

5.1 GENERAL TECHNICAL DATA

FX2-G04 /A

[SI System]

FX2-G04 /A			0252	0302	0322	0352	0402	0452	0512	0572	0652	0772
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	255,3	289,9	315,1	365,0	405,4	445,9	519,7	573,4	679,0	781,7
Total power input	(1)	kW	75,98	87,26	94,43	106,7	121,7	135,2	156,8	172,2	204,8	235,6
EER	(1)	kW/kW	3,359	3,321	3,338	3,421	3,331	3,298	3,314	3,330	3,315	3,318
ESEER	(1)	kW/kW	4,530	4,500	4,560	4,480	4,500	4,590	4,530	4,570	4,530	4,550
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(2)(3)	kW	255,0	289,5	314,7	364,7	405,0	445,4	519,2	572,9	678,4	781,0
EER	(2)(3)	kW/kW	3,320	3,280	3,310	3,390	3,290	3,250	3,280	3,290	3,270	3,270
ESEER	(2)(3)	kW/kW	-	-	-	-	-	-	-	-	-	-
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(4)	kW	264,9	300,7	326,9	378,7	420,6	462,6	539,2	594,9	704,5	811,0
Total power input	(4)	kW	73,65	84,54	91,45	103,4	117,8	131,0	151,9	166,7	198,3	228,1
Desuperheater heating capacity	(4)	kW	59,34	69,41	75,81	85,06	98,42	108,8	126,4	140,2	165,8	189,9
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	12,21	13,86	15,07	17,46	19,39	21,32	24,85	27,42	32,47	37,38
Pressure drop at the heat exchanger	(2)	kPa	38,1	36,3	23,9	32,1	39,7	48,0	34,3	41,8	51,5	54,3
PARTIAL RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(4)	l/s	2,864	3,350	3,659	4,106	4,751	5,254	6,103	6,766	8,004	9,168
Pressure drop at the heat exchanger	(4)	kPa	15,6	21,4	25,5	32,1	43,0	26,1	35,2	43,3	29,9	39,2
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			STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS									
Min. capacity step		%	20	20	20	20	20	20	20	20	20	20
Refrigerant			HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze									
Refrigerant charge		kg	51,0	55,0	59,0	67,0	72,0	81,0	93,0	98,0	123	142
Oil charge		kg	30,0	30,0	30,0	30,0	44,0	38,0	38,0	38,0	60,0	60,0
Rc (ASHRAE)	(5)	kg/kW	0,20	0,19	0,19	0,19	0,18	0,18	0,18	0,17	0,18	0,18
FANS												
Quantity		N°	5	5	5	6	6	7	8	8	10	12
Air flow		m³/s	26,58	26,58	26,58	31,90	31,90	37,22	42,53	42,53	53,17	63,80
Fans power input		kW	1,90	1,90	1,90	1,90	1,90	1,90	1,90	1,90	1,90	1,90
NOISE LEVEL												
Sound Pressure	(6)	dB(A)	66	67	67	68	68	68	68	70	69	70
Sound power level in cooling	(7)(8)	dB(A)	98	99	99	100	100	100	100	102	102	103
SIZE AND WEIGHT												
A	(9)	mm	4000	4000	4000	4000	4000	5250	5250	5250	6500	7750
B	(9)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(9)	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640
Operating weight	(9)	kg	3540	3560	3660	3810	4470	4990	5190	5250	6710	7650

Notes:

1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.

2 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.

3 Values in compliance with EN14511

4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.

5 Rated in accordance with AHRI Standard 550/590

6 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.

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

8 Sound power level in cooling, outdoors.

9 Unit in standard configuration, without optional accessories.

- Not available

Data certified in EUROVENT

GENERAL TECHNICAL DATA

FX2-G04 /A

[SI System]

