

Model

NF11FX

Sales code:

105G5945

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.50 kg / 23.15lbs
Displacement	11.15 cm3 / 0.68cu.in
Compressors on pallet	80



General – Configurations With NF11FX

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz
Number of phases	1
Voltage range	95-135 V
Approvals	UL, EAC
Starting torque	HST
Refrigerant	R134a
Application	LBP+MBP
Hot gas defrost	OK
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	1.000 Ohm
Oil viscosity	32cSt	Winding resistance aux	3.60 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	203mm / 7.99in
B Height	197mm / 7.76in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

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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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Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R134a
Application	LBP+MBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	410 µF
LRA (locked rotor amps / 4s/ U(N))	43.1 A
RLA (rated load amps / 1s/ U(N))	7.6 A
Cut in current (U(N))	43.1 A

Ambient/ machine room temperatures minimum /maximum

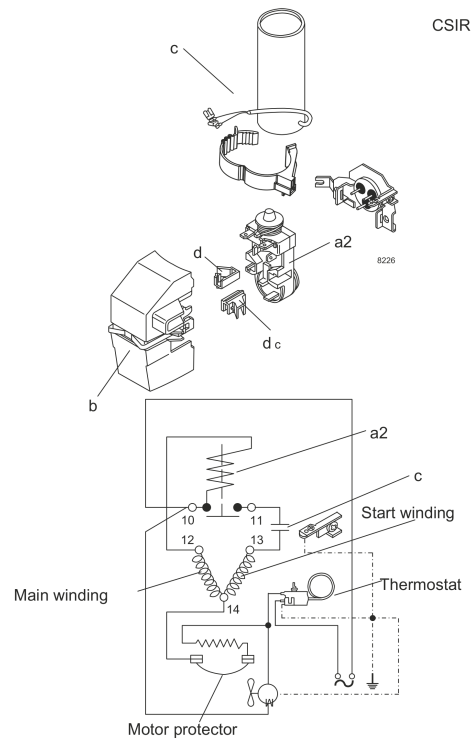
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

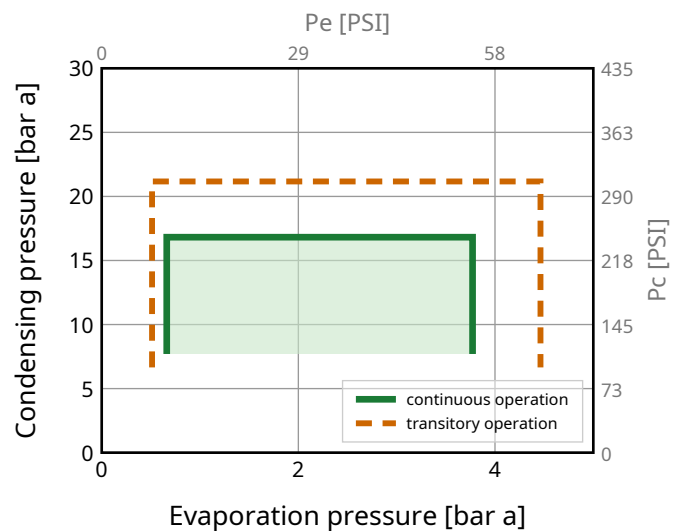
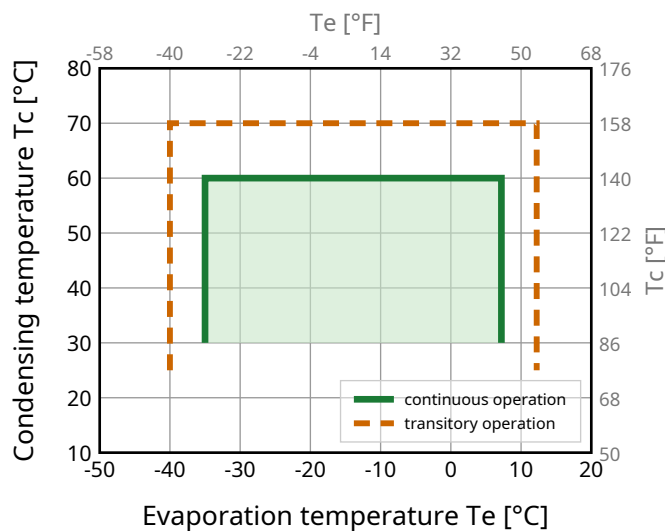
a2 current relay 117U4123

c start capacitor (410µF) 117U5028

b plastic cover + clamp 117U1021

d/dc cord relief 117U0349

Operation Pressure Range



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Standard Conditions

R134a, 115 V/60 Hz, CSIR, fan 3m/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]	
-6.7 20	54.4 129.9	35 95	46.1 115	669	2282	575	1.52	5.17	441	5.81	14.56	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	521	1778	448	1.27	4.32	411	5.60	12.56	CECOMAF MBP
-10 14	45 113	20 68	45 113	580	1978	498	1.48	5.04	392	5.43	13.52	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	633	2159	544	1.48	5.04	428	5.70	15.55	ARI540 MBP
-10 14	45 113	32 89.6	45 113	600	2048	516	1.53	5.22	392	5.43	13.11	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	335	1142	288	1.16	3.96	288	4.78	6.49	opt LBP

Performance Tables

R134a, 115 V/60 Hz, CSIR, fan 3m/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	135	462	116	0.66	2.23	206	4.31	2.91
-30	-22	197	671	169	0.82	2.80	240	4.50	4.25
-20	-4	362	1234	311	1.15	3.94	313	4.92	7.84
-10	14	600	2048	516	1.53	5.22	392	5.43	13.11
0	32	934	3187	803	1.98	6.74	473	6.02	20.61
7.2	45	1246	4250	1071	2.35	8.03	529	6.50	27.75

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

-35	-31	114	389	98	0.53	1.81	215	4.23	2.70
-30	-22	171	582	147	0.69	2.36	247	4.47	4.06
-20	-4	316	1078	272	0.98	3.34	323	4.99	7.55
-10	14	521	1778	448	1.27	4.32	411	5.60	12.56
0	32	808	2756	695	1.59	5.43	508	6.29	19.70
7.2	45	1077	3673	926	1.85	6.33	581	6.83	26.54