

Model
NF9FX

Sales code:
105G5920

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	500g / 17.64oz
Weight	10.00 kg / 22.05lbs
Displacement	8.35 cm3 / 0.51cu.in
Compressors on pallet	80



General - Configurations With NF9FX

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	115-127 V/60 Hz
Number of phases	1
Voltage range	95-135 V
Approvals	UL
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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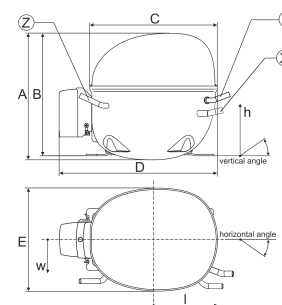
Compressor Design

Oil type	POE	Winding resistance main	1.7 Ohm
Oil viscosity	32cSt	Winding resistance aux	6.2 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	internal		

Compressor Dimensions

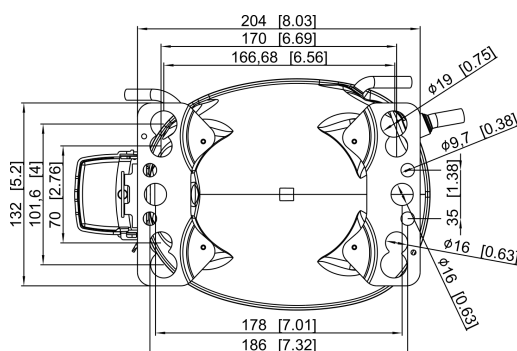
Housing

A Height	197mm / 7.76in
B Height	191mm / 7.52in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

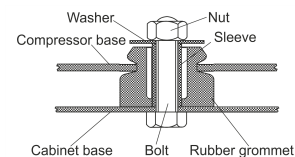
[Find 3D Model here](#)


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

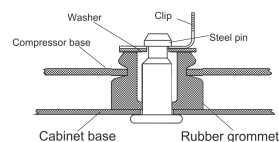
Mounting Accessories



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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Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R134a
Application	LBP+MBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	280 µF
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

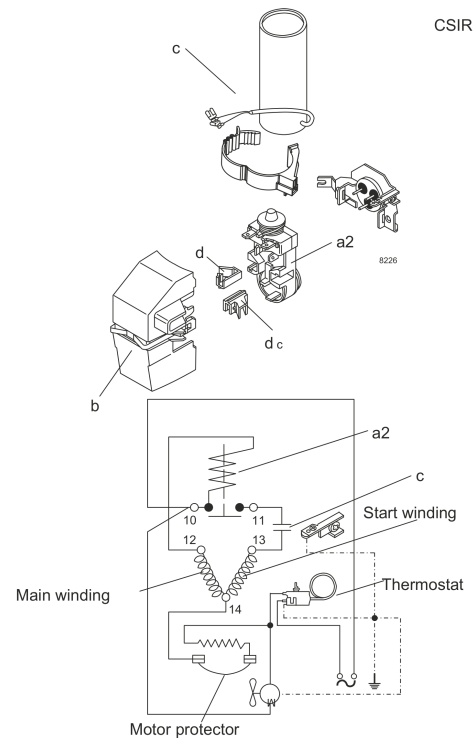
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram



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Components

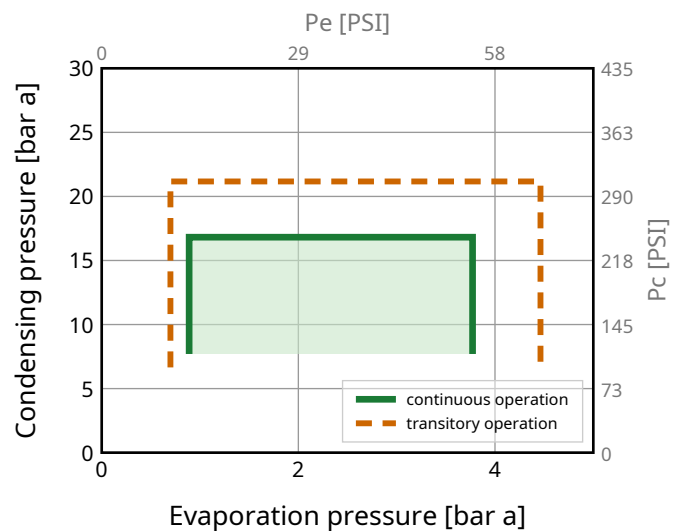
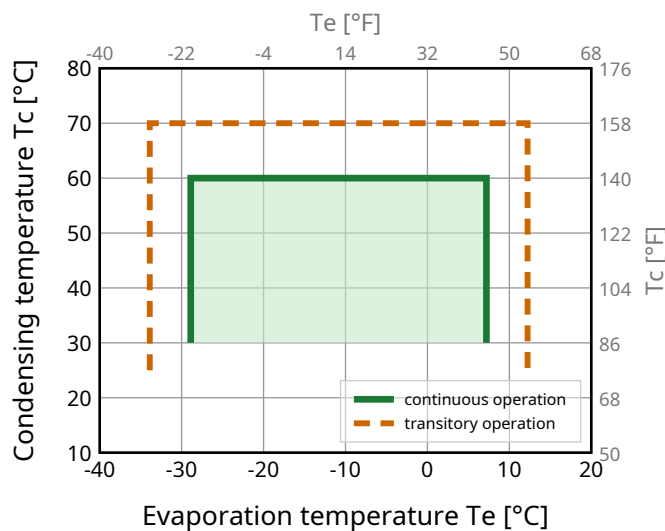
a2 current relay (MRT22AFZ-6) 117U4129

c start capacitor (280µF) 117U5025

b plastic cover + clamp 117U1021

d/dc cord relief 117U0349

Operation Pressure Range



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Standard Conditions

R134a, 115 V/60 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	274	936	236	1.12	3.82	245	3.50	5.32	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	202	689	174	0.86	2.93	235	3.44	4.81	CECOMAF LBP
-35 -31	40 104	20 68	40 104	139	473	119	0.77	2.62	181	3.21	3.03	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	562	1917	483	1.62	5.53	347	4.17	12.23	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	437	1492	376	1.34	4.58	326	4.02	10.55	CECOMAF MBP
-10 14	45 113	20 68	45 113	488	1665	420	1.57	5.37	310	3.92	11.38	EN12900 MBP

Performance Tables

R134a, 115 V/60 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]
-30	-22	178	608	153	0.87	2.95	206	3.32	3.85
-20	-4	312	1064	268	1.22	4.16	256	3.58	6.76
-10	14	506	1725	435	1.63	5.56	310	3.92	11.04
0	32	774	2640	665	2.07	7.05	374	4.35	17.07
7.2	45	1020	3481	877	2.38	8.11	429	4.72	22.73

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

-30	-22	149	509	128	0.72	2.47	206	3.29	3.55
-20	-4	266	908	229	1.01	3.43	264	3.61	6.37
-10	14	437	1492	376	1.34	4.58	326	4.02	10.55
0	32	677	2309	582	1.71	5.84	395	4.51	16.50
7.2	45	899	3067	773	1.99	6.77	453	4.92	22.16