

Model
SCE21MFX

Sales code:
104G8150

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	700g / 24.69oz
Weight	13.10 kg / 28.88lbs
Displacement	20.95 cm3 / 1.28cu.in
Compressors on pallet	80



General - Configurations With SCE21MFX

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	220-230 V/50 Hz
Number of phases	1
Voltage range	198-244 V
Approvals	CCC, VDE
Starting torque	HST
Refrigerant	R134a
Application	MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Protector, relay and cover are included and pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

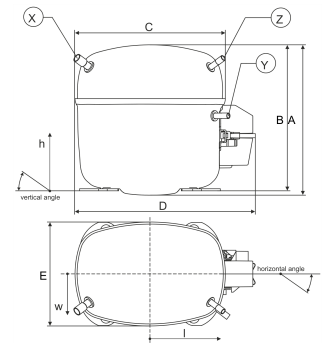
Oil type	POE	Winding resistance main	4.7 Ohm
Oil viscosity	22cSt	Winding resistance aux	15.9 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	external		

Compressor Dimensions

Housing

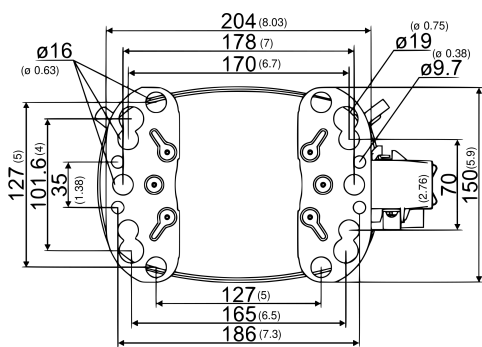
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

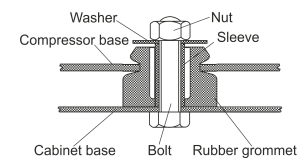


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

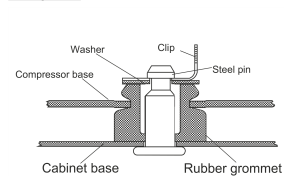
Mounting Accessories



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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Motor configuration	CSIR
Power supply (nominal)	220-230 V/50 Hz 1~
Refrigerant	R134a
Application	MBP
Voltage range	198-244 V
Starting torque	HST
Approvals	CCC, VDE
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	18 A
RLA (rated load amps / 1s/ U(N))	3.5 A
Cut in current (U(N))	18 A

Ambient/ machine room temperatures minimum /maximum

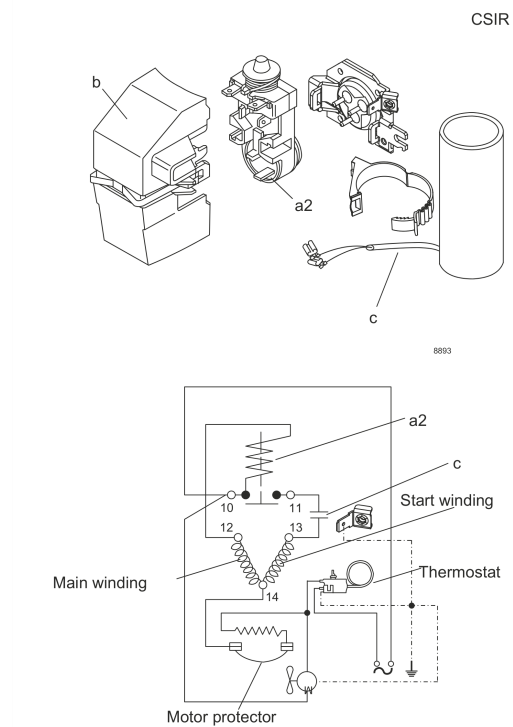
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components (relay + cover: pre-assembled)

