

5.1 GENERAL TECHNICAL DATA

i-FX-Q2-G05 /CA

[SI System]

i-FX-Q2-G05 /CA			0502	0532	0602	0652	0702	0802	0902	1002	1102
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								
PERFORMANCE											
PERFORMANCE MAX											
COOLING ONLY (GROSS VALUE)											
Cooling capacity	(1)(11)	kW	520,5	536,1	570,0	670,8	712,2	787,4	982,0	1048	1125
Total power input	(1)(11)	kW	180,4	181,2	189,0	229,8	238,9	261,5	344,9	356,6	411,4
EER	(1)(11)	kW/kW	2,885	2,959	3,016	2,919	2,981	3,011	2,847	2,939	2,735
Water flow	(1)(11)	l/s	24,89	25,64	27,26	32,08	34,06	37,65	46,96	50,12	53,78
Pressure drop	(1)(11)	kPa	46,5	52,6	32,5	46,4	48,6	29,0	45,7	47,8	55,5
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)(11)	kW	518,6	533,9	568,5	668,4	709,6	785,6	978,8	1044	1121
EER	(1)(2)(11)	kW/kW	2,840	2,910	2,980	2,880	2,940	2,980	2,810	2,900	2,700
HEATING ONLY (GROSS VALUE)											
Total heating capacity	(3)(11)	kW	496,8	496,8	531,0	643,9	684,9	764,8	939,9	988,7	1071
Total power input	(3)(11)	kW	152,9	152,9	160,1	195,5	205,8	224,6	294,3	311,5	332,4
COP	(3)(11)	kW/kW	3,249	3,249	3,317	3,294	3,328	3,405	3,194	3,174	3,222
Water flow	(3)(11)	l/s	23,98	23,98	25,63	31,08	33,06	36,92	45,37	47,73	51,68
Pressure drop	(3)(11)	kPa	26,5	26,5	21,9	31,9	35,3	32,9	49,6	39,6	33,2
HEATING ONLY (EN14511 VALUE)											
Total heating capacity	(2)(3)(11)	kW	497,9	497,9	532,0	645,6	686,8	766,8	943,3	991,6	1074
COP	(2)(3)(11)	kW/kW	3,230	3,230	3,300	3,270	3,310	3,380	3,170	3,150	3,210
COOLING WITH TOTAL HEAT RECOVERY											
Cooling capacity	(4)(11)	kW	527,3	539,2	571,2	676,3	708,6	784,8	991,2	1054	1145
Total power input	(4)(11)	kW	158,4	161,4	167,6	200,9	209,8	230,6	298,1	312,2	341,7
Recovery heat exchanger capacity	(4)(11)	kW	676,2	690,9	728,8	865,2	905,8	1002	1271	1348	1466
TER	(4)(11)	kW/kW	7,601	7,621	7,757	7,670	7,693	7,745	7,591	7,694	7,641
COOLING WITH TOTAL HEAT RECOVERY (EN14511 VALUE)											
Cooling capacity	(2)(4)(11)	kW	524,9	536,3	569,0	673,2	705,4	782,6	987,2	1050	1140
Recovery heat exchanger capacity	(2)(4)(11)	kW	677,0	691,7	729,5	866,5	907,4	1003	1274	1351	1469
TER	(2)(4)(11)	kW/kW	7,431	7,439	7,613	7,501	7,515	7,609	7,409	7,519	7,466
SELECTION RATED											
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)(10)	kW	485,9	529,2	568,5	624,8	686,6	785,6	912,3	982,3	1079
EER	(1)(2)(10)	kW/kW	2,980	2,980	2,980	2,990	2,980	2,980	3,020	3,000	2,850
HEATING ONLY (EN14511 VALUE)											
Total heating capacity	(2)(3)(10)	kW	464,1	492,3	532,0	600,0	660,7	766,8	873,3	940,2	1030
COP	(2)(3)(10)	kW/kW	3,320	3,280	3,300	3,340	3,330	3,380	3,340	3,370	3,350
COOLING WITH TOTAL HEAT RECOVERY (EN14511 VALUE)											
Cooling capacity	(2)(4)(10)	kW	487,0	531,0	569,0	622,0	680,3	782,6	911,8	984,4	1098
Total power input	(2)(4)(10)	kW	145,8	160,6	170,6	185,8	205,7	234,7	275,9	292,7	329,6
Recovery heat exchanger capacity	(2)(4)(10)	kW	624,2	682,1	729,5	796,9	874,0	1003	1171	1260	1408
TER	(2)(4)(10)	kW/kW	7,620	7,553	7,613	7,637	7,555	7,609	7,546	7,667	7,603
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)(10)	l/s	23,31	25,41	27,26	29,97	32,95	37,65	43,76	47,12	51,77
Pressure drop	(1)(10)	kPa	40,8	51,6	32,5	40,5	45,4	29,0	39,7	42,3	51,4
HEAT EXCHANGER SOURCE SIDE IN HEATING											
Water flow	(3)(10)	l/s	22,35	23,71	25,63	28,89	31,81	36,92	42,02	45,26	49,63
Pressure drop	(3)(10)	kPa	23,0	25,9	21,9	27,6	32,7	32,9	42,6	35,6	30,6
REFRIGERANT CIRCUIT											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Regulation			STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS								
Min. capacity step		%	-	-	-	-	-	-	-	-	-
Refrigerant			R513A R513A R513A R513A R513A R513A R513A R513A R513A								
Refrigerant charge	(13)	kg	265	270	276	299	299	374	403	541	541
Oil charge		kg	36,0	36,0	36,0	36,0	36,0	36,0	60,0	60,0	60,0
Rc (ASHRAE)	(5)(10)(13)	kg/kW	0,51	0,51	0,49	0,45	0,42	0,48	0,41	0,52	0,49
NOISE LEVEL											
Sound Pressure	(6)(10)	dB(A)	67	67	68	69	69	68	70	70	70
Sound power level in cooling	(7)(8)(10)	dB(A)	100	100	101	102	102	101	103	103	103
Sound power level in heating	(7)(9)(10)	dB(A)	100	100	101	102	102	101	103	103	103
SIZE AND WEIGHT											
A	(12)	mm	8150	8150	8900	9650	10400	10400	10400	11900	11900
B	(12)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(12)	mm	2530	2530	2530	2530	2530	2530	2530	2530	2530
Operating weight	(12)	kg	8350	8380	9080	9590	10060	11010	12310	14110	14150

