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

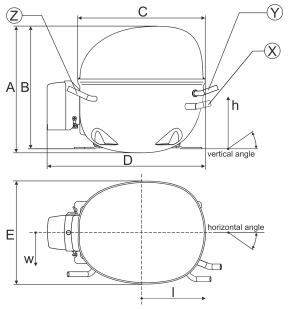
Oil type	**POE**	Winding resistance main	**1.62 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**4.9 Ohm**
Oil quantity	**298 cm3 / 10.08fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

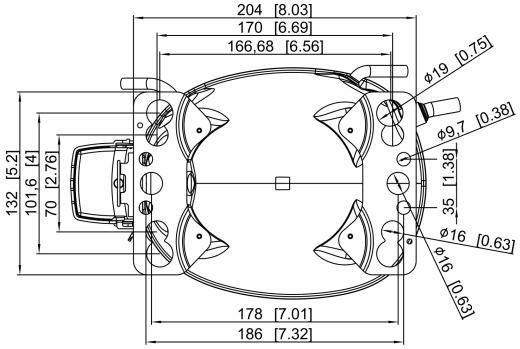
A Height	**197mm / 7.76in**
B Height	**191mm / 7.52in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



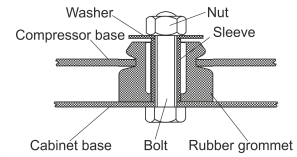
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

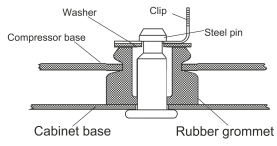


Dimensions in mm [in]

Bolt joint



Snap-on



	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

Model
NF10FX Configuration 1

Sales code:
105G5991

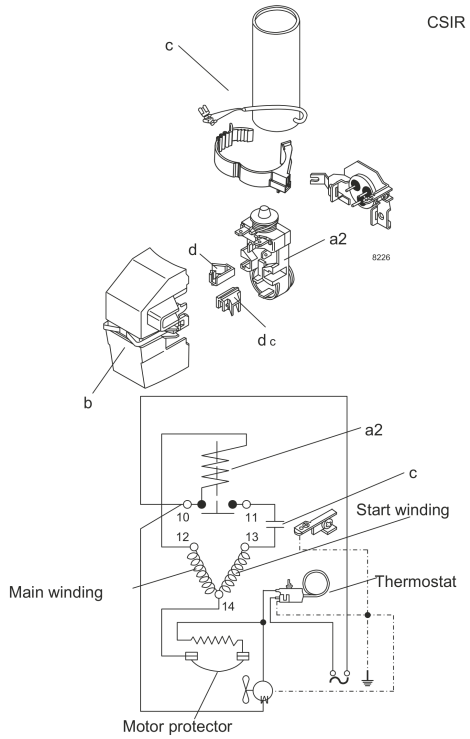
Configuration

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

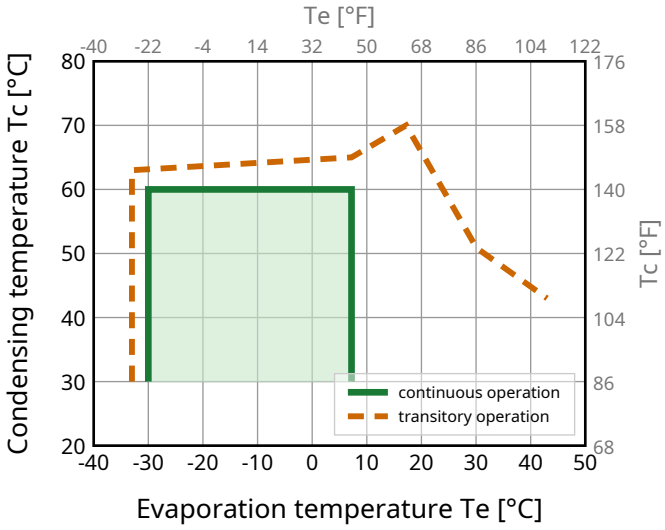
Electrical Accessories / Wiring Diagram

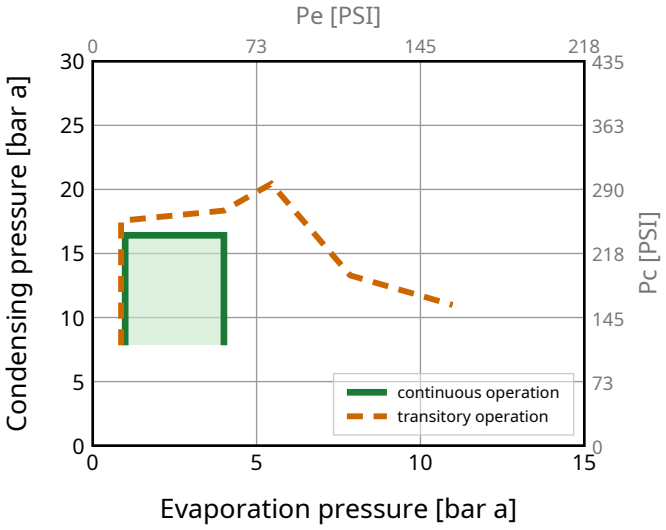


View full size

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





Model
NF10FX Configuration 1

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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	ṁ	
[°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	ṁ
[°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