5.1 GENERAL TECHNICAL DATA — ERACS2-Q-G05 /CA

[SI System]

ERACS2-Q-G05 /CA			1062	1162	1362	1562	1762	1962	2022	2222	2422	2622
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**	**210,0**	**248,3**	**302,3**	**329,4**	**380,3**	**425,2**	**482,7**	**525,0**	**553,8**	**624,1**
Total power input	(1)	kW	74,78	88,09	105,5	113,5	134,1	149,7	161,8	173,6	182,3	209,0
EER	(1)	kW/kW	2,807	2,818	2,865	2,902	2,836	2,840	2,983	3,024	3,038	2,986
ESEER	(1)	kW/kW										
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	209,3	247,4	301,3	328,2	379,0	424,2	481,6	523,7	552,3	622,9
EER	(1)(2)	kW/kW	2,770	2,780	2,830	2,860	2,800	2,810	2,960	2,990	3,010	2,960
ESEER	(1)(2)	kW/kW	-	-	-	-	-	-	-	-	-	-
HEATING ONLY (GROSS VALUE)												
Total heating capacity	(3)	**kW**	**219,8**	**261,0**	**311,6**	**342,6**	**399,6**	**438,3**	**496,9**	**546,8**	**576,4**	**617,8**
Total power input	(3)	kW	69,66	84,00	95,98	105,5	126,7	135,8	154,8	165,5	175,5	185,2
COP	(3)	kW/kW	3,154	3,107	3,246	3,247	3,154	3,228	3,210	3,304	3,284	3,336
HEATING ONLY (EN14511 VALUE)												
Total heating capacity	(2)(3)	kW	220,5	262,0	312,7	344,0	401,1	439,5	498,1	548,3	578,1	619,0
COP	(2)(3)	kW/kW	3,130	3,080	3,220	3,220	3,130	3,210	3,190	3,280	3,260	3,320
COOLING WITH TOTAL HEAT RECOVERY												
Cooling capacity	(4)	kW	208,6	248,1	304,6	329,4	381,4	427,5	483,5	521,5	550,3	631,2
Total power input	(4)	kW	63,13	75,25	90,73	96,42	115,9	126,9	139,3	150,9	159,8	177,6
Recovery heat exchanger capacity	(4)	**kW**	**267,9**	**318,8**	**389,9**	**420,0**	**490,3**	**546,8**	**614,5**	**663,4**	**700,5**	**798,1**
TER		kW/kW	7,553	7,539	7,657	7,774	7,522	7,678	7,882	7,853	7,829	8,046
SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)												
PDesign	(5)	kW	157	213	221	244	285	314	362	391	357	400
SCOP	(5)		3,36	3,20	3,40	3,47	3,35	3,49	3,42	3,54	3,55	3,55
Performance ηs	(5)	%	131	125	133	136	131	137	134	139	139	139
Seasonal efficiency class	(5)		-	-	-	-	-	-	-	-	-	-
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	10,04	11,88	14,46	15,75	18,19	20,33	23,09	25,11	26,49	29,84
Pressure drop	(1)	kPa	28,8	40,2	36,6	43,4	40,3	27,9	26,7	29,0	32,3	23,1
HEAT EXCHANGER USER SIDE IN HEATING												
Water flow	(3)	l/s	10,61	12,60	15,04	16,54	19,29	21,16	23,99	26,39	27,82	29,82
Pressure drop	(3)	kPa	32,1	45,2	39,6	47,9	45,3	30,2	28,8	32,1	35,6	23,1
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	2	2	2	2
Number of capacity steps		N°	6	6	6	6	6	6	6	6	6	6
No. Circuits		N°	2	2	2	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25	25	25	25
Refrigerant			R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
Refrigerant charge		kg	108	129	155	184	191	198	219	242	276	291
Oil charge		kg	19,0	20,0	20,0	30,0	30,0	30,0	44,0	44,0	44,0	38,0
Rc (ASHRAE)	(6)	kg/kW	0,52	0,52	0,52	0,56	0,51	0,47	0,46	0,47	0,50	0,47
NOISE LEVEL												
Sound Pressure	(7)	dB(A)	65	65	65	66	66	66	66	68	68	68
Sound power level in cooling	(8)(9)	dB(A)	97	97	97	98	99	99	99	101	101	101
Sound power level in heating	(8)(10)	dB(A)	97	97	97	98	99	99	99	101	101	101
SIZE AND WEIGHT												
A	(11)	mm	4610	4610	5610	5610	6610	6610	6300	7200	7200	7200
B	(11)	mm	2220	2220	2220	2220	2220	2220	2260	2260	2260	2260
H	(11)	mm	2150	2420	2430	2430	2430	2430	2350	2350	2350	2350
Operating weight	(11)	kg	3600	3870	4620	5040	5520	5670	7580	8060	8160	8600

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 Parameter calculated for LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 813/2013]
6 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
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 Sound power level in heating, outdoors.
11 Unit in standard configuration/execution, without optional accessories.
- Not available

Certified data in EUROVENT

GENERAL TECHNICAL DATA — ERACS2-Q-G05 /CA

[SI System]

