

Model
NF9FX

Sales code:
105G6841

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.50 kg / 23.15lbs
Displacement	8.34 cm3 / 0.51cu.in
Compressors on pallet	80



General – Configurations With NF9FX

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	220-230 V/50 Hz
Number of phases	1
Voltage range	198-242 V
Approvals	UL, EAC
Starting torque	HST
Refrigerant	R134a
Application	LBP+MBP
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

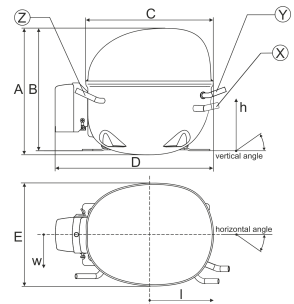
Oil type	POE	Winding resistance main	6 Ohm
Oil viscosity	32cSt	Winding resistance aux	12.6 Ohm
Oil quantity	268 / 9.06fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

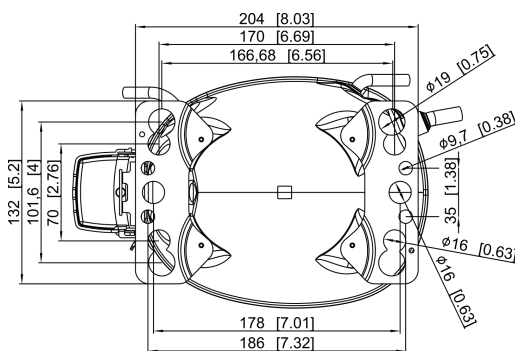
A Height	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

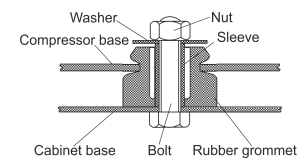


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in	-107/93.5/72 / -4.21/3.68/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

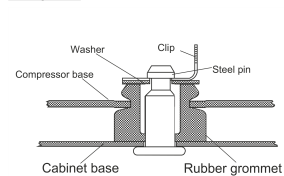
Mounting Accessories



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	LBP+MBP
Voltage range	198-242 V
Starting torque	HST
Approvals	UL, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	125 µF
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

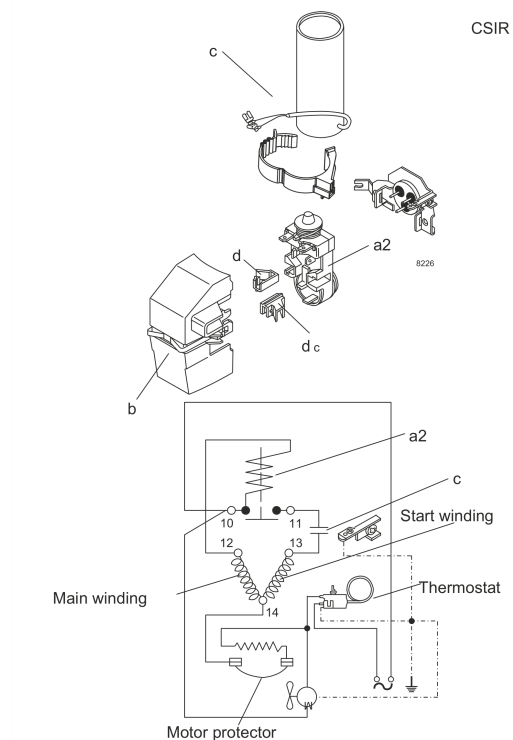
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a2 relay (protector: TI MRP59EN-6) 117U4140

c start capacitor 117U5018

b assy. terminal board 6.3mm 117U1024

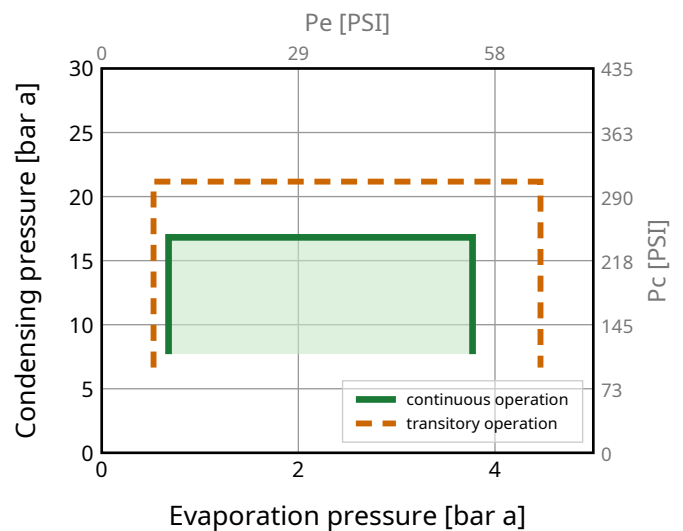
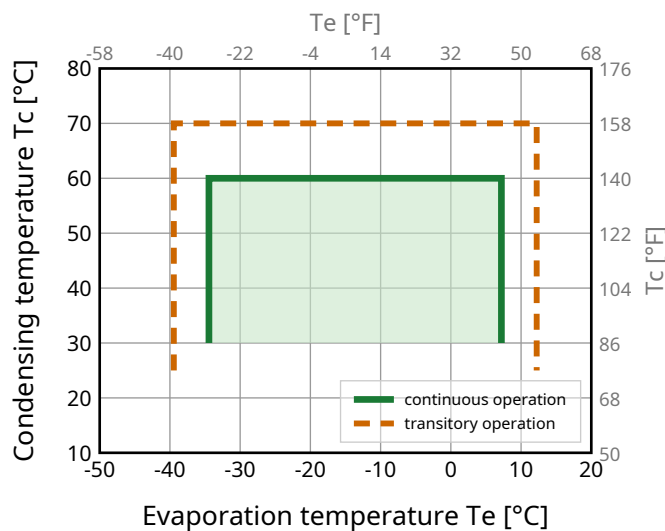
d/dc cord relief 117U0349

d cord relief 117U0317

Alternative components

b plastic cover + clamp 117U1021

Operation Pressure Range



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Standard Conditions

R134a, 220 V/50 Hz, CSIR, fan 1,5m/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	228	779	196	1.09	3.73	209	1.83	4.43	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	168	574	145	0.84	2.87	200	1.81	4.01	CECOMAF LBP
-35 -31	40 104	20 68	40 104	120	411	104	0.82	2.79	147	1.72	2.63	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	475	1621	408	1.59	5.43	298	2.04	10.34	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	368	1257	317	1.31	4.48	281	2.00	8.89	CECOMAF MBP
-10 14	45 113	20 68	45 113	416	1419	358	1.56	5.33	266	1.94	9.70	EN12900 MBP

Performance Tables

R134a, 220 V/50 Hz, CSIR, fan 1,5m/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	113	386	97	0.76	2.59	149	1.73	2.43
-30	-22	152	518	131	0.88	2.99	173	1.77	3.28
-20	-4	264	900	227	1.20	4.08	221	1.85	5.72
-10	14	431	1470	371	1.62	5.52	266	1.94	9.41
0	32	666	2273	573	2.15	7.33	310	2.04	14.70
7.2	45	885	3019	761	2.60	8.86	340	2.12	19.71

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

-35	-31	92	312	79	0.62	2.11	148	1.72	2.17
-30	-22	125	427	108	0.72	2.46	174	1.76	2.98
-20	-4	222	758	191	0.98	3.35	226	1.87	5.31
-10	14	368	1257	317	1.31	4.48	281	2.00	8.89
0	32	577	1969	496	1.72	5.85	336	2.16	14.07
7.2	45	773	2637	665	2.05	6.99	377	2.29	19.05