

Model

SC15FTX

Sales code:

104G7505

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.20 kg / 29.10lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SC15FTX

-	Conf. 1	Conf. 2
Motor configuration	CSIR	CSIR
Power supply (nominal)	115 V/60 Hz	100-115 V/50 Hz
Number of phases	1	1
Voltage range	90-135 V	90-110 V
Approvals	UL	UL
Starting torque	HST	HST
Refrigerant	R134a	R134a
Application	LBP+MBP	LBP+MBP
Hot gas defrost	OK	OK
Long interval pull down	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	1.000 Ohm
Oil viscosity	22cSt	Winding resistance aux	4.20 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.	140°C / 284°F
Motor protection	internal		

Compressor Dimensions

Housing

A Height	209mm / 8.23in
B Height	203mm / 7.99in
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 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

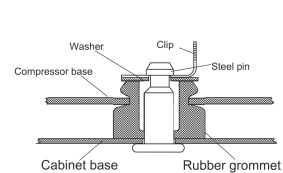
Mounting Accessories



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

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Configuration 1

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Configuration

Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R134a
Application	LBP+MBP
Voltage range	90-135 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	240 µF
LRA (locked rotor amps / 4s/ U(N))	39.7 A
RLA (rated load amps / 1s/ U(N))	7.6 A
Cut in current (U(N))	39.7 A

Ambient/ machine room temperatures minimum /maximum

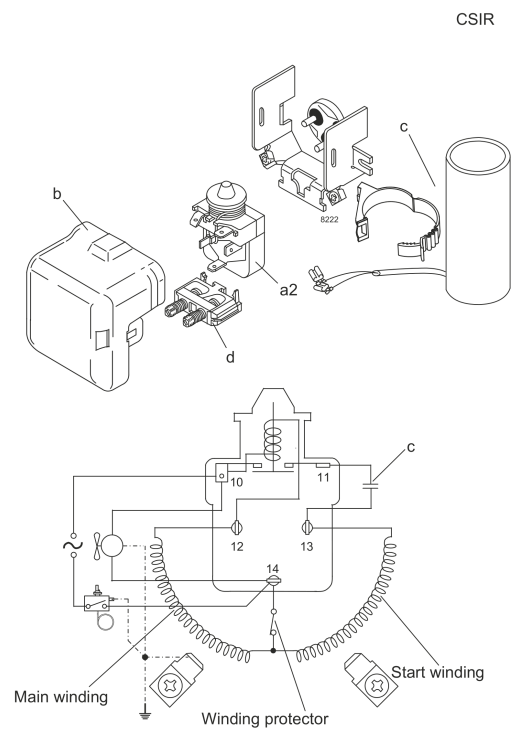
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

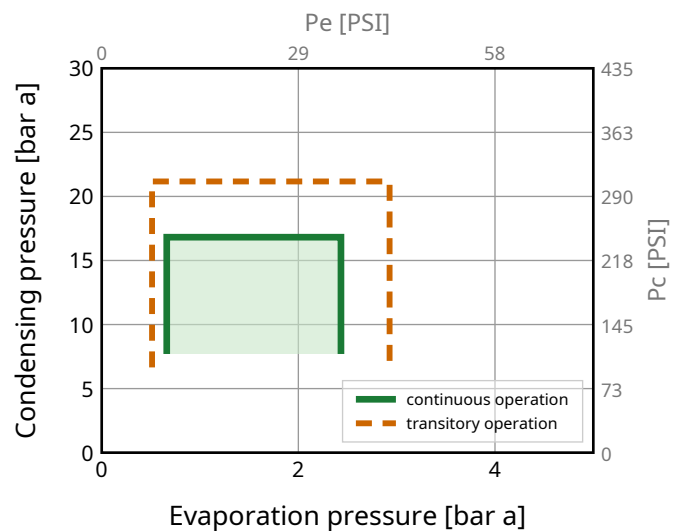
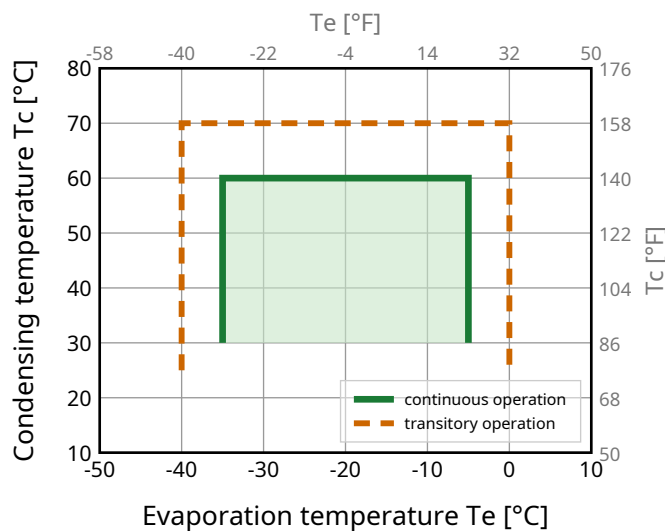
a2 relay 117U6020