ERACS2-Q-G05 /CA			2722	3222
Power supply		V/ph/Hz	400/3/50	400/3/50
PERFORMANCE				
COOLING ONLY (GROSS VALUE)				
Cooling capacity	(1)	**kW**	**701,4**	**825,6**
Total power input	(1)	kW	231,2	274,4
EER	(1)	kW/kW	3,034	3,009
ESEER	(1)	kW/kW		
COOLING ONLY (EN14511 VALUE)				
Cooling capacity	(1)(2)	kW	699,7	823,6
EER	(1)(2)	kW/kW	3,000	2,980
ESEER	(1)(2)	kW/kW	-	-
HEATING ONLY (GROSS VALUE)				
Total heating capacity	(3)	**kW**	**718,5**	**833,8**
Total power input	(3)	kW	215,7	249,9
COP	(3)	kW/kW	3,331	3,337
HEATING ONLY (EN14511 VALUE)				
Total heating capacity	(2)(3)	kW	720,4	835,9
COP	(2)(3)	kW/kW	3,310	3,320
COOLING WITH TOTAL HEAT RECOVERY				
Cooling capacity	(4)	kW	701,1	826,1
Total power input	(4)	kW	201,5	238,0
Recovery heat exchanger capacity	(4)	**kW**	**890,5**	**1050**
TER		kW/kW	7,901	7,882
SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)				
PDesign	(5)	kW	-	-
SCOP	(5)		-	-
Performance ηs	(5)	%	-	-
Seasonal efficiency class	(5)		-	-
EXCHANGERS				
HEAT EXCHANGER USER SIDE IN REFRIGERATION				
Water flow	(1)	l/s	33,54	39,48
Pressure drop	(1)	kPa	30,5	30,9
HEAT EXCHANGER USER SIDE IN HEATING				
Water flow	(3)	l/s	34,68	40,25
Pressure drop	(3)	kPa	32,6	32,1
REFRIGERANT CIRCUIT				
Compressors nr.		N°	2	2
Number of capacity steps		N°	6	6
No. Circuits		N°	2	2
Regulation			STEPS	STEPS
Min. capacity step		%	25	25
Refrigerant			R513A	R513A
Refrigerant charge		kg	322	380
Oil charge		kg	38,0	70,0
Rc (ASHRAE)	(6)	kg/kW	0,46	0,46
NOISE LEVEL				
Sound Pressure	(7)	dB(A)	68	69
Sound power level in cooling	(8)(9)	dB(A)	101	102
Sound power level in heating	(8)(10)	dB(A)	101	102
SIZE AND WEIGHT				
A	(11)	mm	8400	9700
B	(11)	mm	2260	2260
H	(11)	mm	2350	2350
Operating weight	(11)	kg	9160	11380

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 Parameter calculated for LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 813/2013]
6 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
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 Sound power level in heating, outdoors.
11 Unit in standard configuration/execution, without optional accessories.
- Not available

Certified data in EUROVENT

GENERAL TECHNICAL DATA — ERACS2-Q-G05 /LN-CA

[SI System]

ERACS2-Q-G05 /LN-CA			1062	1162	1362	1562	1762	1962	2022	2222	2422	2622
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**	**204,9**	**241,0**	**293,8**	**321,8**	**369,3**	**413,6**	**468,7**	**513,4**	**541,3**	**603,9**
Total power input	(1)	kW	73,65	88,06	107,2	113,3	135,7	149,9	169,5	174,5	184,7	214,7
EER	(1)	kW/kW	2,780	2,736	2,741	2,840	2,721	2,759	2,765	2,942	2,931	2,813
ESEER	(1)	kW/kW										
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	204,3	240,1	292,9	320,6	368,1	412,6	467,7	512,2	539,9	602,8
EER	(1)(2)	kW/kW	2,750	2,700	2,710	2,800	2,690	2,730	2,740	2,910	2,900	2,790
ESEER	(1)(2)	kW/kW	-	-	-	-	-	-	-	-	-	-
HEATING ONLY (GROSS VALUE)												
Total heating capacity	(3)	**kW**	**219,8**	**261,0**	**311,6**	**342,6**	**399,6**	**438,3**	**496,9**	**546,8**	**576,4**	**617,8**
Total power input	(3)	kW	69,66	84,00	95,98	105,5	126,7	135,8	154,8	165,5	175,5	185,2
COP	(3)	kW/kW	3,154	3,107	3,246	3,247	3,154	3,228	3,210	3,304	3,284	3,336
HEATING ONLY (EN14511 VALUE)												
Total heating capacity	(2)(3)	kW	220,5	262,0	312,7	344,0	401,1	439,5	498,1	548,3	578,1	619,0
COP	(2)(3)	kW/kW	3,130	3,080	3,220	3,220	3,130	3,210	3,190	3,280	3,260	3,320
COOLING WITH TOTAL HEAT RECOVERY												
Cooling capacity	(4)	kW	208,6	248,1	304,6	329,4	381,4	427,5	483,5	521,5	550,3	631,2
Total power input	(4)	kW	63,13	75,25	90,73	96,42	115,9	126,9	139,3	150,9	159,8	177,6
Recovery heat exchanger capacity	(4)	**kW**	**267,9**	**318,8**	**389,9**	**420,0**	**490,3**	**546,8**	**614,5**	**663,4**	**700,5**	**798,1**
TER		kW/kW	7,553	7,539	7,657	7,774	7,522	7,678	7,882	7,853	7,829	8,046
SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)												
PDesign	(5)	kW	157	213	221	244	285	314	362	391	357	400
SCOP	(5)		3,36	3,20	3,40	3,47	3,35	3,49	3,42	3,54	3,55	3,55
Performance ηs	(5)	%	131	125	133	136	131	137	134	139	139	139
Seasonal efficiency class	(5)		-	-	-	-	-	-	-	-	-	-
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	9,797	11,52	14,05	15,39	17,66	19,78	22,42	24,55	25,89	28,88
Pressure drop	(1)	kPa	27,4	37,9	34,5	41,4	38,0	26,4	25,1	27,7	30,8	21,6
HEAT EXCHANGER USER SIDE IN HEATING												
Water flow	(3)	l/s	10,61	12,60	15,04	16,54	19,29	21,16	23,99	26,39	27,82	29,82
Pressure drop	(3)	kPa	32,1	45,2	39,6	47,9	45,3	30,2	28,8	32,1	35,6	23,1
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	2	2	2	2
Number of capacity steps		N°	6	6	6	6	6	6	6	6	6	6
No. Circuits		N°	2	2	2	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25	25	25	25
Refrigerant			R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
Refrigerant charge		kg	101	129	156	184	197	221	230	236	276	288
Oil charge		kg	19,0	20,0	20,0	30,0	30,0	30,0	44,0	44,0	44,0	38,0
Rc (ASHRAE)	(6)	kg/kW	0,50	0,54	0,54	0,58	0,54	0,54	0,50	0,46	0,51	0,48
NOISE LEVEL												
Sound Pressure	(7)	dB(A)	58	59	59	60	59	59	60	62	62	62
Sound power level in cooling	(8)(9)	dB(A)	90	91	91	92	92	92	93	95	95	95
Sound power level in heating	(8)(10)	dB(A)	91	92	92	93	93	93	94	96	96	96
SIZE AND WEIGHT												
A	(11)	mm	4610	4610	5610	5610	6610	6610	6300	7200	7200	7200
B	(11)	mm	2220	2220	2220	2220	2220	2220	2260	2260	2260	2260
H	(11)	mm	2150	2420	2430	2430	2430	2430	2350	2350	2350	2350
Operating weight	(11)	kg	3600	3870	4620	5040	5520	5670	7580	8060	8160	8600

