

7 GENERAL TECHNICAL DATA

Data Book

i-FX2-W-G04 0402 - 1242_202201_EN R1234ze

[SI System]

i-FX2-W-G04			0402	0452	0502	0572	0632	0702	0762	0852	0942	1042
Power supply		V/ph/Hz 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50 400/3/50										
PERFORMANCE												
COOLING ONLY (GROSS VALUE)												
Cooling capacity	(1)	kW	397,8	450,0	504,0	566,0	626,0	702,0	762,0	850,0	938,0	1040
Total power input	(1)	kW	78,13	87,90	97,27	111,0	125,7	145,2	167,7	160,8	177,6	200,2
EER	(1)	kW/kW	5,093	5,119	5,180	5,099	4,980	4,835	4,544	5,286	5,282	5,195
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(2)(3)	kW	397,5	449,6	503,6	565,6	625,5	701,5	761,4	849,4	937,4	1039
EER	(2)(3)	kW/kW	4,940	4,950	5,030	4,950	4,840	4,700	4,420	5,130	5,130	5,050
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(2)	l/s	19,03	21,52	24,10	27,07	29,94	33,57	36,44	40,65	44,86	49,74
Pressure drop at the heat exchanger	(2)	kPa	30,0	30,1	30,5	31,1	31,5	34,8	35,3	34,3	34,2	35,3
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION												
Water flow	(2)	l/s	22,67	25,62	28,65	32,25	35,80	40,34	44,24	48,17	53,16	59,09
Pressure drop at the heat exchanger	(2)	kPa	30,5	38,9	29,7	32,6	36,0	31,6	38,1	34,3	32,6	32,6
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°	2	2	2	2	2	2	2	2	2	2
Regulation			STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS
Min. capacity step		%	16	15	13	12	11	10	9	16	15	13
Refrigerant			R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze
Theoretical refrigerant charge		kg	118	118	142	142	156	223	234	246	258	271
Oil charge		kg	36,0	36,0	36,0	36,0	36,0	36,0	36,0	70,0	70,0	70,0
Rc (ASHRAE)	(4)	kg/kW	0,30	0,27	0,29	0,26	0,25	0,32	0,31	0,29	0,28	0,27
NOISE LEVEL												
Total sound Pressure	(5)	dB(A)	81	83	83	83	84	84	84	79	82	82
Total sound power level in cooling	(6)(7)	dB(A)	100	102	102	102	103	104	104	99	102	102
SIZE AND WEIGHT												
A	(8)	mm	3540	3540	3540	3580	3580	4730	4730	4730	4730	4730
B	(8)	mm	1520	1520	1520	1630	1630	1630	1630	1710	1710	1710
H	(8)	mm	2140	2140	2140	2140	2140	2140	2140	2200	2200	2200
Operating weight	(8)	kg	4750	4810	5030	5090	5260	6280	6590	7590	7890	8300

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 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.

3 Values in compliance with EN14511

4 Rated in accordance with AHRI Standard 550/590

5 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.

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

7 Sound power level in cooling, indoors.

8 Unit in standard configuration, without optional accessories.

- Not available

Data certified in EUROVENT

GENERAL TECHNICAL DATA

Data Book

i-FX2-W-G04 0402 - 1242_202201_EN R1234ze

[SI System]

