

Model

SC21FTX

Sales code:

104G8105

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.70 kg / 30.20lbs
Displacement	20.95 cm3 / 1.28cu.in
Compressors on pallet	80



General – Configurations With SC21FTX

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	187-254 V
Approvals	CCC, VDE, EAC
Starting torque	HST
Refrigerant	R134a
Application	LBP
Hot gas defrost	OK
Long interval pull down	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	3.700 Ohm
Oil viscosity	22cSt	Winding resistance aux	13.70 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.	135°C / 275°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

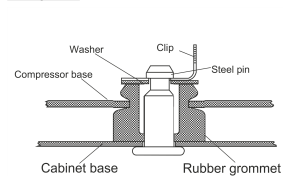
Mounting Accessories



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

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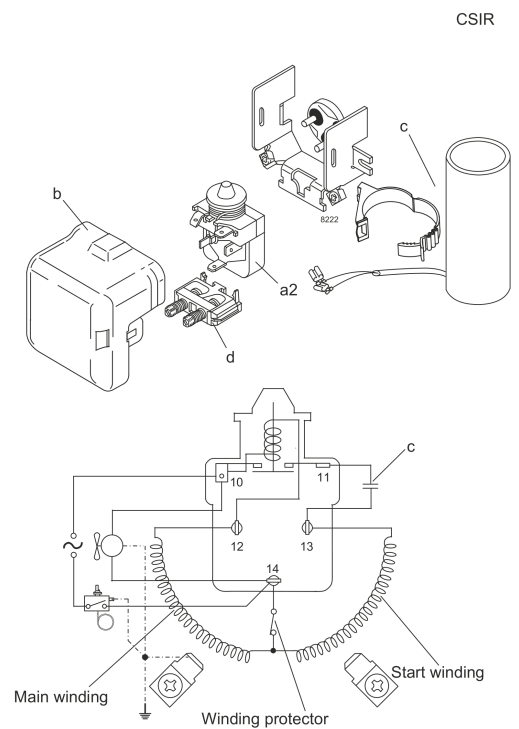
Configuration

Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R134a
Application	LBP
Voltage range	187-254 V
Starting torque	HST
Approvals	CCC, VDE, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
RLA (rated load amps / 1s/ U(N))	-/-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

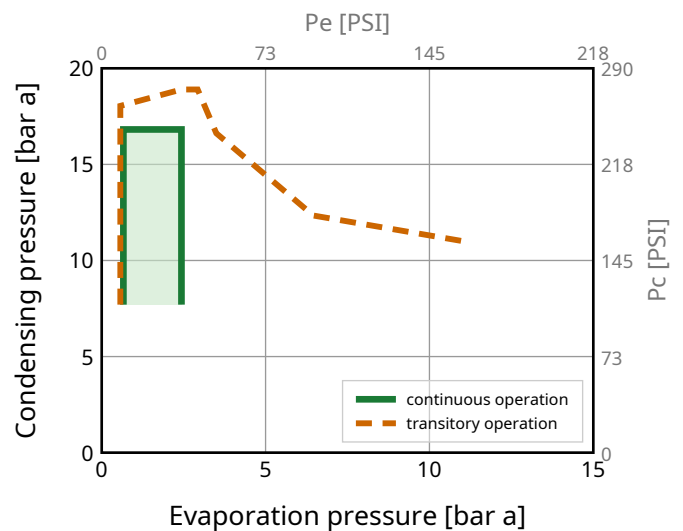
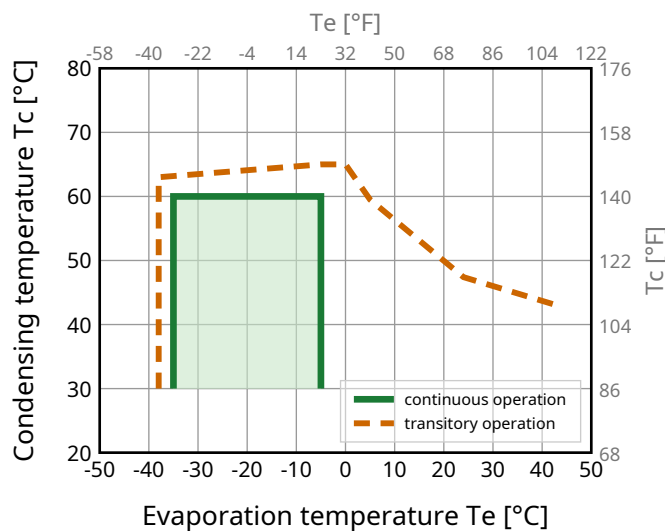


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Components

a2 relay 117U6019
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range



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Standard Conditions

R134a, 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	568	1939	489	1.26	4.32	449	3.20	11.03	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	415	1416	357	0.97	3.31	428	3.12	9.90	CECOMAF LBP
-35 -31	40 104	20 68	40 104	281	960	242	0.89	3.04	316	2.72	6.15	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	474	1616	407	1.06	3.62	446	3.20	12.43	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	636	2170	547	1.47	5.02	433	3.16	12.34	AHAM LBP
-25 -13	45 113	32 89.6	45 113	499	1704	429	1.18	4.03	423	3.11	10.80	opt LBP

Performance Tables

R134a, 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]
-35	-31	260	886	223	0.83	2.82	314	2.71	5.59
-30	-22	367	1252	316	0.99	3.38	370	2.90	7.92
-25	-13	499	1704	429	1.18	4.03	423	3.11	10.80
-20	-4	661	2254	568	1.39	4.73	477	3.34	14.32
-15	5	855	2917	735	1.61	5.49	531	3.58	18.60
-10	14	1086	3706	934	1.84	6.28	590	3.83	23.72
-5	23	1358	4635	1168	2.08	7.09	654	4.10	29.80

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

-35	-31	192	655	165	0.65	2.22	296	2.66	4.56
-30	-22	296	1010	255	0.81	2.77	364	2.88	7.04
-25	-13	415	1416	357	0.97	3.31	428	3.12	9.90
-20	-4	553	1886	475	1.13	3.85	490	3.37	13.22
-15	5	713	2434	614	1.30	4.42	551	3.64	17.13
-10	14	901	3074	775	1.47	5.01	613	3.92	21.72
-5	23	1119	3818	962	1.65	5.63	679	4.22	27.12