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 Parameter calculated for LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 813/2013]
6 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
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 Sound power level in heating, outdoors.
11 Unit in standard configuration/execution, without optional accessories.
- Not available

Certified data in EUROVENT

GENERAL TECHNICAL DATA — ERACS2-Q-G05 /LN-CA

[SI System]

ERACS2-Q-G05 /LN-CA			2722	3222
Power supply		V/ph/Hz	400/3/50	400/3/50
PERFORMANCE				
COOLING ONLY (GROSS VALUE)				
Cooling capacity	(1)	**kW**	**683,8**	**799,5**
Total power input	(1)	kW	234,7	285,9
EER	(1)	kW/kW	2,914	2,796
ESEER	(1)	kW/kW		
COOLING ONLY (EN14511 VALUE)				
Cooling capacity	(1)(2)	kW	682,2	797,7
EER	(1)(2)	kW/kW	2,890	2,770
ESEER	(1)(2)	kW/kW	-	-
HEATING ONLY (GROSS VALUE)				
Total heating capacity	(3)	**kW**	**718,5**	**833,8**
Total power input	(3)	kW	215,7	249,9
COP	(3)	kW/kW	3,331	3,337
HEATING ONLY (EN14511 VALUE)				
Total heating capacity	(2)(3)	kW	720,4	835,9
COP	(2)(3)	kW/kW	3,310	3,320
COOLING WITH TOTAL HEAT RECOVERY				
Cooling capacity	(4)	kW	701,1	826,1
Total power input	(4)	kW	201,5	238,0
Recovery heat exchanger capacity	(4)	**kW**	**890,5**	**1050**
TER		kW/kW	7,901	7,882
SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)				
PDesign	(5)	kW	-	-
SCOP	(5)		-	-
Performance ηs	(5)	%	-	-
Seasonal efficiency class	(5)		-	-
EXCHANGERS				
HEAT EXCHANGER USER SIDE IN REFRIGERATION				
Water flow	(1)	l/s	32,70	38,23
Pressure drop	(1)	kPa	29,0	29,0
HEAT EXCHANGER USER SIDE IN HEATING				
Water flow	(3)	l/s	34,68	40,25
Pressure drop	(3)	kPa	32,6	32,1
REFRIGERANT CIRCUIT				
Compressors nr.		N°	2	2
Number of capacity steps		N°	6	6
No. Circuits		N°	2	2
Regulation			STEPS	STEPS
Min. capacity step		%	25	25
Refrigerant			R513A	R513A
Refrigerant charge		kg	322	368
Oil charge		kg	38,0	70,0
Rc (ASHRAE)	(6)	kg/kW	0,48	0,46
NOISE LEVEL				
Sound Pressure	(7)	dB(A)	62	63
Sound power level in cooling	(8)(9)	dB(A)	95	96
Sound power level in heating	(8)(10)	dB(A)	96	97
SIZE AND WEIGHT				
A	(11)	mm	8400	9700
B	(11)	mm	2260	2260
H	(11)	mm	2350	2350
Operating weight	(11)	kg	9160	11380

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 Parameter calculated for LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 813/2013]
6 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
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 Sound power level in heating, outdoors.
11 Unit in standard configuration/execution, without optional accessories.
- Not available

Certified data in EUROVENT

GENERAL TECHNICAL DATA — ERACS2-Q-G05 /SL-CA

[SI System]

