

6.1 GENERAL TECHNICAL DATA

i-FX-W (1+i)-G05

[SI System]

i-FX-W (1+i)-G05			1402	1752	1902	2152	2602	3002	3402	3852	4252	4652
Power supply			V/ph/Hz									
PERFORMANCE												
PERFORMANCE MAX												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)(4)	kW	532,3	665,0	721,0	819,3	998,7	1143	1296	1472	1607	1784
Total power input	(1)(4)	kW	102,0	124,6	135,4	154,6	189,4	216,0	243,1	275,6	303,9	343,4
EER	(1)(4)	kW/kW	5,219	5,337	5,325	5,299	5,273	5,292	5,331	5,341	5,288	5,195
HEATING ONLY (GROSS VALUE)												
Total heating capacity	(2)(4)	kW	592,6	731,1	801,5	910,9	1098	1255	1445	1640	1772	1948
Total power input	(2)(4)	kW	128,9	157,3	171,5	195,9	236,4	269,8	303,8	344,3	377,4	424,2
COP	(2)(4)	kW/kW	4,597	4,648	4,673	4,650	4,645	4,652	4,756	4,763	4,695	4,592
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)(4)	l/s	25,45	31,80	34,48	39,18	47,76	54,66	61,97	70,41	76,87	85,33
Pressure drop at the heat exchanger	(1)(4)	kPa	32,1	41,3	37,4	37,0	36,7	39,9	37,8	36,6	40,6	53,8
HEAT EXCHANGER USER SIDE IN HEATING												
Water flow	(2)(4)	l/s	28,61	35,29	38,69	43,97	52,99	60,58	69,74	79,17	85,55	94,03
Pressure drop at the heat exchanger	(2)(4)	kPa	40,6	37,8	42,7	42,1	38,6	31,9	36,6	32,5	32,2	30,9
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION												
Water flow	(1)(4)	l/s	30,22	37,63	40,81	46,41	56,61	64,76	73,34	83,30	91,08	101,4
Pressure drop at the heat exchanger	(1)(4)	kPa	45,3	42,9	47,5	46,9	44,0	36,4	40,4	36,0	36,6	36,0
HEAT EXCHANGER SOURCE SIDE IN HEATING												
Water flow	(2)(4)	l/s	34,17	38,89	44,44	50,00	59,72	68,05	86,11	97,22	97,22	97,22
Pressure drop at the heat exchanger	(2)(4)	kPa	57,8	61,7	62,2	60,3	57,3	61,8	73,0	69,8	64,9	69,8
NOISE LEVEL												
Sound Pressure	(7)(4)	dB(A)	82	82	81	83	83	83	82	82	84	84
Sound power level in cooling	(1)(4)(8)	dB(A)	100	100	100	102	102	102	102	102	104	104
Sound power level in heating	(2)(4)(8)	dB(A)	100	100	100	102	102	102	102	102	104	104
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COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(3)(5)	kW	487,6	609,4	660,7	751,5	916,2	1048	1189	1351	1485	1636
EER	(1)(3)(5)	kW/kW	5,180	5,290	5,280	5,280	5,290	5,320	5,370	5,410	5,330	5,270
Cooling energy class	(1)(3)(5)		-	-	-	-	-	-	-	-	-	-
HEATING ONLY (EN14511 VALUE)												
Total heating capacity	(2)(3)(5)	kW	543,5	670,7	734,9	835,4	1006	1150	1321	1499	1633	1781
COP	(2)(3)(5)	kW/kW	4,510	4,570	4,580	4,590	4,610	4,630	4,700	4,730	4,670	4,610
Cooling energy class	(2)(3)(5)		-	-	-	-	-	-	-	-	-	-
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(1)(5)	l/s	23,34	29,16	31,62	35,96	43,84	50,15	56,88	64,63	71,06	78,30
Pressure drop at the heat exchanger	(1)(3)(5)	kPa	27,0	34,7	31,5	31,2	30,9	33,6	31,9	30,9	34,7	45,3
HEAT EXCHANGER USER SIDE IN HEATING												
Water flow	(2)(5)	l/s	26,21	32,35	35,45	40,30	48,55	55,47	63,73	72,34	78,81	85,93
Pressure drop at the heat exchanger	(2)(3)(5)	kPa	34,1	31,7	35,8	35,4	32,4	26,7	30,5	27,1	27,4	25,8
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION												
Water flow	(1)(5)	l/s	27,61	34,38	37,29	42,42	51,72	59,11	66,96	76,02	83,76	92,41
Pressure drop at the heat exchanger	(1)(3)(5)	kPa	37,8	35,8	39,6	39,2	36,7	30,3	33,7	30,0	30,9	29,9
HEAT EXCHANGER SOURCE SIDE IN HEATING												
Water flow	(2)(5)	l/s	34,17	38,89	44,44	50,00	59,72	68,06	84,97	96,56	97,22	97,22
Pressure drop at the heat exchanger	(2)(3)(5)	kPa	57,8	61,7	62,2	60,3	57,3	61,8	71,1	68,9	64,9	69,8
NOISE LEVEL												
Sound Pressure	(7)(5)	dB(A)	82	82	81	83	83	83	82	82	84	84
Sound power level in cooling	(1)(5)(8)	dB(A)	100	100	100	102	102	102	102	102	104	104
Sound power level in heating	(2)(5)(8)	dB(A)	100	100	100	102	102	102	102	102	104	104
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	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	1	1	1	1	1
Regulation			STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS
Min. capacity step		%	18	18	18	18	18	18	18	18	18	18
Refrigerant			R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
Refrigerant charge	(10)	kg	130	176	181	195	284	325	347	356	372	372
Oil charge		kg	30,0	44,0	38,0	38,0	60,0	60,0	60,0	60,0	62,0	64,0
Rc (ASHRAE)	(6)(10)	kg/kW	-	-	-	-	-	-	-	-	-	-
SIZE AND WEIGHT												
A	(9)	mm	2950	3310	3310	3310	4475	4475	4570	4650	4650	4850
B	(9)	mm	1320	1425	1445	1480	1410	1405	1435	1495	1495	1495
H	(9)	mm	1805	1935	2000	2150	2250	2250	2380	2500	2500	2500
Operating weight	(9)	kg	3350	4280	4410	4830	6630	7470	8220	8800	8930	9340

