Single
Packs

Single Pack SC15MLX 220-240V 50Hz CSIR

Single pack code number: **195B4052**

Position	Title	Code	Amount
1	Compressor SC15MLX	104L2869	1
2	Starting relay	117U6013	1
3	Starting capacitor (125µF 220V, 6.3mm)	117U5012	1
4	Cord relief	103N1004	1
5	Cover	103N2009	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
SC15MLX

Sales code:
104L2869

Compressor Data

Refrigerant(s)	**R404A / R452A / R507**
Refr. charge - tech. limit	**1300g / 45.86oz**
Weight	**13.80 kg / 30.42lbs**
Displacement	**15.28 cm3 / 0.93cu.in**
Compressors on pallet	**80**

General – Configurations With SC15MLX

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	CSIR	CSIR	CSIR	CSIR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1	1	1
Voltage range	198-254 V	198-254 V	198-254 V	198-254 V
Approvals	VDE, CCC, EAC	VDE, CCC, EAC	–	–
Starting torque	HST	HST	HST	HST
Refrigerant	R404A	R452A	R448A	R449A
Application	MBP	MBP	MBP	MBP
Hot gas defrost	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

Model
SC15MLX

Sales code:
104L2869

Compressor Design

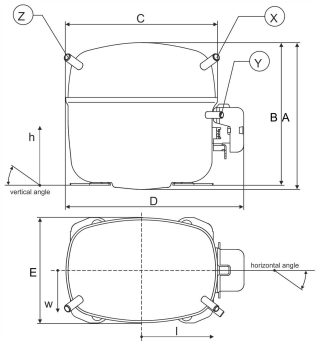
Oil type	**POE**	Winding resistance main	**3.3 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**16 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

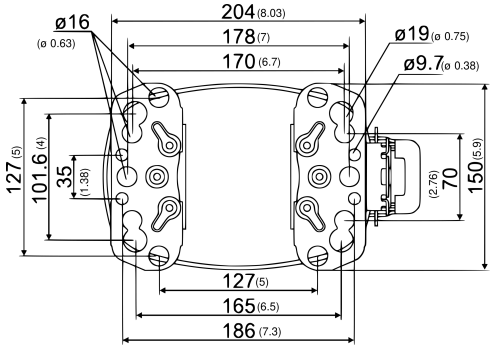
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



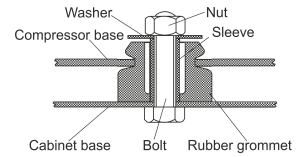
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

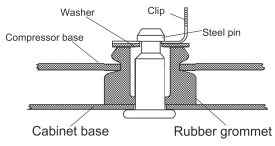


Dimensions in mm [in]

Bolt joint



Snap-on



	one comp.	multi pack
Bolt joint | M6 | ø16mm	118-1917	118-1918
Bolt joint | ø1/4" | ø16mm	118-1946	–
Bolt joint | ø1/4" | ø19mm	118-1949	–
Snap-on | ø7,3 | ø16mm	118-1947	118-1919

