

Model
NF10FX

Sales code:
105G5991

Compressor Data

Refrigerant(s)	R1234yf
Refr. charge - tech. limit	460g / 16.23oz
Weight	10.00 kg / 22.05lbs
Displacement	10.09 cm3 / 0.62cu.in
Compressors on pallet	80



General – Configurations With NF10FX

-	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
Hot gas defrost	OK
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

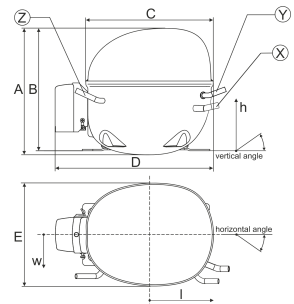
Oil type	POE	Winding resistance main	1.62 Ohm
Oil viscosity	32cSt	Winding resistance aux	4.9 Ohm
Oil quantity	298 / 10.08fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

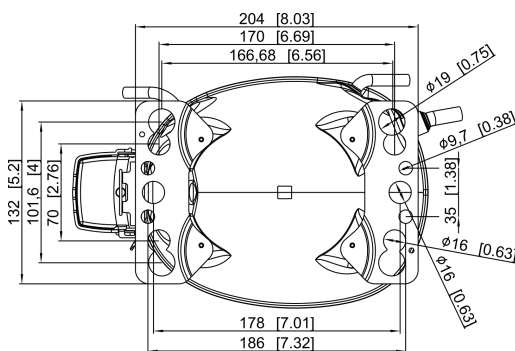
A Height	197mm / 7.76in
B Height	191mm / 7.52in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

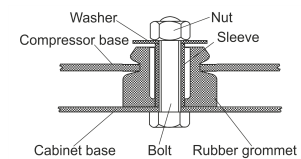


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

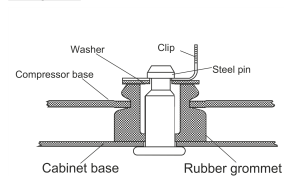
Mounting Accessories



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	320 µF
LRA (locked rotor amps / 4s/ U(N))	30.8 A
RLA (rated load amps / 1s/ U(N))	4.9 A
Cut in current (U(N))	30.8 A

Ambient/ machine room temperatures minimum /maximum

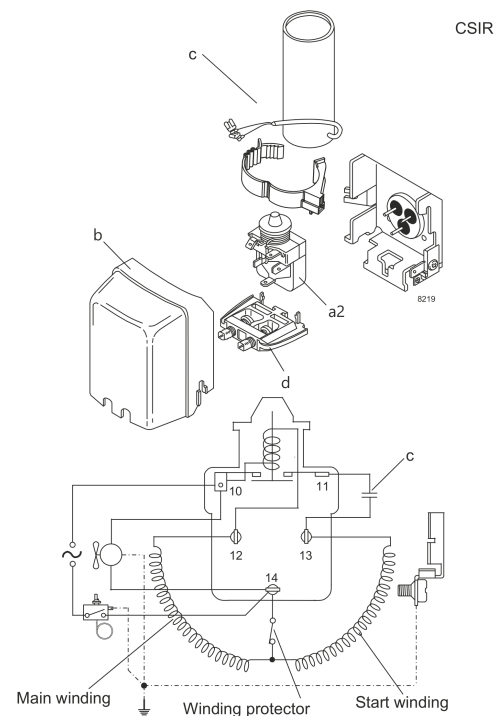
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components (already pre-assembled)

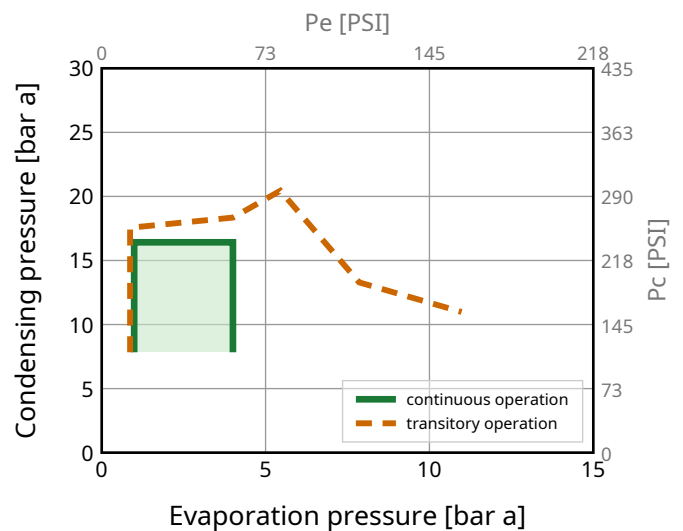
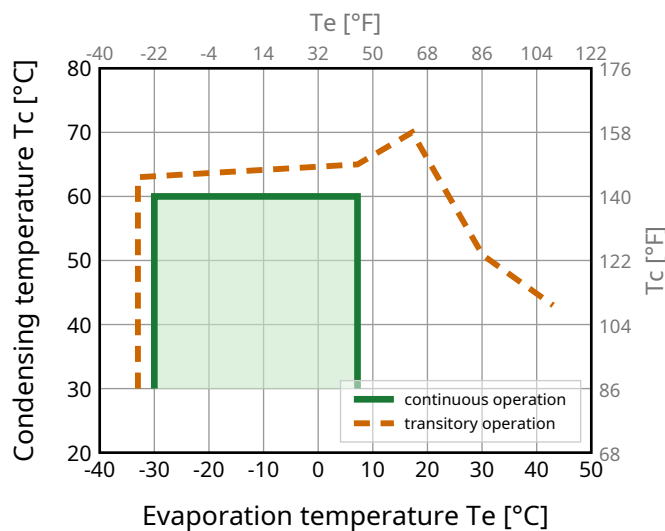
a2 current relay 117U4156

c start capacitor (320µF) 117U5022

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	338	1154	291	1.20	4.10	281	3.52	7.96	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	241	822	207	0.89	3.03	272	3.46	7.29	CECOMAF LBP
-35 -31	40 104	20 68	40 104	162	554	140	0.82	2.78	199	3.07	4.45	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	632	2156	543	1.60	5.46	395	4.33	17.07	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	486	1659	418	1.31	4.46	372	4.16	14.92	CECOMAF MBP
-10 14	45 113	20 68	45 113	537	1832	462	1.51	5.17	355	4.03	15.91	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	209	714	180	0.90	3.07	232	3.24	5.60
-20	-4	359	1224	308	1.23	4.20	292	3.60	9.65
-10	14	568	1940	489	1.60	5.47	355	4.03	15.44
0	32	855	2919	736	2.05	6.99	417	4.49	23.51
7.2	45	1119	3818	962	2.44	8.31	459	4.83	31.11

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

-30	-22	182	619	156	0.74	2.54	244	3.29	5.48
-20	-4	310	1058	267	1.03	3.50	302	3.67	9.43
-10	14	486	1659	418	1.31	4.46	372	4.16	14.92
0	32	726	2476	624	1.62	5.54	447	4.73	22.58
7.2	45	947	3232	815	1.89	6.44	502	5.17	29.86