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 Values in compliance with EN14511

3 Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger air (in) 7,0°C - 87% R.H.

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

5 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).

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 made in compliance with ISO 9614.

8 Sound power level in cooling, outdoors.

9 Sound power level in heating, outdoors.

10 Unit performance with inverter compressor at nominal speed.

11 Unit performance with inverter compressor at maximum speeds.

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

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

Certified data in EUROVENT

GENERAL TECHNICAL DATA

i-FX-Q2-G05 /SL-CA

[SI System]

i-FX-Q2-G05 /SL-CA			0502	0532	0602	0652	0702	0802	0902	1002	1102
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								
PERFORMANCE											
PERFORMANCE MAX											
COOLING ONLY (GROSS VALUE)											
Cooling capacity	(1)(11)	kW	498,6	513,3	549,0	646,7	686,7	765,6	905,4	981,9	1039
Total power input	(1)(11)	kW	183,1	184,0	188,8	229,5	235,8	261,6	322,0	347,6	386,2
EER	(1)(11)	kW/kW	2,723	2,790	2,908	2,818	2,912	2,927	2,812	2,825	2,690
Water flow	(1)(11)	l/s	23,84	24,55	26,26	30,93	32,84	36,61	43,30	46,96	49,69
Pressure drop	(1)(11)	kPa	42,7	48,2	30,2	43,1	45,1	27,4	38,9	42,0	47,4
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)(11)	kW	496,9	511,4	547,6	644,6	684,4	763,9	902,8	978,9	1036
EER	(1)(2)(11)	kW/kW	2,690	2,750	2,880	2,780	2,870	2,900	2,780	2,790	2,660
HEATING ONLY (GROSS VALUE)											
Total heating capacity	(3)(11)	kW	492,0	492,0	526,1	637,4	678,9	756,3	881,6	948,9	1018
Total power input	(3)(11)	kW	150,9	150,9	157,8	192,7	203,0	221,5	265,7	283,7	301,1
COP	(3)(11)	kW/kW	3,260	3,260	3,334	3,308	3,344	3,414	3,318	3,345	3,381
Water flow	(3)(11)	l/s	23,75	23,75	25,39	30,77	32,77	36,51	42,55	45,80	49,13
Pressure drop	(3)(11)	kPa	26,0	26,0	21,5	31,3	34,7	32,1	43,7	36,4	30,0
HEATING ONLY (EN14511 VALUE)											
Total heating capacity	(2)(3)(11)	kW	493,1	493,1	527,1	639,0	680,8	758,2	884,4	951,5	1020
COP	(2)(3)(11)	kW/kW	3,240	3,240	3,320	3,290	3,320	3,390	3,290	3,320	3,360
COOLING WITH TOTAL HEAT RECOVERY											
Cooling capacity	(4)(11)	kW	527,3	539,2	571,2	676,3	708,6	784,8	945,4	1021	1102
Total power input	(4)(11)	kW	158,4	161,4	167,6	200,9	209,8	230,6	280,6	299,1	322,7
Recovery heat exchanger capacity	(4)(11)	kW	676,2	690,9	728,8	865,2	905,8	1002	1209	1302	1405
TER	(4)(11)	kW/kW	7,601	7,621	7,757	7,670	7,693	7,745	7,680	7,770	7,766
COOLING WITH TOTAL HEAT RECOVERY (EN14511 VALUE)											
Cooling capacity	(2)(4)(11)	kW	525,0	536,6	569,1	673,5	705,7	782,6	942,0	1017	1098
Recovery heat exchanger capacity	(2)(4)(11)	kW	677,0	691,7	729,4	866,4	907,4	1003	1212	1305	1407
TER	(2)(4)(11)	kW/kW	7,441	7,451	7,619	7,510	7,525	7,614	7,512	7,602	7,607
SELECTION RATED											
