

I-FX (1+I)-Z /CA

			2602	2662	2722	3152	3602	3902	4212	4513	4953	5403
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	567	631	700	785	858	951	1045	1127	1196	1273
Total power input	(1)	kW	181	201	224	249	273	302	333	359	380	405
EER	(1)	kW/kW	3,13	3,14	3,13	3,15	3,14	3,15	3,14	3,14	3,15	3,14
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	566	629	698	783	855	949	1042	1123	1192	1269
EER	(1)(2)	kW/kW	3,10	3,10	3,10	3,12	3,10	3,11	3,10	3,10	3,11	3,10
Cooling energy class		A	A	A	A	A	A	A	A	A	A	A
SEPR	(3)(4)		5,74	5,72	5,59	5,63	5,52	5,53	5,66	5,64	5,84	5,73
COOLING ONLY (GROSS VALUE)												
16°C/10°C												
Cooling capacity	(5)	kW	623	691	768	862	942	1045	1147	1234	1311	1395
Total power input	(5)	kW	188	208	232	258	284	313	345	371	394	420
EER	(5)	kW/kW	3,31	3,32	3,31	3,34	3,31	3,33	3,32	3,32	3,33	3,32
23°C/15°C												
Cooling capacity	(6)	kW	717	793	882	993	1083	1205	1303	1414	1505	1602
Total power input	(6)	kW	199	219	244	273	302	332	350	392	416	444
EER	(6)	kW/kW	3,60	3,62	3,61	3,63	3,58	3,63	3,72	3,61	3,62	3,60
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	27,14	30,17	33,48	37,55	41,03	45,49	49,96	53,90	57,18	60,88
Pressure drop	(1)(2)	kPa	36,0	35,4	31,1	34,5	41,2	36,7	44,3	51,6	43,6	49,5
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	2	3	3	3
No. Circuits		N°	2	2	2	2	2	2	2	3	3	3
Refrigerant charge		kg	115	180	190	200	200	210	220	255	245	255
NOISE LEVEL												
Sound Pressure	(7)	dB(A)	67	68	68	68	69	70	71	72	72	72
Sound power level in cooling	(8)(9)	dB(A)	100	101	101	101	102	103	104	105	105	105
SIZE AND WEIGHT												
A	(10)	mm	7000	7900	7900	7900	9860	10790	11720	12630	12630	12630
B	(10)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(10)	mm	2530	2530	2530	2530	2530	2530	2530	2530	2530	2530
Operating weight	(10)	kg	6130	7170	7460	7970	9110	10080	10140	11640	12570	12950

I-FX (1+I)-Z /SL

			2602	2662	2722	3152	3903	3953	4013	4063	4953	5403
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	544	611	679	752	805	880	946	1018	1143	1209
Total power input	(1)	kW	181	201	222	249	268	295	311	335	380	411
EER	(1)	kW/kW	3,01	3,04	3,06	3,03	3,01	2,98	3,04	3,04	3,01	2,94
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	542	610	677	750	802	878	944	1015	1140	1205
EER	(1)(2)	kW/kW	2,98	3,01	3,03	3,00	2,97	2,95	3,01	3,00	2,97	2,90
Cooling energy class		B	B	B	B	B	B	B	B	B	B	B
SEPR	(3)(4)		5,89	5,86	5,71	5,83	5,81	5,70	5,61	5,79	5,95	5,84
COOLING ONLY (GROSS VALUE)												
16°C/10°C												
Cooling capacity	(5)	kW	595	668	743	823	880	964	1034	1112	1249	1322
Total power input	(5)	kW	189	209	231	259	279	309	324	349	396	429
EER	(5)	kW/kW	3,15	3,19	3,21	3,18	3,15	3,12	3,19	3,19	3,16	3,08
23°C/15°C												
Cooling capacity	(6)	kW	681	763	850	943	1006	1103	1180	1270	1426	1509
Total power input	(6)	kW	202	223	247	276	298	330	344	371	421	458
EER	(6)	kW/kW	3,38	3,43	3,45	3,41	3,38	3,34	3,43	3,42	3,39	3,29
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	26,00	29,22	32,46	35,97	38,48	42,09	45,25	48,67	54,66	57,83
Pressure drop	(1)(2)	kPa	33,0	33,2	29,2	31,7	36,3	31,5	36,4	42,1	39,9	44,6
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	3	3	3	3	3	3
No. Circuits		N°	2	2	2	2	3	3	3	3	3	3
Refrigerant charge		kg	115	180	190	200	200	200	210	220	255	255
NOISE LEVEL												
Sound Pressure	(7)	dB(A)	58	59	60	60	60	60	60	61	61	64
Sound power level in cooling	(8)(9)	dB(A)	91	92	93	93	93	93	93	94	94	97
SIZE AND WEIGHT												
A	(10)	mm	7000	7900	7900	7900	9900	10800	10800	11700	11700	12630
B	(10)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(10)	mm	2530	2530	2530	2530	2530	2530	2530	2530	2530	2530
Operating weight	(10)	kg	6410	7400	7690	8370	9570	10080	10650	11090	12600	13530

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger air (in) 35°C.
 - 2 Values in compliance with EN14511-3:2013.
 - 3 Seasonal space heating energy index
 - 4 Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
 - 5 Plant (side) cooling exchanger water (in/out) 16°C/ 10°C; Source (side) heat exchanger air (in) 35°C.
 - 6 User (side) cooling exchanger water (in/out) 23°C/ 15°C; Source (side) heat exchanger air (in) 35°C.
 - 7 Average sound pressure level at 10m 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 made in compliance with ISO 9614.
 - 9 Sound power level in cooling, outdoors.
 - 10 Unit in standard configuration/execution, without optional accessories.
- The units highlighted in this publication contain HFC R134a [GWP₁₀₀ 1430] fluorinated greenhouse gases.