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 User side exchanger hot water temperature (in/out) 40,00°C/45,00°C; Source side exchanger water temperature(in/out) 10,00°C/6,70°C (or the maximum calculated temperature coming from the maximum flow rate allowed)

3 Values in compliance with EN14511

4 Unit performance with inverter compressor at maximum speeds.

5 Unit performance with inverter compressor at nominal speed.

6 Rated in accordance with AHRI Standard 550/590

7 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.

8 Sound power on the basis of measurements taken in compliance with ISO 9614.

9 Unit in standard configuration, without optional accessories.

10 Nominal value, please refer always to the printed value on the unit data plate.

- Not available

Data certified in EUROVENT

**8.1 TECHNICAL DATA SEASONAL
EFFICIENCY IN COOLING (EN14825
VALUE)**

[SI System]

ENERGY EFFICIENCY

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

i-FX-W (1+i)-G05			1402	1752	1902	2152	2602	3002	3402	3852	4252	4652
Prated,c	(1)	kW	487,6	609,4	660,7	751,5	916,2	1048,0	1189,0	1351,0	1485,0	1636,0
SEER	(1) (2)	-	7,98	7,93	7,89	8,01	8,11	8,09	7,95	8,02	7,85	7,81
Performance η_s	(1) (3)	%	316,0	314,0	313,0	317,0	321,0	321,0	315,0	318,0	311,0	310,0

Notes:
 (1) Parameter calculated according to [REGULATION (EU) N. 2016/2281]
 (2) Seasonal energy efficiency ratio
 (3) Seasonal space cooling energy efficiency
 The units highlighted in this publication contain R513A [GWP₁₀₀ 631] fluorinated greenhouse gases.
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