

**Chiller, air source for outdoor installation**  
289-1710 kW



Outdoor unit for the production of chilled water with semi-hermetic screw compressors optimized for R134a, axial-flow fans, micro-channel full-aluminum condensing coils, single-pass shell and tubes evaporator designed by Mitsubishi Electric Hydronics & IT Cooling Systems S.p.A. and electronic expansion valve.

Base and supporting structure and panels are of galvanized epoxy powder coated steel with increased thickness. Eurovent certification.

Flexible and reliable unit; it easily adapts itself to different thermal load conditions thanks to the precise thermoregulation and the accurate sizing of all internal components. The compressors feature an enhanced lubrication system, an innovative internal geometry and a different control of capacity steps. Innovations that grant a remarkable performance improvement especially at partial loads.

#### Version

K	Standard efficiency
SL-K	Super low noise, standard efficiency
CA	High efficiency
SL-CA	Super low noise, high efficiency
E	Very high efficiency
SL-E	Super low noise, very high efficiency

#### Configurations

-	Basic function
D	Partial condensing heat recovery function
R	Total condensing heat recovery function

#### Features

##### HIGH EFFICIENCY

Very high efficiency at full and partial load, at the highest market levels, thanks to the adopted technological solutions. These units ensure low operating costs and therefore a quick payback time.

##### EXTREMELY SILENT OPERATION

As the result of a systematic design oriented to minimize the noise level, the silenced version units give the best combination of quietness and efficiency on the market.

##### FLEXIBILITY

Flexibility in the applications thanks to the many configurations and versions available.

##### WIDE OPERATING RANGE

The accurate condensation control (variable fan speed regulation as per standard on every model) and devoted kits allow unit's operation from -10°C (-20°C with accessories) to 50°C (54°C with accessories) of outdoor air temperature and from -8°C to 18°C (20°C with accessories) of evaporator leaving water temperature.

##### ALUMINIUM MICRO-CHANNEL HEAT EXCHANGERS

The full aluminium micro-channel condenser coils deliver high efficiency whilst ensuring a reduced refrigerant volume and a lower unit weight. The e-coating protection (optional) grants the highest level of resistance to corrosion in any condition, even in the most aggressive environments.

##### INTEGRATED HYDRONIC GROUP

The built-in hydronic group (optional) includes the main water circuit components. The 2 pumps are in twin configuration and available with 2 or 4-pole motor, fixed or variable speed, high or low head to satisfy all the different industrial and comfort application requirements.

#### Accessory

- Noise reducer (only on not silenced versions)
- EC fans with electronic DC brushless motor
- Microchannel coils with e-coating protection
- Traditional coils with copper tubes and alluminium fins, also available with pre-painted fins or Fin Guard Silver protective treatment.
- Compressor enclosure (standard on silenced versions)
- Leak detector
- Kit HT to increase the unit operating conditions range
- Compressor power factor correction
- Soft start
- Hydronic group
- VPF (Variable Primary Flow) system
- Set-up for remote connectivity with ModBus, Echelon, Bacnet, Bacnet over-IP.
- Remote control keyboard (distance to 200m and to 500m)

#### Controls

##### W3000TE

The W3000TE controller offers advanced functions and algorithms.

KIPLink - Keyboard In Your Pocket - is the innovative user interface based on WiFi technology that allows one to operate on the unit directly from the smartphone or tablet. Using KIPLink, it is possible to turn the unit on and off, adjust the set-point, plot the main operating variables, monitor in detail the status of the refrigerant circuits, the compressors, the fans and the pumps (if present) and display and reset the possible alarms. In addition to or as an alternative, the Touch interface, with a 7" WVGA colour display and a front USB port, or the Large keyboard, with a wide LCD display and led icons, are available. The temperature control is characterized by the continuous capacity modulation, based on PID algorithms with dynamic neutral zone related to the leaving water temperature. The diagnostics comprises a complete alarm management system, with the "black-box" (via PC) and the alarm history display (via user interface or also PC) for enhanced analysis of the unit operation.

Optional proprietary devices can perform the adjustment of the resources in systems made of several units. Consumption metering and performance measurement are possible as well. Supervision can be easily developed via proprietary devices or the integration in third party systems by means of the most common protocols as ModBus, Bacnet, Bacnet-over-IP, LonWorks. Compatibility with the remote keyboard (up to 8 units). The programmable timer manages a weekly schedule organized into time bands to optimise unit performance by minimising power consumption during periods of inactivity. Up to 10 daily time bands can be associated with different operating set points. As an option (VPF package), the modulation of capacity is integrated with the modulation of the water flow, by means of inverter and dedicated resources for the hydraulic circuit.