c start capacitor (240µF) 117U5023

d cord relief 103N1004

b plastic cover 103N2008

Operation Pressure Range



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Configuration 1

Sales code:
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Standard Conditions

R134a, 115 V/60 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	455	1551	391	1.12	3.82	406	5.75	8.82	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	332	1134	286	0.87	2.98	381	5.62	7.92	CECOMAF LBP
-35 -31	40 104	20 68	40 104	234	798	201	0.83	2.83	282	4.98	5.12	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	923	3150	794	1.46	4.98	632	7.38	20.10	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	722	2463	621	1.23	4.19	588	7.07	17.40	CECOMAF MBP
-10 14	45 113	20 68	45 113	804	2744	692	1.47	5.03	546	6.58	18.76	EN12900 MBP

Performance Tables

R134a, 115 V/60 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]
-35	-31	216	737	186	0.80	2.72	272	4.84	4.65
-30	-22	299	1021	257	0.91	3.10	329	5.13	6.46
-25	-13	400	1363	344	1.04	3.56	383	5.45	8.64
-20	-4	520	1774	447	1.19	4.07	435	5.80	11.27
-15	5	664	2264	571	1.36	4.63	489	6.17	14.43
-10	14	833	2843	716	1.53	5.21	546	6.58	18.19
-5	23	1032	3520	887	1.69	5.78	609	7.00	22.64

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

-35	-31	158	540	136	0.71	2.42	223	4.78	3.76
-30	-22	239	814	205	0.78	2.66	306	5.18	5.68
-25	-13	332	1134	286	0.87	2.98	381	5.62	7.92
-20	-4	442	1508	380	0.98	3.34	451	6.07	10.57
-15	5	571	1948	491	1.10	3.75	519	6.56	13.70
-10	14	722	2463	621	1.23	4.19	588	7.07	17.40
-5	23	898	3064	772	1.36	4.65	659	7.61	21.76

Model
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Configuration 2

Sales code:
104G7505

Configuration

Motor configuration	CSIR
Power supply (nominal)	100-115 V/50 Hz 1~
Refrigerant	R134a
Application	LBP+MBP
Voltage range	90-110 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	240 µF
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

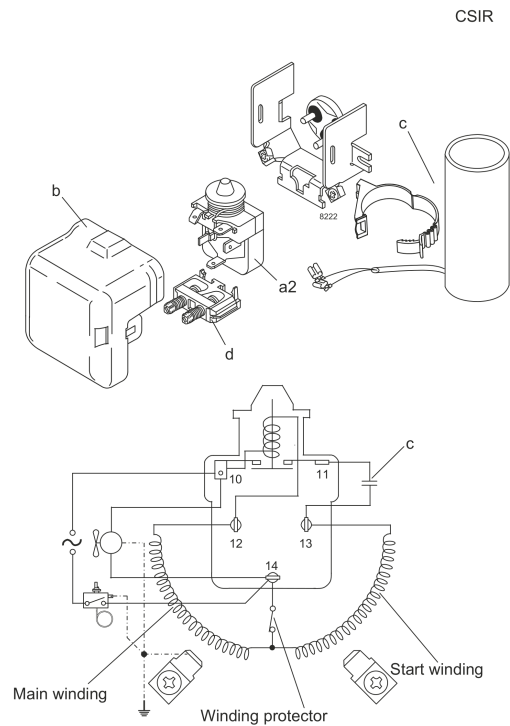
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System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

