

3.1 GENERAL TECHNICAL DATA

TECS2 / SL-CA

TECS2 / SL-CA			0211	0251	0351	0452	0512	0552	0652	0712	0853	0913
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	233	258	346	442	509	574	650	742	848	903
Total power input	(1)	kW	70,5	81,1	110	138	161	174	208	225	269	286
EER	(1)		3,30	3,18	3,13	3,20	3,16	3,30	3,13	3,30	3,15	3,15
ESEER	(1)		4,77	4,87	4,72	5,07	5,17	5,09	5,04	5,16	5,12	5,13
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	232	257	345	441	507	572	648	740	846	901
EER	(1)(2)		3,25	3,14	3,10	3,16	3,13	3,26	3,11	3,26	3,12	3,12
ESEER	(1)(2)		4,61	4,73	4,57	4,88	4,97	4,87	4,89	4,97	4,92	4,90
Cooling energy class			A	A	A	A	A	A	A	A	A	A
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(3)	kW	241	267	359	459	528	595	674	770	880	937
Total power input	(3)	kW	68,3	78,5	107	134	156	168	201	218	261	277
Desuperheater heating capacity	(3)	kW	56,5	66,0	90,0	113	133	142	170	186	221	234
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	m³/h	40,1	44,4	59,5	76,1	87,6	98,8	112	128	146	156
Pressure drop	(1)	kPa	36,4	27,4	28,5	27,6	27,7	35,2	21,1	27,6	31,8	36,0
PARTIAL RECOVERY USER SIDE IN												
Water flow	(3)	m³/h	9,82	11,5	15,6	19,6	23,1	24,7	29,6	32,3	38,4	40,7
Pressure drop	(3)	kPa	43,1	58,6	53,0	27,0	37,5	42,9	47,2	56,3	42,2	49,2
COMPRESSORS												
N. of compressors		N°	1	1	1	2	2	2	2	2	3	3
Number of capacity		N°	0	0	0	0	0	0	0	0	0	0
No. of circuits		N°	1	1	1	1	1	1	1	1	2	2
Regulation			STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS
Min. capacity step		%	-	-	-	-	-	-	-	-	-	-
Refrigerant			R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge		kg	120	130	150	220	230	240	450	470	480	550
Oil charge		kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
FANS												
Quantity		N°	6	6	8	10	10	12	14	14	10	14
Air flow		m³/s	23,5	23,5	31,9	40,1	38,1	48,5	57,8	54,9	65,3	81,4
Fans power		kW	1,20	1,20	1,20	1,20	1,20	1,20	1,20	1,20	1,20	1,20
NOISE LEVEL												
Noise Pressure	(4)	dB(A)	56	56	58	58	58	59	59	59	60	60
Noise Power	(5)	dB(A)	88	88	90	90	90	91	92	92	93	93
SIZE AND WEIGHT												
A	(6)	mm	3100	3100	4000	4900	4900	5800	7000	7000	8500	9700
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2430	2430	2430	2430	2430	2430	2430	2430	2430	2430
Operating weight	(6)	kg	2320	2370	3050	4000	4240	4530	5800	6150	6940	7370

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 EN14511-3:2011

3 Evaporator water (in/out) = 12°C/7°C; Condenser air (in) = 35°C; Desuperheater water (in/out) = 40°C/45°C.

4 Average sound pressure level, at 10m distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

5 Sound power on the basis of measurements made in compliance with ISO 9614 and Eurovent 8/1 for Eurovent certified units; in compliance with ISO 3744 for non-certified units.

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

- Unavailable

TECS2 / SL-CA			1013	1054	1154
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50
PERFORMANCE					
COOLING ONLY (GROSS VALUE)					
Cooling capacity	(1)	kW	977	1065	1183
Total power input	(1)	kW	310	336	374
EER	(1)		3,15	3,17	3,17
ESEER	(1)		5,09	5,06	5,14
COOLING ONLY (EN14511 VALUE)					
Cooling capacity	(1)(2)	kW	975	1062	1180
EER	(1)(2)		3,12	3,13	3,13
ESEER	(1)(2)		4,90	4,85	4,92
Cooling energy class			A	A	A
COOLING WITH PARTIAL RECOVERY					
Cooling capacity	(3)	kW	1014	1105	1228
Total power input	(3)	kW	300	325	362
Desuperheater heating capacity	(3)	kW	253	274	308
EXCHANGERS					
HEAT EXCHANGER USER SIDE IN REFRIGERATION					
Water flow	(1)	m³/h	168	183	204
Pressure drop	(1)	kPa	29,7	35,3	37,3
PARTIAL RECOVERY USER SIDE IN					
Water flow	(3)	m³/h	44,0	47,7	53,5
Pressure drop	(3)	kPa	46,4	40,0	38,6
COMPRESSORS					
N. of compressors		N°	3	4	4
Number of capacity		N°	0	0	0
No. of circuits		N°	2	2	2
Regulation			STEPLESS	STEPLESS	STEPLESS
Min. capacity step		%	-	-	-
Refrigerant			R134a	R134a	R134a
Refrigerant charge		kg	570	600	610
Oil charge		kg	0,00	0,00	0,00
FANS					
Quantity		N°	14	24	24
Air flow		m³/s	89,5	97,0	101
Fans power		kW	1,20	1,20	1,20
NOISE LEVEL					
Noise Pressure	(4)	dB(A)	60	61	61
Noise Power	(5)	dB(A)	93	94	94
SIZE AND WEIGHT					
A	(6)	mm	10600	11200	11500
B	(6)	mm	2260	2260	2260
H	(6)	mm	2430	2430	2430
Operating weight	(6)	kg	8150	8700	9020