FX /K		1502	1702	1902	1922	2202	2602	2652	2702	2722
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
<b>PERFORMANCE</b>										
<b>COOLING ONLY (GROSS VALUE)</b>										
Cooling capacity	(1) kW	300	326	383	432	481	533	559	601	658
Total power input	(1) kW	101	117	131	143	169	185	194	204	235
EER	(1) kW/kW	2,98	2,78	2,93	3,01	2,84	2,88	2,88	2,95	2,80
ESEER	(1) kW/kW	4,26	4,26	4,29	4,32	4,25	4,28	4,28	4,31	4,30
<b>COOLING ONLY (EN14511 VALUE)</b>										
Cooling capacity	(1)(2) kW	299	325	382	430	479	532	557	599	656
EER	(1)(2) kW/kW	2,95	2,76	2,90	2,97	2,81	2,85	2,85	2,91	2,77
ESEER	(1)(2) kW/kW	4,13	4,12	4,14	4,13	4,11	4,11	4,13	4,14	4,14
Cooling energy class		B	C	B	B	C	C	C	B	C
<b>ENERGY EFFICIENCY</b>										
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>										
<b>Ambient refrigeration</b>										
Prated,c	(7) kW	299	325	382	430	479	532	557	599	656
SEER	(7)(8)	4,15	4,12	4,17	4,18	4,15	4,14	4,11	4,19	4,17
Performance ηs	(7)(9) %	163	162	164	164	163	162	162	164	164
<b>EXCHANGERS</b>										
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>										
Water flow	(1) l/s	14,33	15,58	18,32	20,66	22,98	25,51	26,72	28,73	31,48
Pressure drop	(1) kPa	23,9	28,3	33,6	42,7	32,3	39,8	34,9	40,3	38,5
<b>REFRIGERANT CIRCUIT</b>										
Compressors nr.	N°	2	2	2	2	2	2	2	2	2
No. Circuits	N°	2	2	2	2	2	2	2	2	2
Refrigerant charge	kg	44,0	47,0	55,0	63,0	69,0	76,0	80,0	88,0	94,0
<b>NOISE LEVEL</b>										
Sound Pressure	(3) dB(A)	67	67	67	68	68	68	68	68	70
Sound power level in cooling	(4)(5) dB(A)	99	99	99	100	100	100	100	100	102
<b>SIZE AND WEIGHT</b>										
A	(6) mm	2750	2750	4000	4000	4000	5250	5250	5250	5250
B	(6) mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(6) mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6) kg	3160	3170	3720	3810	4610	5060	5060	5130	5520

FX /K		3152	3602	3902	4202	4502	4802	4812	4822	5412
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
<b>PERFORMANCE</b>										
<b>COOLING ONLY (GROSS VALUE)</b>										
Cooling capacity	(1) kW	725	803	872	926	982	1021	1059	1146	1176
Total power input	(1) kW	250	267	290	310	337	363	348	389	415
EER	(1) kW/kW	2,90	3,00	3,01	2,99	2,92	2,82	3,04	2,95	2,83
ESEER	(1) kW/kW	4,29	4,26	4,26	4,29	4,27	4,27	4,28	4,31	4,27
<b>COOLING ONLY (EN14511 VALUE)</b>										
Cooling capacity	(1)(2) kW	723	800	869	923	979	1018	1055	1142	1172
EER	(1)(2) kW/kW	2,86	2,97	2,97	2,95	2,88	2,78	3,00	2,90	2,80
ESEER	(1)(2) kW/kW	4,11	4,10	4,10	4,11	4,11	4,10	4,11	4,12	4,12
Cooling energy class		C	B	B	B	C	C	B	B	C
<b>ENERGY EFFICIENCY</b>										
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>										
<b>Ambient refrigeration</b>										
Prated,c	(7) kW	723	800	869	923	979	1018	1055	1142	1172
SEER	(7)(8)	4,16	4,17	4,17	4,17	4,18	4,15	4,18	4,18	4,18
Performance ηs	(7)(9) %	163	164	164	164	164	163	164	164	164
<b>EXCHANGERS</b>										
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>										
Water flow	(1) l/s	34,69	38,39	41,70	44,31	46,98	48,82	50,65	54,81	56,25
Pressure drop	(1) kPa	46,8	40,9	42,6	48,1	41,8	45,1	48,5	53,3	42,2
<b>REFRIGERANT CIRCUIT</b>										
Compressors nr.	N°	2	2	2	2	2	2	2	2	2
No. Circuits	N°	2	2	2	2	2	2	2	2	2
Refrigerant charge	kg	104	117	127	135	140	146	151	164	168
<b>NOISE LEVEL</b>										
Sound Pressure	(3) dB(A)	69	69	70	70	71	71	71	71	72
Sound power level in cooling	(4)(5) dB(A)	102	102	103	103	104	104	104	104	105
<b>SIZE AND WEIGHT</b>										
A	(6) mm	6500	6500	7750	7750	7750	7750	9000	9000	9150
B	(6) mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(6) mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6) kg	6450	6940	7440	7560	7790	7820	8250	8370	8660

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 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.

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 Sound power level in cooling, outdoors.

6 Unit in standard configuration/execution, without optional accessories.

7 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]

8 Seasonal space heating energy index

9 Seasonal energy efficiency of the space cooling

The units highlighted in this publication contain HFC R134a [GWP<sub>100</sub> 1430] fluorinated greenhouse gases.