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)(10)	kW	466,1	506,6	547,6	602,3	662,8	763,9	878,7	949,1	1036
EER	(1)(2)(10)	kW/kW	2,850	2,840	2,880	2,920	2,930	2,900	2,850	2,860	2,660
HEATING ONLY (EN14511 VALUE)											
Total heating capacity	(2)(3)(10)	kW	459,6	487,6	527,1	594,3	654,9	758,2	862,8	930,9	1020
COP	(2)(3)(10)	kW/kW	3,330	3,290	3,320	3,360	3,350	3,390	3,340	3,380	3,360
COOLING WITH TOTAL HEAT RECOVERY (EN14511 VALUE)											
Cooling capacity	(2)(4)(10)	kW	487,2	531,2	569,1	622,2	680,5	782,6	912,1	984,6	1098
Total power input	(2)(4)(10)	kW	145,6	160,2	170,4	185,4	205,4	234,5	274,7	291,7	329,3
Recovery heat exchanger capacity	(2)(4)(10)	kW	624,2	681,9	729,4	796,7	873,8	1003	1170	1259	1407
TER	(2)(4)(10)	kW/kW	7,630	7,572	7,619	7,654	7,566	7,614	7,579	7,693	7,607
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)(10)	l/s	22,36	24,32	26,26	28,89	31,80	36,61	42,14	45,52	49,69
Pressure drop	(1)(10)	kPa	37,5	47,3	30,2	37,6	42,3	27,4	36,8	39,5	47,4
HEAT EXCHANGER SOURCE SIDE IN HEATING											
Water flow	(3)(10)	l/s	22,14	23,48	25,39	28,62	31,53	36,51	41,52	44,81	49,13
Pressure drop	(3)(10)	kPa	22,6	25,4	21,5	27,1	32,1	32,1	41,5	34,9	30,0
REFRIGERANT CIRCUIT											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Regulation			STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS								
Min. capacity step		%	-	-	-	-	-	-	-	-	-
Refrigerant			R513A R513A R513A R513A R513A R513A R513A R513A R513A								
Refrigerant charge	(13)	kg	265	270	276	299	299	374	403	541	541
Oil charge		kg	36,0	36,0	36,0	36,0	36,0	36,0	60,0	60,0	60,0
Rc (ASHRAE)	(5)(10)(13)	kg/kW	0,54	0,53	0,51	0,47	0,44	0,49	0,45	0,56	0,53
NOISE LEVEL											
Sound Pressure	(6)(10)	dB(A)	57	58	58	59	59	59	61	61	59
Sound power level in cooling	(7)(8)(10)	dB(A)	90	91	91	92	92	92	94	94	92
Sound power level in heating	(7)(9)(10)	dB(A)	90	91	91	92	92	92	94	94	92
SIZE AND WEIGHT											
A	(12)	mm	8150	8150	8900	9650	10400	10400	10400	11900	11900
B	(12)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(12)	mm	2530	2530	2530	2530	2530	2530	2530	2530	2530
Operating weight	(12)	kg	8800	8830	9530	10040	10510	11450	12750	14560	14600

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 Values in compliance with EN14511
- 3 Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger air (in) 7,0°C - 87% R.H.
- 4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C.
- 5 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
- 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 made in compliance with ISO 9614.
- 8 Sound power level in cooling, outdoors.
- 9 Sound power level in heating, outdoors.
- 10 Unit performance with inverter compressor at nominal speed.
- 11 Unit performance with inverter compressor at maximum speeds.
- 12 Unit in standard configuration/execution, without optional accessories.
- 13 Nominal value, please refer always to the printed value on the unit data plate.