Model
SC15MLX Configuration 1

Sales code:
104L2869

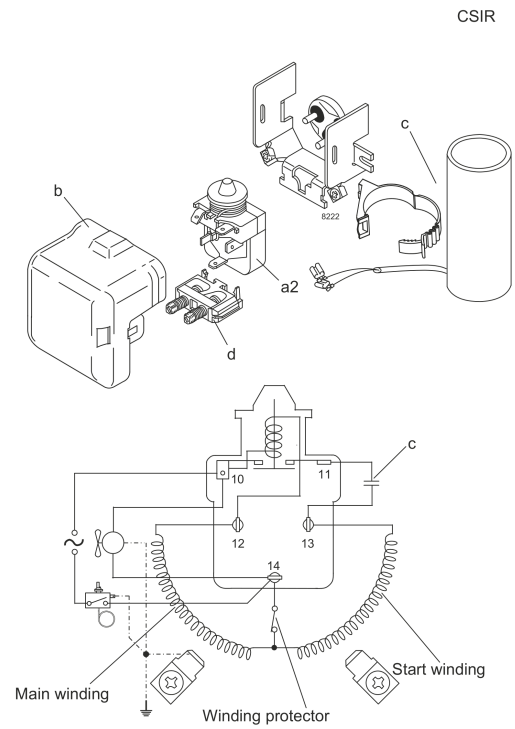
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R404A**
Application	**MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, CCC, EAC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**125 µF**
LRA (locked rotor amps / 4s/ U(N))	**25 A**
RLA (rated load amps / 1s/ U(N))	**4.5 A**
Cut in current (U(N))	**25 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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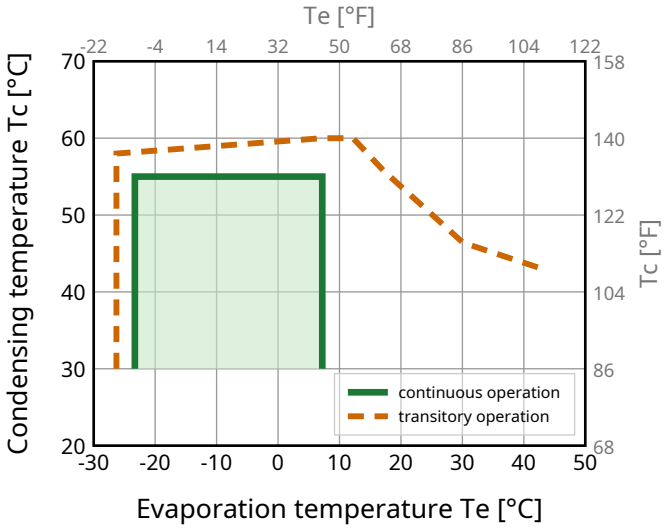
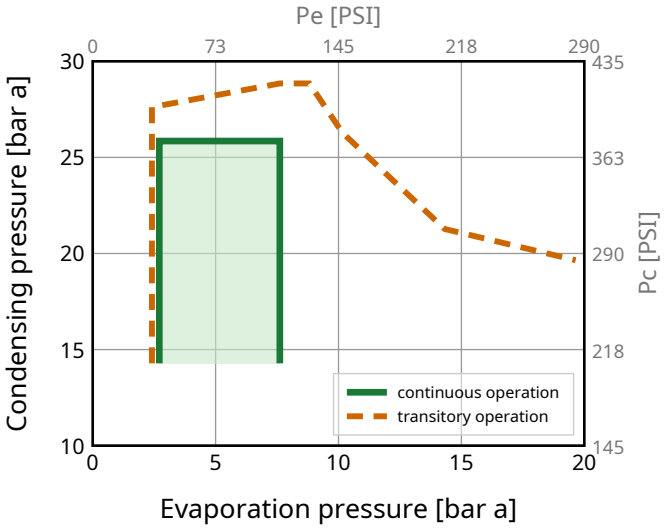
Components
a2 relay 117U6013
c start capacitor (125µF) 117U5012
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC15MLX Configuration 1

Sales code:
104L2869

Standard Conditions

R404A, 220 V/50 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-6.7 20	54.4 129.9	35 95	46.1 115	**1375**	4692	1182	**1.55**	5.31	884	5.16	37.77	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**1025**	3496	881	**1.22**	4.17	839	4.96	32.75	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1211**	4132	1041	**1.55**	5.30	780	4.73	36.41	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1260**	4300	1084	**1.49**	5.10	843	5.01	41.07	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1285**	4383	1105	**1.65**	5.62	780	4.73	35.32	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**654**	2233	563	**1.10**	3.77	592	3.93	17.62	**opt MBP 2**

Performance Tables

R404A, 220 V/50 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-23.3	-10	**710**	2423	611	**1.16**	3.95	613	4.01	19.15
-20	-4	**829**	2828	713	**1.27**	4.32	654	4.18	22.44
-15	5	**1038**	3540	892	**1.45**	4.94	717	4.44	28.29
-10	14	**1285**	4383	1105	**1.65**	5.62	780	4.73	35.32
-5	23	**1574**	5370	1354	**1.86**	6.36	845	5.03	43.69
0	32	**1909**	6512	1641	**2.10**	7.15	911	5.34	53.60
5	41	**2293**	7823	1972	**2.34**	7.99	979	5.68	65.26
7.2	45	**2478**	8456	2131	**2.45**	8.37	1010	5.83	71.01

