

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

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Compressor Design

Oil type	POE	Winding resistance main	3.300 Ohm
Oil viscosity	32cSt	Winding resistance aux	16.00 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm ³ / 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

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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

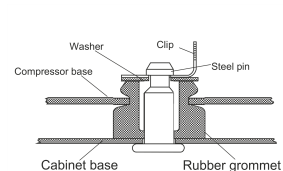
Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	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:
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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

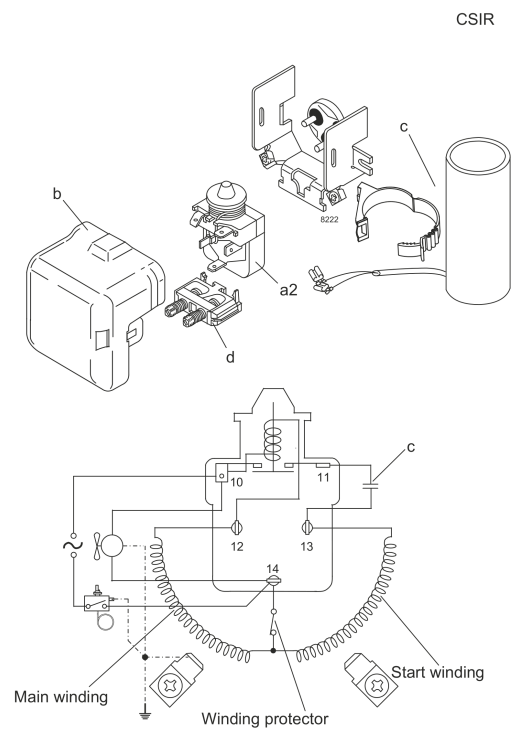
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

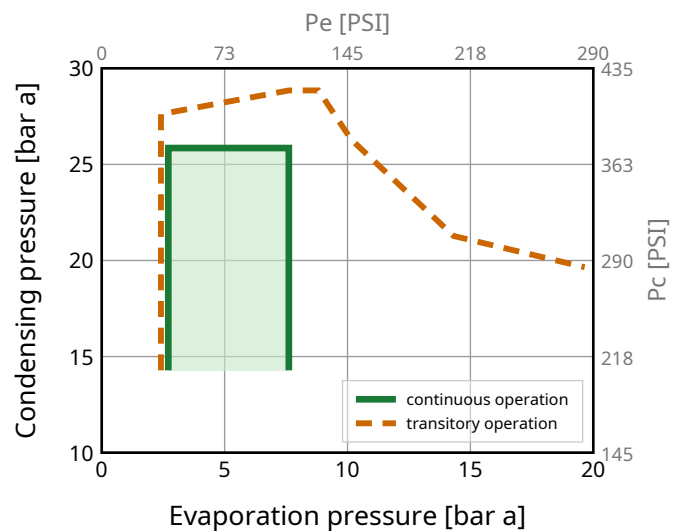
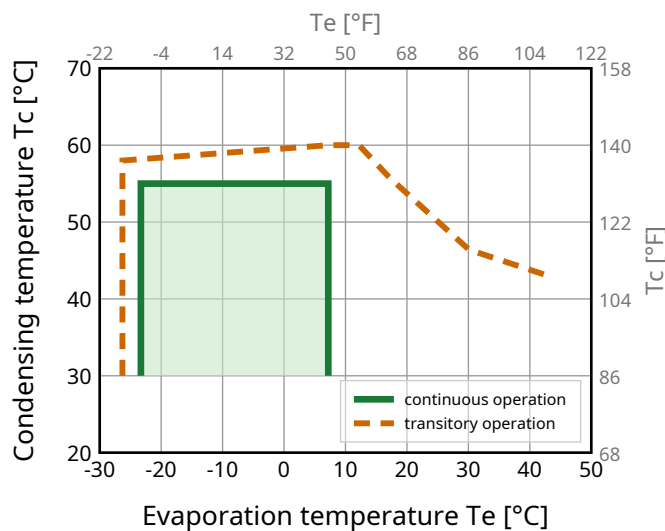
a2 relay 117U6013