ERACS2-Q-G05 /SL-CA			1062	1162	1362	1562	1762	1962	2022	2222	2422	2622
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**	**199,5**	**233,2**	**283,4**	**313,8**	**356,0**	**401,4**	**464,1**	**509,0**	**537,1**	**597,3**
Total power input	(1)	kW	75,71	91,26	113,2	117,5	143,1	155,5	172,5	177,2	187,6	218,6
EER	(1)	kW/kW	2,635	2,554	2,504	2,671	2,488	2,581	2,690	2,872	2,863	2,732
ESEER	(1)	kW/kW										
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	198,9	232,4	282,5	312,7	354,9	400,5	463,1	507,8	535,7	596,2
EER	(1)(2)	kW/kW	2,610	2,520	2,480	2,640	2,460	2,560	2,670	2,850	2,840	2,710
ESEER	(1)(2)	kW/kW	-	-	-	-	-	-	-	-	-	-
HEATING ONLY (GROSS VALUE)												
Total heating capacity	(3)	**kW**	**213,3**	**253,5**	**303,9**	**333,4**	**389,1**	**426,1**	**490,7**	**541,1**	**569,7**	**605,5**
Total power input	(3)	kW	67,43	81,70	93,71	102,5	123,5	132,0	153,4	164,0	174,0	183,4
COP	(3)	kW/kW	3,165	3,103	3,243	3,253	3,151	3,228	3,199	3,299	3,274	3,302
HEATING ONLY (EN14511 VALUE)												
Total heating capacity	(2)(3)	kW	214,0	254,5	304,9	334,7	390,5	427,2	491,9	542,5	571,3	606,7
COP	(2)(3)	kW/kW	3,140	3,080	3,220	3,220	3,130	3,210	3,180	3,280	3,250	3,290
COOLING WITH TOTAL HEAT RECOVERY												
Cooling capacity	(4)	kW	208,6	248,1	304,6	329,4	381,4	427,5	483,5	521,5	550,3	631,2
Total power input	(4)	kW	63,13	75,25	90,73	96,42	115,9	126,9	139,3	150,9	159,8	177,6
Recovery heat exchanger capacity	(4)	**kW**	**267,9**	**318,8**	**389,9**	**420,0**	**490,3**	**546,8**	**614,5**	**663,4**	**700,5**	**798,1**
TER		kW/kW	7,553	7,539	7,657	7,774	7,522	7,678	7,882	7,853	7,829	8,046
SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)												
PDesign	(5)	kW	153	207	217	238	279	307	363	390	359	400
SCOP	(5)		3,36	3,21	3,40	3,48	3,35	3,49	3,44	3,55	3,57	3,56
Performance ηs	(5)	%	131	125	133	136	131	137	135	139	140	139
Seasonal efficiency class	(5)		-	-	-	-	-	-	-	-	-	-
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	l/s	9,540	11,15	13,55	15,00	17,02	19,20	22,19	24,34	25,68	28,56
Pressure drop	(1)	kPa	26,0	35,4	32,1	39,4	35,3	24,8	24,6	27,3	30,3	21,1
HEAT EXCHANGER USER SIDE IN HEATING												
Water flow	(3)	l/s	10,30	12,24	14,67	16,09	18,78	20,57	23,69	26,12	27,50	29,23
Pressure drop	(3)	kPa	30,2	42,7	37,6	45,3	43,0	28,5	28,1	31,4	34,8	22,1
REFRIGERANT CIRCUIT												
Compressors nr.		N°	2	2	2	2	2	2	2	2	2	2
Number of capacity steps		N°	6	6	6	6	6	6	6	6	6	6
No. Circuits		N°	2	2	2	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25	25	25	25
Refrigerant			R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
Refrigerant charge		kg	101	122	148	179	186	198	230	236	265	276
Oil charge		kg	19,0	20,0	20,0	30,0	30,0	30,0	44,0	44,0	44,0	38,0
Rc (ASHRAE)	(6)	kg/kW	0,51	0,53	0,53	0,58	0,53	0,50	0,50	0,47	0,50	0,47
NOISE LEVEL												
Sound Pressure	(7)	dB(A)	54	55	55	56	55	55	56	58	58	58
Sound power level in cooling	(8)(9)	dB(A)	86	87	87	88	88	88	89	91	91	91
Sound power level in heating	(8)(10)	dB(A)	87	88	88	89	89	89	90	92	92	92
SIZE AND WEIGHT												
A	(11)	mm	4610	4610	5610	5610	6610	6610	6300	7200	7200	7200
B	(11)	mm	2220	2220	2220	2220	2220	2220	2260	2260	2260	2260
H	(11)	mm	2150	2420	2430	2430	2430	2430	2350	2350	2350	2350
Operating weight	(11)	kg	3600	3870	4620	5040	5520	5670	7670	8150	8250	8690

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 Parameter calculated for LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 813/2013]
6 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
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 Sound power level in heating, outdoors.
11 Unit in standard configuration/execution, without optional accessories.
- Not available

Certified data in EUROVENT

GENERAL TECHNICAL DATA — ERACS2-Q-G05 /SL-CA

[SI System]