FX /K			6002	6022	6303	6903	7203	7213	7223
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	1239	1303	1401	1481	1547	1654	1710
Total power input	(1)	kW	426	466	466	514	547	570	594
EER	(1)	kW/kW	2,91	2,80	3,00	2,88	2,83	2,90	2,88
ESEER	(1)	kW/kW	4,27	4,31	4,27	4,29	4,25	4,28	4,32
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	1235	1298	1397	1476	1543	1649	1704
EER	(1)(2)	kW/kW	2,87	2,76	2,97	2,85	2,80	2,87	2,84
ESEER	(1)(2)	kW/kW	4,11	4,12	4,11	4,11	4,11	4,12	4,14
Cooling energy class			C	C	B	C	C	C	C
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Ambient refrigeration</b>									
Prated,c	(7)	kW	1235	1298	1397	1476	1543	1649	1704
SEER	(7)(8)		4,17	4,17	4,21	4,19	4,18	4,21	4,21
Performance ηs	(7)(9)	%	164	164	166	165	164	165	166
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	59,26	62,29	67,01	70,81	74,00	79,11	81,79
Pressure drop	(1)	kPa	46,9	51,8	45,4	50,7	39,0	44,6	51,2
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	3	3	3	3	3
No. Circuits		N°	2	2	3	3	3	3	3
Refrigerant charge		kg	181	186	205	212	221	237	250
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	73	73	73	73	73	73	73
Sound power level in cooling	(4)(5)	dB(A)	106	106	106	106	106	106	106
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	10400	10400	11650	11650	11650	12900	12900
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	9200	9310	11880	11940	11950	12490	12570

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 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.

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 Sound power level in cooling, outdoors.

6 Unit in standard configuration/execution, without optional accessories.

7 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]

8 Seasonal space heating energy index

9 Seasonal energy efficiency of the space cooling

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Certified data in EUROVENT

FX /SL-K			1502	1702	1902	1922	2202	2602	2652	2702	2722
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
<b>PERFORMANCE</b>											
<b>COOLING ONLY (GROSS VALUE)</b>											
Cooling capacity	(1)	kW	289	333	382	419	476	519	556	578	663
Total power input	(1)	kW	101	113	126	146	161	175	192	207	223
EER	(1)	kW/kW	2,85	2,95	3,03	2,87	2,95	2,97	2,90	2,79	2,98
ESEER	(1)	kW/kW	4,23	4,25	4,28	4,30	4,27	4,28	4,28	4,26	4,26
<b>COOLING ONLY (EN14511 VALUE)</b>											
Cooling capacity	(1)(2)	kW	288	332	380	417	475	517	554	577	661
EER	(1)(2)	kW/kW	2,82	2,92	3,00	2,83	2,92	2,93	2,87	2,76	2,94
ESEER	(1)(2)	kW/kW	4,10	4,11	4,13	4,13	4,13	4,12	4,13	4,11	4,11
Cooling energy class			C	B	B	C	B	B	C	C	B
<b>ENERGY EFFICIENCY</b>											
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>											
<b>Ambient refrigeration</b>											
Prated,c	(7)	kW	288	332	380	417	475	517	554	577	661
SEER	(7)(8)		4,10	4,13	4,18	4,16	4,17	4,12	4,14	4,14	4,17
Performance ηs	(7)(9)	%	161	162	164	163	164	162	162	163	164
<b>EXCHANGERS</b>											
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>											
Water flow	(1)	l/s	13,80	15,94	18,25	20,02	22,76	24,80	26,59	27,66	31,72
Pressure drop	(1)	kPa	22,2	29,6	33,3	40,1	31,7	37,6	34,5	37,4	39,1
<b>REFRIGERANT CIRCUIT</b>											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Refrigerant charge		kg	44,0	51,0	58,0	63,0	72,0	79,0	84,0	88,0	101
<b>NOISE LEVEL</b>											
Sound Pressure	(3)	dB(A)	55	55	56	56	57	57	57	57	57
Sound power level in cooling	(4)(5)	dB(A)	87	87	88	88	89	89	89	89	90
<b>SIZE AND WEIGHT</b>											
A	(6)	mm	2750	4000	4000	4000	5250	5250	5250	5250	6500
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	3420	4160	4230	4230	5200	5560	5580	5620	6610

