

Model
NF8.4FX.2

Sales code:
105G5918

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.00 kg / 22.05lbs
Displacement	8.35 cm3 / 0.51cu.in
Compressors on pallet	80



General – Configurations With NF8.4FX.2

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

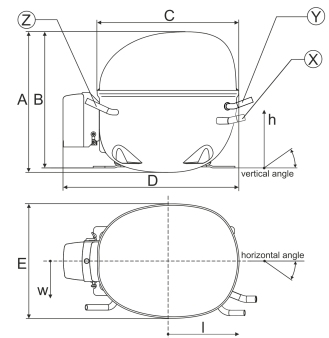
Oil type	POE	Motor protection	external
Oil viscosity	32cSt	Max. winding temp.	125 °C
Oil quantity	268 / 9.06fl.oz	Max. discharge temp.	130°C / 266°F
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz		

Compressor Dimensions

Housing

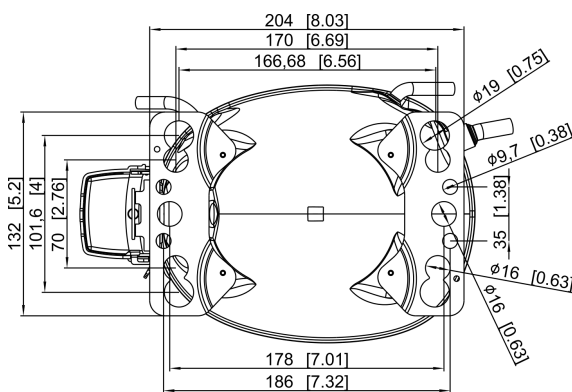
A Height	197mm / 7.76in
B Height	191mm / 7.52in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

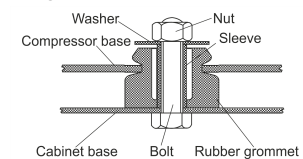


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

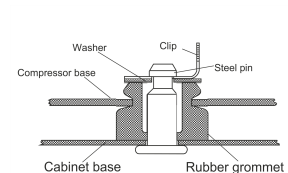
Mounting Accessories



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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Configuration 1

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Motor configuration	CSIR
Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R134a
Application	LBP+MBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	280 µF

Ambient/ machine room temperatures minimum /maximum

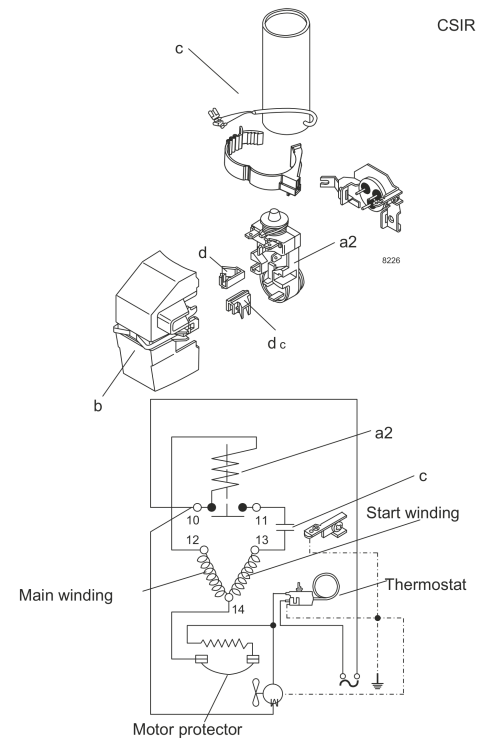
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

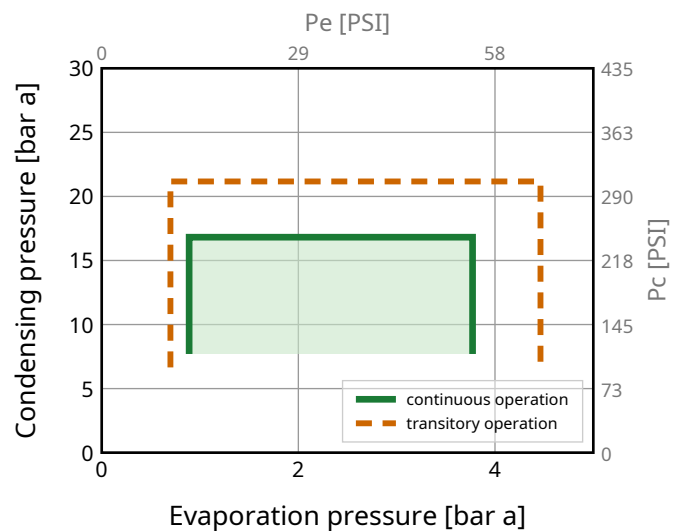
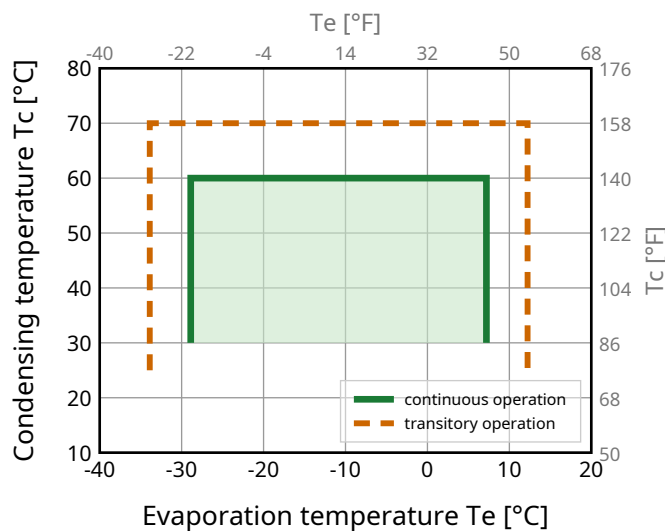
a2 current relay (MRT22AFZ-6) 117U4129

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	302	1031	260	1.22	4.16	248	3.68	5.86	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	221	753	190	0.94	3.19	236	3.63	5.26	CECOMAF LBP
-35 -31	40 104	20 68	40 104	150	513	129	0.83	2.84	180	3.42	3.29	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	620	2117	534	1.72	5.87	361	4.31	13.51	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	484	1650	416	1.43	4.87	339	4.17	11.66	CECOMAF MBP
-10 14	45 113	20 68	45 113	544	1857	468	1.69	5.77	322	4.06	12.70	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	198	676	170	0.95	3.26	208	3.49	4.28
-20	-4	353	1203	303	1.32	4.52	266	3.74	7.65
-10	14	564	1924	485	1.75	5.97	322	4.06	12.31
0	32	844	2878	725	2.21	7.52	382	4.47	18.61
7.2	45	1094	3733	941	2.52	8.62	433	4.81	24.38

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

-30	-22	160	545	137	0.80	2.74	199	3.49	3.80
-20	-4	294	1002	253	1.08	3.70	271	3.79	7.03
-10	14	484	1650	416	1.43	4.87	339	4.17	11.66
0	32	741	2528	637	1.80	6.16	411	4.64	18.07
7.2	45	975	3325	838	2.08	7.09	469	5.03	24.03