FX2-G04 /A			0902	0972	1052	1152	1243	1373	1503	1593
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	903,5	967,9	1058	1145	1239	1362	1488	1561
Total power input	(1)	kW	276,0	287,2	319,7	343,6	373,1	415,8	446,3	473,4
EER	(1)	kW/kW	3,274	3,370	3,309	3,332	3,321	3,276	3,334	3,297
ESEER	(1)	kW/kW	4,530	4,540	4,590	4,630	4,550	4,570	4,590	4,600
COOLING ONLY (EN14511 VALUE)										
Cooling capacity	(2)(3)	kW	902,9	967,1	1057	1145	1238	1361	1487	1560
EER	(2)(3)	kW/kW	3,240	3,330	3,270	3,290	3,280	3,240	3,290	3,250
ESEER	(2)(3)	kW/kW	-	-	-	-	-	-	-	-
COOLING WITH PARTIAL RECOVERY										
Cooling capacity	(4)	kW	937,4	1004	1097	1188	1285	1413	1543	1620
Total power input	(4)	kW	267,2	278,1	309,6	332,7	361,3	402,5	432,0	458,1
Desuperheater heating capacity	(4)	kW	226,0	232,6	258,2	279,6	302,5	340,6	366,2	388,6
EXCHANGERS										
HEAT EXCHANGER USER SIDE IN REFRIGERATION										
Water flow	(1)	l/s	43,21	46,28	50,57	54,77	59,24	65,14	71,14	74,65
Pressure drop at the heat exchanger	(2)	kPa	35,3	52,5	48,4	53,3	46,9	46,2	55,1	60,7
PARTIAL RECOVERY USER SIDE IN REFRIGERATION										
Water flow	(4)	l/s	10,91	11,23	12,47	13,50	14,60	16,44	17,68	18,76
Pressure drop at the heat exchanger	(4)	kPa	32,4	34,3	42,3	26,0	36,2	32,6	37,7	33,3
REFRIGERANT CIRCUIT										
Compressors nr.		N°	2	2	2	2	3	3	3	3
Number of capacity steps		N°	0	0	0	0	0	0	0	0
No. Circuits		N°	2	2	2	2	3	3	3	3
Regulation		STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS								
Min. capacity step		%	20	20	20	20	14	14	14	14
Refrigerant		HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze								
Refrigerant charge		kg	152	160	191	195	216	222	232	248
Oil charge		kg	60,0	60,0	64,0	64,0	90,0	90,0	90,0	92,0
Rc (ASHRAE)	(5)	kg/kW	0,17	0,17	0,18	0,17	0,18	0,16	0,16	0,16
FANS										
Quantity		N°	12	14	16	16	18	18	19	20
Air flow		m³/s	63,80	74,43	85,07	85,07	95,70	95,70	101,01	106,33
Fans power input		kW	1,90	1,90	1,90	1,90	1,90	1,90	1,90	1,90
NOISE LEVEL										
Sound Pressure	(6)	dB(A)	71	71	73	73	73	73	73	73
Sound power level in cooling	(7)(8)	dB(A)	104	104	106	106	106	106	106	106
SIZE AND WEIGHT										
A	(9)	mm	7750	9000	10400	10400	11650	11650	12900	12900
B	(9)	mm	2260	2260	2260	2260	2260	2260	2260	2260
H	(9)	mm	2640	2640	2640	2640	2640	2640	2640	2640
Operating weight	(9)	kg	7900	8340	9370	9440	11380	12070	12680	12930

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
- 2 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
- 3 Values in compliance with EN14511
- 4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.
- 5 Rated in accordance with AHRI Standard 550/590
- 6 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.
- 7 Sound power on the basis of measurements taken in compliance with ISO 9614.
- 8 Sound power level in cooling, outdoors.
- 9 Unit in standard configuration, without optional accessories.
- Not available

Data certified in EUROVENT

GENERAL TECHNICAL DATA

FX2-G04 /SL-A

[SI System]