ERACS2-Q-G05 /SL-CA			2722	3222
Power supply		V/ph/Hz	400/3/50	400/3/50
PERFORMANCE				
COOLING ONLY (GROSS VALUE)				
Cooling capacity	(1)	**kW**	**677,7**	**790,4**
Total power input	(1)	kW	238,5	292,8
EER	(1)	kW/kW	2,842	2,699
ESEER	(1)	kW/kW		
COOLING ONLY (EN14511 VALUE)				
Cooling capacity	(1)(2)	kW	676,1	788,6
EER	(1)(2)	kW/kW	2,820	2,680
ESEER	(1)(2)	kW/kW	-	-
HEATING ONLY (GROSS VALUE)				
Total heating capacity	(3)	**kW**	**710,1**	**823,6**
Total power input	(3)	kW	213,8	247,7
COP	(3)	kW/kW	3,321	3,325
HEATING ONLY (EN14511 VALUE)				
Total heating capacity	(2)(3)	kW	711,9	825,6
COP	(2)(3)	kW/kW	3,300	3,310
COOLING WITH TOTAL HEAT RECOVERY				
Cooling capacity	(4)	kW	701,1	826,1
Total power input	(4)	kW	201,5	238,0
Recovery heat exchanger capacity	(4)	**kW**	**890,5**	**1050**
TER		kW/kW	7,901	7,882
SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)				
PDesign	(5)	kW	-	-
SCOP	(5)		-	-
Performance ηs	(5)	%	-	-
Seasonal efficiency class	(5)		-	-
EXCHANGERS				
HEAT EXCHANGER USER SIDE IN REFRIGERATION				
Water flow	(1)	l/s	32,41	37,80
Pressure drop	(1)	kPa	28,5	28,3
HEAT EXCHANGER USER SIDE IN HEATING				
Water flow	(3)	l/s	34,28	39,76
Pressure drop	(3)	kPa	31,8	31,3
REFRIGERANT CIRCUIT				
Compressors nr.		N°	2	2
Number of capacity steps		N°	6	6
No. Circuits		N°	2	2
Regulation			STEPS	STEPS
Min. capacity step		%	25	25
Refrigerant			R513A	R513A
Refrigerant charge		kg	299	357
Oil charge		kg	38,0	70,0
Rc (ASHRAE)	(6)	kg/kW	0,45	0,46
NOISE LEVEL				
Sound Pressure	(7)	dB(A)	58	59
Sound power level in cooling	(8)(9)	dB(A)	91	92
Sound power level in heating	(8)(10)	dB(A)	92	93
SIZE AND WEIGHT				
A	(11)	mm	8400	9700
B	(11)	mm	2260	2260
H	(11)	mm	2350	2350
Operating weight	(11)	kg	9260	11480

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 Parameter calculated for LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 813/2013]
6 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
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 Sound power level in heating, outdoors.
11 Unit in standard configuration/execution, without optional accessories.
- Not available

Certified data in EUROVENT

GENERAL TECHNICAL DATA — ERACS2-Q-G05 /XL-CA

[SI System]

ERACS2-Q-G05 /XL-CA			2022	2222	2422	2622	2722	3222
Power supply		V/ph/Hz	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**	**454,5**	**500,5**	**528,4**	**583,9**	**665,4**	**772,4**
Total power input	(1)	kW	174,0	176,8	187,8	221,1	239,6	299,1
EER	(1)	kW/kW	2,612	2,831	2,814	2,641	2,777	2,582
ESEER	(1)	kW/kW						
COOLING ONLY (EN14511 VALUE)								
Cooling capacity	(1)(2)	kW	453,5	499,4	527,1	582,9	663,9	770,7
EER	(1)(2)	kW/kW	2,590	2,810	2,790	2,620	2,750	2,560
ESEER	(1)(2)	kW/kW	-	-	-	-	-	-
HEATING ONLY (GROSS VALUE)								
Total heating capacity	(3)	**kW**	**490,7**	**541,1**	**569,7**	**612,8**	**710,1**	**823,6**
Total power input	(3)	kW	148,7	158,4	168,4	177,8	207,2	240,2
COP	(3)	kW/kW	3,300	3,416	3,383	3,447	3,427	3,429
HEATING ONLY (EN14511 VALUE)								
Total heating capacity	(2)(3)	kW	491,9	542,5	571,3	614,0	711,9	825,6
COP	(2)(3)	kW/kW	3,280	3,390	3,360	3,430	3,410	3,410
COOLING WITH TOTAL HEAT RECOVERY								
Cooling capacity	(4)	kW	483,5	521,5	550,3	631,2	701,1	826,1
Total power input	(4)	kW	139,3	150,9	159,8	177,6	201,5	238,0
Recovery heat exchanger capacity	(4)	**kW**	**614,5**	**663,4**	**700,5**	**798,1**	**890,5**	**1050**
TER		kW/kW	7,882	7,853	7,829	8,046	7,901	7,882
SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)								
PDesign	(5)	kW	363	390	-	-	-	-
SCOP	(5)		3,66	3,82	-	-	-	-
Performance ηs	(5)	%	144	150	-	-	-	-
Seasonal efficiency class	(5)		-	-	-	-	-	-
EXCHANGERS								
HEAT EXCHANGER USER SIDE IN REFRIGERATION								
Water flow	(1)	l/s	21,73	23,93	25,27	27,92	31,82	36,94
Pressure drop	(1)	kPa	23,6	26,4	29,4	20,2	27,4	27,1
HEAT EXCHANGER USER SIDE IN HEATING								
Water flow	(3)	l/s	23,69	26,12	27,50	29,58	34,28	39,76
Pressure drop	(3)	kPa	28,1	31,4	34,8	22,7	31,8	31,3
REFRIGERANT CIRCUIT								
Compressors nr.		N°	2	2	2	2	2	2
Number of capacity steps		N°	6	6	6	6	6	6
No. Circuits		N°	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25
Refrigerant			R513A	R513A	R513A	R513A	R513A	R513A
Refrigerant charge		kg	213	236	269	276	313	368
Oil charge		kg	44,0	44,0	44,0	38,0	38,0	70,0
Rc (ASHRAE)	(6)	kg/kW	0,47	0,48	0,51	0,48	0,47	0,48
NOISE LEVEL								
Sound Pressure	(7)	dB(A)	52	54	54	54	54	55
Sound power level in cooling	(8)(9)	dB(A)	85	87	87	87	87	88
Sound power level in heating	(8)(10)	dB(A)	86	88	88	88	88	89
SIZE AND WEIGHT								
A	(11)	mm	6300	7200	7200	7200	8400	9700
B	(11)	mm	2260	2260	2260	2260	2260	2260
H	(11)	mm	2350	2350	2350	2350	2350	2350
Operating weight	(11)	kg	7790	8260	8350	8790	9340	11580