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-23.3	-10	**564**	1925	485	**0.88**	3.01	640	4.14	17.64
-20	-4	**658**	2245	566	**0.95**	3.26	689	4.33	20.66
-15	5	**825**	2814	709	**1.08**	3.68	764	4.63	26.11
-10	14	**1025**	3496	881	**1.22**	4.17	839	4.96	32.75
-5	23	**1261**	4304	1085	**1.38**	4.70	915	5.30	40.77
0	32	**1538**	5249	1323	**1.55**	5.29	992	5.66	50.40
5	41	**1860**	6346	1599	**1.74**	5.92	1071	6.03	61.90
7.2	45	**2016**	6879	1734	**1.82**	6.22	1107	6.20	67.63

Model
SC15MLX Configuration 2

Sales code:
104L2869

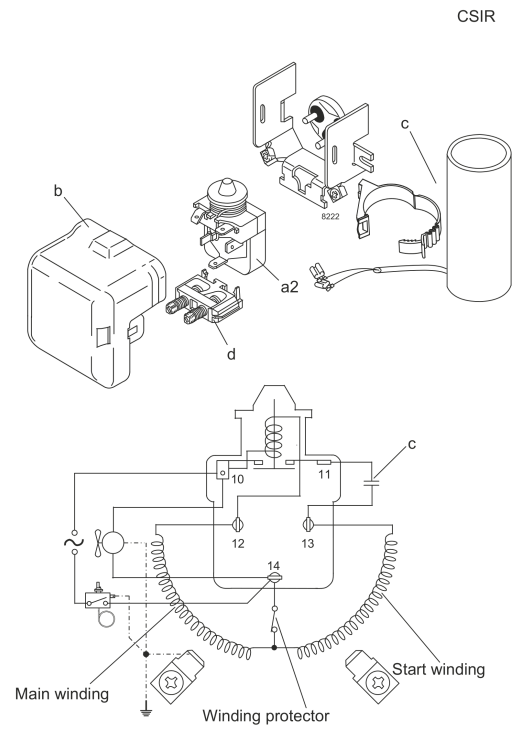
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R452A**
Application	**MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, CCC, EAC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**125 µF**
LRA (locked rotor amps / 4s/ U(N))	**25 A**
RLA (rated load amps / 1s/ U(N))	**4.5 A**
Cut in current (U(N))	**25 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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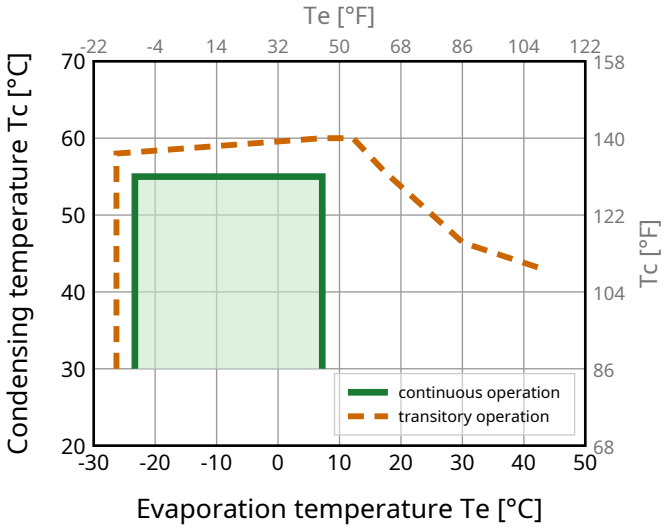
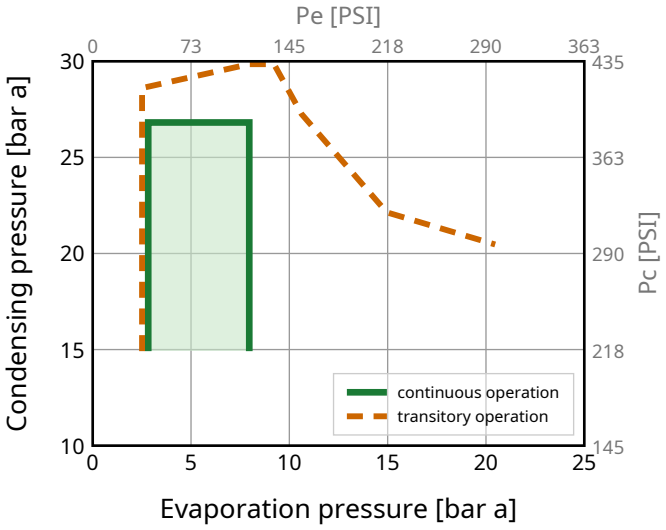
Components
a2 relay 117U6013
c start capacitor (125µF) 117U5012
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC15MLX Configuration 2