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 EN14511-3:2011

3 Evaporator water (in/out) = 12°C/7°C; Condenser air (in) = 35°C; Desuperheater water (in/out) = 40°C/45°C.

4 Average sound pressure level, at 10m distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

5 Sound power on the basis of measurements made in compliance with ISO 9614 and Eurovent 8/1 for Eurovent certified units; in compliance with ISO 3744 for non-certified units.

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

- Unavailable

GENERAL TECHNICAL DATA

TECS2 / SL-CA-E

TECS2 / SL-CA-E			0211	0251	0351	0452	0512	0552	0652	0712	0853	0913
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	229	285	385	455	527	590	703	796	902	969
Total power input	(1)	kW	67,1	81,3	113	134	154	168	204	233	263	279
EER	(1)		3,41	3,50	3,40	3,41	3,41	3,50	3,45	3,41	3,43	3,48
ESEER	(1)		5,29	5,52	5,43	5,79	5,71	5,64	5,77	5,77	5,62	5,79
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	228	284	383	454	526	588	701	794	900	966
EER	(1)(2)		3,36	3,45	3,35	3,37	3,38	3,46	3,42	3,37	3,39	3,43
ESEER	(1)(2)		5,09	5,31	5,19	5,55	5,46	5,34	5,57	5,51	5,37	5,48
Cooling energy class		A	A	A	A	A	A	A	A	A	A	A
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(3)	kW	237	295	399	472	547	612	729	826	936	1006
Total power input	(3)	kW	64,9	78,7	109	129	149	163	197	226	254	270
Desuperheater heating capacity	(3)	kW	55,3	68,1	94,9	112	130	141	171	196	221	234
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	m³/h	39,4	49,0	66,2	78,3	90,7	102	121	137	155	167
Pressure drop	(1)	kPa	35,2	33,5	35,2	29,2	29,7	37,2	24,7	31,7	35,9	41,5
PARTIAL RECOVERY USER SIDE IN												
Water flow	(3)	m³/h	9,62	11,8	16,5	19,4	22,6	24,6	29,8	34,1	38,4	40,6
Pressure drop	(3)	kPa	41,3	62,4	59,0	26,5	36,0	42,4	47,8	62,7	42,1	48,9
COMPRESSORS												
N. of compressors		N°	1	1	1	2	2	2	2	2	3	3
Number of capacity		N°	0	0	0	0	0	0	0	0	0	0
No. of circuits		N°	1	1	1	1	1	1	1	1	2	2
Regulation			STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS
Min. capacity step		%	-	-	-	-	-	-	-	-	-	-
Refrigerant			R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge		kg	120	130	150	220	230	240	450	475	480	550
Oil charge		kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
FANS												
Quantity		N°	6	6	8	10	10	12	14	16	10	14
Air flow		m³/s	23,5	22,3	30,2	38,1	38,1	46,0	54,9	62,8	68,5	77,3
Fans power		kW	0,85	0,85	0,85	0,85	0,85	0,85	0,85	0,85	0,85	0,85
NOISE LEVEL												
Noise Pressure	(4)	dB(A)	56	56	58	58	58	59	59	59	60	60
Noise Power	(5)	dB(A)	88	88	90	90	90	91	92	92	93	93
SIZE AND WEIGHT												
A	(6)	mm	3100	3100	4000	4900	4900	5800	7000	7900	8500	9700
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2430	2430	2430	2430	2430	2430	2430	2430	2430	2430
Operating weight	(6)	kg	2270	2350	3130	4070	4230	4570	6040	6450	7020	7610

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 EN14511-3:2011

3 Evaporator water (in/out) = 12°C/7°C; Condenser air (in) = 35°C; Desuperheater water (in/out) = 40°C/45°C.

4 Average sound pressure level, at 10m distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

5 Sound power on the basis of measurements made in compliance with ISO 9614 and Eurovent 8/1 for Eurovent certified units; in compliance with ISO 3744 for non-certified units.