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 Parameter calculated for LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 813/2013]
6 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
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 Sound power level in heating, outdoors.
11 Unit in standard configuration/execution, without optional accessories.
- Not available

Certified data in EUROVENT

GENERAL TECHNICAL DATA — ERACS2-Q-G05 /XL-CA-E

[SI System]

ERACS2-Q-G05 /XL-CA-E			1062	1162	1362	1562	1762	2022	2222	2422	2622
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											
COOLING ONLY (GROSS VALUE)											
Cooling capacity	(1)	**kW**	**204,3**	**247,2**	**293,3**	**319,4**	**366,3**	**472,5**	**509,5**	**541,3**	**611,3**
Total power input	(1)	kW	69,43	80,30	103,8	109,1	132,7	158,5	169,6	176,3	201,4
EER	(1)	kW/kW	2,944	3,078	2,826	2,928	2,760	2,981	3,004	3,070	3,035
ESEER	(1)	kW/kW									
COOLING ONLY (EN14511 VALUE)											
Cooling capacity	(1)(2)	kW	203,7	246,3	292,4	318,3	365,1	471,4	508,3	539,9	610,1
EER	(1)(2)	kW/kW	2,910	3,030	2,790	2,890	2,730	2,950	2,980	3,040	3,010
ESEER	(1)(2)	kW/kW	-	-	-	-	-	-	-	-	-
HEATING ONLY (GROSS VALUE)											
Total heating capacity	(3)	**kW**	**220,4**	**269,9**	**311,2**	**343,7**	**396,8**	**517,8**	**557,2**	**593,9**	**650,2**
Total power input	(3)	kW	65,08	80,96	92,20	99,37	121,2	151,7	160,5	170,7	183,0
COP	(3)	kW/kW	3,386	3,332	3,375	3,458	3,274	3,413	3,472	3,479	3,553
HEATING ONLY (EN14511 VALUE)											
Total heating capacity	(2)(3)	kW	221,1	271,0	312,3	345,1	398,3	519,2	558,7	595,7	651,6
COP	(2)(3)	kW/kW	3,360	3,300	3,350	3,420	3,250	3,390	3,450	3,450	3,530
COOLING WITH TOTAL HEAT RECOVERY											
Cooling capacity	(4)	kW	208,6	248,1	304,6	329,4	381,4	483,5	521,5	550,3	631,2
Total power input	(4)	kW	63,13	75,25	90,73	96,42	115,9	139,3	150,9	159,8	177,6
Recovery heat exchanger capacity	(4)	**kW**	**267,9**	**318,8**	**389,9**	**420,0**	**490,3**	**614,5**	**663,4**	**700,5**	**798,1**
TER		kW/kW	7,553	7,539	7,657	7,774	7,522	7,882	7,853	7,829	8,046
SEASONAL EFFICIENCY IN HEATING (Reg. EU 813/2013)											
PDesign	(5)	kW	156	188	221	242	283	367	374	-	-
SCOP	(5)		3,74	3,42	3,60	3,81	3,56	3,75	3,78	-	-
Performance ηs	(5)	%	146	134	141	149	139	147	148	-	-
Seasonal efficiency class	(5)		-	-	-	-	-	-	-	-	-
EXCHANGERS											
HEAT EXCHANGER USER SIDE IN REFRIGERATION											
Water flow	(1)	l/s	9,771	11,82	14,03	15,28	17,52	22,60	24,37	25,89	29,23
Pressure drop	(1)	kPa	27,2	39,8	34,4	40,8	37,4	25,5	27,3	30,8	22,1
HEAT EXCHANGER USER SIDE IN HEATING											
Water flow	(3)	l/s	10,64	13,03	15,02	16,59	19,15	25,00	26,90	28,67	31,38
Pressure drop	(3)	kPa	32,3	48,4	39,5	48,2	44,7	31,3	33,3	37,8	25,5
REFRIGERANT CIRCUIT											
Compressors nr.		N°	2	2	2	2	2	2	2	2	2
Number of capacity steps		N°	6	6	6	6	6	6	6	6	6
No. Circuits		N°	2	2	2	2	2	2	2	2	2
Regulation			STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS	STEPS
Min. capacity step		%	25	25	25	25	25	25	25	25	25
Refrigerant			R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A	R513A
Refrigerant charge		kg	122	158	198	204	232	242	253	269	291
Oil charge		kg	19,0	20,0	20,0	30,0	30,0	44,0	44,0	44,0	38,0
Rc (ASHRAE)	(6)	kg/kW	0,60	0,65	0,68	0,64	0,64	0,52	0,50	0,50	0,48
NOISE LEVEL											
Sound Pressure	(7)	dB(A)	53	54	54	54	54	53	55	55	55
Sound power level in cooling	(8)(9)	dB(A)	85	86	86	87	87	86	88	88	88
Sound power level in heating	(8)(10)	dB(A)	86	87	87	88	88	87	89	89	89
SIZE AND WEIGHT											
A	(11)	mm	4610	5610	5610	6610	6610	8400	9300	9300	9300
B	(11)	mm	2220	2220	2220	2220	2220	2260	2260	2260	2260
H	(11)	mm	2420	2430	2430	2430	2430	2350	2350	2350	2350
Operating weight	(11)	kg	3900	4490	4830	5590	5730	8510	8720	8890	9400