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	m	
[°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
-23.3 -10	45 113	32.2 90	32.2 90	823	2809	708	1.34	4.58	613	4.01	19.14	opt LBP

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	m
[°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

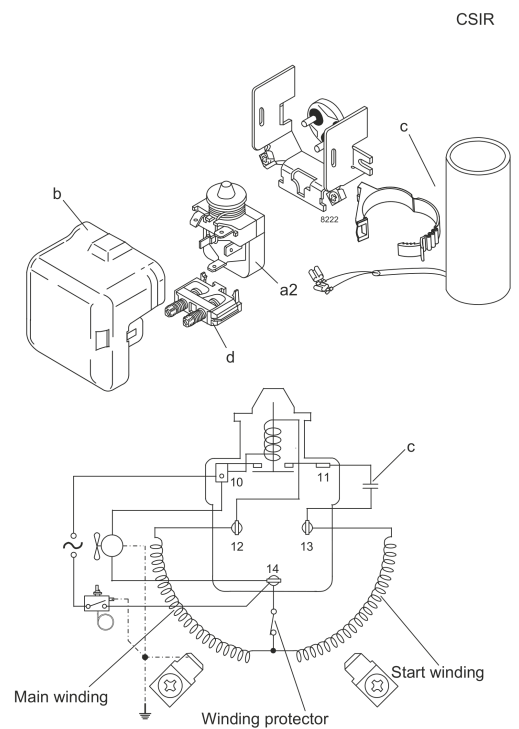
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

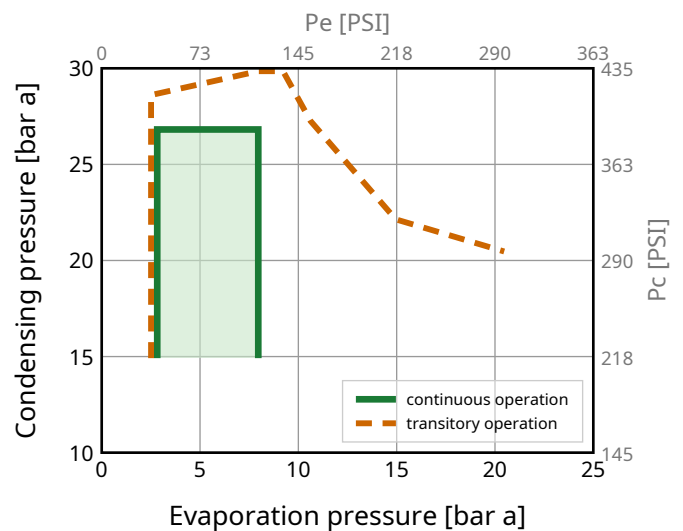
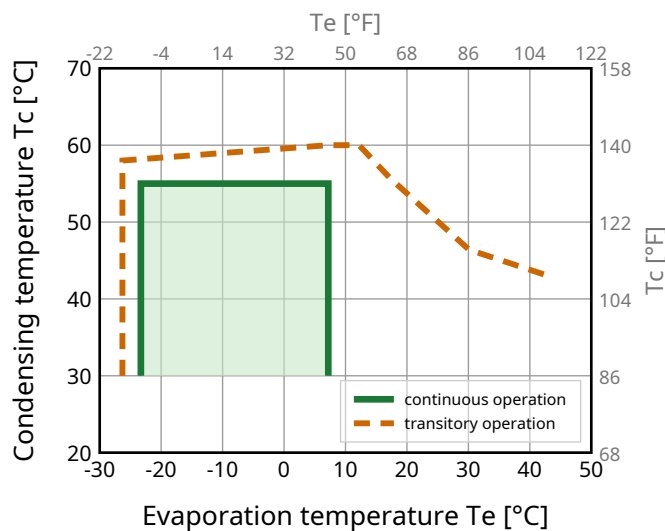
a2 relay 117U6013

c start capacitor (125µF) 117U5012

d cord relief 103N1004

b plastic cover 103N2009

Operation Pressure Range



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Configuration 2

Sales code:
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Standard Conditions

