

Model
NF5.5FX

Sales code:
105G5625

Compressor Data

Refrigerant(s)	R134a / R513A
Refr. charge - tech. limit	500g / 17.64oz
Weight	10.00 kg / 22.05lbs
Displacement	6.13 cm3 / 0.37cu.in
Compressors on pallet	80



General – Configurations With NF5.5FX

-	Conf. 1	Conf. 2
Motor configuration	CSIR	CSIR
Power supply (nominal)	115-127 V/60 Hz	115-127 V/60 Hz
Number of phases	1	1
Voltage range	95-135 V	95-135 V
Approvals	UL, EAC	UL, EAC
Starting torque	HST	HST
Refrigerant	R134a	R513A
Application	LBP+MBP	LBP+MBP
Long interval pull down	OK	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	3.10 Ohm
Oil quantity	268 / 9.06fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,360 cm3 / 79.80fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

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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Configuration 1

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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, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	280 µF
LRA (locked rotor amps / 4s/ U(N))	22.2 A
RLA (rated load amps / 1s/ U(N))	3.7 A

Ambient/ machine room temperatures minimum /maximum

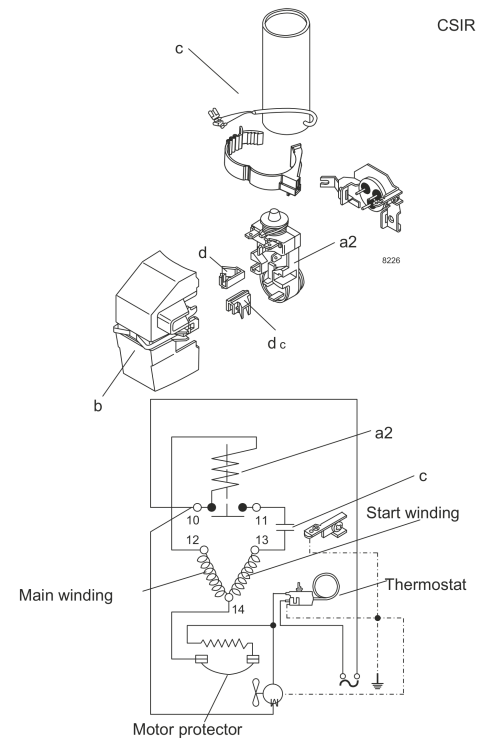
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram



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Components (already pre-assembled)

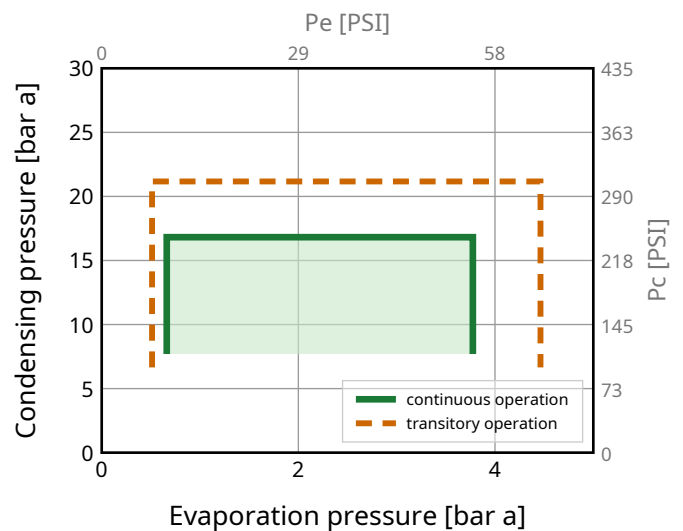
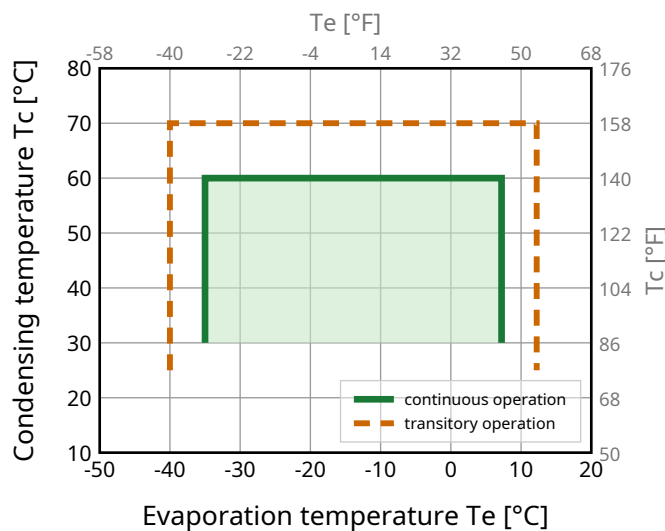
a2 current relay (MRP36AEN-6) 117U4127