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

- Unavailable

TECS2 / SL-CA-E			1013	1054	1154
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50
PERFORMANCE					
COOLING ONLY (GROSS VALUE)					
Cooling capacity	(1)	kW	1086	1177	1324
Total power input	(1)	kW	317	336	383
EER	(1)		3,42	3,50	3,46
ESEER	(1)		5,71	5,87	5,75
COOLING ONLY (EN14511 VALUE)					
Cooling capacity	(1)(2)	kW	1083	1173	1320
EER	(1)(2)		3,38	3,45	3,41
ESEER	(1)(2)		5,44	5,55	5,42
Cooling energy class			A	A	A
COOLING WITH PARTIAL RECOVERY					
Cooling capacity	(3)	kW	1126	1221	1374
Total power input	(3)	kW	307	325	370
Desuperheater heating capacity	(3)	kW	266	282	322
EXCHANGERS					
HEAT EXCHANGER USER SIDE IN REFRIGERATION					
Water flow	(1)	m³/h	187	203	228
Pressure drop	(1)	kPa	36,7	43,1	46,8
PARTIAL RECOVERY USER SIDE IN					
Water flow	(3)	m³/h	46,3	49,0	56,0
Pressure drop	(3)	kPa	51,4	42,3	42,3
COMPRESSORS					
N. of compressors		N°	3	4	4
Number of capacity		N°	0	0	0
No. of circuits		N°	2	2	2
Regulation			STEPLESS	STEPLESS	STEPLESS
Min. capacity step		%	-	-	-
Refrigerant			R134a	R134a	R134a
Refrigerant charge		kg	570	600	650
Oil charge		kg	0,00	0,00	0,00
FANS					
Quantity		N°	14	24	26
Air flow		m³/s	85,0	92,1	101
Fans power		kW	0,85	0,85	0,85
NOISE LEVEL					
Noise Pressure	(4)	dB(A)	60	61	62
Noise Power	(5)	dB(A)	93	94	95
SIZE AND WEIGHT					
A	(6)	mm	10600	11200	12400
B	(6)	mm	2260	2260	2260
H	(6)	mm	2430	2430	2430
Operating weight	(6)	kg	8510	8660	9720

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 EN14511-3:2011

3 Evaporator water (in/out) = 12°C/7°C; Condenser air (in) = 35°C; Desuperheater water (in/out) = 40°C/45°C.

4 Average sound pressure level, at 10m distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

5 Sound power on the basis of measurements made in compliance with ISO 9614 and Eurovent 8/1 for Eurovent certified units; in compliance with ISO 3744 for non-certified units.

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

- Unavailable

GENERAL TECHNICAL DATA

TECS2 / XL-CA

TECS2 / XL-CA			0211	0251	0351	0452	0512	0552	0652	0712	0853	0913
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	220	254	341	435	525	579	640	739	874	900
Total power input	(1)	kW	68,5	79,8	109	137	166	171	206	226	279	290
EER	(1)		3,21	3,19	3,12	3,19	3,17	3,38	3,11	3,27	3,13	3,11
ESEER	(1)		4,75	4,99	4,84	5,19	5,23	5,17	5,19	5,24	5,24	5,30
COOLING ONLY (EN14511 VALUE)												
Cooling capacity	(1)(2)	kW	219	254	340	434	524	578	639	737	872	897
EER	(1)(2)		3,17	3,15	3,08	3,16	3,14	3,34	3,08	3,24	3,10	3,07
ESEER	(1)(2)		4,61	4,84	4,69	5,02	5,03	4,94	5,03	5,05	5,03	5,06
Cooling energy class			A	A	B	A	A	A	B	A	A	B
COOLING WITH PARTIAL RECOVERY												
Cooling capacity	(3)	kW	228	264	354	452	545	601	664	767	906	933
Total power input	(3)	kW	66,3	77,2	106	132	160	166	199	219	270	280
Desuperheater heating capacity	(3)	kW	56,3	66,4	91,3	114	138	142	173	189	233	242
EXCHANGERS												
HEAT EXCHANGER USER SIDE IN REFRIGERATION												
Water flow	(1)	m³/h	37,9	43,8	58,7	74,9	90,5	99,7	110	127	150	155
Pressure drop	(1)	kPa	32,6	26,7	27,7	26,7	29,5	35,9	20,5	27,3	33,7	35,7
PARTIAL RECOVERY USER SIDE IN												
Water flow	(3)	m³/h	9,79	11,5	15,9	19,8	24,0	24,6	30,0	32,9	40,4	42,1
Pressure drop	(3)	kPa	42,8	59,5	54,6	27,5	40,5	42,6	48,6	58,2	46,8	52,7
COMPRESSORS												
N. of compressors		N°	1	1	1	2	2	2	2	2	3	3
Number of capacity		N°	0	0	0	0	0	0	0	0	0	0
No. of circuits		N°	1	1	1	1	1	1	1	1	2	2
Regulation			STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS	STEPLESS
Min. capacity step		%	-	-	-	-	-	-	-	-	-	-
Refrigerant			R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a	R134a
Refrigerant charge		kg	120	130	150	220	250	270	450	500	510	550
Oil charge		kg	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00
FANS												
Quantity		N°	6	6	8	10	12	14	14	16	12	14
Air flow		m³/s	18,9	18,0	24,2	30,5	36,9	46,4	44,2	50,5	61,0	62,0
Fans power		kW	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90
NOISE LEVEL												
Noise Pressure	(4)	dB(A)	50	50	51	51	52	52	52	53	53	53
Noise Power	(5)	dB(A)	82	82	83	83	84	85	85	86	86	86
SIZE AND WEIGHT												
A	(6)	mm	3100	3100	4000	4900	5800	7000	7000	7900	9400	9700
B	(6)	mm	2260	2260	2260	2260	2260	2260	2260	2260	2260	2260
H	(6)	mm	2430	2430	2430	2430	2430	2430	2430	2430	2430	2430
Operating weight	(6)	kg	2370	2420	3200	4240	4690	5350	6150	6650	7520	7770

