

Model

NF11FX.2

Sales code:

105G5916

Compressor Data

Refrigerant(s)	R134a / R513A
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.00 kg / 22.05lbs
Displacement	11.25 cm3 / 0.69cu.in
Compressors on pallet	80



General – Configurations With NF11FX.2

-	Conf. 1	Conf. 2
Motor configuration	CSIR	CSIR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1
Voltage range	95-135 V	95-135 V
Approvals	UL, EAC	UL
Starting torque	HST	HST
Refrigerant	R134a	R513A
Application	MBP	MBP
Hot gas defrost	OK	OK
Long interval pull down	OK	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	2.90 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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Configuration

Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R134a
Application	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))	40 A
RLA (rated load amps / 1s/ U(N))	7 A
Cut in current (U(N))	40 A

Ambient/ machine room temperatures minimum /maximum

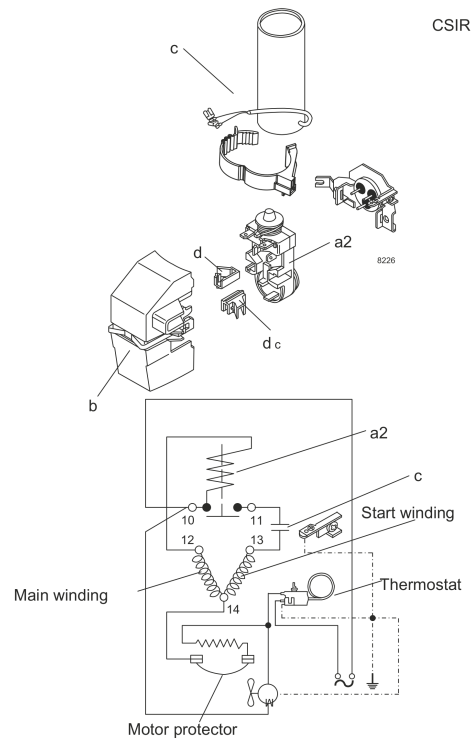
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

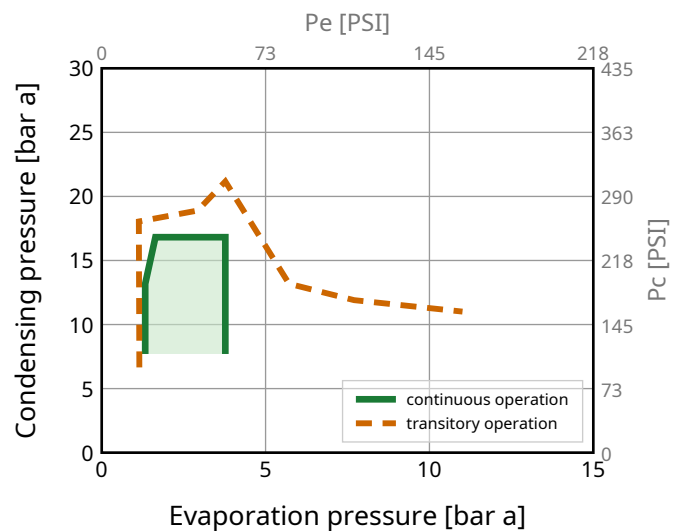
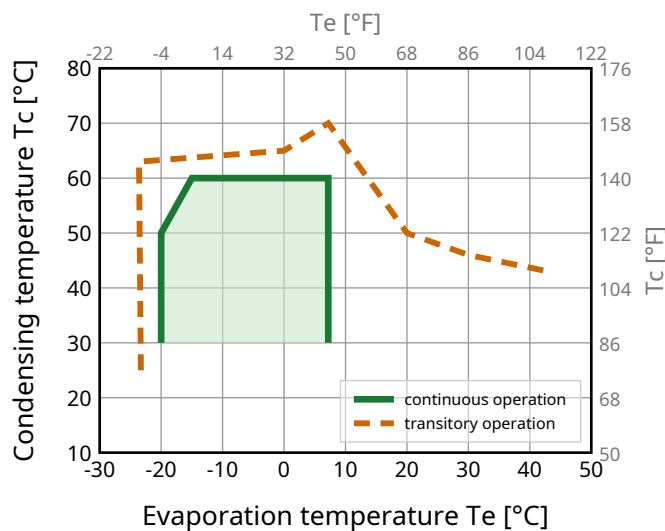
a2 assy. Relay (TI MRT16ADK-6) 117U4151