Sales code:
104L2869

Standard Conditions

R452A, 220 V/50 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-6.7 20	54.4 129.9	35 95	46.1 115	**1302**	4444	1120	**1.54**	5.27	844	4.99	37.15	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**970**	3310	834	**1.22**	4.15	797	4.79	32.06	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1142**	3897	982	**1.54**	5.25	742	4.55	35.63	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1196**	4081	1029	**1.49**	5.07	805	4.83	40.37	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1210**	4130	1041	**1.63**	5.57	742	4.55	34.56	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**602**	2056	518	**1.09**	3.72	552	3.74	16.85	**opt MBP 2**

Performance Tables

R452A, 220 V/50 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-23.3	-10	**656**	2238	564	**1.14**	3.90	574	3.83	18.37
-20	-4	**770**	2626	662	**1.25**	4.27	615	4.01	21.65
-15	5	**971**	3313	835	**1.43**	4.89	678	4.28	27.50
-10	14	**1210**	4130	1041	**1.63**	5.57	742	4.55	34.56
-5	23	**1492**	5089	1283	**1.85**	6.31	807	4.83	43.00
0	32	**1818**	6205	1564	**2.08**	7.09	875	5.13	53.02
5	41	**2195**	7489	1888	**2.32**	7.92	946	5.43	64.87
7.2	45	**2377**	8112	2045	**2.43**	8.29	978	5.57	70.73

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-23.3	-10	**522**	1780	449	**0.88**	2.99	596	3.92	16.86
-20	-4	**612**	2090	527	**0.95**	3.24	645	4.14	19.89
-15	5	**775**	2643	666	**1.07**	3.66	721	4.46	25.36
-10	14	**970**	3310	834	**1.22**	4.15	797	4.79	32.06
-5	23	**1202**	4103	1034	**1.37**	4.69	875	5.13	40.19
0	32	**1476**	5035	1269	**1.55**	5.27	954	5.47	49.98
5	41	**1794**	6120	1543	**1.73**	5.91	1036	5.82	61.71
7.2	45	**1949**	6650	1676	**1.82**	6.20	1073	5.98	67.57

