

Model
NF8.4FX.2

Sales code:
105G5998

Compressor Data

Refrigerant(s)	R1234yf / R513A
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
Starting torque	HST
Refrigerant	R1234yf
Application	LBP+MBP
Long interval pull down	OK

Application Notes

- Electrical equipment is 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

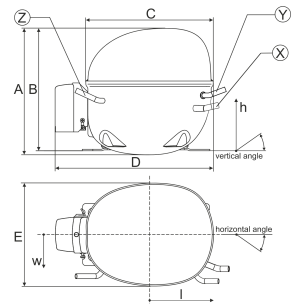
Oil type	POE	Winding resistance main	1.7 Ohm
Oil viscosity	32cSt	Winding resistance aux	6.2 Ohm
Oil quantity	268 / 9.06fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

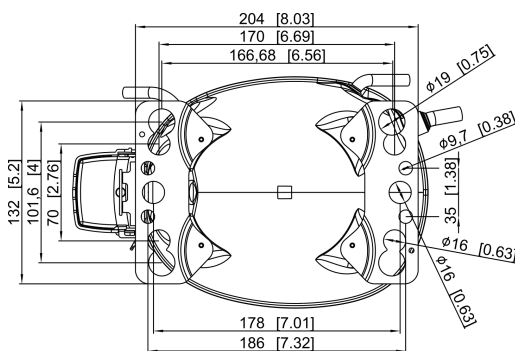
A Height	197mm / 7.76in
B Height	191mm / 7.52in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

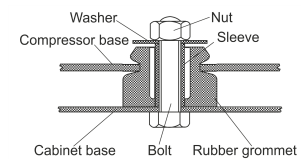


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

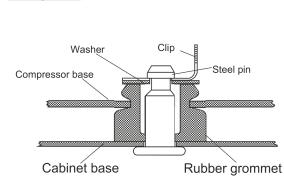
Mounting Accessories



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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Configuration

Motor configuration	CSIR
Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R1234yf
Application	LBP+MBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	280 µF

Ambient/ machine room temperatures minimum /maximum

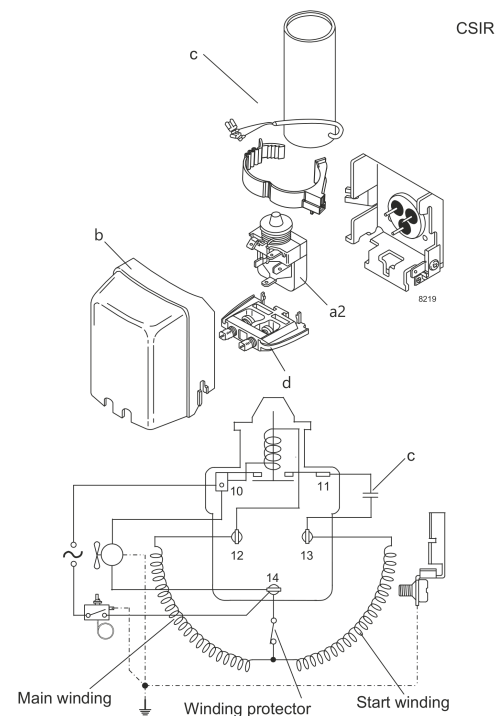
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components (already pre-assembled)

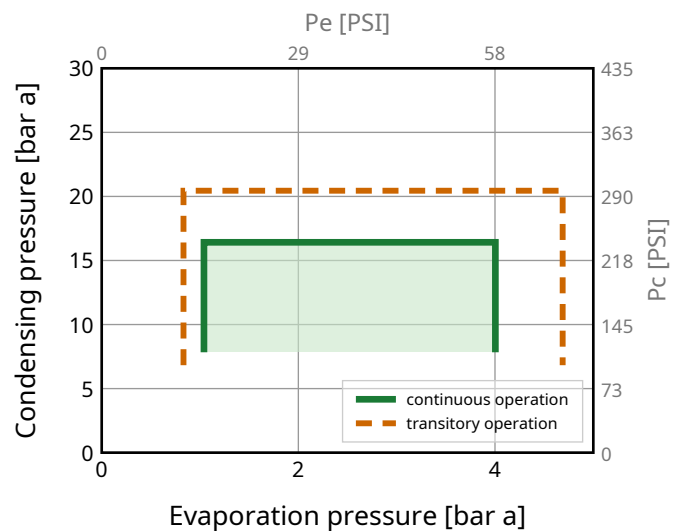
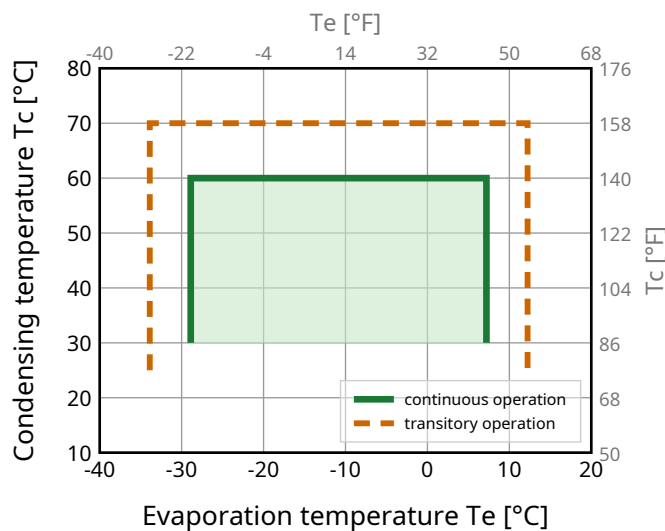
a2 current relay 117U4156

c start capacitor (280µF) 117U5025

b plastic cover + clamp 117U1021

d/dc cord relief 117U0349

Operation Pressure Range



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Standard Conditions

R1234yf, 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	333	1137	286	1.25	4.28	266	3.44	7.84	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	235	802	202	0.92	3.15	254	3.37	7.11	CECOMAF LBP
-35 -31	40 104	20 68	40 104	169	575	145	0.84	2.87	200	3.08	4.62	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	626	2138	539	1.71	5.84	366	4.10	16.92	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	481	1641	414	1.39	4.73	347	3.96	14.76	CECOMAF MBP
-10 14	45 113	20 68	45 113	539	1840	464	1.64	5.59	329	3.84	15.99	EN12900 MBP

Performance Tables

R1234yf, 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	219	747	188	0.96	3.29	227	3.22	5.86
-20	-4	370	1264	319	1.32	4.50	281	3.52	9.97
-10	14	571	1949	491	1.74	5.92	329	3.84	15.51
0	32	831	2834	714	2.18	7.44	381	4.23	22.83
7.2	45	1059	3613	911	2.49	8.50	425	4.56	29.44

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

-30	-22	176	601	151	0.80	2.74	219	3.19	5.31
-20	-4	305	1039	262	1.06	3.63	287	3.56	9.26
-10	14	481	1641	414	1.39	4.73	347	3.96	14.76
0	32	715	2438	615	1.75	5.97	408	4.43	22.23
7.2	45	924	3151	794	2.02	6.88	458	4.82	29.11