Certified data in EUROVENT

GENERAL TECHNICAL DATA

i-FX-Q2-G05 /XL-CA

[SI System]

i-FX-Q2-G05 /XL-CA			0502	0532	0602	0652	0702	0802	0902	1002
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										
PERFORMANCE MAX										
COOLING ONLY (GROSS VALUE)										
Cooling capacity	(1)(11)	kW	442,9	483,5	525,6	571,7	632,6	731,8	847,6	912,3
Total power input	(1)(11)	kW	152,8	169,2	179,6	192,8	212,3	249,5	294,0	315,1
EER	(1)(11)	kW/kW	2,899	2,858	2,927	2,965	2,980	2,933	2,883	2,895
Water flow	(1)(11)	l/s	21,18	23,12	25,14	27,34	30,25	35,00	40,54	43,63
Pressure drop	(1)(11)	kPa	33,7	42,7	27,7	33,7	38,3	25,1	34,1	36,3
COOLING ONLY (EN14511 VALUE)										
Cooling capacity	(1)(2)(11)	kW	441,6	481,8	524,4	570,1	630,7	730,3	845,4	909,8
EER	(1)(2)(11)	kW/kW	2,870	2,820	2,900	2,930	2,940	2,910	2,850	2,860
HEATING ONLY (GROSS VALUE)										
Total heating capacity	(3)(11)	kW	438,3	466,5	507,0	565,9	626,8	728,3	833,4	897,4
Total power input	(3)(11)	kW	129,9	140,0	150,6	166,7	185,0	212,1	245,2	260,8
COP	(3)(11)	kW/kW	3,374	3,332	3,367	3,395	3,388	3,434	3,399	3,441
Water flow	(3)(11)	l/s	21,16	22,52	24,47	27,32	30,26	35,15	40,23	43,32
Pressure drop	(3)(11)	kPa	20,6	23,3	19,9	24,7	29,5	29,8	39,0	32,6
HEATING ONLY (EN14511 VALUE)										
Total heating capacity	(2)(3)(11)	kW	439,2	467,5	507,9	567,1	628,3	730,0	835,9	899,7
COP	(2)(3)(11)	kW/kW	3,360	3,320	3,350	3,380	3,370	3,410	3,370	3,420
COOLING WITH TOTAL HEAT RECOVERY										
Cooling capacity	(4)(11)	kW	464,1	508,8	548,8	590,8	650,9	751,5	883,4	921,3
Total power input	(4)(11)	kW	134,8	148,4	157,1	171,6	190,1	221,3	257,6	272,8
Recovery heat exchanger capacity	(4)(11)	kW	590,8	648,3	696,5	752,1	829,6	959,6	1126	1178
TER	(4)(11)	kW/kW	7,826	7,796	7,925	7,826	7,785	7,732	7,799	7,694
COOLING WITH TOTAL HEAT RECOVERY (EN14511 VALUE)										
Cooling capacity	(2)(4)(11)	kW	462,3	506,4	546,9	588,7	648,4	749,6	880,5	918,3
Recovery heat exchanger capacity	(2)(4)(11)	kW	591,4	649,0	697,0	753,0	830,8	961,2	1127	1180
TER	(2)(4)(11)	kW/kW	7,680	7,629	7,790	7,683	7,632	7,606	7,641	7,549
SELECTION RATED										
COOLING ONLY (EN14511 VALUE)										
Cooling capacity	(1)(2)(10)	kW	441,6	481,8	524,4	570,1	630,7	730,3	845,4	909,8
EER	(1)(2)(10)	kW/kW	2,870	2,820	2,900	2,930	2,940	2,910	2,850	2,860
HEATING ONLY (EN14511 VALUE)										
Total heating capacity	(2)(3)(10)	kW	439,2	467,5	507,9	567,1	628,3	730,0	835,9	899,7
COP	(2)(3)(10)	kW/kW	3,360	3,320	3,350	3,380	3,370	3,410	3,370	3,420
COOLING WITH TOTAL HEAT RECOVERY (EN14511 VALUE)										
Cooling capacity	(2)(4)(10)	kW	462,3	506,4	546,9	588,7	648,4	749,6	880,5	918,3
Total power input	(2)(4)(10)	kW	137,2	151,5	159,7	174,6	193,8	224,9	262,8	278,0
Recovery heat exchanger capacity	(2)(4)(10)	kW	591,4	649,0	697,0	753,0	830,8	961,2	1127	1180
TER	(2)(4)(10)	kW/kW	7,680	7,629	7,790	7,683	7,632	7,606	7,641	7,549
EXCHANGERS										
HEAT EXCHANGER USER SIDE IN REFRIGERATION										
Water flow	(1)(10)	l/s	21,18	23,12	25,14	27,34	30,25	35,00	40,54	43,63
Pressure drop	(1)(10)	kPa	33,7	42,7	27,7	33,7	38,3	25,1	34,1	36,3
HEAT EXCHANGER SOURCE SIDE IN HEATING										
Water flow	(3)(10)	l/s	21,16	22,52	24,47	27,32	30,26	35,15	40,23	43,32
Pressure drop	(3)(10)	kPa	20,6	23,3	19,9	24,7	29,5	29,8	39,0	32,6
REFRIGERANT CIRCUIT										
Compressors nr.		N°	2	2	2	2	2	2	2	2
No. Circuits		N°	2	2	2	2	2	2	2	2
Regulation			STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS STEPLESS							
Min. capacity step		%	-	-	-	-	-	-	-	-
Refrigerant			R513A R513A R513A R513A R513A R513A R513A R513A							
Refrigerant charge	(13)	kg	265	270	276	299	299	374	403	541
Oil charge		kg	36,0	36,0	36,0	36,0	36,0	36,0	60,0	60,0
Rc (ASHRAE)	(5)(10)(13)	kg/kW	0,60	0,56	0,53	0,53	0,48	0,52	0,48	0,60
NOISE LEVEL										
Sound Pressure	(6)(10)	dB(A)	53	54	55	55	55	56	55	56
Sound power level in cooling	(7)(8)(10)	dB(A)	86	87	88	88	88	89	88	89
Sound power level in heating	(7)(9)(10)	dB(A)	87	88	89	89	89	90	89	90
SIZE AND WEIGHT										
A	(12)	mm	8150	8150	8900	9650	10400	10400	10400	11900
B	(12)	mm	2260	2260	2260	2260	2260	2260	2260	2260
H	(12)	mm	2530	2530	2530	2530	2530	2530	2530	2530
Operating weight	(12)	kg	8800	8830	9530	10040	10510	11450	12750	14560