FX /SL-K			3152	3602	3902	4202	4502	4802	4812	4822	5412
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
<b>PERFORMANCE</b>											
<b>COOLING ONLY (GROSS VALUE)</b>											
Cooling capacity	(1)	kW	717	771	839	893	965	1021	1052	1137	1169
Total power input	(1)	kW	247	272	295	315	335	353	341	381	407
EER	(1)	kW/kW	2,90	2,84	2,85	2,83	2,88	2,89	3,09	2,99	2,87
ESEER	(1)	kW/kW	4,28	4,26	4,27	4,29	4,27	4,28	4,29	4,29	4,26
<b>COOLING ONLY (EN14511 VALUE)</b>											
Cooling capacity	(1)(2)	kW	714	769	836	890	962	1018	1048	1133	1166
EER	(1)(2)	kW/kW	2,87	2,81	2,82	2,80	2,84	2,85	3,04	2,94	2,84
ESEER	(1)(2)	kW/kW	4,10	4,11	4,12	4,12	4,12	4,11	4,11	4,11	4,11
Cooling energy class			C	C	C	C	C	C	B	B	C
<b>ENERGY EFFICIENCY</b>											
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>											
<b>Ambient refrigeration</b>											
Prated,c	(7)	kW	714	769	836	890	962	1018	1048	1133	1166
SEER	(7)(8)		4,16	4,18	4,18	4,16	4,18	4,18	4,20	4,19	4,20
Performance ηs	(7)(9)	%	163	164	164	164	164	164	165	165	165
<b>EXCHANGERS</b>											
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>											
Water flow	(1)	l/s	34,27	36,86	40,11	42,70	46,14	48,85	50,30	54,38	55,91
Pressure drop	(1)	kPa	45,7	37,7	39,4	44,7	40,3	45,2	47,9	52,5	41,7
<b>REFRIGERANT CIRCUIT</b>											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Refrigerant charge		kg	109	117	127	135	146	155	159	172	177
<b>NOISE LEVEL</b>											
Sound Pressure	(3)	dB(A)	58	58	59	59	60	60	61	61	61
Sound power level in cooling	(4)(5)	dB(A)	91	91	92	92	93	93	94	94	94
<b>SIZE AND WEIGHT</b>											
A	(6)	mm	6500	6500	7750	7750	9000	9000	10250	10250	10400
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	7080	7550	8090	8200	9000	8870	9360	9470	9780

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 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.
  - 4 Sound power on the basis of measurements made in compliance with ISO 9614.
  - 5 Sound power level in cooling, outdoors.
  - 6 Unit in standard configuration/execution, without optional accessories.
  - 7 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]
  - 8 Seasonal space heating energy index
  - 9 Seasonal energy efficiency of the space cooling
- The units highlighted in this publication contain HFC R134a [GWP<sub>100</sub> 1430] fluorinated greenhouse gases.

FX /SL-K			6002	6022	6303	6903	7203	7213	7223
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	1194	1289	1350	1463	1530	1595	1649
Total power input	(1)	kW	433	459	474	510	540	583	609
EER	(1)	kW/kW	2,76	2,81	2,85	2,87	2,83	2,74	2,71
ESEER	(1)	kW/kW	4,26	4,30	4,27	4,29	4,25	4,25	4,27
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	1190	1285	1346	1458	1526	1590	1644
EER	(1)(2)	kW/kW	2,73	2,77	2,81	2,83	2,80	2,71	2,67
ESEER	(1)(2)	kW/kW	4,10	4,12	4,11	4,11	4,11	4,11	4,10
Cooling energy class			C	C	C	C	C	C	D
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Ambient refrigeration</b>									
Prated,c	(7)	kW	1190	1285	1346	1458	1526	1590	1644
SEER	(7)(8)		4,15	4,18	4,20	4,19	4,21	4,17	4,16
Performance ηs	(7)(9)	%	163	164	165	165	165	164	163
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	57,11	61,64	64,56	69,97	73,16	76,27	78,86
Pressure drop	(1)	kPa	43,5	50,7	42,1	49,5	38,2	41,5	47,6
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	3	3	3	3	3
No. Circuits		N°	2	2	3	3	3	3	3
Refrigerant charge		kg	181	195	205	222	232	242	250
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	61	61	61	61	61	61	62
Sound power level in cooling	(4)(5)	dB(A)	94	94	94	94	94	94	95
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	10400	11650	11650	12900	12900	12900	12900
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	9860	10420	12810	13340	13340	13420	13500

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 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.

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 Sound power level in cooling, outdoors.

6 Unit in standard configuration/execution, without optional accessories.

7 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]

8 Seasonal space heating energy index

9 Seasonal energy efficiency of the space cooling

The units highlighted in this publication contain HFC R134a [GWP<sub>100</sub> 1430] fluorinated greenhouse gases.

Certified data in EUROVENT



FX /CA			1502	1702	1902	1922	2202	2602	2652
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	302	350	395	462	513	551	591
Total power input	(1)	kW	95,4	109	125	144	160	175	184
EER	(1)	kW/kW	3,17	3,22	3,16	3,21	3,21	3,15	3,20
ESEER	(1)	kW/kW	4,38	4,39	4,40	4,37	4,40	4,39	4,40
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	302	349	394	460	512	550	589
EER	(1)(2)	kW/kW	3,14	3,18	3,12	3,17	3,17	3,12	3,16
ESEER	(1)(2)	kW/kW	4,23	4,23	4,23	4,23	4,24	4,25	4,24
Cooling energy class			A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Ambient refrigeration</b>									
Prated,c	(7)	kW	302	349	394	460	512	550	589
SEER	(7)(8)		4,30	4,29	4,29	4,30	4,31	4,25	4,26
Performance ηs	(7)(9)	%	169	169	168	169	169	167	167
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	14,46	16,72	18,89	22,08	24,54	26,37	28,25
Pressure drop	(1)	kPa	24,4	32,6	35,7	29,8	36,8	34,0	39,0
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	48,0	54,0	58,0	68,0	79,0	81,0	87,0
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	66	66	67	67	68	68	68
Sound power level in cooling	(4)(5)	dB(A)	98	98	99	99	100	100	101
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	4000	4000	4000	5250	5250	5250	6500
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	3660	3720	3760	4660	5040	5090	5830