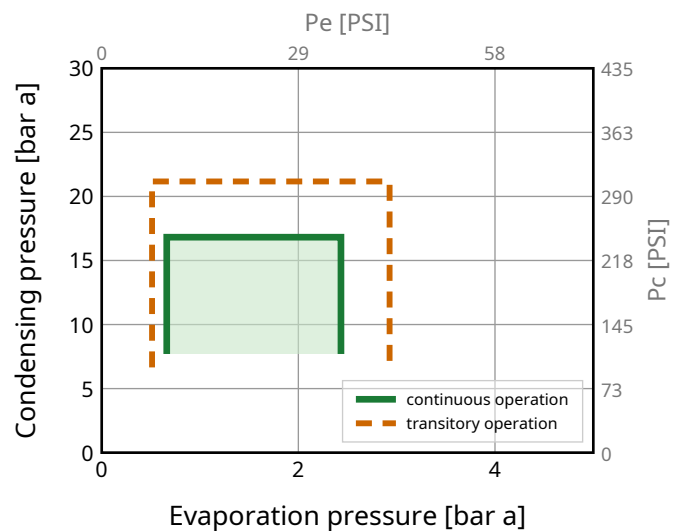
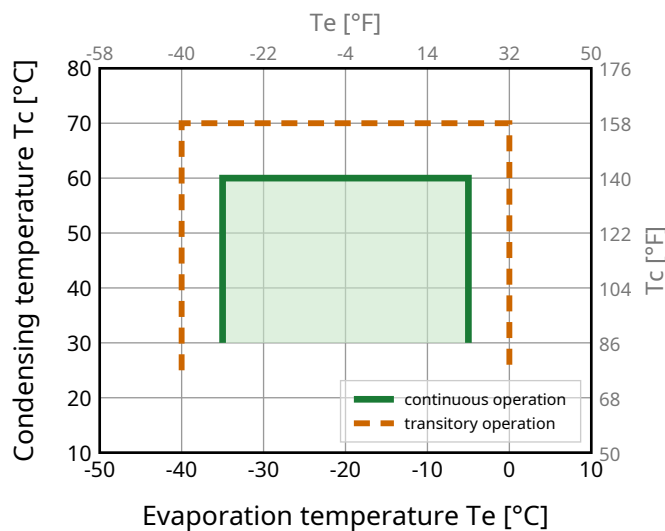
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Operation Pressure Range



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Standard Conditions

R134a, 115 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	389	1326	334	0.96	3.27	406	5.75	7.54	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	284	969	244	0.75	2.55	381	5.62	6.77	CECOMAF LBP
-35 -31	40 104	20 68	40 104	200	682	172	0.71	2.42	282	4.98	4.38	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	789	2692	679	1.25	4.26	632	7.38	17.18	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	617	2105	531	1.05	3.58	588	7.07	14.88	CECOMAF MBP
-10 14	45 113	20 68	45 113	687	2345	591	1.26	4.30	546	6.58	16.03	EN12900 MBP

Performance Tables

R134a, 115 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]
-35	-31	185	630	159	0.68	2.32	272	4.84	3.98
-30	-22	256	873	220	0.78	2.65	329	5.13	5.52
-25	-13	342	1165	294	0.89	3.04	383	5.45	7.38
-20	-4	444	1516	382	1.02	3.48	435	5.80	9.64
-15	5	567	1935	488	1.16	3.96	489	6.17	12.34
-10	14	712	2429	612	1.30	4.45	546	6.58	15.55
-5	23	882	3009	758	1.45	4.94	609	7.00	19.35

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

-35	-31	135	462	116	0.61	2.07	223	4.78	3.21
-30	-22	204	696	175	0.67	2.28	306	5.18	4.85
-25	-13	284	969	244	0.75	2.55	381	5.62	6.77
-20	-4	378	1289	325	0.84	2.86	451	6.07	9.04
-15	5	488	1665	420	0.94	3.21	519	6.56	11.71
-10	14	617	2105	531	1.05	3.58	588	7.07	14.88
-5	23	768	2619	660	1.16	3.97	659	7.61	18.60