

4.1 GENERAL TECHNICAL DATA

FX-W-G05

[SI System]

FX-W-G05			0551	0651	0751	0851	0951	1102	1302	1402	1502	1602
Power supply			V/ph/Hz 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50									
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	kW	124,3	140,5	166,3	198,2	221,7	252,4	285,1	311,9	345,2	366,2
Total power input	(1)	kW	25,50	28,41	35,57	40,52	46,10	51,04	56,86	64,04	71,26	76,05
EER	(1)	kW/kW	4,875	4,947	4,671	4,894	4,809	4,949	5,011	4,873	4,842	4,812
ESEER	(1)	kW/kW	5,970	5,950	5,960	5,940	5,930	6,320	6,240	6,220	6,120	6,110
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	123,9	140,1	165,8	197,5	220,8	251,4	284,1	310,7	344,2	365,1
EER	(1)(2)	kW/kW	4,710	4,780	4,500	4,720	4,630	4,770	4,840	4,690	4,690	4,660
ESEER	(1)(2)	kW/kW	5,530	5,510	5,480	5,460	5,440	5,730	5,670	5,630	5,600	5,630
Cooling energy class			B	B	C	B	C	B	B	B	B	B
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(3)	kW	129,0	145,8	172,6	205,6	230,0	261,9	295,7	323,6	358,1	379,9
Total power input	(3)	kW	24,61	27,42	34,33	39,11	44,48	49,26	54,87	61,80	68,76	73,39
Desuperheater heating capacity	(3)	kW	11,02	12,27	15,37	17,51	19,91	22,05	24,57	27,67	30,78	32,86
COOLING WITH TOTAL HEAT RECOVERY												
Cooling capacity	(4)	kW	111,1	126,8	149,2	177,4	198,6	225,4	257,1	280,3	308,9	328,0
Total power input	(4)	kW	33,24	37,16	45,11	51,32	58,46	66,52	74,35	82,36	90,39	96,36
Recovery heat exchanger capacity	(4)	kW	142,4	161,8	191,6	225,6	253,5	287,9	327,0	357,7	393,8	418,6
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	5,944	6,719	7,954	9,479	10,60	12,07	13,63	14,91	16,51	17,51
Pressure drop	(1)	kPa	19,8	19,7	27,6	33,0	41,2	41,0	38,5	46,1	32,0	36,0
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION												
Water flow	(1)	l/s	7,133	8,045	9,611	11,37	12,75	14,45	16,29	17,90	19,83	21,06
Pressure drop	(1)	kPa	22,1	25,9	31,0	27,0	26,5	22,7	26,6	29,3	33,0	28,9
PARTIAL RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(3)	l/s	0,532	0,592	0,742	0,845	0,961	1,064	1,186	1,336	1,486	1,586
Pressure drop	(3)	kPa	11,0	13,6	11,0	14,3	11,0	11,0	13,6	12,1	11,0	12,6
HEAT EXCHANGER RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(4)	l/s	6,871	7,808	9,249	10,89	12,24	13,90	15,79	17,27	19,01	20,21
Pressure drop	(4)	kPa	20,5	24,4	28,7	24,7	24,5	21,0	25,0	27,2	30,3	26,6
REFRIGERANT CIRCUIT												
Compressors nr.		N°	1	1	1	1	1	2	2	2	2	2
Number of capacity steps		N°	0	0	0	0	0	0	0	0	0	0
No. Circuits		N°	1	1	1	1	1	2	2	2	2	2
Regulation			STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS									
Min. capacity step		%	25	25	25	25	25	25	25	25	25	25
Refrigerant			R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
Refrigerant charge		kg	24,0	34,0	32,0	59,0	57,0	47,0	68,0	66,0	63,0	91,0
Oil charge		kg	10,0	10,0	15,0	15,0	15,0	20,0	20,0	25,0	30,0	30,0
Rc (ASHRAE)	(5)	kg/kW	0,20	0,25	0,20	0,30	0,26	0,19	0,24	0,22	0,19	0,25
NOISE LEVEL												
Sound Pressure	(6)	dB(A)	75	75	76	76	76	78	77	78	78	78
Sound power level in cooling	(7)(8)	dB(A)	92	92	93	93	93	95	95	96	96	96
SIZE AND WEIGHT												
A	(9)	mm	2400	2600	2700	3000	3000	3000	3100	3100	3200	3200
B	(9)	mm	920	920	950	960	960	1100	1100	1100	1100	1200
H	(9)	mm	1500	1500	1500	1500	1500	1500	1500	1500	1600	1600
Operating weight	(9)	kg	1050	1110	1280	1450	1460	1710	1820	1990	2280	2430

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger water (in/out) 30,00°C/35,00°C.