Certified data in EUROVENT



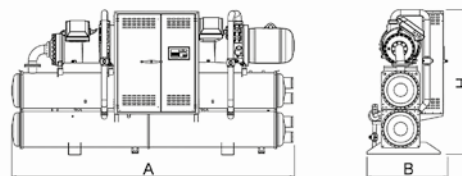
i-FX-W (1+i)-Z			1402	1752	1902	2152	2602	3002	3402	3852	4252
Power supply			V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
PERFORMANCE											
COOLING ONLY (GROSS VALUE)											
Cooling capacity	(1)	kW	488	610	661	752	917	1049	1189	1351	1486
Total power input	(1)	kW	87,6	107	116	132	161	184	206	233	260
EER	(1)	kW/kW	5,57	5,70	5,69	5,68	5,68	5,71	5,76	5,79	5,71
ESEER	(1)	kW/kW	8,52	8,57	8,47	8,62	8,63	8,55	8,56	8,60	8,44
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	487	608	659	750	914	1046	1186	1348	1482
EER	(1)(2)	kW/kW	5,37	5,49	5,48	5,47	5,47	5,52	5,58	5,62	5,52
Cooling energy class			-	-	-	-	-	-	-	-	-
SEPR	(3)(4)		7,85	7,98	7,79	7,84	7,74	7,88	7,98	8,04	7,74
COOLING ONLY (GROSS VALUE)											
16°C/10°C											
Cooling capacity	(5)	kW	545	680	737	839	1023	1171	1327	1508	1657
Total power input	(5)	kW	88,2	108	117	133	163	186	209	237	264
EER	(5)	kW/kW	6,18	6,32	6,28	6,28	6,27	6,30	6,34	6,38	6,27
23°C/15°C											
Cooling capacity	(6)	kW	645	804	870	990	1209	1384	1569	1782	1957
Total power input	(6)	kW	88,6	108	118	135	165	189	213	240	268
EER	(6)	kW/kW	7,28	7,45	7,35	7,35	7,31	7,34	7,38	7,41	7,29
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	23,34	29,16	31,62	35,96	43,84	50,15	56,88	64,63	71,06
Pressure drop	(1)(2)	kPa	30,5	34,7	33,8	33,2	37,1	37,5	31,9	30,9	37,3
HEAT EXCHANGER SOURCE SIDE IN REFRIGERATION											
Water flow	(1)	l/s	27,44	34,18	37,07	42,16	51,41	58,76	66,56	75,57	83,27
Pressure drop	(1)(2)	kPa	37,4	35,4	41,7	41,5	38,7	30,0	33,3	29,6	35,9
REFRIGERANT CIRCUIT											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
No. Circuits		N°	1	1	1	1	1	1	1	1	1
Refrigerant charge		Kg	136	170	188	212	264	289	328	372	410
NOISE LEVEL											
Sound Pressure	(7)	dB(A)	80	79	79	81	81	81	80	80	82
Sound power level in cooling	(8)(9)	dB(A)	98	98	98	100	100	100	100	100	102
SIZE AND WEIGHT											
A	(10)	mm	2950	3350	3350	3350	4500	4500	4600	4650	4650
B	(10)	mm	1380	1450	1450	1480	1420	1420	1450	1510	1510
H	(10)	mm	2000	2270	2270	2270	2270	2270	2350	2500	2500
Operating weight	(10)	Kg	3340	4190	4280	4680	6420	7260	7960	8490	8580

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 12°C/7°C; Source (side) heat exchanger water (in/out) 30°C/35°C.
- 2 Values in compliance with EN14511-3:2013.
- 3 Seasonal space heating energy index
- 4 Seasonal energy efficiency of high temperature process cooling [REGULATION (EU) N. 2016/2281]
- 5 User side heat exchanger water temperature (in/out) 16°C/10°C; source side heat exchanger water temperature (in/out) 30°C/35°C.
- 6 User side heat exchanger water temperature (in/out) 23°C/15°C; source side heat exchanger water temperature (in/out) 30°C/35°C.
- 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 made in compliance with ISO 9614.
- 9 Sound power level in cooling, indoors.
- 10 Unit in standard configuration/execution, without optional accessories.

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Power Factor and Displacement Power Factor

DPF (Displacement Power Factor) above 0,97 in every load condition
PF (Power Factor) of 0,9 at full load



Optimised compressors

Screw compressors optimised for applications with low condensing temperature.

This enhances their efficiency and makes the ESEER/IPLV values achieved exceed by far the common standard of compact screw compressors.