISE DATA (6) (8)										
SOUND PRESSURE FOR STANDARD CONFIGURATION		dB(A)	59,2	59,5	60,5	64,0	62,2	62,5	63,5	67,0
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ)		dB(A)	57,4	57,9	59,5	60,5	60,4	61,0	62,5	63,5
SOUND PRESSURE FOR SUPER LOW NOISE OPTION (SLN)		dB(A)	55,3	55,7	58,1	59,4	58,3	58,7	61,1	62,5
DIMENSIONS AND WEIGHT										
LENGTH (SINGLE MODULE, HEADERS EXCLUDED)		mm	1610	1610	1610	1610	3300	3300	3300	3300
LENGTH (MULTIPLE MODULES, HEADERS INCLUDED)		mm	1662	1662	1662	1662	3580	3580	3580	3580
WIDTH (SINGLE MODULE, HEADERS EXCLUDED)		mm	2590	2590	2590	2590	2210	2210	2210	2210
WIDTH (MULTIPLE MODULES, HEADERS INCLUDED)		mm	2870	2870	2870	2870	2254	2254	2254	2254
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY (7) (8)		kg	1390	1395	1465	1480	2165	2175	2245	2260
WEIGHT OPERATIVE (7) (8)		kg	1450	1455	1525	1540	2215	2225	2295	2320

The manufacturer reserves the right to modify specifications without notice.

Last update: 12/10/2020
Revision: 01-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water, AC fans
- (2) Data referred to inlet/outlet water temperature = -4/-8 °C, ambient temperature = +35°C, fluid = 70% Water + 30% Ethylene Glycol, AC fans
- (3) Pump and tank can be supplied in a separate hydro-module (GEKKOLD HYD series)
- (4) Pressure drops taken in account: evaporator, piping
- (5) Pressure drops taken in account: evaporator, automatic isolation valves, circuit setter balancing valve, one way valve, piping
- (6) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface
- (7) Weight referred to PRP-LT version, multiple module configuration. Weight to be confirmed in case of order
- (8) Data referred to standard chiller configuration NP (no pump), aluminium microchannel condenser and AC fans
- (9) Headers connection size is valid for a maximum flow rate of 191 m3/h in multi-module configuration. Dimensions will increase for greater flow rate
- (10) PRP series can be installed only in an area with c access category (as per chapter 5.1.1 of EN 378-1:2016) in open air, class III location (as per chapter 5.3 of EN 378-1:2016)

Gekkold



gekkoldprom.com

Industrial Chiller Supplier

Gekko AIR HPro series

*Air-Cooled reversible Heatpumps, R290 refrigerant
EC axial fans*

*IP54 protection rating, leak detection system
Suitable **ONLY** for **OUTDOOR** installation*



GEKKOLD

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Reversible heat-pumps **AIR HPro series**, **PISTONS** compressors, **R290** refrigerant, **brazed-plate evaporator/condenser**, **condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating**, **EC axial fans**, **electronic expansion valve**.
IP54 protection rating, **heat-pump suitable for outdoor installation**. **Minimum working ambient temperature admitted = -5°C**

Type of available evaporators:

B-ES = stainless steel brazed plate evaporator



TECHNICAL DATA

PERFORMANCES		Model	055	063	085	100	120	152	180	200
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	56,8	62,8	86,8	113,7	125,6	153,4	179,0	212,6
TOTAL NOMINAL ABSORBED POWER		kW	17,8	19,9	28,7	35,5	39,7	48,0	58,1	73,4
EER		kW/kW	3,20	3,16	3,02	3,20	3,16	3,20	3,08	2,90
SEPR (HT) (3)		-	5,72	5,73	5,71	5,69	5,97	6,16	5,89	6,07
NOMINAL WATER FLOW (5)		m ³ /h	9,8	10,8	14,9	19,5	21,6	26,4	30,7	36,5
MECHANICAL MODE PRESSURE DROPS (4)		kPa	40	32	45	40	48	35	34	45
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/2	1/1/2	1/1/2	2/2/4	2/2/4	2/2/4	2/2/4	2/2/4
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m ³ /h	6÷12	8÷17	8÷17	13÷23	16÷35	16÷35	20÷40	29÷53
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,53	2,53	2,53	3,46	4,56	4,56	8,30	8,30
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,56	4,56	4,56	6,33	7,75	7,75	14,10	14,10
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	6,12	6,12	6,12	6,12	10,20	10,20	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	10,40	10,40	10,40	17,40	17,40	26,60	26,60
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	2"	2"	2"	DN65	DN65	DN65	DN80	DN80
FAN SECTION (AXIAL)										
FANS		nr.	2	2	2	4	4	4	4	6
MAXIMUM FANS ABSORBED POWER	EC	kW	3,88	3,88	3,88	7,76	7,76	7,76	7,76	11,64
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	15,60	15,60	15,60	15,60	23,40
TOTAL AIR FLOW		m ³ /h	41166	41166	41166	82332	82332	82332	82332	123498
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	41,5	46,1	61,5	82,9	92,2	106,2	122,9	158,6
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	126,1	140,4	167,0	167,6	186,5	205,4	228,5	306,0
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	102,4	113,9	135,2	143,9	160,0	176,5	196,6	263,0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	57,8	58,5	59,3	60,8	61,5	61,8	62,3	63,5
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	57,3	57,5	57,9	60,3	60,5	60,7	60,9	62,4
DIMENSIONS AND WEIGHT										
LENGTH		mm	1610	1610	1610	2910	2910	2910	2910	4210
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	1030	1200	1250	1900	2100	2200	2320	2740
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	1050	1225	1280	1950	2170	2280	2400	2840