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 Parameter calculated for LOW-TEMPERATURE application in AVERAGE climate conditions according to [REGULATION (EU) N. 813/2013]
6 Rated in accordance with AHRI Standard 550/590 (2011 with addendum 1).
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 Sound power level in heating, outdoors.
11 Unit in standard configuration/execution, without optional accessories.
- Not available

Certified data in EUROVENT

6.1 TECHNICAL DATA SEASONAL EFFICIENCY IN HEATING (EN14825 VALUE)

ERACS2-Q-G05 /CA

[SI System]

ERACS2-Q-G05 /CA - LOW TEMPERATURE application			1062	1162	1362	1562	1762	1962
Power supply		(V/ph/Hz)	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - WARMER								
Rated heat output at Tdesignh	(1)(2)	kW	170	203	240	263	309	338
Bivalent temperature	(1)(2)	°C	2	2	2	2	2	2
SCOP	(1)(2)		4,14	4,00	4,25	4,27	4,19	4,33
Seasonal space heating energy efficiency	(1)(2)	%	163	157	167	168	165	170
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-	-	-
WEATHER CONDITIONS - AVERAGE								
Rated heat output at Tdesignh	(1)(2)	kW	157	213	221	244	285	314
Bivalent temperature	(1)(2)	°C	-7	-5	-7	-7	-7	-7
SCOP	(1)(2)		3,36	3,20	3,40	3,47	3,35	3,49
Seasonal space heating energy efficiency	(1)(2)	%	131	125	133	136	131	137
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.

ERACS2-Q-G05 /CA - LOW TEMPERATURE application			2022	2222	2422
Power supply		(V/ph/Hz)	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - WARMER					
Rated heat output at Tdesignh	(1)(2)	kW	381	420	443
Bivalent temperature	(1)(2)	°C	2	2	2
SCOP	(1)(2)		4,26	4,41	4,45
Seasonal space heating energy efficiency	(1)(2)	%	168	174	175
Seasonal space heating energy efficiency class	(1)(2)		-	-	-
WEATHER CONDITIONS - AVERAGE					
Rated heat output at Tdesignh	(1)(2)	kW	362	391	357
Bivalent temperature	(1)(2)	°C	-7	-7	-10
SCOP	(1)(2)		3,42	3,54	3,55
Seasonal space heating energy efficiency	(1)(2)	%	134	139	139
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)

ERACS2-Q-G05 /LN-CA

[SI System]

ERACS2-Q-G05 /LN-CA - LOW TEMPERATURE application			1062	1162	1362	1562	1762	1962
Power supply		(V/ph/Hz)	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - WARMER								
Rated heat output at Tdesignh	(1)(2)	kW	170	203	240	263	309	338
Bivalent temperature	(1)(2)	°C	2	2	2	2	2	2
SCOP	(1)(2)		4,14	4,00	4,25	4,27	4,19	4,33
Seasonal space heating energy efficiency	(1)(2)	%	163	157	167	168	165	170
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-	-	-
WEATHER CONDITIONS - AVERAGE								
Rated heat output at Tdesignh	(1)(2)	kW	157	213	221	244	285	314
Bivalent temperature	(1)(2)	°C	-7	-5	-7	-7	-7	-7
SCOP	(1)(2)		3,36	3,20	3,40	3,47	3,35	3,49
Seasonal space heating energy efficiency	(1)(2)	%	131	125	133	136	131	137
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.

ERACS2-Q-G05 /LN-CA - LOW TEMPERATURE application			2022	2222	2422
Power supply		(V/ph/Hz)	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - WARMER					
Rated heat output at Tdesignh	(1)(2)	kW	381	420	443
Bivalent temperature	(1)(2)	°C	2	2	2
SCOP	(1)(2)		4,26	4,41	4,44
Seasonal space heating energy efficiency	(1)(2)	%	167	173	175
Seasonal space heating energy efficiency class	(1)(2)		-	-	-
WEATHER CONDITIONS - AVERAGE					
Rated heat output at Tdesignh	(1)(2)	kW	362	391	357
Bivalent temperature	(1)(2)	°C	-7	-7	-10
SCOP	(1)(2)		3,42	3,54	3,55
Seasonal space heating energy efficiency	(1)(2)	%	134	139	139
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)

ERACS2-Q-G05 /SL-CA

[SI System]

ERACS2-Q-G05 /SL-CA - LOW TEMPERATURE application			1062	1162	1362	1562	1762	1962
Power supply		(V/ph/Hz)	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - WARMER								
Rated heat output at Tdesignh	(1)(2)	kW	165	197	234	256	301	329
Bivalent temperature	(1)(2)	°C	2	2	2	2	2	2
SCOP	(1)(2)		4,13	4,01	4,24	4,28	4,19	4,33
Seasonal space heating energy efficiency	(1)(2)	%	162	157	167	168	165	170
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-	-	-
WEATHER CONDITIONS - AVERAGE								
Rated heat output at Tdesignh	(1)(2)	kW	153	207	217	238	279	307
Bivalent temperature	(1)(2)	°C	-7	-5	-7	-7	-7	-7
SCOP	(1)(2)		3,36	3,21	3,40	3,48	3,35	3,49
Seasonal space heating energy efficiency	(1)(2)	%	131	125	133	136	131	137
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.