Model
SC15MLX Configuration 3

Sales code:
104L2869

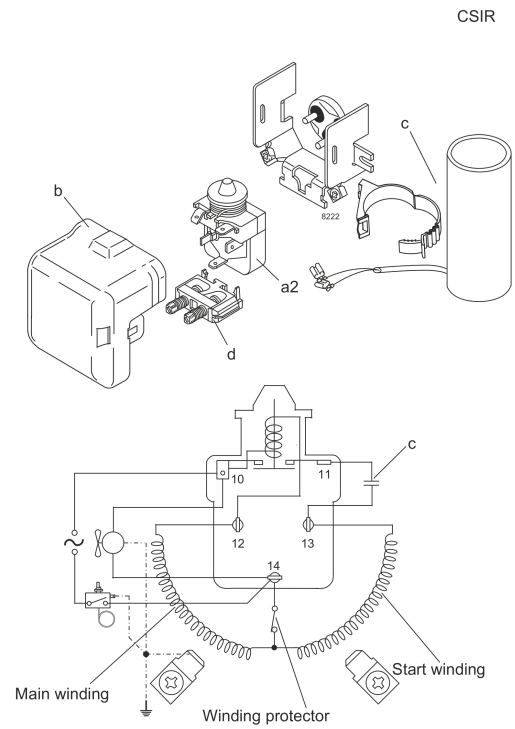
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R448A**
Application	**MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**125 µF**
LRA (locked rotor amps / 4s/ U(N))	**25 A**
RLA (rated load amps / 1s/ U(N))	**4.5 A**
Cut in current (U(N))	**25 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 38°C / 50 - 100°F
Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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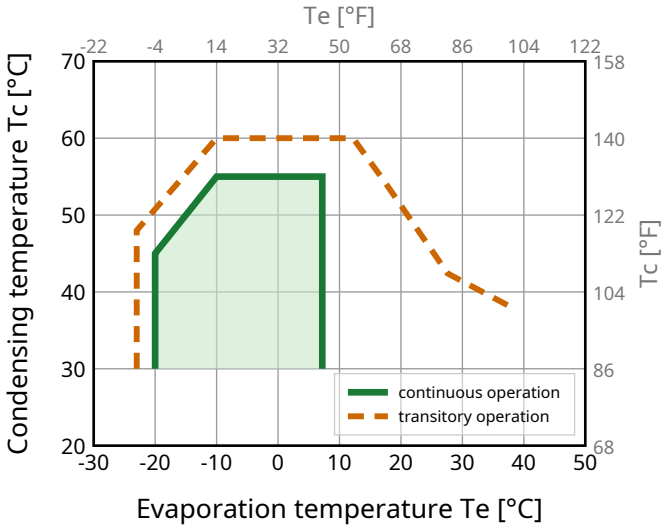
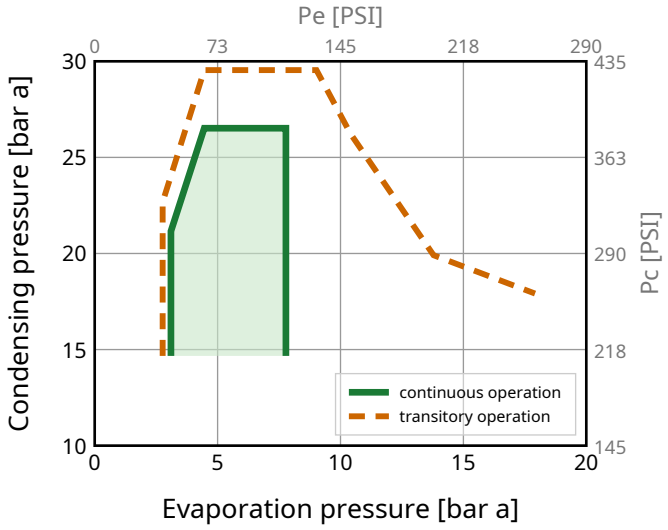
Components
a2 relay 117U6013
c start capacitor (125µF) 117U5012
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model
SC15MLX Configuration 3

Sales code:
104L2869

Standard Conditions

R448A, 220 V/50 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-6.7 20	54.4 129.9	35 95	46.1 115	**1254**	4278	1078	**1.57**	5.37	796	4.79	27.75	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**959**	3272	825	**1.28**	4.36	750	4.59	23.82	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1117**	3812	961	**1.60**	5.45	699	4.37	26.52	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1194**	4073	1026	**1.57**	5.36	760	4.63	30.17	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1162**	3965	999	**1.66**	5.67	699	4.37	25.72	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**562**	1918	483	**1.10**	3.75	511	3.56	12.20	**opt MBP 2**