i-FX2-W-G04		1122		1242	
Power supply		V/ph/Hz 400/3/50 400/3/50			
PERFORMANCE					
COOLING ONLY (GROSS VALUE)					
Cooling capacity	(1)	kW	1118	1242	
Total power input	(1)	kW	221,4	253,8	
EER	(1)	kW/kW	5,050	4,894	
COOLING ONLY (EN14511 VALUE)					
Cooling capacity	(2)(3)	kW	1117	1241	
EER	(2)(3)	kW/kW	4,900	4,770	
EXCHANGERS					
HEAT EXCHANGER USER SIDE IN COOLING					
Water flow	(2)	l/s	53,47	59,40	
Pressure drop at the heat exchanger	(2)	kPa	35,6	35,7	
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION					
Water flow	(2)	l/s	63,80	71,23	
Pressure drop at the heat exchanger	(2)	kPa	38,0	32,2	
REFRIGERANT CIRCUIT					
Compressors nr.		N°	2	2	
Number of capacity steps		N°	0	0	
No. Circuits		N°	2	2	
Regulation		STEPSLESS STEPSLESS			
Min. capacity step		%	12	11	
Refrigerant		R1234ze R1234ze			
Theoretical refrigerant charge		kg	285	299	
Oil charge		kg	70,0	70,0	
Rc (ASHRAE)	(4)	kg/kW	0,26	0,25	
NOISE LEVEL					
Total sound Pressure	(5)	dB(A)	83	83	
Total sound power level in cooling	(6)(7)	dB(A)	103	103	
SIZE AND WEIGHT					
A	(8)	mm	4730	4800	
B	(8)	mm	1710	1810	
H	(8)	mm	2200	2450	
Operating weight	(8)	kg	8650	9400	

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 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.

3 Values in compliance with EN14511

4 Rated in accordance with AHRI Standard 550/590

5 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.

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

7 Sound power level in cooling, indoors.

8 Unit in standard configuration, without optional accessories.

- Not available

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GENERAL TECHNICAL DATA

Data Book

i-FX2-W-G04 0402 - 1242_202201_EN R1234ze

[SI System]

i-FX2-W-G04 + HWT kit			0402	0452	0502	0572	0632	0702	0762	0852	0942	1042
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	412,0	460,0	502,0	570,0	628,0	700,0	768,0	858,0	942,0	1044
Total power input	(1)	kW	78,63	87,97	96,72	113,9	127,3	147,1	165,0	164,6	184,6	212,6
EER	(1)	kW/kW	5,242	5,227	5,191	5,004	4,933	4,759	4,655	5,213	5,103	4,911
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(2)(3)	kW	411,7	459,6	501,6	569,5	627,5	699,5	767,5	857,5	941,4	1043
EER	(2)(3)	kW/kW	5,080	5,050	5,040	4,860	4,790	4,630	4,520	5,060	4,960	4,780
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN COOLING												
Water flow	(2)	l/s	19,70	22,00	24,01	27,26	30,03	33,47	36,73	41,03	45,05	49,93
Pressure drop at the heat exchanger	(2)	kPa	32,2	31,4	30,2	31,5	31,7	34,6	35,8	34,9	34,5	35,5
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION												
Water flow	(2)	l/s	23,38	26,11	28,53	32,57	35,97	40,33	44,42	48,73	53,67	59,84
Pressure drop at the heat exchanger	(2)	kPa	32,4	40,4	29,4	33,3	36,4	31,6	38,4	35,1	33,2	33,4
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°	2	2	2	2	2	2	2	2	2	2
Regulation			STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS	STEPSLESS
Min. capacity step		%	16	15	13	12	11	10	9	16	15	13
Refrigerant			R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze	R1234ze
Theoretical refrigerant charge		kg	118	118	142	142	156	223	234	246	258	271
Oil charge		kg	36,0	36,0	36,0	36,0	36,0	36,0	36,0	70,0	70,0	70,0
Rc (ASHRAE)	(4)	kg/kW	0,29	0,26	0,29	0,25	0,25	0,32	0,31	0,29	0,28	0,26
NOISE LEVEL												
Total sound Pressure	(5)	dB(A)	81	83	83	83	84	84	84	79	82	82
Total sound power level in cooling	(6)(7)	dB(A)	100	102	102	102	103	104	104	99	102	102
SIZE AND WEIGHT												
A	(8)	mm	3540	3540	3540	3580	3580	4730	4730	4730	4730	4730
B	(8)	mm	1520	1520	1520	1630	1630	1630	1630	1710	1710	1710
H	(8)	mm	2140	2140	2140	2140	2140	2140	2140	2200	2200	2200
Operating weight	(8)	kg	4750	4810	5030	5090	5260	6280	6590	7590	7890	8300

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 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.

3 Values in compliance with EN14511

4 Rated in accordance with AHRI Standard 550/590

5 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.