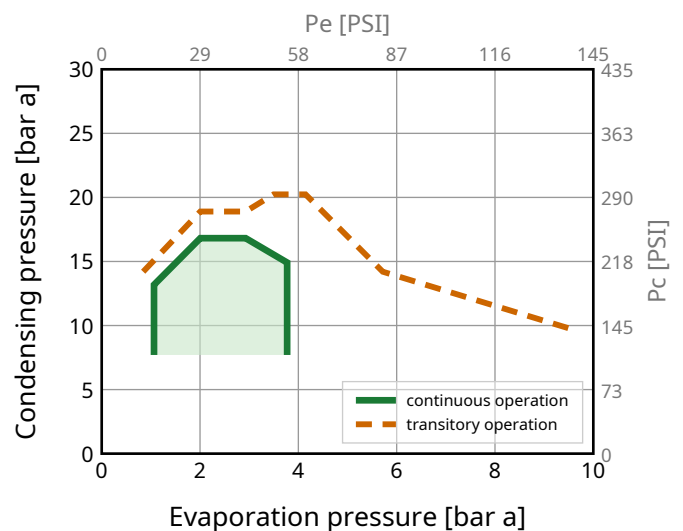
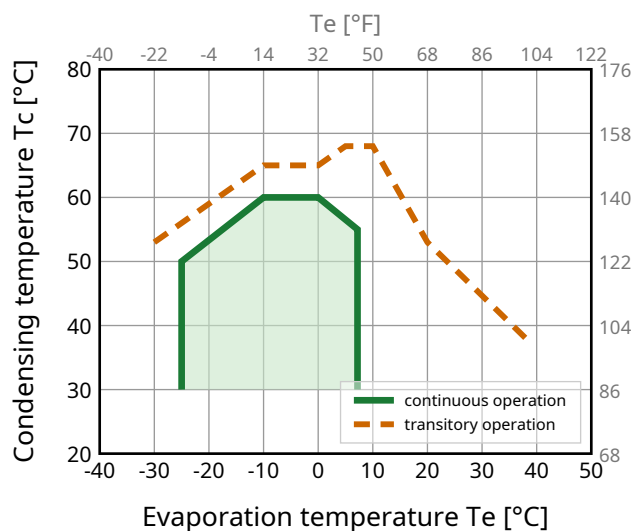
a2 assy. relay + ext. protector (T1134) 117U7411

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover + clamp 117U1033

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]	
-6.7 20	54.4 129.9	35 95	46.1 115	1129	3852	971	1.82	6.20	622	3.43	24.58	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	864	2950	743	1.51	5.16	572	3.23	20.84	CECOMAF MBP
-10 14	45 113	20 68	45 113	998	3404	858	1.79	6.10	558	3.22	23.26	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1087	3709	935	1.80	6.13	605	3.37	26.71	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1033	3525	889	1.85	6.32	558	3.22	22.57	opt MBP 1
-25 -13	45 113	32 89.6	45 113	447	1525	384	1.23	4.18	365	2.63	9.66	opt MBP 2

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]
-25	-13	447	1525	384	1.23	4.18	365	2.63	9.66
-20	-4	605	2065	521	1.39	4.74	436	2.82	13.12
-15	5	800	2731	688	1.60	5.46	500	3.01	17.41
-10	14	1033	3525	889	1.85	6.32	558	3.22	22.57
-5	23	1305	4454	1123	2.13	7.27	613	3.43	28.64
0	32	1618	5520	1391	2.43	8.29	665	3.65	35.69
5	41	1972	6727	1696	2.75	9.37	718	3.88	43.79
7.2	45	2141	7305	1841	2.88	9.84	742	3.99	47.70

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

-25	-13	341	1162	293	0.98	3.35	347	2.52	8.12
-20	-4	484	1650	416	1.15	3.91	422	2.71	11.57
-15	5	658	2244	566	1.32	4.52	497	2.95	15.79
-10	14	864	2950	743	1.51	5.16	572	3.23	20.84
-5	23	1105	3770	950	1.70	5.79	651	3.55	26.78
0	32	1380	4709	1187	1.88	6.40	735	3.92	33.66
5	41	1692	5772	1455	2.05	6.98	826	4.32	41.55
7.2	45	1841	6280	1583	2.12	7.22	869	4.51	45.38