

Model

NF11FX

Sales code:

105G6944

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)	220-230 V/50 Hz
Number of phases	1
Voltage range	198-242 V
Approvals	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	4.500 Ohm
Oil viscosity	32cSt	Winding resistance aux	12.80 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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Motor configuration	CSIR
Power supply (nominal)	220-230 V/50 Hz 1~
Refrigerant	R134a
Application	LBP+MBP
Voltage range	198-242 V
Starting torque	HST
Approvals	EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	125 µF
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

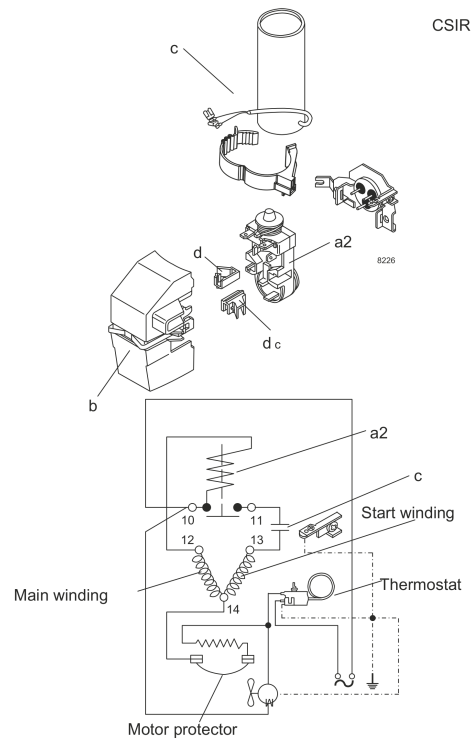
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

a2 relay (protector: TI MRP56EN-6) 117U4139

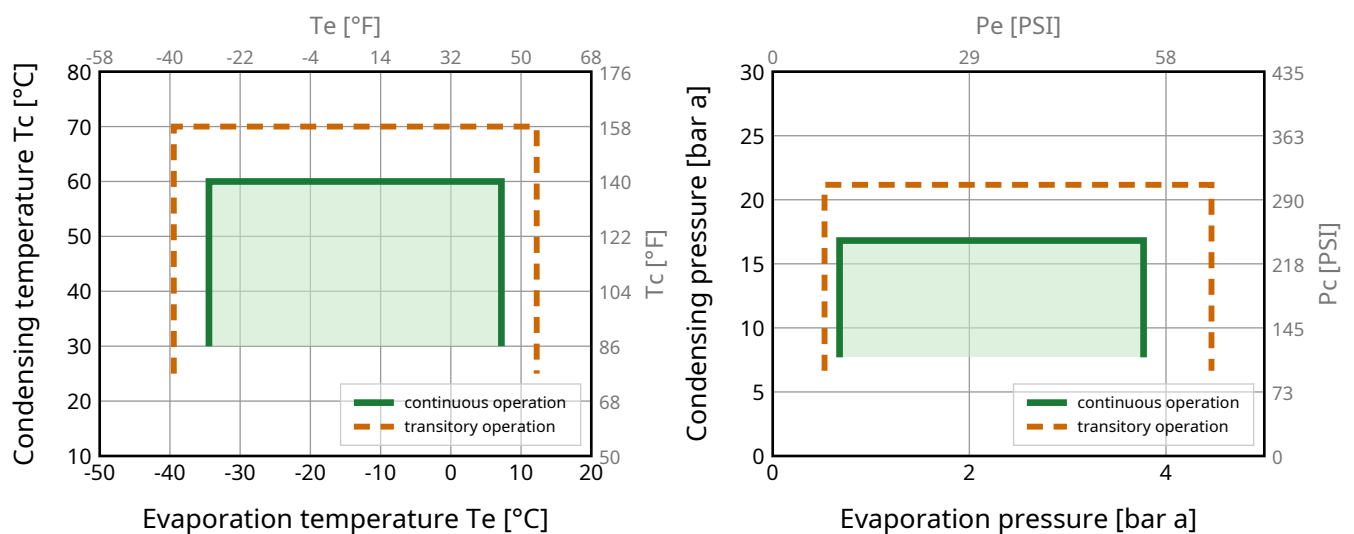
c start capacitor 117U5018

b plastic cover 117U1023

d/dc cord relief 117U0349

d cord relief 117U0317

Operation Pressure Range



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Standard Conditions

R134a, 220 V/50 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	293	1000	252	0.97	3.31	302	2.78	5.69	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	216	737	186	0.74	2.54	291	2.76	5.15	CECOMAF LBP
-35 -31	40 104	20 68	40 104	151	514	130	0.65	2.21	232	2.69	3.30	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	600	2047	516	1.41	4.82	424	3.03	13.06	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	467	1594	402	1.17	3.99	400	2.98	11.26	CECOMAF MBP
-10 14	45 113	20 68	45 113	527	1799	454	1.39	4.74	379	2.89	12.30	EN12900 MBP

Performance Tables

R134a, 220 V/50 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	141	482	121	0.60	2.05	234	2.70	3.04
-30	-22	194	662	167	0.75	2.55	259	2.72	4.18
-20	-4	338	1152	290	1.07	3.64	317	2.79	7.32
-10	14	546	1864	470	1.44	4.91	379	2.89	11.93
0	32	836	2854	719	1.90	6.47	441	3.01	18.45
7.2	45	1105	3771	950	2.29	7.83	482	3.11	24.63

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

-35	-31	114	389	98	0.49	1.67	233	2.68	2.71
-30	-22	160	546	138	0.61	2.10	260	2.71	3.80
-20	-4	284	971	245	0.88	2.99	325	2.82	6.80
-10	14	467	1594	402	1.17	3.99	400	2.98	11.26
0	32	724	2472	623	1.51	5.17	478	3.18	17.67
7.2	45	966	3295	830	1.81	6.18	533	3.36	23.80