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

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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
-23.3 -10	45 113	32.2 90	32.2 90	759	2589	653	1.32	4.51	574	3.83	18.36	opt LBP

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	m
[°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
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

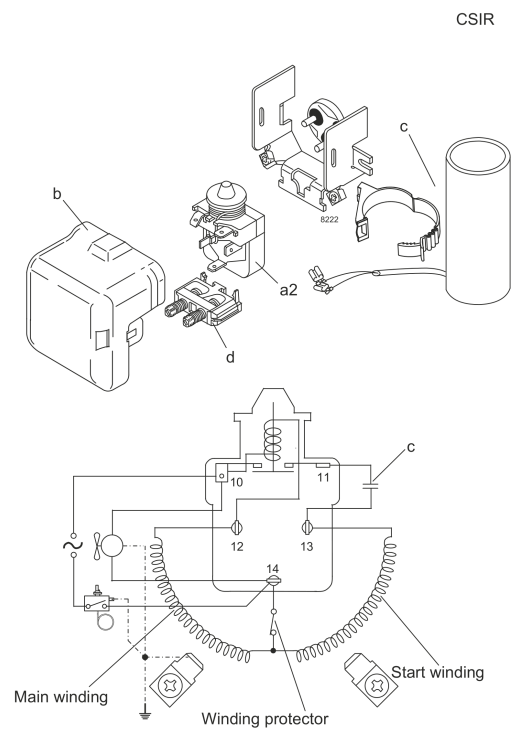
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

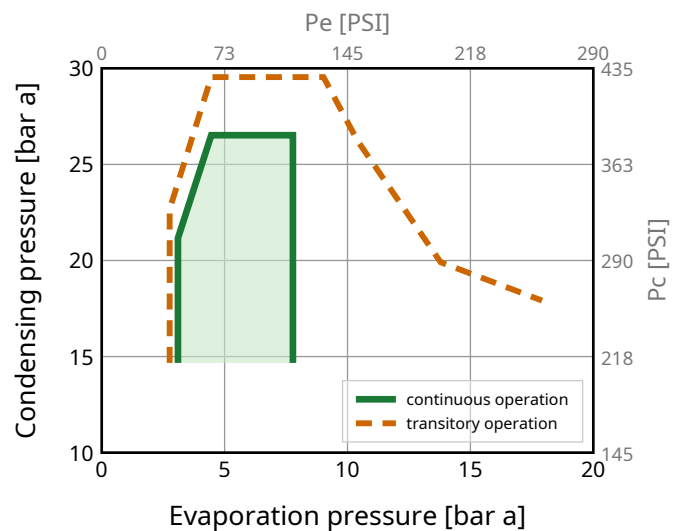
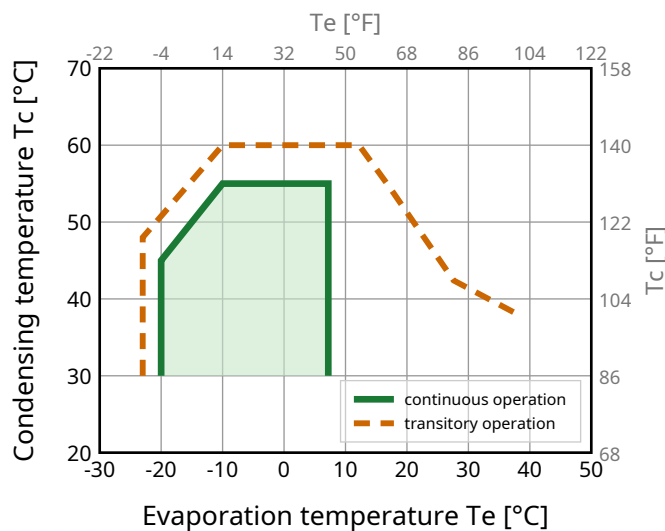
a2 relay 117U6013