FX /CA			2702	2722	3152	3602	3902	4202	4502
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	629	684	766	838	905	956	1031
Total power input	(1)	kW	196	218	242	260	280	299	320
EER	(1)	kW/kW	3,21	3,14	3,17	3,22	3,24	3,19	3,22
ESEER	(1)	kW/kW	4,39	4,41	4,39	4,39	4,40	4,42	4,40
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	627	682	764	835	902	952	1028
EER	(1)(2)	kW/kW	3,16	3,10	3,13	3,18	3,19	3,14	3,18
ESEER	(1)(2)	kW/kW	4,21	4,24	4,23	4,21	4,22	4,22	4,22
Cooling energy class			A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Ambient refrigeration</b>									
Prated,c	(7)	kW	627	682	764	835	902	952	1028
SEER	(7)(8)		4,28	4,30	4,33	4,30	4,32	4,31	4,31
Performance ηs	(7)(9)	%	168	169	170	169	170	169	169
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	30,07	32,70	36,64	40,06	43,26	45,72	49,29
Pressure drop	(1)	kPa	44,2	41,6	37,2	44,5	45,8	51,2	46,0
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	92,0	100	113	123	133	141	151
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	68	68	68	69	69	70	70
Sound power level in cooling	(4)(5)	dB(A)	101	101	101	102	102	103	103
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	6500	6500	7750	7750	9000	9000	10400
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	5690	6110	6970	7440	7890	8000	8700

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 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.
  - 4 Sound power on the basis of measurements made in compliance with ISO 9614.
  - 5 Sound power level in cooling, outdoors.
  - 6 Unit in standard configuration/execution, without optional accessories.
  - 7 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]
  - 8 Seasonal space heating energy index
  - 9 Seasonal energy efficiency of the space cooling
- The units highlighted in this publication contain HFC R134a [GWP<sub>100</sub> 1430] fluorinated greenhouse gases.

FX /CA			4802	4822	5412	5703	6303	6603
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>								
<b>COOLING ONLY (GROSS VALUE)</b>								
Cooling capacity	(1)	kW	1098	1177	1236	1342	1460	1521
Total power input	(1)	kW	339	375	391	414	459	485
EER	(1)	kW/kW	3,23	3,14	3,16	3,24	3,18	3,14
ESEER	(1)	kW/kW	4,43	4,40	4,41	4,35	4,37	4,39
<b>COOLING ONLY (EN14511 VALUE)</b>								
Cooling capacity	(1)(2)	kW	1094	1173	1232	1338	1456	1517
EER	(1)(2)	kW/kW	3,19	3,10	3,12	3,20	3,15	3,10
ESEER	(1)(2)	kW/kW	4,24	4,24	4,24	4,20	4,24	4,24
Cooling energy class			A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>								
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>								
<b>Ambient refrigeration</b>								
Prated,c	(7)	kW	1094	1173	1232	1338	1456	1517
SEER	(7)(8)		4,33	4,33	4,34	4,33	4,34	4,36
Performance ηs	(7)(9)	%	170	170	171	170	171	172
<b>EXCHANGERS</b>								
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>								
Water flow	(1)	l/s	52,53	56,31	59,13	64,17	69,81	72,73
Pressure drop	(1)	kPa	50,1	42,3	46,7	41,6	34,7	37,7
<b>REFRIGERANT CIRCUIT</b>								
Compressors nr.		N°	2	2	2	3	3	3
No. Circuits		N°	2	2	2	3	3	3
Refrigerant charge		kg	161	173	182	197	226	224
<b>NOISE LEVEL</b>								
Sound Pressure	(3)	dB(A)	70	70	71	71	71	71
Sound power level in cooling	(4)(5)	dB(A)	103	103	104	104	104	104
<b>SIZE AND WEIGHT</b>								
A	(6)	mm	10400	10400	11650	12900	12900	12900
B	(6)	mm	2260	2260	2260	2260	2260	2260
H	(6)	mm	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	8780	9040	10120	12160	12330	12640

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 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.

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 Sound power level in cooling, outdoors.

6 Unit in standard configuration/execution, without optional accessories.

7 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]

8 Seasonal space heating energy index

9 Seasonal energy efficiency of the space cooling

The units highlighted in this publication contain HFC R134a [GWP<sub>100</sub> 1430] fluorinated greenhouse gases.

Certified data in EUROVENT

FX /SL-CA			1502	1702	1902	1922	2202	2602	2652
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	304	345	394	450	501	561	583
Total power input	(1)	kW	94,7	108	122	144	159	178	182
EER	(1)	kW/kW	3,21	3,20	3,24	3,13	3,14	3,14	3,21
ESEER	(1)	kW/kW	4,38	4,39	4,40	4,35	4,39	4,39	4,39
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	303	344	393	449	499	559	581
EER	(1)(2)	kW/kW	3,18	3,16	3,20	3,10	3,10	3,11	3,17
ESEER	(1)(2)	kW/kW	4,24	4,23	4,24	4,22	4,24	4,24	4,22
Cooling energy class			A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Ambient refrigeration</b>									
Prated,c	(7)	kW	303	344	393	449	499	559	581
SEER	(7)(8)		4,31	4,29	4,28	4,28	4,31	4,30	4,25
Performance ηs	(7)(9)	%	169	169	168	168	169	169	167
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	14,55	16,49	18,85	21,53	23,94	26,81	27,87
Pressure drop	(1)	kPa	24,7	31,7	35,6	28,3	35,1	35,1	38,0
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	48,0	54,0	62,0	71,0	79,0	88,0	92,0
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	55	56	56	57	57	57	58
Sound power level in cooling	(4)(5)	dB(A)	87	88	88	89	89	90	91
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	4000	4000	5250	5250	5250	6500	6500
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	4130	4190	4680	5140	5520	6140	6390