The manufacturer reserves the right to modify specifications without notice.

Last update: 05/10/2021
Revision: 00-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Reversible heat-pumps **AIR HPro series**, PISTONS compressors, R290 refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, EC axial fans, electronic expansion valve.
IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -5°C

Type of available evaporators:
B-ES = stainless steel brazed plate evaporator



TECHNICAL DATA

PERFORMANCES		Model	235	260	290	330
NOMINAL COOLING CAPACITY	W 12°C/7°C @ 35°C (1)	kW	237,9	261,4	286,4	330,9
TOTAL NOMINAL ABSORBED POWER		kW	77,1	86,2	100,3	115,1
EER		kW/kW	3,09	3,03	2,86	2,87
SEPR (HT) (3)		-	6,21	6,47	6,17	5,90
NOMINAL WATER FLOW (5)		m ³ /h	40,9	44,9	49,2	56,8
MECHANICAL MODE PRESSURE DROPS (4)		kPa	43	42	40	40
FRIGORIFIC SECTION						
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	2/2/4	2/2/4	2/2/4	2/2/4
HYDRAULIC SECTION						
WATER FLOW RANGE (6)		m ³ /h	29÷53	29÷53	36÷66	36÷70
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	8,30	8,30	8,30	8,30
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	14,10	14,10	14,10	14,10
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,22	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,60	26,60	26,60	26,60
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	DN80	DN80	DN100	DN100
FAN SECTION (AXIAL)						
FANS		nr.	6	6	8	8
MAXIMUM FANS ABSORBED POWER	AC	kW	11,64	11,64	15,52	15,52
MAXIMUM FANS ABSORBED CURRENT		A	23,40	23,40	31,20	31,20
TOTAL AIR FLOW		m ³ /h	123498	123498	164664	164664
TOTAL ELECTRIC DATA						
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	173,7	196,0	224,8	250,1
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	356,6	435,7	518,0	557,6
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	305,0	370,5	440,0	474,2
NOISE DATA						
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	63,6	65,7	66,6	67,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	62,5	63,5	64,5	65,1
DIMENSIONS AND WEIGHT						
LENGTH		mm	4210	4210	5900	5900
WIDTH		mm	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	2850	3270	3900	4050
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	2950	3370	4000	4180

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Reversible heat-pumps **AIR HPro series**, PISTONS compressors, R290 refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, EC axial fans, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -5°C

Type of available evaporators:

B-ES = stainless steel brazed plate evaporator

 **HEATING**

TECHNICAL DATA

PERFORMANCES		Model	055	063	085	100	120	152	180	200
NOMINAL COOLING CAPACITY	W 40°C/45°C @ 7°C (1)	kW	59,0	65,7	92,2	117,9	130,9	159,0	184,4	219,3
TOTAL NOMINAL ABSORBED POWER		kW	18,7	20,4	28,4	37,5	42,2	48,8	56,8	73,0
EER		kW/kW	3,15	3,21	3,24	3,15	3,10	3,26	3,24	3,00
SEPR (HT) (3)		-	3,15	3,21	3,24	3,15	3,10	3,26	3,24	3,00
NOMINAL WATER FLOW (5)		m ³ /h	10,1	11,3	15,8	20,3	22,5	27,3	31,7	37,7
MECHANICAL MODE PRESSURE DROPS (4)		kPa	40	32	45	38	48	37	37	49
FRIGORIFIC SECTION										
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	1/1/2	1/1/2	1/1/2	2/2/4	2/2/4	2/2/4	2/2/4	2/2/4
HYDRAULIC SECTION										
WATER FLOW RANGE (6)		m ³ /h	6÷12	8÷17	8÷17	13÷23	16÷35	16÷35	20÷40	29÷53
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	2,53	2,53	2,53	3,46	4,56	4,56	8,30	8,30
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	4,56	4,56	4,56	6,33	7,75	7,75	14,10	14,10
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	6,12	6,12	6,12	6,12	10,20	10,20	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	10,40	10,40	10,40	10,40	17,40	17,40	26,60	26,60
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	2"	2"	2"	DN65	DN65	DN65	DN80	DN80
FAN SECTION (AXIAL)										
FANS		nr.	2	2	2	4	4	4	4	6
MAXIMUM FANS ABSORBED POWER	EC	kW	3,88	3,88	3,88	7,76	7,76	7,76	7,76	11,64
MAXIMUM FANS ABSORBED CURRENT		A	7,80	7,80	7,80	15,60	15,60	15,60	15,60	23,40
TOTAL AIR FLOW		m ³ /h	41166	41166	41166	82332	82332	82332	82332	123498
TOTAL ELECTRIC DATA										
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	41,5	46,1	61,5	82,9	92,2	106,2	122,9	158,6
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	126,1	140,4	167,0	167,6	186,5	205,4	228,5	306,0
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	102,4	113,9	135,2	143,9	160,0	176,5	196,6	263,0
NOISE DATA										
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	57,8	58,5	59,3	60,8	61,5	61,8	62,3	63,5
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	57,3	57,5	57,9	60,3	60,5	60,7	60,9	62,4
DIMENSIONS AND WEIGHT										
LENGTH		mm	1610	1610	1610	2910	2910	2910	2910	4210
WIDTH		mm	2210	2210	2210	2210	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	1030	1200	1250	1900	2100	2200	2320	2740
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	1050	1225	1280	1950	2170	2280	2400	2840