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

7 Sound power level in cooling, indoors.

8 Unit in standard configuration, without optional accessories.

- Not available

Data certified in EUROVENT

GENERAL TECHNICAL DATA

Data Book

i-FX2-W-G04 0402 - 1242_202201_EN R1234ze

[SI System]

i-FX2-W-G04 + HWT kit		1122	1242
Power supply		V/ph/Hz	400/3/50 400/3/50
PERFORMANCE			
COOLING ONLY (GROSS VALUE)			
Cooling capacity	(1)	kW	1134 1256
Total power input	(1)	kW	231,8 271,8
EER	(1)	kW/kW	4,892 4,621
COOLING ONLY (EN14511 VALUE)			
Cooling capacity	(2)(3)	kW	1133 1255
EER	(2)(3)	kW/kW	4,750 4,500
EXCHANGERS			
HEAT EXCHANGER USER SIDE IN COOLING			
Water flow	(2)	l/s	54,23 60,06
Pressure drop at the heat exchanger	(2)	kPa	36,6 36,5
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION			
Water flow	(2)	l/s	65,04 72,72
Pressure drop at the heat exchanger	(2)	kPa	39,5 33,6
REFRIGERANT CIRCUIT			
Compressors nr.		N°	2 2
Number of capacity steps		N°	0 0
No. Circuits		N°	2 2
Regulation		STEPSLESS STEPSLESS	
Min. capacity step		%	12 11
Refrigerant		R1234ze R1234ze	
Theoretical refrigerant charge		kg	285 299
Oil charge		kg	70,0 70,0
Rc (ASHRAE)	(4)	kg/kW	0,26 0,24
NOISE LEVEL			
Total sound Pressure	(5)	dB(A)	83 83
Total sound power level in cooling	(6)(7)	dB(A)	103 103
SIZE AND WEIGHT			
A	(8)	mm	4730 4800
B	(8)	mm	1710 1810
H	(8)	mm	2200 2450
Operating weight	(8)	kg	8650 9400

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 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.

3 Values in compliance with EN14511

4 Rated in accordance with AHRI Standard 550/590

5 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.

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

7 Sound power level in cooling, indoors.

8 Unit in standard configuration, without optional accessories.

- Not available

Data certified in EUROVENT

8 TECHNICAL DATA SEASONAL EFFICIENCY IN COOLING (EN14825 VALUE)

Data Book

i-FX2-W-G04 0402 - 1242_202201_EN R1234ze

[SI System]

ENERGY EFFICIENCY

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

Ambient refrigeration

i-FX2-W-G04			0402	0452	0502	0572	0632	0702	0762	0852	0942	1042
Prated,c	(1)	kW	397,5	449,6	503,6	565,6	625,5	701,5	761,4	849,4	937,4	1039,0
SEER	(1) (2)	-	8,02	8,07	8,11	8,17	8,20	8,26	8,25	8,51	8,58	8,56
Performance η_s	(1) (3)	%	318,0	320,0	321,0	324,0	325,0	328,0	327,0	337,0	340,0	340,0
i-FX2-W-G04			1122	1242								
Prated,c	(1)	kW	1117,0	1241,0								
SEER	(1) (2)	-	8,64	8,65								
Performance η_s	(1) (3)	%	343,0	343,0								
i-FX2-W-G04 + HWT kit			0402	0452	0502	0572	0632	0702	0762	0852	0942	1042
Prated,c	(1)	kW	411,7	459,6	501,6	569,5	627,5	699,5	767,5	857,5	941,4	1043,0
SEER	(1) (2)	-	7,87	7,95	7,99	7,91	7,88	7,92	7,90	8,00	8,01	8,00
Performance η_s	(1) (3)	%	312,0	315,0	317,0	313,0	312,0	314,0	313,0	317,0	317,0	317,0
i-FX2-W-G04 + HWT kit			1122	1242								
Prated,c	(1)	kW	1133,0	1255,0								
SEER	(1) (2)	-	8,19	8,12								
Performance η_s	(1) (3)	%	325,0	322,0								

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 R1234ze [GWP₁₀₀ 1] fluorinated greenhouse gases.

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