FX /SL-CA			2702	2722	3152	3602	3902	4202	4502
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
<b>PERFORMANCE</b>									
<b>COOLING ONLY (GROSS VALUE)</b>									
Cooling capacity	(1)	kW	616	681	754	819	899	948	1020
Total power input	(1)	kW	196	212	237	252	274	294	314
EER	(1)	kW/kW	3,14	3,21	3,18	3,25	3,28	3,23	3,25
ESEER	(1)	kW/kW	4,38	4,41	4,39	4,37	4,39	4,42	4,39
<b>COOLING ONLY (EN14511 VALUE)</b>									
Cooling capacity	(1)(2)	kW	614	678	752	817	896	944	1017
EER	(1)(2)	kW/kW	3,10	3,16	3,15	3,21	3,24	3,18	3,20
ESEER	(1)(2)	kW/kW	4,23	4,24	4,23	4,20	4,21	4,22	4,22
Cooling energy class			A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>									
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>									
<b>Ambient refrigeration</b>									
Prated,c	(7)	kW	614	678	752	817	896	944	1017
SEER	(7)(8)		4,30	4,32	4,34	4,30	4,31	4,32	4,33
Performance ηs	(7)(9)	%	169	170	170	169	169	170	170
<b>EXCHANGERS</b>									
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>									
Water flow	(1)	l/s	29,44	32,55	36,06	39,18	43,00	45,33	48,80
Pressure drop	(1)	kPa	33,7	41,2	36,1	42,6	45,3	50,3	45,1
<b>REFRIGERANT CIRCUIT</b>									
Compressors nr.		N°	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2
Refrigerant charge		kg	97,0	107	118	129	141	149	160
<b>NOISE LEVEL</b>									
Sound Pressure	(3)	dB(A)	58	59	59	59	59	60	60
Sound power level in cooling	(4)(5)	dB(A)	91	92	92	92	92	93	93
<b>SIZE AND WEIGHT</b>									
A	(6)	mm	6500	7750	7750	9000	10250	10250	11650
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	6520	7150	7610	8500	8990	9280	9810

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 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.

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 Sound power level in cooling, outdoors.

6 Unit in standard configuration/execution, without optional accessories.

7 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]

8 Seasonal space heating energy index

9 Seasonal energy efficiency of the space cooling

The units highlighted in this publication contain HFC R134a [GWP<sub>100</sub> 1430] fluorinated greenhouse gases.



FX /SL-CA			4802	4822	5412	5703	6303
Power supply	V/ph/Hz		400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
<b>PERFORMANCE</b>							
<b>COOLING ONLY (GROSS VALUE)</b>							
Cooling capacity	(1)	kW	1086	1163	1219	1310	1442
Total power input	(1)	kW	334	369	385	410	460
EER	(1)	kW/kW	3,25	3,15	3,16	3,20	3,13
ESEER	(1)	kW/kW	4,42	4,40	4,41	4,37	4,37
<b>COOLING ONLY (EN14511 VALUE)</b>							
Cooling capacity	(1)(2)	kW	1082	1160	1215	1306	1439
EER	(1)(2)	kW/kW	3,21	3,11	3,12	3,16	3,10
ESEER	(1)(2)	kW/kW	4,23	4,24	4,24	4,21	4,24
Cooling energy class			A	A	A	A	A
<b>ENERGY EFFICIENCY</b>							
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>							
<b>Ambient refrigeration</b>							
Prated,c	(7)	kW	1082	1160	1215	1306	1439
SEER	(7)(8)		4,34	4,34	4,35	4,34	4,34
Performance ηs	(7)(9)	%	170	171	171	171	171
<b>EXCHANGERS</b>							
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>							
Water flow	(1)	l/s	51,94	55,63	58,31	62,64	68,95
Pressure drop	(1)	kPa	48,9	41,3	45,4	39,7	33,9
<b>REFRIGERANT CIRCUIT</b>							
Compressors nr.		N°	2	2	2	3	3
No. Circuits		N°	2	2	2	3	3
Refrigerant charge		kg	171	183	191	206	226
<b>NOISE LEVEL</b>							
Sound Pressure	(3)	dB(A)	60	60	62	62	62
Sound power level in cooling	(4)(5)	dB(A)	93	93	95	95	95
<b>SIZE AND WEIGHT</b>							
A	(6)	mm	11650	11650	12900	12900	12900
B	(6)	mm	2260	2260	2260	2260	2260
H	(6)	mm	2500	2500	2500	2500	2500
Operating weight	(6)	kg	9890	10230	10760	13130	13260

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 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.