FX2-G04 /SL-A			0252	0302	0322	0352	0402	0452	0512	0572	0652	0772
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	252,3	286,2	310,7	362,2	399,4	445,7	512,4	567,7	669,5	771,7
Total power input	(1)	kW	74,66	86,37	93,79	106,2	121,3	132,5	156,1	173,0	203,9	234,8
EER	(1)	kW/kW	3,378	3,312	3,312	3,411	3,293	3,364	3,283	3,282	3,283	3,287
ESEER	(1)	kW/kW	4,560	4,520	4,580	4,510	4,500	4,630	4,550	4,590	4,540	4,560
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(2)(3)	kW	252,0	285,9	310,4	361,8	399,0	445,2	512,0	567,2	668,9	771,1
EER	(2)(3)	kW/kW	3,340	3,270	3,280	3,380	3,260	3,320	3,250	3,240	3,240	3,240
ESEER	(2)(3)	kW/kW	-	-	-	-	-	-	-	-	-	-
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(4)	kW	261,8	296,9	322,3	375,8	414,4	462,4	531,6	589,0	694,6	800,7
Total power input	(4)	kW	72,29	83,59	90,76	102,7	117,3	128,3	151,0	167,3	197,3	227,1
Desuperheater heating capacity	(4)	kW	60,39	70,85	77,47	87,26	100,8	108,3	129,3	144,4	169,5	194,6
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	12,07	13,69	14,86	17,32	19,10	21,31	24,50	27,15	32,02	36,91
Pressure drop at the heat exchanger	(2)	kPa	37,2	35,4	23,3	31,6	38,5	47,9	33,4	41,0	50,1	53,0
PARTIAL RECOVERY USER SIDE IN REFRIGERATION												
Water flow	(4)	l/s	2,915	3,420	3,740	4,212	4,864	5,229	6,243	6,970	8,183	9,392
Pressure drop at the heat exchanger	(4)	kPa	16,2	22,3	26,6	33,8	45,1	25,9	36,9	46,0	31,2	41,2
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			STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS									
Min. capacity step		%	20	20	20	20	20	20	20	20	20	20
Refrigerant			HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze									
Refrigerant charge		kg	51,0	55,0	59,0	67,0	72,0	85,0	93,0	98,0	123	142
Oil charge		kg	30,0	30,0	30,0	30,0	44,0	38,0	38,0	38,0	60,0	60,0
Rc (ASHRAE)	(5)	kg/kW	0,20	0,19	0,19	0,19	0,18	0,19	0,18	0,17	0,19	0,19
FANS												
Quantity		N°	5	5	5	6	6	8	8	8	10	12
Air flow		m³/s	24,01	24,01	24,01	28,81	28,81	38,41	38,41	38,41	48,02	57,62
Fans power input		kW	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40
NOISE LEVEL												
Sound Pressure	(6)	dB(A)	55	55	55	56	57	57	57	58	58	59
Sound power level in cooling	(7)(8)	dB(A)	87	87	87	88	89	89	89	90	91	92
SIZE AND WEIGHT												
A	(9)	mm	4000	4000	4000	4000	4000	5250	5250	5250	6500	7750
B	(9)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(9)	mm	2640	2640	2640	2640	2640	2640	2640	2640	2640	2640
Operating weight	(9)	kg	3810	3830	3930	4080	4930	5620	5720	5780	7320	8270

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
- 2 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
- 3 Values in compliance with EN14511
- 4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.
- 5 Rated in accordance with AHRI Standard 550/590
- 6 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.
- 7 Sound power on the basis of measurements taken in compliance with ISO 9614.
- 8 Sound power level in cooling, outdoors.
- 9 Unit in standard configuration, without optional accessories.
- Not available

Data certified in EUROVENT

GENERAL TECHNICAL DATA

FX2-G04 /SL-A

[SI System]

FX2-G04 /SL-A			0902	0972	1052	1152	1243	1373	1503	1593
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	893,3	959,0	1044	1133	1222	1352	1482	1572
Total power input	(1)	kW	265,2	287,9	318,4	344,3	372,8	411,5	442,8	479,8
EER	(1)	kW/kW	3,368	3,331	3,279	3,291	3,278	3,286	3,347	3,276
ESEER	(1)	kW/kW	4,540	4,550	4,600	4,640	4,560	4,590	4,640	4,640
COOLING ONLY (EN14511 VALUE)										
Cooling capacity	(2)(3)	kW	892,6	958,2	1043	1133	1221	1351	1481	1572
EER	(2)(3)	kW/kW	3,330	3,290	3,240	3,250	3,240	3,250	3,300	3,250
ESEER	(2)(3)	kW/kW	-	-	-	-	-	-	-	-
COOLING WITH PARTIAL RECOVERY										
Cooling capacity	(4)	kW	926,8	994,9	1083	1176	1268	1403	1538	1631
Total power input	(4)	kW	256,6	278,5	308,0	333,1	360,6	398,0	428,3	464,0
Desuperheater heating capacity	(4)	kW	219,2	239,5	264,2	287,4	310,3	343,5	370,3	403,3
EXCHANGERS										
HEAT EXCHANGER USER SIDE IN REFRIGERATION										
Water flow	(1)	l/s	42,72	45,86	49,92	54,20	58,44	64,65	70,87	75,20
Pressure drop at the heat exchanger	(2)	kPa	44,7	51,5	47,2	52,2	45,6	45,5	54,7	35,9
PARTIAL RECOVERY USER SIDE IN REFRIGERATION										
Water flow	(4)	l/s	10,58	11,56	12,75	13,87	14,98	16,58	17,87	19,47
Pressure drop at the heat exchanger	(4)	kPa	30,5	36,4	44,3	27,4	38,1	33,1	38,5	35,9
REFRIGERANT CIRCUIT										
Compressors nr.		N°	2	2	2	2	3	3	3	3
Number of capacity steps		N°	0	0	0	0	0	0	0	0
No. Circuits		N°	2	2	2	2	3	3	3	3
Regulation			STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS							
Min. capacity step		%	20	20	20	20	14	14	14	14
Refrigerant			HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze HFO-1234ze							
Refrigerant charge		kg	155	160	191	195	216	233	243	253
Oil charge		kg	60,0	60,0	64,0	64,0	90,0	90,0	90,0	92,0
Rc (ASHRAE)	(5)	kg/kW	0,18	0,17	0,18	0,17	0,18	0,17	0,17	0,16
FANS										
Quantity		N°	14	14	16	16	18	19	20	20
Air flow		m³/s	67,22	67,22	76,83	76,83	86,43	91,23	96,03	96,03
Fans power input		kW	1,40	1,40	1,40	1,40	1,40	1,40	1,40	1,40
NOISE LEVEL										
Sound Pressure	(6)	dB(A)	60	61	61	61	61	61	62	62
Sound power level in cooling	(7)(8)	dB(A)	93	94	94	94	94	94	95	95
SIZE AND WEIGHT										
A	(9)	mm	9000	9000	10400	10400	11650	12900	12900	12900
B	(9)	mm	2260	2260	2260	2260	2260	2260	2260	2260
H	(9)	mm	2640	2640	2640	2640	2640	2640	2640	2640
Operating weight	(9)	kg	8910	8980	10010	10080	12300	13620	13740	13880

