

Model

NF7FK

Sales code:

105G5745

Compressor Data

Refrigerant(s)	R134a
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.50 kg / 23.15lbs
Displacement	7.27 cm3 / 0.44cu.in
Compressors on pallet	80



General – Configurations With NF7FK

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	115-127 V/60 Hz
Number of phases	1
Voltage range	95-135 V
Approvals	UL, EAC
Starting torque	HST
Refrigerant	R134a
Application	LBP+MBP
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	2.000 Ohm
Oil viscosity	32cSt	Winding resistance aux	9.10 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

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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

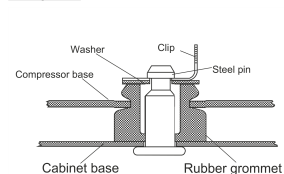
Mounting Accessories



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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Refrigerant	R134a
Application	LBP+MBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	320 µF
LRA (locked rotor amps / 4s/ U(N))	24 A
RLA (rated load amps / 1s/ U(N))	3.6 A

Ambient/ machine room temperatures minimum /maximum

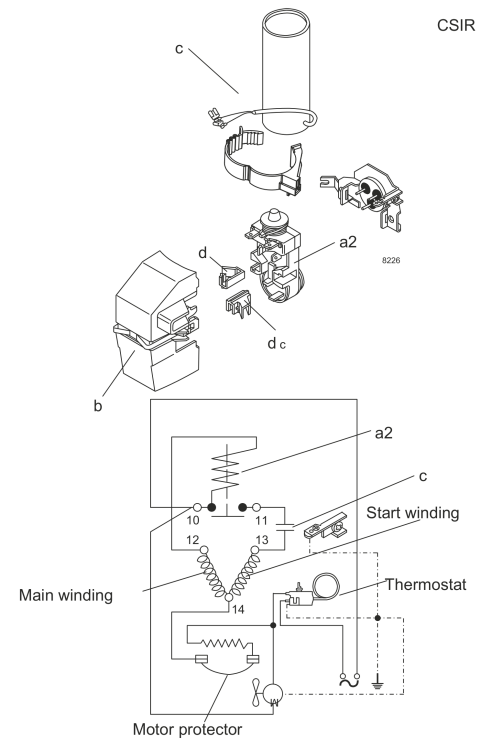
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

static

Electrical Accessories / Wiring Diagram



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Components (already pre-assembled)

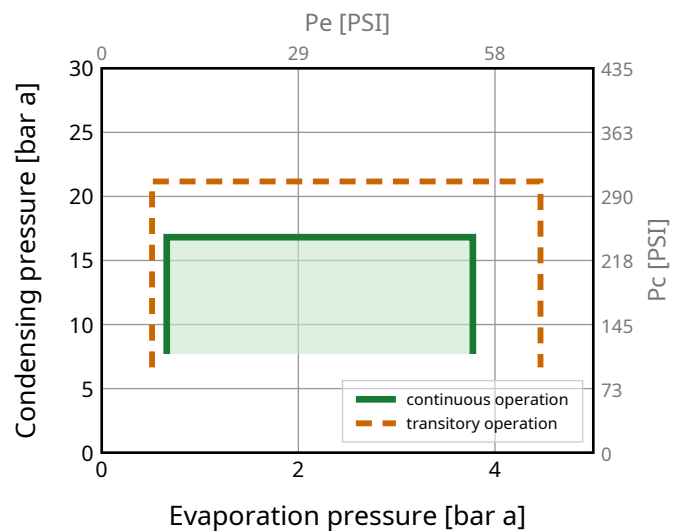
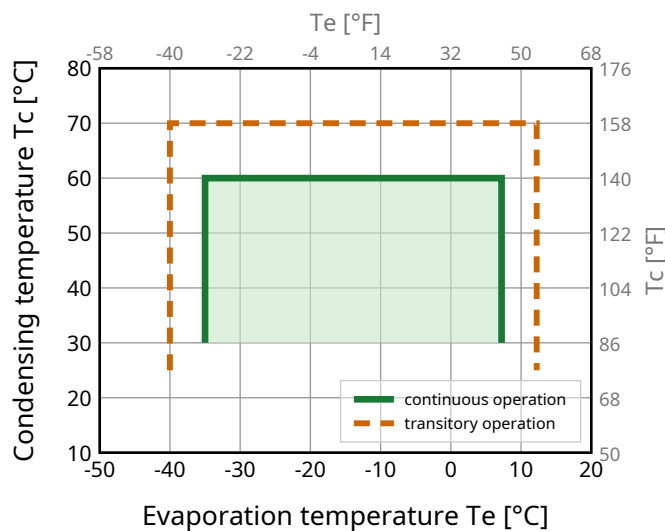
a2 current relay 117U4132

c start capacitor (320µF) 117U5022

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, static

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	244	833	210	1.20	4.09	204	2.87	4.74	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	180	614	155	0.93	3.17	194	2.82	4.29	CECOMAF LBP
-35 -31	40 104	20 68	40 104	120	408	103	0.98	3.34	122	2.52	2.62	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	486	1660	418	1.60	5.47	303	3.45	10.59	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	380	1298	327	1.33	4.55	285	3.34	9.17	CECOMAF MBP
-10 14	45 113	20 68	45 113	424	1446	364	1.59	5.41	267	3.20	9.88	EN12900 MBP

Performance Tables

R134a, 115 V/60 Hz, CSIR, static

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	112	381	96	0.92	3.15	121	2.50	2.41
-30	-22	156	534	135	1.02	3.48	153	2.63	3.38
-20	-4	273	931	235	1.28	4.37	213	2.90	5.92
-10	14	439	1497	377	1.64	5.61	267	3.20	9.58
0	32	672	2291	578	2.11	7.19	319	3.53	14.82
7.2	45	890	3036	765	2.50	8.53	356	3.78	19.83

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

-35	-31	91	309	78	0.71	2.43	127	2.50	2.15
-30	-22	132	451	114	0.82	2.80	161	2.66	3.15
-20	-4	236	805	203	1.05	3.57	225	2.98	5.64
-10	14	380	1298	327	1.33	4.55	285	3.34	9.17
0	32	583	1989	501	1.70	5.78	344	3.72	14.21
7.2	45	774	2641	666	2.00	6.82	387	4.01	19.08