2 Values in compliance with EN14511-3:2013.

3 Plant (side) cooling exchanger water (in/out): 12,00°C/7,00°C; Source (side) heat exchanger water (in/out): 30,00°C/35,00°C; Plant (side) heat exchanger recovery water (in/out): 40,00°C/45,00°C.

4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.

5 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).

6 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

7 Sound power on the basis of measurements made in compliance with ISO 9614.

8 Sound power level in cooling, indoors.

9 Unit in standard configuration/execution, without optional accessories.

- Not available

Certified data in EUROVENT

GENERAL TECHNICAL DATA

FX-W-G05

[SI System]

FX-W-G05		1752	
Power supply		V/ph/Hz	400/3/50
PERFORMANCE			
COOLING ONLY (GROSS VALUE)			
Cooling capacity	(1)	kW	400,6
Total power input	(1)	kW	86,66
EER	(1)	kW/kW	4,621
ESEER	(1)	kW/kW	6,090
COOLING ONLY (EN14511 VALUE)			
Cooling capacity	(1)(2)	kW	399,2
EER	(1)(2)	kW/kW	4,480
ESEER	(1)(2)	kW/kW	5,580
Cooling energy class		C	
COOLING WITH PARTIAL RECOVERY			
Cooling capacity	(3)	kW	415,6
Total power input	(3)	kW	83,63
Desuperheater heating capacity	(3)	kW	37,44
COOLING WITH TOTAL HEAT RECOVERY			
Cooling capacity	(4)	kW	359,3
Total power input	(4)	kW	109,8
Recovery heat exchanger capacity	(4)	kW	462,5
EXCHANGERS			
HEAT EXCHANGER USER SIDE IN REFRIGERATION			
Water flow	(1)	l/s	19,16
Pressure drop	(1)	kPa	43,0
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION			
Water flow	(1)	l/s	23,19
Pressure drop	(1)	kPa	24,8
PARTIAL RECOVERY USER SIDE IN REFRIGERATION			
Water flow	(3)	l/s	1,807
Pressure drop	(3)	kPa	12,4
HEAT EXCHANGER RECOVERY USER SIDE IN REFRIGERATION			
Water flow	(4)	l/s	22,32
Pressure drop	(4)	kPa	23,0
REFRIGERANT CIRCUIT			
Compressors nr.		N°	2
Number of capacity steps		N°	0
No. Circuits		N°	2
Regulation		STEPLESS	
Min. capacity step		%	25
Refrigerant		R513A	
Refrigerant charge		kg	116
Oil charge		kg	30,0
Rc (ASHRAE)	(5)	kg/kW	0,29
NOISE LEVEL			
Sound Pressure	(6)	dB(A)	78
Sound power level in cooling	(7)(8)	dB(A)	96
SIZE AND WEIGHT			
A	(9)	mm	3200
B	(9)	mm	1200
H	(9)	mm	1600
Operating weight	(9)	kg	2590

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger water (in/out) 30,00°C/35,00°C.

2 Values in compliance with EN14511-3:2013.

3 Plant (side) cooling exchanger water (in/out): 12,00°C/7,00°C; Source (side) heat exchanger water (in/out): 30,00°C/35,00°C; Plant (side) heat exchanger recovery water (in/out): 40,00°C/45,00°C.

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5 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).

6 Average sound pressure level at 1m distance, unit in a free field on a reflective surface; non-binding value calculated from the sound power level.

7 Sound power on the basis of measurements made in compliance with ISO 9614.

8 Sound power level in cooling, indoors.

9 Unit in standard configuration/execution, without optional accessories.

- Not available

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GENERAL TECHNICAL DATA

ENERGY EFFICIENCY

SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)

Ambient refrigeration

FX-W-G05			0551	0651	0751	0851	0951	1102	1302	1402	1502	1602	1752
Prated,c	(1)	kW	123,90	140,10	165,80	197,50	220,80	251,40	284,10	310,70	344,20	365,10	399,20
SEER	(1)(2)		5,37	5,37	5,36	5,40	5,35	5,64	5,62	5,58	5,61	5,61	5,57
Performance η_s	(1)(3)	%	207	207	206	208	206	218	217	215	216	217	215

Notes:

(1) Seasonal energy efficiency of the cooling environment in AVERAGE climatic conditions [REGULATION (EU) N. 2016/2281]

(2) Seasonal space heating energy index

(3) Seasonal energy efficiency of the space cooling

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