

Model

NF7FX

Sales code:

105G5723

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	500g / 17.64oz
Weight	10.00 kg / 22.05lbs
Displacement	7.27 cm3 / 0.44cu.in
Compressors on pallet	80



General – Configurations With NF7FX

-	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	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

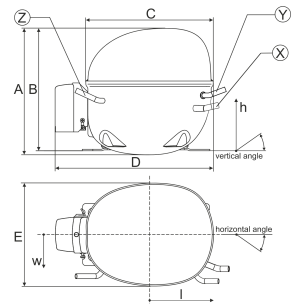
Oil type	POE	Winding resistance main	1.7 Ohm
Oil viscosity	32cSt	Winding resistance aux	6.2 Ohm
Oil quantity	268 / 9.06fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm ³ / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

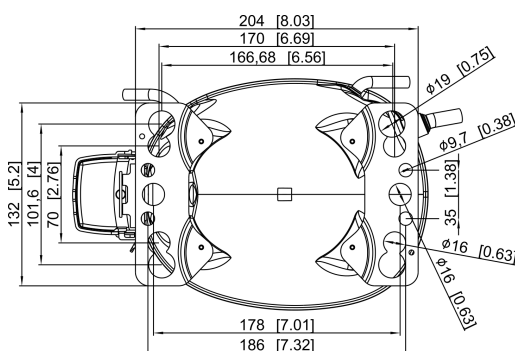
A Height	197mm / 7.76in
B Height	191mm / 7.52in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[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

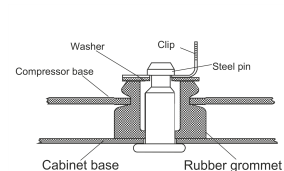
Mounting Accessories



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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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
Starting device type	relay
Run capacitor	-/-
Start capacitor	280 µF
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

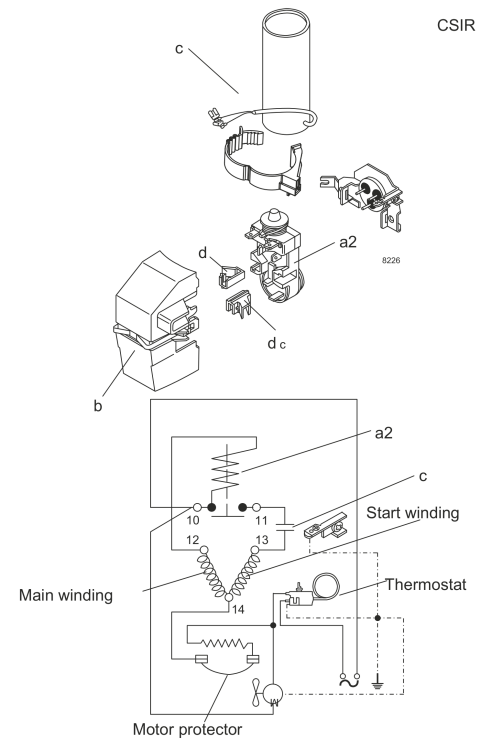
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a2 relay (protector: TI MRP30AEN-6) 117U4061

c start capacitor (280µF) 117U5025

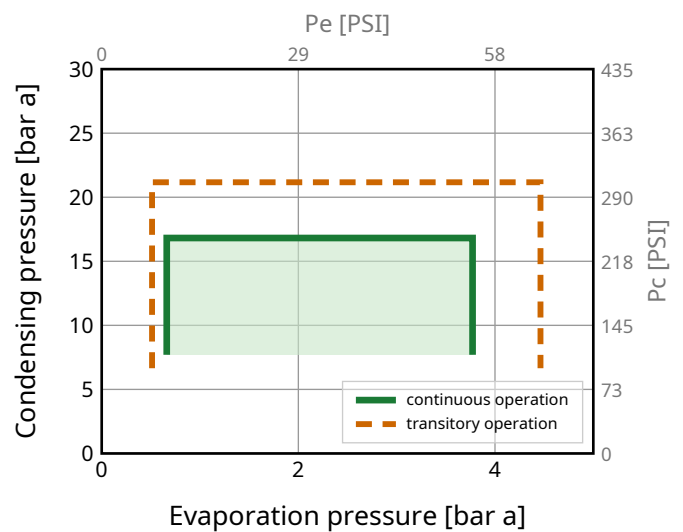
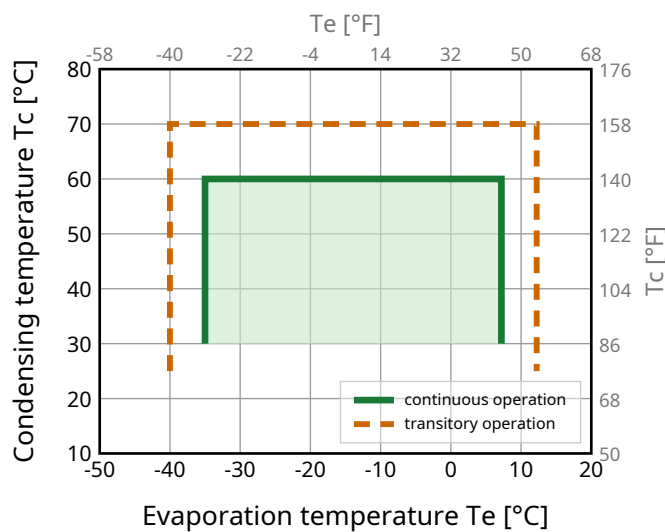
b plastic cover + clamp 117U1021

d/dc cord relief 117U0349

Alternative components

b assy. terminal board 6.3mm 117U1024

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	252	859	216	1.17	4.00	215	3.32	4.88	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	186	633	160	0.90	3.08	206	3.27	4.43	CECOMAF LBP
-35 -31	40 104	20 68	40 104	123	421	106	0.90	3.06	137	2.97	2.70	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	502	1711	431	1.62	5.52	310	3.90	10.92	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	392	1339	337	1.34	4.58	293	3.79	9.46	CECOMAF MBP
-10 14	45 113	20 68	45 113	437	1490	376	1.59	5.41	275	3.65	10.19	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]
-35	-31	115	393	99	0.85	2.89	136	2.95	2.48
-30	-22	161	551	139	0.97	3.30	167	3.08	3.48
-20	-4	281	959	242	1.26	4.29	224	3.35	6.10
-10	14	452	1544	389	1.64	5.61	275	3.65	9.88
0	32	692	2362	595	2.13	7.28	324	3.98	15.28
7.2	45	918	3131	789	2.55	8.70	360	4.23	20.44

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

-35	-31	93	319	80	0.66	2.25	142	2.95	2.22
-30	-22	136	465	117	0.78	2.66	175	3.11	3.24
-20	-4	243	830	209	1.03	3.52	236	3.44	5.82
-10	14	392	1339	337	1.34	4.58	293	3.79	9.46
0	32	601	2051	517	1.72	5.88	349	4.17	14.65
7.2	45	798	2723	686	2.05	6.99	390	4.46	19.67