c start capacitor (410µF) 117U5028

b plastic cover + clamp 117U1021

d/dc cord relief 117U0349

Operation Pressure Range



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Configuration 1

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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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	382	1302	328	1.16	3.94	330	5.21	7.41	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	278	948	239	0.89	3.02	314	5.14	6.63	CECOMAF LBP
-35 -31	40 104	20 68	40 104	187	639	161	0.78	2.67	239	4.88	4.10	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	794	2708	683	1.65	5.61	483	6.02	17.29	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	618	2108	531	1.36	4.65	453	5.84	14.90	CECOMAF MBP
-10 14	45 113	20 68	45 113	697	2377	599	1.62	5.52	430	5.70	16.24	EN12900 MBP

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]
-20	-4	449	1531	386	1.26	4.31	355	5.28	9.73
-15	5	575	1962	494	1.47	5.00	392	5.48	12.51
-10	14	722	2462	620	1.68	5.72	430	5.70	15.76
-5	23	890	3037	766	1.90	6.47	470	5.95	19.53
0	32	1083	3695	931	2.12	7.22	512	6.22	23.89
5	41	1302	4441	1119	2.33	7.95	559	6.52	28.91
7.2	45	1406	4799	1210	2.42	8.26	581	6.66	31.34

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

-20	-4	373	1271	320	1.03	3.52	361	5.35	8.91
-15	5	485	1656	417	1.19	4.07	407	5.58	11.65
-10	14	618	2108	531	1.36	4.65	453	5.84	14.90
-5	23	772	2635	664	1.54	5.26	500	6.13	18.72
0	32	950	3243	817	1.73	5.89	550	6.44	23.17
5	41	1154	3937	992	1.91	6.52	604	6.78	28.35
7.2	45	1252	4273	1077	1.99	6.79	629	6.94	30.87

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Configuration 2

Sales code:
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Configuration

Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R513A
Application	MBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	410 µF
LRA (locked rotor amps / 4s/ U(N))	40 A
RLA (rated load amps / 1s/ U(N))	7 A
Cut in current (U(N))	40 A

Ambient/ machine room temperatures minimum /maximum

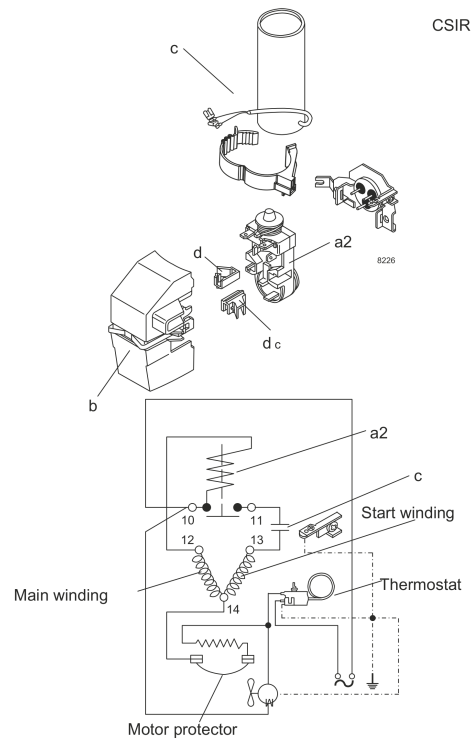
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System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