c start capacitor (280µF) 117U5025

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 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	204	696	175	1.21	4.12	169	2.50	3.96	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	148	506	128	0.94	3.19	159	2.45	3.54	CECOMAF LBP
-35 -31	40 104	20 68	40 104	101	345	87	0.95	3.23	107	2.26	2.21	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	425	1449	365	1.67	5.69	254	3.04	9.25	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	330	1127	284	1.38	4.71	240	2.93	7.96	CECOMAF MBP
-10 14	45 113	20 68	45 113	376	1283	323	1.67	5.68	226	2.83	8.77	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	91	310	78	0.88	2.99	104	2.22	1.96
-30	-22	132	452	114	1.00	3.41	132	2.33	2.86
-20	-4	239	816	206	1.31	4.47	183	2.57	5.19
-10	14	390	1329	335	1.72	5.88	226	2.83	8.51
0	32	598	2039	514	2.25	7.66	266	3.12	13.18
7.2	45	791	2698	680	2.68	9.14	295	3.34	17.62

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

-35	-31	66	225	57	0.71	2.43	92	2.16	1.57
-30	-22	104	357	90	0.82	2.80	127	2.30	2.49
-20	-4	200	681	172	1.06	3.63	188	2.60	4.77
-10	14	330	1127	284	1.38	4.71	240	2.93	7.96
0	32	511	1743	439	1.79	6.09	286	3.29	12.46
7.2	45	680	2318	584	2.13	7.28	318	3.56	16.75

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Configuration 2

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Configuration

Motor configuration	CSIR
Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R513A
Application	LBP+MBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	280 µF
LRA (locked rotor amps / 4s/ U(N))	22.2 A
RLA (rated load amps / 1s/ U(N))	3.7 A

Ambient/ machine room temperatures minimum /maximum

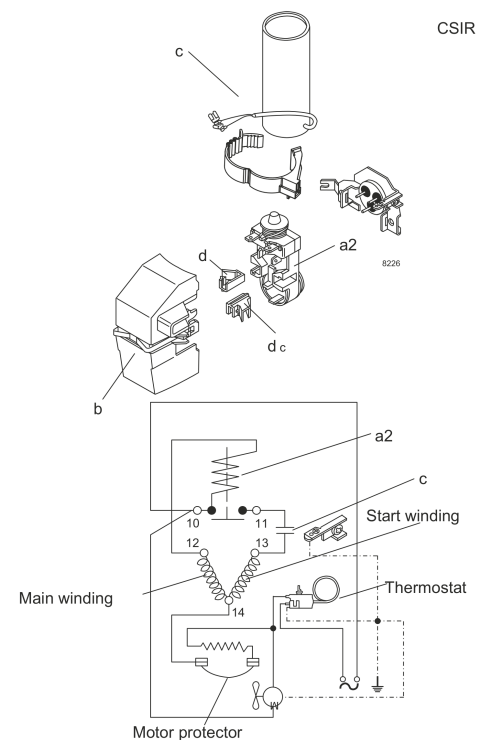
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System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram



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Components (already pre-assembled)