ERACS2-Q-G05 /SL-CA - LOW TEMPERATURE application			2022	2222	2422
Power supply		(V/ph/Hz)	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - WARMER					
Rated heat output at Tdesignh	(1)(2)	kW	377	415	438
Bivalent temperature	(1)(2)	°C	2	2	2
SCOP	(1)(2)		4,27	4,41	4,45
Seasonal space heating energy efficiency	(1)(2)	%	168	173	175
Seasonal space heating energy efficiency class	(1)(2)		-	-	-
WEATHER CONDITIONS - AVERAGE					
Rated heat output at Tdesignh	(1)(2)	kW	363	390	359
Bivalent temperature	(1)(2)	°C	-7	-7	-10
SCOP	(1)(2)		3,44	3,55	3,57
Seasonal space heating energy efficiency	(1)(2)	%	135	139	140
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)

ERACS2-Q-G05 /XL-CA

[SI System]

ERACS2-Q-G05 /XL-CA - LOW TEMPERATURE application			2022	2222
Power supply		(V/ph/Hz)	400/3/50	400/3/50
WEATHER CONDITIONS - WARMER				
Rated heat output at Tdesignh	(1)(2)	kW	377	415
Bivalent temperature	(1)(2)	°C	2	2
SCOP	(1)(2)		4,57	4,77
Seasonal space heating energy efficiency	(1)(2)	%	180	188
Seasonal space heating energy efficiency class	(1)(2)		-	-
WEATHER CONDITIONS - AVERAGE				
Rated heat output at Tdesignh	(1)(2)	kW	363	390
Bivalent temperature	(1)(2)	°C	-7	-7
SCOP	(1)(2)		3,66	3,82
Seasonal space heating energy efficiency	(1)(2)	%	144	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)

ERACS2-Q-G05 /XL-CA-E

[SI System]

ERACS2-Q-G05 /XL-CA-E - LOW TEMPERATURE application			1062	1162	1362	1562	1762	2022
Power supply		(V/ph/Hz)	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
WEATHER CONDITIONS - WARMER								
Rated heat output at Tdesignh	(1)(2)	kW	170	210	240	264	307	397
Bivalent temperature	(1)(2)	°C	2	2	2	2	2	2
SCOP	(1)(2)		4,63	4,33	4,52	4,72	4,45	4,72
Seasonal space heating energy efficiency	(1)(2)	%	182	170	178	186	175	186
Seasonal space heating energy efficiency class	(1)(2)		-	-	-	-	-	-
WEATHER CONDITIONS - AVERAGE								
Rated heat output at Tdesignh	(1)(2)	kW	156	188	221	242	283	367
Bivalent temperature	(1)(2)	°C	-7	-7	-7	-7	-7	-7
SCOP	(1)(2)		3,74	3,42	3,60	3,81	3,56	3,75
Seasonal space heating energy efficiency	(1)(2)	%	146	134	141	149	139	147
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.

ERACS2-Q-G05 /XL-CA-E - LOW TEMPERATURE application			2222
Power supply		(V/ph/Hz)	400/3/50
WEATHER CONDITIONS - WARMER			
Rated heat output at Tdesignh	(1)(2)	kW	425
Bivalent temperature	(1)(2)	°C	2
SCOP	(1)(2)		4,87
Seasonal space heating energy efficiency	(1)(2)	%	192
Seasonal space heating energy efficiency class	(1)(2)		-
WEATHER CONDITIONS - AVERAGE			
Rated heat output at Tdesignh	(1)(2)	kW	374
Bivalent temperature	(1)(2)	°C	-7
SCOP	(1)(2)		3,78
Seasonal space heating energy efficiency	(1)(2)	%	148
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.

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

ERACS2-Q-G05 /CA			2722	3222
Prated,c	(1)	kW	699,7	823,6
SEER	(1) (2)	-	4,12	4,11
Performance ηs	(1) (3)	%	162	161

ERACS2-Q-G05 /LN-CA			2722	3222
Prated,c	(1)	kW	682,2	797,7
SEER	(1) (2)	-	4,10	4,10
Performance ηs	(1) (3)	%	161	161

ERACS2-Q-G05 /SL-CA			2722	3222
Prated,c	(1)	kW	676,1	788,6
SEER	(1) (2)	-	4,10	4,11
Performance ηs	(1) (3)	%	161	161

ERACS2-Q-G05 /XL-CA			2422	2622	2722	3222
Prated,c	(1)	kW	527,1	582,9	663,9	770,7
SEER	(1) (2)	-	4,28	4,10	4,26	4,10
Performance ηs	(1) (3)	%	168	161	167	161

ERACS2-Q-G05 /XL-CA-E			2422	2622
Prated,c	(1)	kW	539,9	610,1
SEER	(1) (2)	-	4,36	4,20
Performance ηs	(1) (3)	%	172	165

Notes:
(1) Parameter calculated according to [REGULATION (EU) N. 2016/2281]
(2) Seasonal energy effi ciency ratio
(3) Seasonal Space cooling energy effi ciency
The units highlighted in this publication contain R513A [GWP100 631] fl uorinated greenhouse gases.