Notes:

- 1 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
- 2 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C.
- 3 Values in compliance with EN14511
- 4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Source (side) heat exchanger air (in) 35,0°C; Plant (side) heat exchanger recovery water (in/out) 40,00°C/45,00°C.
- 5 Rated in accordance with AHRI Standard 550/590
- 6 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.
- 7 Sound power on the basis of measurements taken in compliance with ISO 9614.
- 8 Sound power level in cooling, outdoors.
- 9 Unit in standard configuration, without optional accessories.
- Not available

Data certified in EUROVENT

6.1 TECHNICAL DATA SEASONAL EFFICIENCY IN COOLING (EN14825 VALUE)

[SI System]

ENERGY EFFICIENCY

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

FX2-G04 /A			0252	0302	0322	0352	0402	0452	0512	0572	0652	0772
Prated,c	(1)	kW	255,0	289,5	314,7	364,7	405,0	445,4	519,2	572,9	678,4	781,0
SEER	(1) (2)	-	4,55	4,52	4,61	4,54	4,56	4,61	4,56	4,61	4,60	4,63
Performance η_s	(1) (3)	%	179,0	178,0	181,0	178,0	179,0	181,0	179,0	182,0	181,0	182,0
FX2-G04 /A			0902	0972	1052	1152	1243	1373	1503	1593		
Prated,c	(1)	kW	902,9	967,1	1057,0	1145,0	1238,0	1361,0	1487,0	1560,0		
SEER	(1) (2)	-	4,61	4,64	4,65	4,69	4,63	4,58	4,67	4,69		
Performance η_s	(1) (3)	%	181,0	183,0	183,0	185,0	182,0	180,0	184,0	185,0		

FX2-G04 /SL-A			0252	0302	0322	0352	0402	0452	0512	0572	0652	0772
Prated,c	(1)	kW	252,0	285,9	310,4	361,8	399,0	445,2	512,0	567,2	668,9	771,1
SEER	(1) (2)	-	4,57	4,53	4,61	4,56	4,56	4,65	4,56	4,62	4,59	4,63
Performance η_s	(1) (3)	%	180,0	178,0	181,0	179,0	179,0	183,0	179,0	182,0	181,0	182,0
FX2-G04 /SL-A			0902	0972	1052	1152	1243	1373	1503	1593		
Prated,c	(1)	kW	892,6	958,2	1043,0	1133,0	1221,0	1351,0	1481,0	1572,0		
SEER	(1) (2)	-	4,62	4,64	4,65	4,70	4,63	4,60	4,72	4,74		
Performance η_s	(1) (3)	%	182,0	183,0	183,0	185,0	182,0	181,0	186,0	186,0		

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 HFO-1234ze [GWP₁₀₀ 7] fluorinated greenhouse gases.

Data certified in EUROVENT