Performance Tables

R448A, 220 V/50 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-20	-4	**726**	2476	624	**1.26**	4.32	574	3.83	15.84
-15	5	**924**	3153	795	**1.45**	4.96	636	4.10	20.30
-10	14	**1162**	3965	999	**1.66**	5.67	699	4.37	25.72
-5	23	**1444**	4928	1242	**1.89**	6.45	764	4.65	32.24
0	32	**1775**	6055	1526	**2.14**	7.29	831	4.94	40.03
5	41	**2158**	7363	1856	**2.40**	8.18	900	5.24	49.27
7.2	45	**2344**	7999	2016	**2.52**	8.58	932	5.37	53.86

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-20	-4	**592**	2021	509	**0.99**	3.36	601	3.95	14.49
-15	5	**758**	2586	652	**1.12**	3.83	675	4.27	18.67
-10	14	**959**	3272	825	**1.28**	4.36	750	4.59	23.82
-5	23	**1200**	4094	1032	**1.45**	4.95	827	4.92	30.10
0	32	**1485**	5068	1277	**1.64**	5.60	905	5.25	37.70
5	41	**1820**	6209	1565	**1.85**	6.30	986	5.60	46.83
7.2	45	**1984**	6769	1706	**1.94**	6.62	1022	5.76	51.40

Model
SC15MLX Configuration 4

Sales code:
104L2869

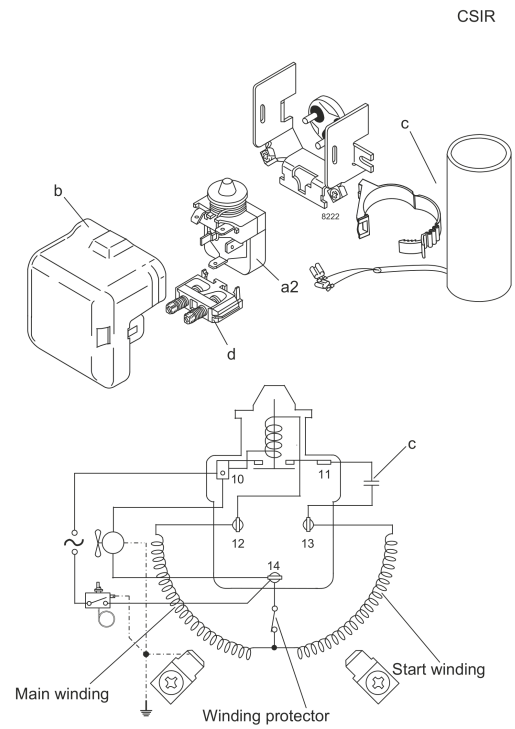
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R449A**
Application	**MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**125 µF**
LRA (locked rotor amps / 4s/ U(N))	**25 A**
RLA (rated load amps / 1s/ U(N))	**4.5 A**
Cut in current (U(N))	**25 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 38°C / 50 - 100°F
Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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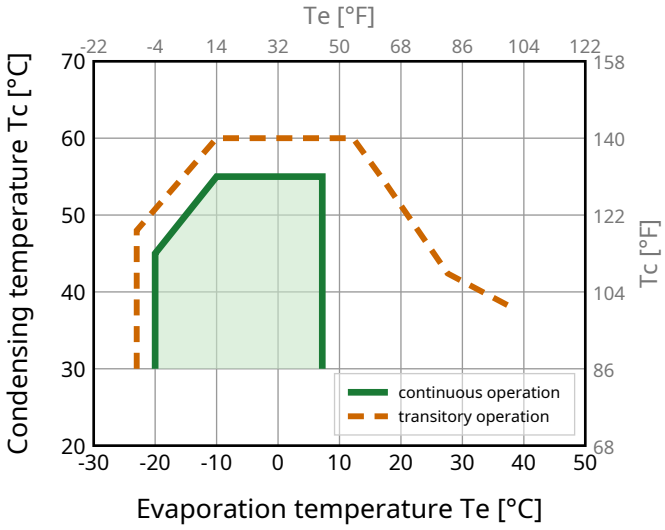
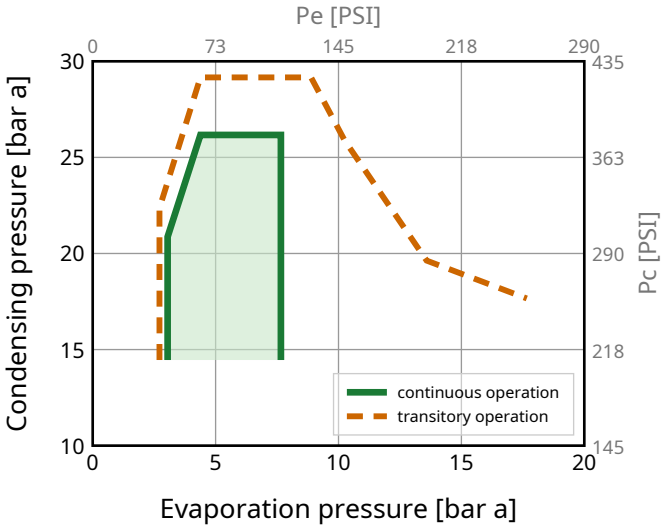
Components
a2 relay 117U6013
c start capacitor (125µF) 117U5012
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model

