

Model
NF7.3FX.2

Sales code:
105G5792

Compressor Data

Refrigerant(s)	R1234yf / R513A
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.00 kg / 22.05lbs
Displacement	7.27 cm3 / 0.44cu.in
Compressors on pallet	80



General – Configurations With NF7.3FX.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

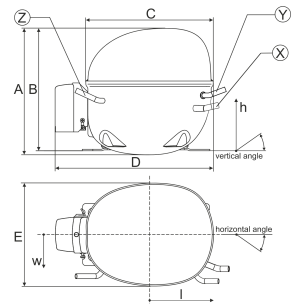
Oil type	POE	Winding resistance main	1.7 Ohm
Oil viscosity	32cSt	Winding resistance aux	6.2 Ohm
Oil quantity	268 / 9.06fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

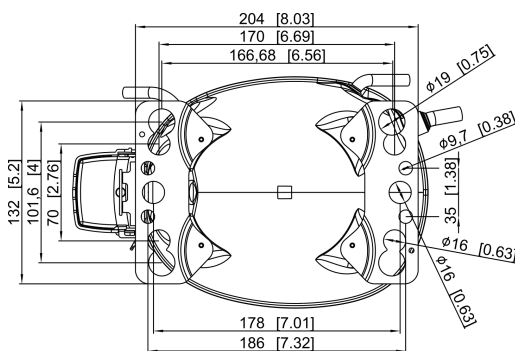
A Height	197mm / 7.76in
B Height	191mm / 7.52in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

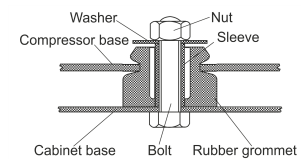


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

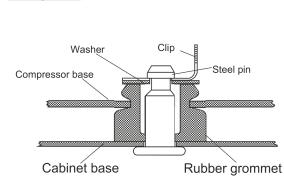
Mounting Accessories



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

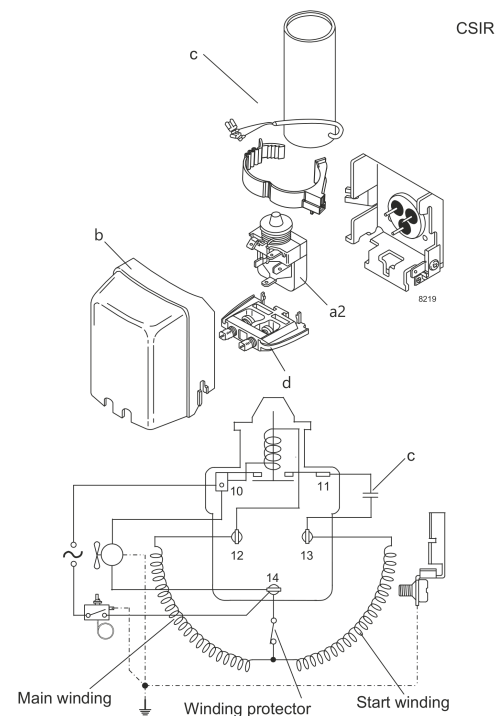
Ambient temperature range: 10 - 43°C / 50 - 109°F

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)

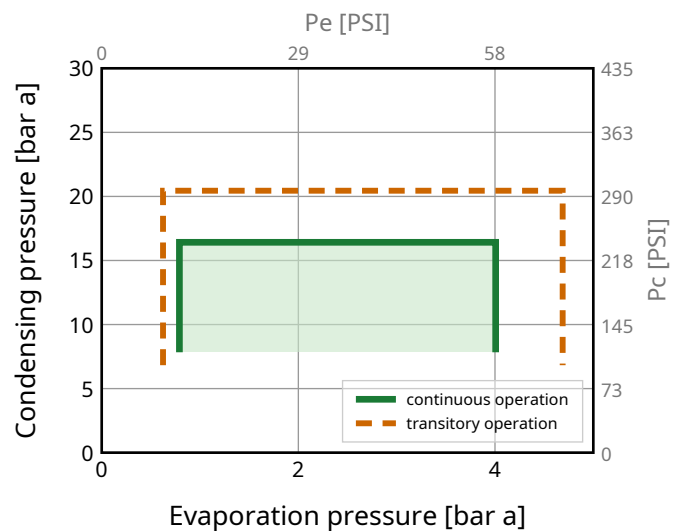
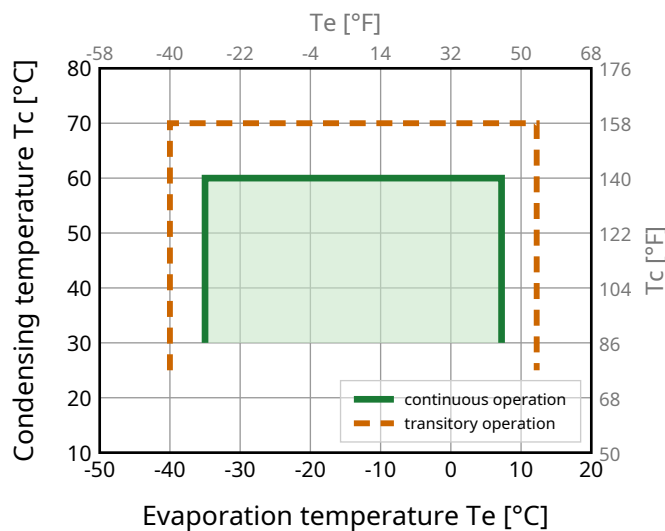
a2 current relay 117U4154

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	289	985	248	1.19	4.07	242	3.30	6.80	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	203	692	174	0.87	2.98	232	3.25	6.14	CECOMAF LBP
-35 -31	40 104	20 68	40 104	143	489	123	0.77	2.61	187	3.02	3.92	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	552	1885	475	1.70	5.78	326	3.82	14.92	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	423	1444	364	1.36	4.65	310	3.71	12.99	CECOMAF MBP
-10 14	45 113	20 68	45 113	476	1623	409	1.61	5.50	295	3.61	14.10	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]
-35	-31	134	458	115	0.73	2.50	183	3.01	3.58
-30	-22	188	642	162	0.90	3.07	209	3.12	5.04
-20	-4	324	1105	279	1.27	4.35	254	3.36	8.72
-10	14	504	1719	433	1.71	5.82	295	3.61	13.68
0	32	736	2510	633	2.17	7.40	339	3.92	20.22
7.2	45	940	3207	808	2.50	8.52	376	4.19	26.13

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

-35	-31	105	360	91	0.62	2.12	170	2.95	3.17
-30	-22	150	511	129	0.74	2.52	203	3.10	4.52
-20	-4	265	905	228	1.02	3.49	259	3.39	8.06
-10	14	423	1444	364	1.36	4.65	310	3.71	12.99
0	32	632	2157	544	1.75	5.95	362	4.08	19.67
7.2	45	819	2794	704	2.02	6.91	404	4.40	25.81