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 EN14511-3:2011

3 Evaporator water (in/out) = 12°C/7°C; Condenser air (in) = 35°C; Desuperheater water (in/out) = 40°C/45°C.

4 Average sound pressure level, at 10m distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

5 Sound power on the basis of measurements made in compliance with ISO 9614 and Eurovent 8/1 for Eurovent certified units; in compliance with ISO 3744 for non-certified units.

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

- Unavailable

TECS2 / XL-CA			1013	1054	1154
Power supply		V/ph/Hz	400/3/50	400/3/50	400/3/50
PERFORMANCE					
COOLING ONLY (GROSS VALUE)					
Cooling capacity	(1)	kW	972	1049	1174
Total power input	(1)	kW	312	331	377
EER	(1)		3,12	3,17	3,11
ESEER	(1)		5,24	5,19	5,23
COOLING ONLY (EN14511 VALUE)					
Cooling capacity	(1)(2)	kW	970	1046	1171
EER	(1)(2)		3,09	3,13	3,08
ESEER	(1)(2)		5,04	4,96	5,01
Cooling energy class			B	A	B
COOLING WITH PARTIAL RECOVERY					
Cooling capacity	(3)	kW	1008	1088	1218
Total power input	(3)	kW	302	320	365
Desuperheater heating capacity	(3)	kW	261	276	316
EXCHANGERS					
HEAT EXCHANGER USER SIDE IN REFRIGERATION					
Water flow	(1)	m³/h	167	181	202
Pressure drop	(1)	kPa	29,4	34,2	36,8
PARTIAL RECOVERY USER SIDE IN					
Water flow	(3)	m³/h	45,3	48,0	54,9
Pressure drop	(3)	kPa	49,2	40,6	40,7
COMPRESSORS					
N. of compressors		N°	3	4	4
Number of capacity		N°	0	0	0
No. of circuits		N°	2	2	2
Regulation			STEPLESS	STEPLESS	STEPLESS
Min. capacity step		%	-	-	-
Refrigerant			R134a	R134a	R134a
Refrigerant charge		kg	570	600	650
Oil charge		kg	0,00	0,00	0,00
FANS					
Quantity		N°	14	24	26
Air flow		m³/s	68,2	73,8	80,7
Fans power		kW	0,90	0,90	0,90
NOISE LEVEL					
Noise Pressure	(4)	dB(A)	54	54	55
Noise Power	(5)	dB(A)	87	87	88
SIZE AND WEIGHT					
A	(6)	mm	10600	11200	12400
B	(6)	mm	2260	2260	2260
H	(6)	mm	2430	2430	2430
Operating weight	(6)	kg	8650	9150	9960

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 EN14511-3:2011

3 Evaporator water (in/out) = 12°C/7°C; Condenser air (in) = 35°C; Desuperheater water (in/out) = 40°C/45°C.

4 Average sound pressure level, at 10m distance, unit in a free field on a reflective surface; non-binding value obtained from the sound power level.

5 Sound power on the basis of measurements made in compliance with ISO 9614 and Eurovent 8/1 for Eurovent certified units; in compliance with ISO 3744 for non-certified units.

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

- Unavailable