SC15MLX Configuration 4

Sales code:

104L2869

Standard Conditions

R449A, 220 V/50 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-6.7 20	54.4 129.9	35 95	46.1 115	**1247**	4253	1072	**1.57**	5.37	792	4.77	27.87	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**953**	3250	819	**1.28**	4.35	747	4.58	23.93	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1110**	3788	955	**1.59**	5.44	696	4.36	26.65	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1185**	4044	1019	**1.57**	5.34	757	4.62	30.30	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1156**	3944	994	**1.66**	5.67	696	4.36	25.85	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**560**	1910	481	**1.10**	3.75	510	3.56	12.28	**opt MBP 2**

Performance Tables

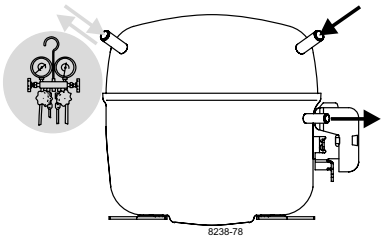
R449A, 220 V/50 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-20	-4	**722**	2465	621	**1.26**	4.31	572	3.82	15.93
-15	5	**920**	3138	791	**1.45**	4.95	634	4.09	20.41
-10	14	**1156**	3944	994	**1.66**	5.67	696	4.36	25.85
-5	23	**1436**	4900	1235	**1.89**	6.45	760	4.63	32.39
0	32	**1764**	6019	1517	**2.13**	7.28	826	4.92	40.20
5	41	**2145**	7318	1845	**2.40**	8.18	895	5.21	49.48
7.2	45	**2330**	7950	2004	**2.52**	8.59	926	5.34	54.08

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-20	-4	**589**	2010	507	**0.98**	3.36	599	3.94	14.58
-15	5	**753**	2570	648	**1.12**	3.82	673	4.26	18.77
-10	14	**953**	3250	819	**1.28**	4.35	747	4.58	23.93
-5	23	**1192**	4066	1025	**1.45**	4.95	822	4.90	30.24
0	32	**1475**	5033	1268	**1.64**	5.60	899	5.23	37.86
5	41	**1807**	6165	1554	**1.85**	6.30	978	5.57	47.02
7.2	45	**1970**	6720	1694	**1.94**	6.63	1014	5.72	51.60



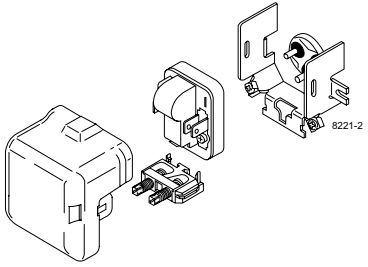
SC Compressors

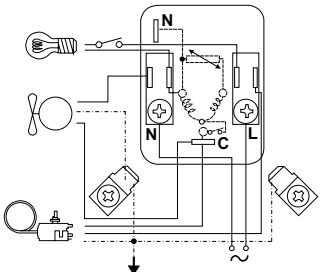
SECOP

Keep electrical equipment clear from oil, chemicals, and water

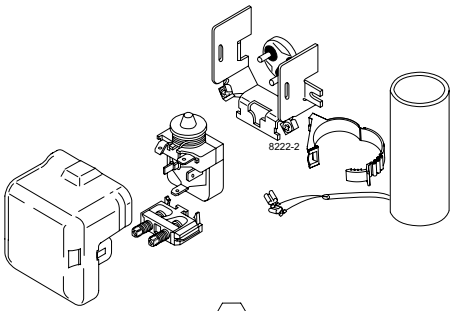
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