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 Values in compliance with EN14511
- 3 Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C; Source (side) heat exchanger air (in) 7,0°C - 87% R.H.
- 4 Plant (side) cooling exchanger water (in/out) 12,00°C/7,00°C; Plant (side) heat exchanger water (in/out) 40,00°C/45,00°C.
- 5 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
- 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 made in compliance with ISO 9614.
- 8 Sound power level in cooling, outdoors.
- 9 Sound power level in heating, outdoors.
- 10 Unit performance with inverter compressor at nominal speed.
- 11 Unit performance with inverter compressor at maximum speeds.
- 12 Unit in standard configuration/execution, without optional accessories.
- 13 Nominal value, please refer always to the printed value on the unit data plate.

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**6.1 TECHNICAL DATA SEASONAL
EFFICIENCY IN HEATING (EN14825
VALUE)**

i-FX-Q2-G05 /CA

[SI System]

i-FX-Q2-G05 /CA - LOW TEMPERATURE application			0502	0532	0602
Power supply	(V/ph/Hz)		n.a.	400/3/50	n.a.
WEATHER CONDITIONS - WARMER					
Rated heat output at T _{designh}	(1)(2)	kW	389	389	416
Bivalent temperature	(1)(2)	°C	2	2	2
SCOP	(1)(2)		5,03	5,02	5,02
Seasonal space heating energy efficiency	(1)(2)	%	198	198	198
Seasonal space heating energy efficiency class	(1)(2)		-	-	-
WEATHER CONDITIONS - AVERAGE					
Rated heat output at T _{designh}	(1)(2)	kW	369	369	389
Bivalent temperature	(1)(2)	°C	-7	-7	-7
SCOP	(1)(2)		3,85	3,85	3,83
Seasonal space heating energy efficiency	(1)(2)	%	151	151	150
Seasonal space heating energy efficiency class	(1)(2)		-	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]

