

5.1 GENERAL TECHNICAL DATA

FX-W-G04

[SI System]

FX-W-G04			0551	0651	0751	0851	0951	1102	1302	1402	1502	1702
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	93,17	103,0	125,9	143,6	166,0	188,3	212,0	232,0	259,7	291,8
Total power input	(1)	kW	18,52	20,89	26,21	29,65	33,88	37,05	41,78	47,06	52,41	59,28
EER	(1)	kW/kW	5,038	4,928	4,805	4,851	4,897	5,089	5,072	4,926	4,956	4,921
ESEER	(1)	kW/kW										
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	92,90	102,6	125,5	143,1	165,5	187,7	211,3	231,2	258,9	290,8
EER	(1)(2)	kW/kW	4,850	4,740	4,650	4,670	4,710	4,910	4,910	4,760	4,800	4,750
ESEER	(1)(2)	kW/kW	-	-	-	-	-	-	-	-	-	-
Cooling energy class			B	B	B	B	B	B	B	B	B	B
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(3)	kW	-	-	-	-	-	-	-	-	-	-
Total power input	(3)	kW	-	-	-	-	-	-	-	-	-	-
Desuperheater heating capacity	(3)	kW	-	-	-	-	-	-	-	-	-	-
COOLING WITH TOTAL HEAT RECOVERY												
Cooling capacity	(4)	kW	83,17	92,82	112,5	128,4	148,1	168,0	190,6	207,9	231,4	260,6
Total power input	(4)	kW	24,33	27,47	33,33	37,75	43,12	48,65	54,91	60,74	66,68	75,51
Recovery heat exchanger capacity	(4)	kW	106,0	118,6	143,8	163,9	188,7	213,7	242,3	265,0	294,1	331,6
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	4,455	4,927	6,020	6,866	7,936	9,007	10,14	11,09	12,42	13,96
Pressure drop	(1)	kPa	23,3	28,5	20,3	27,6	27,7	30,7	30,5	36,5	31,6	39,9
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION												
Water flow	(1)	l/s	5,320	5,902	7,242	8,249	9,517	10,74	12,09	13,29	14,87	16,72
Pressure drop	(1)	kPa	19,8	19,2	23,0	27,2	29,7	20,2	20,1	21,7	24,1	27,9
PARTIAL RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(3)	l/s	-	-	-	-	-	-	-	-	-	-
Pressure drop	(3)	kPa	-	-	-	-	-	-	-	-	-	-
HEAT EXCHANGER RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(4)	l/s	5,118	5,727	6,942	7,910	9,107	10,32	11,69	12,79	14,20	16,01
Pressure drop	(4)	kPa	18,3	18,1	21,1	25,0	27,2	18,6	18,9	20,1	22,0	25,6
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			HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze									
Refrigerant charge		kg	22,0	21,0	24,0	35,0	35,0	44,0	46,0	44,0	48,0	55,0
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	0,24	0,21	0,19	0,25	0,21	0,24	0,22	0,19	0,19	0,19
NOISE LEVEL												
Sound Pressure	(6)	dB(A)	75	75	76	76	76	78	78	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	2400	2700	2700	2700	3000	3000	3100	3100	3100
B	(9)	mm	945	945	945	945	945	1100	1100	1100	1100	1100
H	(9)	mm	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Operating weight	(9)	kg	930	940	1210	1290	1310	1690	1700	1860	2030	2170

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 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-G04

[SI System]

FX-W-G04		1902	2002
Power supply		V/ph/Hz	400/3/50 400/3/50
PERFORMANCE			
COOLING ONLY (GROSS VALUE)			
Cooling capacity	(1)	kW	331,8 373,4
Total power input	(1)	kW	67,77 75,44
EER	(1)	kW/kW	4,894 4,952
ESEER	(1)	kW/kW	
COOLING ONLY (EN14511 VALUE)			
Cooling capacity	(1)(2)	kW	330,7 371,9
EER	(1)(2)	kW/kW	4,730 4,770
ESEER	(1)(2)	kW/kW	- -
Cooling energy class			B B
COOLING WITH PARTIAL RECOVERY			
Cooling capacity	(3)	kW	- -
Total power input	(3)	kW	- -
Desuperheater heating capacity	(3)	kW	- -
COOLING WITH TOTAL HEAT RECOVERY			
Cooling capacity	(4)	kW	296,2 333,7
Total power input	(4)	kW	86,24 95,98
Recovery heat exchanger capacity	(4)	kW	377,2 423,9
EXCHANGERS			
HEAT EXCHANGER USER SIDE IN REFRIGERATION			
Water flow	(1)	l/s	15,87 17,86
Pressure drop	(1)	kPa	38,8 49,2
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION			
Water flow	(1)	l/s	19,03 21,38
Pressure drop	(1)	kPa	29,6 29,0
PARTIAL RECOVERY USER SIDE IN REFRIGERATION			
Water flow	(3)	l/s	- -
Pressure drop	(3)	kPa	- -
HEAT EXCHANGER RECOVERY USER SIDE IN REFRIGERATION			
Water flow	(4)	l/s	18,21 20,46
Pressure drop	(4)	kPa	27,2 26,7
REFRIGERANT CIRCUIT			
Compressors nr.		N°	2 2
Number of capacity steps		N°	0 0
No. Circuits		N°	2 2
Regulation			STEPLESS STEPLESS
Min. capacity step		%	25 25
Refrigerant			HFC-1234ze HFC-1234ze
Refrigerant charge		kg	55,0 69,0
Oil charge		kg	30,0 37,0
Rc (ASHRAE)	(5)	kg/kW	0,17 0,19
NOISE LEVEL			
Sound Pressure	(6)	dB(A)	78 79
Sound power level in cooling	(7)(8)	dB(A)	96 98
SIZE AND WEIGHT			
A	(9)	mm	3100 3640
B	(9)	mm	1100 1240
H	(9)	mm	1500 2050
Operating weight	(9)	kg	2190 3270

Notes:

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2 Values in compliance with EN14511

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

Certified data in EUROVENT

GENERAL TECHNICAL DATA

ENERGY EFFICIENCY

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

Ambient refrigeration

FX-W-G04			0551	0651	0751	0851	0951	1102	1302	1402	1502	1702	1902	2002
Prated,c	(1)	kW	92,90	102,6	125,5	143,1	165,5	187,7	211,3	231,2	258,9	290,8	330,7	371,9
SEER	(1)(2)		5,45	5,40	5,38	5,44	5,46	5,64	5,73	5,66	5,68	5,74	5,72	5,56
Rendimento ηs	(1)(3)	%	210	208	207	209	210	218	221	218	219	222	221	214

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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