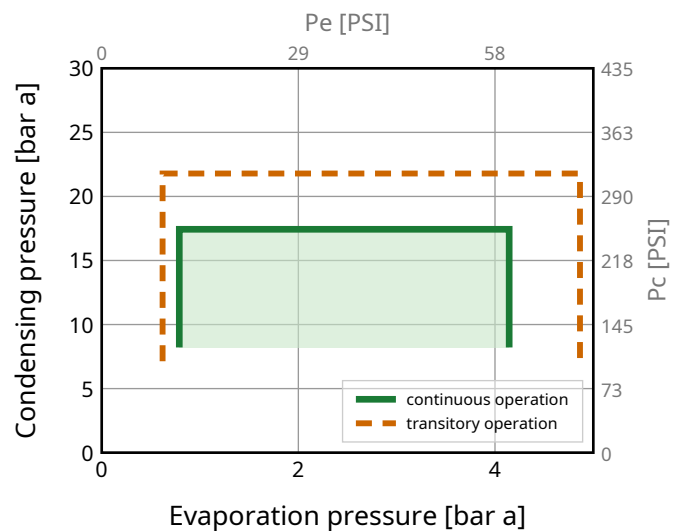
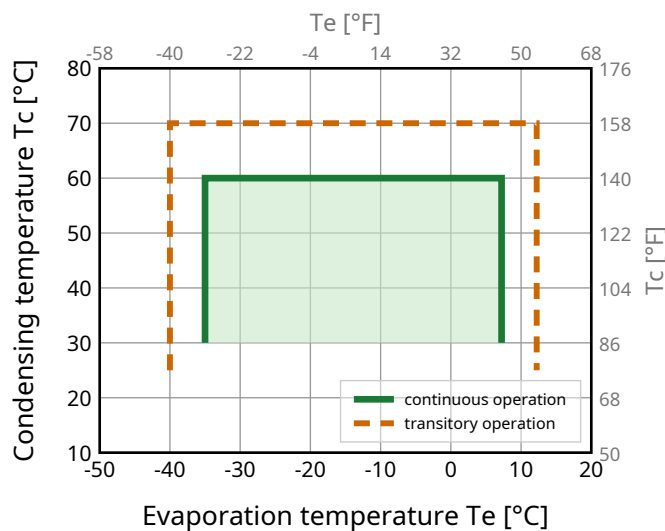
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c start capacitor (280µF) 117U5025

b plastic cover + clamp 117U1021

d/dc cord relief 117U0349

Operation Pressure Range



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R513A, 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	225	766	193	1.23	4.21	182	3.00	4.92	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	160	545	137	0.93	3.17	172	2.96	4.42	CECOMAF LBP
-35 -31	40 104	20 68	40 104	113	385	97	0.98	3.33	116	2.75	2.83	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	446	1520	383	1.66	5.65	269	3.45	11.11	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	343	1169	295	1.35	4.60	254	3.36	9.61	CECOMAF MBP
-10 14	45 113	20 68	45 113	391	1334	336	1.63	5.58	239	3.28	10.59	EN12900 MBP

Performance Tables

R513A, 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	103	350	88	0.91	3.10	113	2.74	2.53
-30	-22	146	499	126	1.02	3.48	143	2.84	3.61
-20	-4	257	877	221	1.31	4.48	196	3.06	6.38
-10	14	410	1400	353	1.71	5.85	239	3.28	10.27
0	32	620	2115	533	2.22	7.57	279	3.52	15.70
7.2	45	813	2773	699	2.64	9.01	308	3.70	20.82

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

-35	-31	75	255	64	0.74	2.51	102	2.69	2.06
-30	-22	115	391	99	0.83	2.83	138	2.82	3.16
-20	-4	212	722	182	1.05	3.58	202	3.09	5.88
-10	14	343	1169	295	1.35	4.60	254	3.36	9.61
0	32	521	1778	448	1.73	5.92	300	3.65	14.82
7.2	45	687	2343	591	2.07	7.05	332	3.87	19.78