2 Type of calculation with fixed flow and variable temperature.

**TECHNICAL DATA SEASONAL
EFFICIENCY IN HEATING (EN14825
VALUE)**

i-FX-Q2-G05 /SL-CA

[SI System]

i-FX-Q2-G05 /SL-CA - LOW TEMPERATURE application			0502	0532	0602
Power supply	(V/ph/Hz)		400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - WARMER					
Rated heat output at T _{designh}	(1)(2)	kW	385	385	413
Bivalent temperature	(1)(2)	°C	2	2	2
SCOP	(1)(2)		5,07	5,04	5,11
Seasonal space heating energy efficiency	(1)(2)	%	200	199	202
Seasonal space heating energy efficiency class	(1)(2)		-	-	-
WEATHER CONDITIONS - AVERAGE					
Rated heat output at T _{designh}	(1)(2)	kW	367	367	389
Bivalent temperature	(1)(2)	°C	-7	-7	-7
SCOP	(1)(2)		3,92	3,85	3,94
Seasonal space heating energy efficiency	(1)(2)	%	154	151	154
Seasonal space heating energy efficiency class	(1)(2)		-	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]

2 Type of calculation with fixed flow and variable temperature.

**TECHNICAL DATA SEASONAL
EFFICIENCY IN HEATING (EN14825
VALUE)**

i-FX-Q2-G05 /XL-CA

[SI System]

i-FX-Q2-G05 /XL-CA - LOW TEMPERATURE application			0502	0532	0602
Power supply	(V/ph/Hz)		400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - WARMER					
Rated heat output at T _{designh}	(1)(2)	kW	344	367	398
Bivalent temperature	(1)(2)	°C	2	2	2
SCOP	(1)(2)		5,41	5,37	5,46
Seasonal space heating energy efficiency	(1)(2)	%	213	212	215
Seasonal space heating energy efficiency class	(1)(2)		-	-	-
WEATHER CONDITIONS - AVERAGE					
Rated heat output at T _{designh}	(1)(2)	kW	319	347	372
Bivalent temperature	(1)(2)	°C	-7	-7	-7
SCOP	(1)(2)		4,16	4,12	4,18
Seasonal space heating energy efficiency	(1)(2)	%	164	162	164
Seasonal space heating energy efficiency class	(1)(2)		-	-	-

1 Seasonal space heating energy efficiency class LOW TEMPERATURE [REGULATION (EU) N. 813/2013]

2 Type of calculation with fixed flow and variable temperature.

7.1 TECHNICAL DATA SEASONAL EFFICIENCY IN COOLING (EN14825 VALUE)

[SI System]

ENERGY EFFICIENCY

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

i-FX-Q2-G05 /CA			0502	0532	0602	0652	0702	0802	0902	1002	1102	
Prated,c	(1)	kW	485,9	529,2	568,5	624,8	686,6	785,6	912,3	982,3	1079,0	
SEER	(1) (2)	-	4,91	4,78	4,94	4,86	4,86	4,89	4,55	4,50	4,43	
Performance η_s	(1) (3)	%	193,0	188,0	195,0	192,0	191,0	192,0	179,0	177,0	174,0	

i-FX-Q2-G05 /SL-CA			0502	0532	0602	0652	0702	0802	0902	1002	1102	
Prated,c	(1)	kW	466,1	506,6	547,6	602,3	662,8	763,9	878,7	949,1	1036,0	
SEER	(1) (2)	-	4,89	4,79	4,92	4,87	4,88	4,84	4,55	4,48	4,41	
Performance η_s	(1) (3)	%	193,0	189,0	194,0	192,0	192,0	191,0	179,0	176,0	173,0	

i-FX-Q2-G05 /XL-CA			0502	0532	0602	0652	0702	0802	0902	1002		
Prated,c	(1)	kW	441,6	481,8	524,4	570,1	630,7	730,3	845,4	909,8		
SEER	(1) (2)	-	4,90	4,82	4,96	4,85	4,96	4,88	4,46	4,43		
Performance η_s	(1) (3)	%	193,0	190,0	196,0	191,0	195,0	192,0	175,0	174,0		

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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