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	m	
[°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
-23.3 -10	45 113	32.2 90	32.2 90	693	2363	596	1.30	4.44	532	3.65	13.35	opt LBP

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	m
[°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
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

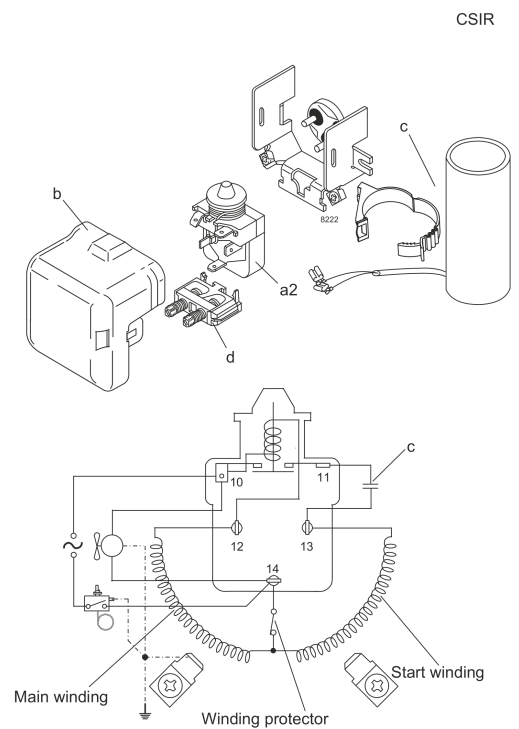
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System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

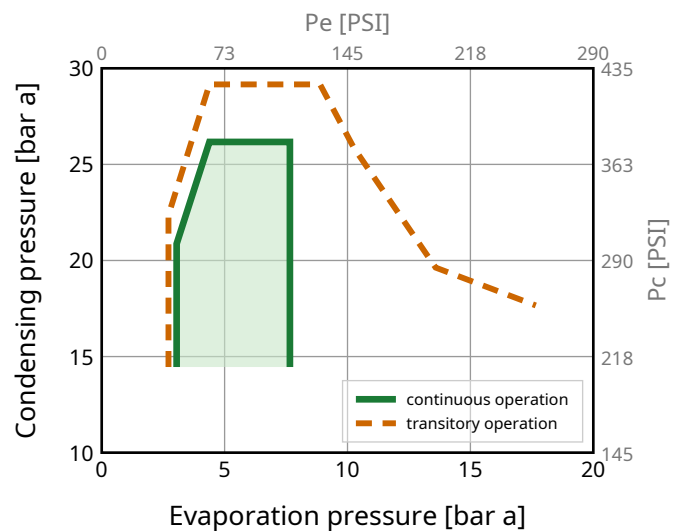
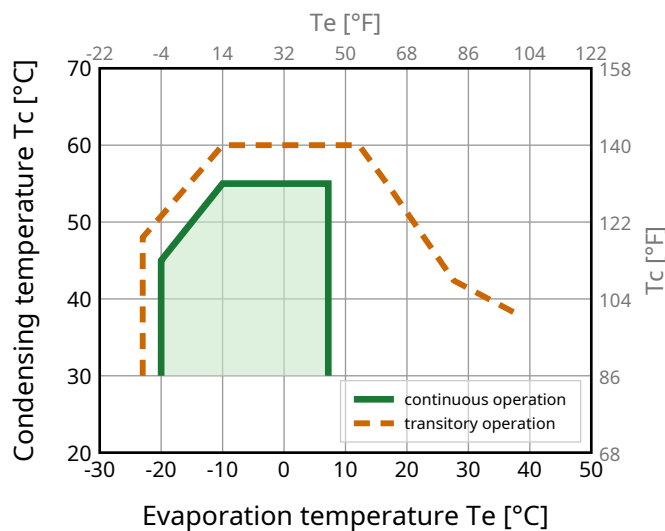
a2 relay 117U6013

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	m	
[°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
-23.3 -10	45 113	32.2 90	32.2 90	690	2356	594	1.30	4.44	531	3.65	13.43	opt LBP

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	m
[°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