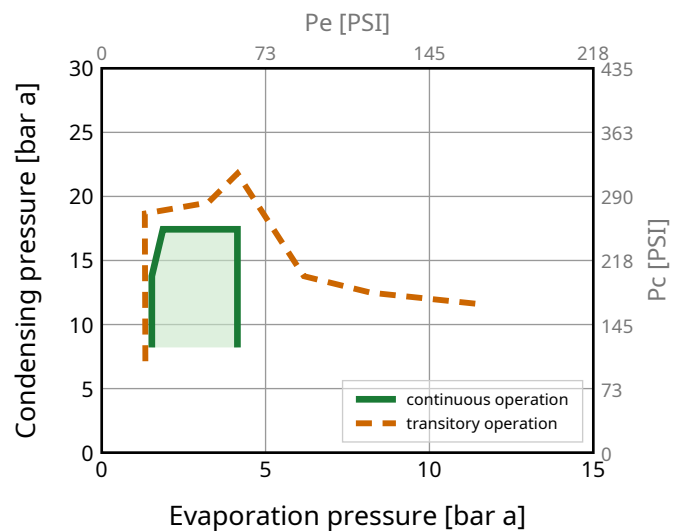
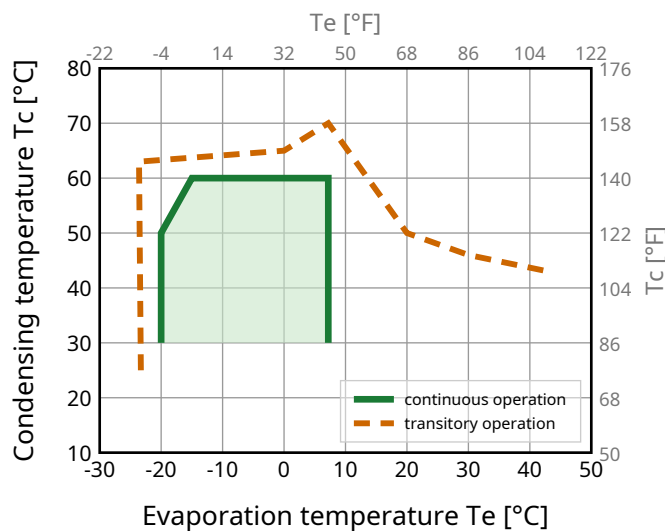
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c start capacitor (410µF) 117U5028

b plastic cover + clamp 117U1021

d/dc cord relief 117U0349

Operation Pressure Range



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Standard Conditions

R513A, 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	423	1445	364	1.17	3.97	364	5.35	9.27	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	302	1029	259	0.87	2.96	347	5.26	8.35	CECOMAF LBP
-35 -31	40 104	20 68	40 104	212	722	182	0.79	2.69	268	4.80	5.32	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	833	2844	717	1.62	5.53	514	6.23	20.78	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	642	2191	552	1.32	4.51	486	6.06	18.01	CECOMAF MBP
-10 14	45 113	20 68	45 113	725	2474	624	1.58	5.38	460	5.91	19.63	EN12900 MBP

Performance Tables

R513A, 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]
-20	-4	483	1649	416	1.25	4.28	385	5.48	12.00
-15	5	612	2089	527	1.45	4.95	422	5.69	15.26
-10	14	761	2596	654	1.66	5.65	460	5.91	19.04
-5	23	930	3175	800	1.87	6.37	498	6.13	23.42
0	32	1123	3832	966	2.08	7.09	540	6.38	28.45
5	41	1341	4574	1153	2.29	7.80	586	6.64	34.22
7.2	45	1445	4929	1242	2.37	8.10	608	6.77	37.01

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

-20	-4	397	1355	342	1.01	3.44	394	5.53	11.04
-15	5	510	1740	439	1.16	3.95	440	5.80	14.24
-10	14	642	2191	552	1.32	4.51	486	6.06	18.01
-5	23	795	2712	683	1.49	5.09	532	6.33	22.43
0	32	970	3309	834	1.67	5.69	581	6.62	27.57
5	41	1169	3989	1005	1.84	6.28	634	6.92	33.52
7.2	45	1265	4315	1088	1.92	6.54	660	7.07	36.43