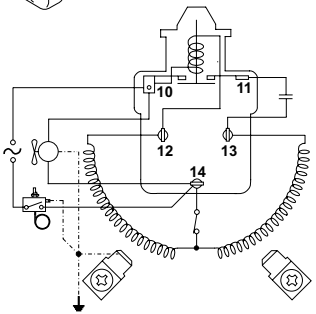
RSIR



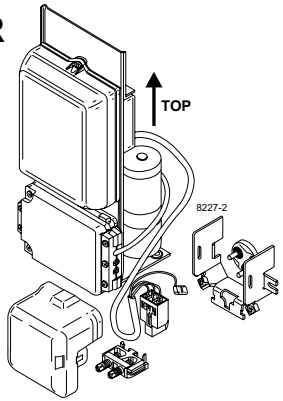


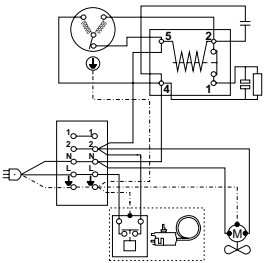
CSIR

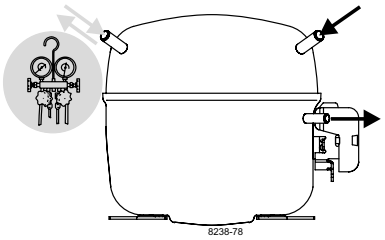




CSCR







SC Compressors

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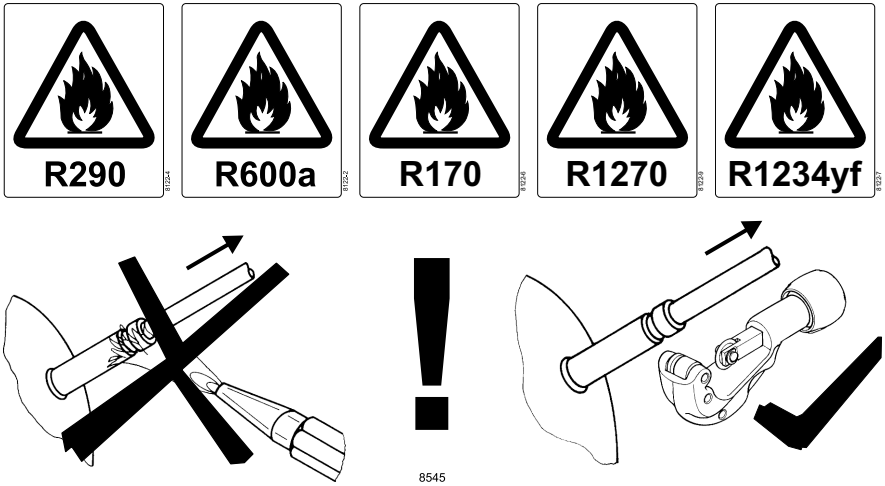
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



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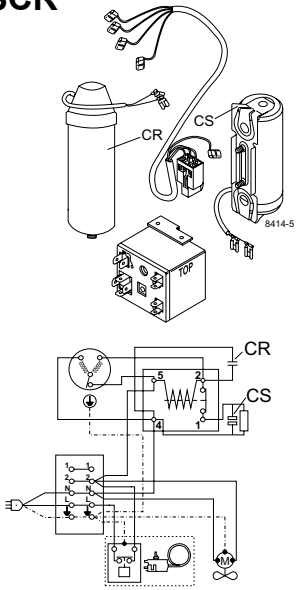

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**