The manufacturer reserves the right to modify specifications without notice.

Last update: 05/10/2021
Revision: 00-2021

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm

Reversible heat-pumps **AIR HPro series**, PISTONS compressors, R290 refrigerant, brazed-plate evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, EC axial fans, electronic expansion valve.
IP54 protection rating, heat-pump suitable for outdoor installation. Minimum working ambient temperature admitted = -5°C

Type of available evaporators:

B-ES = stainless steel brazed plate evaporator

 **HEATING**

TECHNICAL DATA

PERFORMANCES		Model	235	260	290	330
NOMINAL COOLING CAPACITY	W 40°C/45°C @ 7°C (1)	kW	247,5	270,1	319,9	357,1
TOTAL NOMINAL ABSORBED POWER		kW	78,5	85,6	100,4	113,9
EER		kW/kW	3,15	3,15	3,18	3,14
SEPR (HT) (3)		-	3,15	3,15	3,18	3,14
NOMINAL WATER FLOW (5)		m ³ /h	42,5	46,4	54,9	61,3
MECHANICAL MODE PRESSURE DROPS (4)		kPa	43	41	46	42
FRIGORIFIC SECTION						
COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP		nr.	2/2/4	2/2/4	2/2/4	2/2/4
HYDRAULIC SECTION						
WATER FLOW RANGE (6)		m ³ /h	29÷53	29÷53	36÷66	36÷70
MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP)	P3 (2)	kW	8,30	8,30	8,30	8,30
MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP)		A	14,10	14,10	14,10	14,10
MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH)	P5 (2)	kW	16,22	16,22	16,22	16,22
MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH)		A	26,60	26,60	26,60	26,60
HYDRAULIC CONNECTIONS (THREADED / FLANGED)		BSP / DN	DN80	DN80	DN100	DN100
FAN SECTION (AXIAL)						
FANS		nr.	6	6	8	8
MAXIMUM FANS ABSORBED POWER	AC	kW	11,64	11,64	15,52	15,52
MAXIMUM FANS ABSORBED CURRENT		A	23,40	23,40	31,20	31,20
TOTAL AIR FLOW		m ³ /h	123498	123498	164664	164664
TOTAL ELECTRIC DATA						
ELECTRICAL FEED		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50
MAXIMUM ABSORBED CURRENT (F.L.A) (6)		A	173,7	196,0	224,8	250,1
MAXIMUM PEAK CURRENT (L.R.A) (6)		A	356,6	435,7	518,0	557,6
MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6)		A	305,0	370,5	440,0	474,2
NOISE DATA						
SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7)		dB(A)	63,6	65,7	66,6	67,8
SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7)		dB(A)	62,5	63,5	64,5	65,1
DIMENSIONS AND WEIGHT						
LENGTH		mm	4210	4210	5900	5900
WIDTH		mm	2210	2210	2210	2210
HEIGHT		mm	2500	2500	2500	2500
WEIGHT EMPTY FOR STANDARD CONFIGURATION (6)		kg	2850	3270	3900	4050
WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6)		kg	2950	3370	4000	4180

The manufacturer reserves the right to modify specifications without notice.

Last update: 28/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water
- (2) Available pressure can be calculated from Gekkold Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration NP (no pump) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

* For the configuration DPH (double pump P5) the chiller width will be 1305mm

** For the configurations DP or DPH (double pump P3 or double pump P5) the chiller width will be 1305mm