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 Sound power level in cooling, outdoors.

6 Unit in standard configuration/execution, without optional accessories.

7 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]

8 Seasonal space heating energy index

9 Seasonal energy efficiency of the space cooling

The units highlighted in this publication contain HFC R134a [GWP<sub>100</sub> 1430] fluorinated greenhouse gases.

Certified data in EUROVENT

FX / E			1502	1702	1902	1922	2202	2602	2652	2702	2722
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
<b>PERFORMANCE</b>											
<b>COOLING ONLY (GROSS VALUE)</b>											
Cooling capacity	(1)	kW	317	363	414	451	531	576	613	650	703
Total power input	(1)	kW	94,6	108	123	137	156	171	181	192	213
EER	(1)	kW/kW	3,35	3,35	3,36	3,30	3,39	3,37	3,38	3,38	3,30
ESEER	(1)	kW/kW	4,43	4,45	4,44	4,46	4,44	4,45	4,45	4,47	4,45
<b>COOLING ONLY (EN14511 VALUE)</b>											
Cooling capacity	(1)(2)	kW	316	362	413	450	529	574	611	648	702
EER	(1)(2)	kW/kW	3,31	3,31	3,33	3,26	3,35	3,34	3,34	3,34	3,26
ESEER	(1)(2)	kW/kW	4,31	4,30	4,32	4,32	4,29	4,31	4,30	4,31	4,31
Cooling energy class			A	A	A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>											
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>											
<b>Ambient refrigeration</b>											
Prated,c	(7)	kW	316	362	413	450	529	574	611	648	702
SEER	(7)(8)		4,40	4,37	4,40	4,36	4,40	4,36	4,36	4,41	4,41
Performance ηs	(7)(9)	%	173	172	173	172	173	171	171	173	173
<b>EXCHANGERS</b>											
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>											
Water flow	(1)	l/s	15,14	17,34	19,79	21,58	25,37	27,54	29,31	31,07	33,63
Pressure drop	(1)	kPa	22,9	30,1	24,0	28,5	35,8	29,5	33,4	37,5	31,4
<b>REFRIGERANT CIRCUIT</b>											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Refrigerant charge		kg	49,0	56,0	64,0	71,0	82,0	89,0	95,0	101	109
<b>NOISE LEVEL</b>											
Sound Pressure	(3)	dB(A)	66	67	67	67	67	67	68	68	68
Sound power level in cooling	(4)(5)	dB(A)	98	99	99	99	100	100	101	101	101
<b>SIZE AND WEIGHT</b>											
A	(6)	mm	4000	5250	5250	5250	6500	6500	7750	7750	7750
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	3720	4240	4360	4420	5590	5920	6400	6490	6600

FX / E			3152	3602	3902	4202	4502	4802	4822	5412
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
<b>PERFORMANCE</b>										
<b>COOLING ONLY (GROSS VALUE)</b>										
Cooling capacity	(1)	kW	786	854	931	987	1054	1123	1219	1277
Total power input	(1)	kW	236	256	277	298	317	337	373	391
EER	(1)	kW/kW	3,33	3,33	3,36	3,32	3,32	3,33	3,27	3,26
ESEER	(1)	kW/kW	4,44	4,46	4,51	4,46	4,49	4,48	4,41	4,43
<b>COOLING ONLY (EN14511 VALUE)</b>										
Cooling capacity	(1)(2)	kW	784	851	928	984	1051	1119	1216	1274
EER	(1)(2)	kW/kW	3,29	3,29	3,31	3,27	3,28	3,28	3,23	3,22
ESEER	(1)(2)	kW/kW	4,29	4,29	4,29	4,29	4,30	4,29	4,28	4,29
Cooling energy class			A	A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>										
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>										
<b>Ambient refrigeration</b>										
Prated,c	(7)	kW	784	851	928	984	1051	1119	1216	1274
SEER	(7)(8)		4,41	4,41	4,41	4,41	4,41	4,39	4,41	4,43
Performance ηs	(7)(9)	%	173	174	173	173	173	173	173	174
<b>EXCHANGERS</b>										
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>										
Water flow	(1)	l/s	37,58	40,84	44,54	47,18	50,39	53,70	58,31	61,05
Pressure drop	(1)	kPa	34,6	40,9	53,0	42,1	46,1	51,2	34,4	37,7
<b>REFRIGERANT CIRCUIT</b>										
Compressors nr.		N°	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2
Refrigerant charge		kg	122	132	144	153	163	174	189	198
<b>NOISE LEVEL</b>										
Sound Pressure	(3)	dB(A)	68	69	69	70	70	70	70	71
Sound power level in cooling	(4)(5)	dB(A)	101	102	102	103	103	103	103	104
<b>SIZE AND WEIGHT</b>										
A	(6)	mm	9000	9000	10250	10250	11650	11650	11650	12900
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2500	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	7400	7880	8420	8660	9190	9270	10330	11170

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 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.

4 Sound power on the basis of measurements made in compliance with ISO 9614.

5 Sound power level in cooling, outdoors.

6 Unit in standard configuration/execution, without optional accessories.

7 Seasonal energy efficiency of the cooling environment [REGULATION (EU) N. 2016/2281]

8 Seasonal space heating energy index

9 Seasonal energy efficiency of the space cooling

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FX /SL-E			1502	1702	1902	1922	2202	2602	2652	2702	2722
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
<b>PERFORMANCE</b>											
<b>COOLING ONLY (GROSS VALUE)</b>											
Cooling capacity	(1)	kW	313	359	409	447	524	568	605	642	697
Total power input	(1)	kW	93,2	106	121	136	154	169	179	190	212
EER	(1)	kW/kW	3,36	3,39	3,37	3,29	3,40	3,36	3,38	3,39	3,28
ESEER	(1)	kW/kW	4,45	4,47	4,45	4,46	4,45	4,46	4,47	4,49	4,47
<b>COOLING ONLY (EN14511 VALUE)</b>											
Cooling capacity	(1)(2)	kW	312	358	408	446	523	567	604	640	695
EER	(1)(2)	kW/kW	3,32	3,35	3,34	3,26	3,36	3,33	3,34	3,34	3,25
ESEER	(1)(2)	kW/kW	4,33	4,32	4,33	4,32	4,30	4,33	4,33	4,33	4,33
Cooling energy class			A	A	A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>											
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>											
<b>Ambient refrigeration</b>											
Prated,c	(7)	kW	312	358	408	446	523	567	604	640	695
SEER	(7)(8)		4,41	4,38	4,39	4,36	4,41	4,36	4,37	4,42	4,42
Performance ηs	(7)(9)	%	173	172	173	171	173	172	172	174	174
<b>EXCHANGERS</b>											
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>											
Water flow	(1)	l/s	14,96	17,17	19,56	21,39	25,06	27,18	28,94	30,70	33,31
Pressure drop	(1)	kPa	22,4	29,5	23,4	28,0	34,9	28,7	32,6	36,6	30,8
<b>REFRIGERANT CIRCUIT</b>											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Refrigerant charge		kg	49,0	56,0	64,0	71,0	82,0	89,0	95,0	101	109
<b>NOISE LEVEL</b>											
Sound Pressure	(3)	dB(A)	56	57	57	57	57	58	58	59	59
Sound power level in cooling	(4)(5)	dB(A)	88	89	89	89	90	91	91	92	92
<b>SIZE AND WEIGHT</b>											
A	(6)	mm	4000	5250	5250	5250	6500	6500	7750	7750	7750
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2500	2500	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	3960	4460	4620	4680	6120	6460	6940	7040	7140

FX /SL-E			3152	3602	3902	4202	4502	4802	4822	5412
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
<b>PERFORMANCE</b>										
<b>COOLING ONLY (GROSS VALUE)</b>										
Cooling capacity	(1)	kW	776	842	918	973	1040	1108	1205	1260
Total power input	(1)	kW	234	254	275	296	315	335	373	390
EER	(1)	kW/kW	3,31	3,32	3,34	3,29	3,30	3,31	3,23	3,23
ESEER	(1)	kW/kW	4,45	4,47	4,51	4,47	4,49	4,49	4,42	4,44
<b>COOLING ONLY (EN14511 VALUE)</b>										
Cooling capacity	(1)(2)	kW	774	839	915	971	1037	1104	1202	1257
EER	(1)(2)	kW/kW	3,27	3,28	3,29	3,25	3,25	3,26	3,19	3,20
ESEER	(1)(2)	kW/kW	4,31	4,30	4,30	4,31	4,32	4,29	4,29	4,30
Cooling energy class			A	A	A	A	A	A	A	A
<b>ENERGY EFFICIENCY</b>										
<b>SEASONAL EFFICIENCY IN COOLING (Reg. EU 2016/2281)</b>										
<b>Ambient refrigeration</b>										
Prated,c	(7)	kW	774	839	915	971	1037	1104	1202	1257
SEER	(7)(8)		4,41	4,41	4,42	4,41	4,42	4,40	4,41	4,44
Performance ηs	(7)(9)	%	173	174	174	174	174	173	173	175
<b>EXCHANGERS</b>										
<b>HEAT EXCHANGER USER SIDE IN REFRIGERATION</b>										
Water flow	(1)	l/s	37,11	40,26	43,92	46,55	49,72	52,98	57,62	60,28
Pressure drop	(1)	kPa	33,7	39,7	51,5	41,0	44,9	49,8	33,6	36,7
<b>REFRIGERANT CIRCUIT</b>										
Compressors nr.		N°	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2
Refrigerant charge		kg	122	132	144	153	163	174	189	198
<b>NOISE LEVEL</b>										
Sound Pressure	(3)	dB(A)	59	59	59	60	60	60	60	62
Sound power level in cooling	(4)(5)	dB(A)	92	92	92	93	93	93	93	95
<b>SIZE AND WEIGHT</b>										
A	(6)	mm	9000	9000	10250	10250	11650	11650	11650	12900
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2500	2500	2500	2500	2500	2500	2500	2500
Operating weight	(6)	kg	7990	8500	8990	9290	9830	9910	10900	11530

Notes:

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

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