

Model
NF5.5CLX

Sales code:
105F1621

Compressor Data

Refrigerant(s)	R404A
Refr. charge - tech. limit	400g / 14.11oz
Weight	10.00 kg / 22.05lbs
Displacement	6.13 cm3 / 0.37cu.in
Compressors on pallet	80



General – Configurations With NF5.5CLX

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz
Number of phases	1
Voltage range	95-135 V
Approvals	CCC, UL
Starting torque	HST
Refrigerant	R404A
Application	LBP+MBP
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

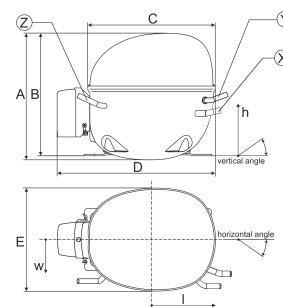
Oil type	POE	Winding resistance main	1.7 Ohm
Oil viscosity	32cSt	Winding resistance aux	6.1 Ohm
Oil quantity	300 / 10.14fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	2,280 cm ³ / 77.10fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

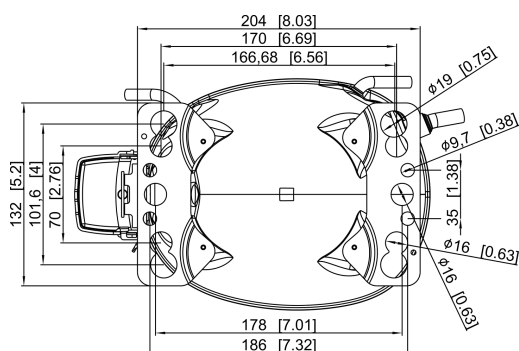
A Height	197mm / 7.76in
B Height	191mm / 7.52in
C Length shell	205mm / 8.07in
D Length w. cover	254mm / 10.00in
E Width	166mm / 6.54in

[Find 3D Model here](#)

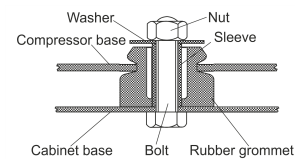


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in	-107/93.5/72 / -4.21/3.68/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

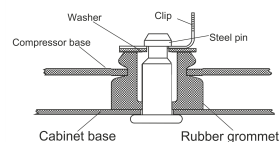
Mounting Accessories



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)	115 V/60 Hz 1~
Refrigerant	R404A
Application	LBP+MBP
Voltage range	95-135 V
Starting torque	HST
Approvals	CCC, UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	280 µF
LRA (locked rotor amps / 4s/ U(N))	30.8 A
RLA (rated load amps / 1s/ U(N))	4.7 A

Ambient/ machine room temperatures minimum /maximum

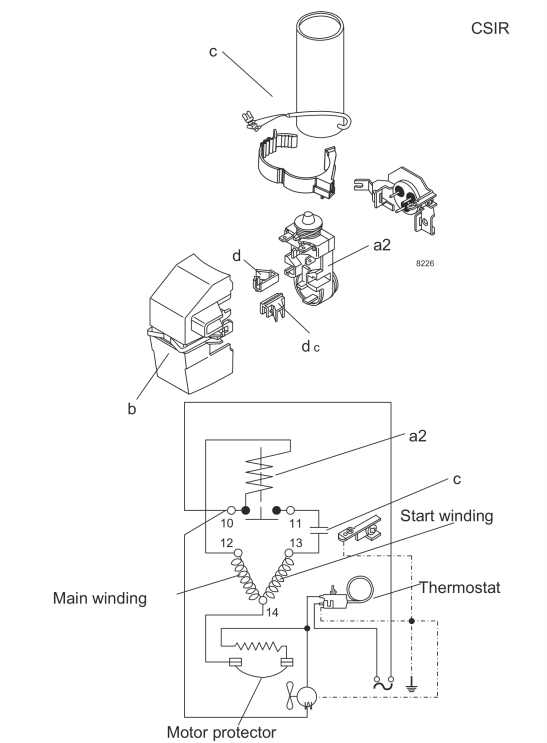
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 1,5m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a2 relay (protector: TI MRP30AEN-6) 117U4061

c start capacitor (280µF) 117U5025

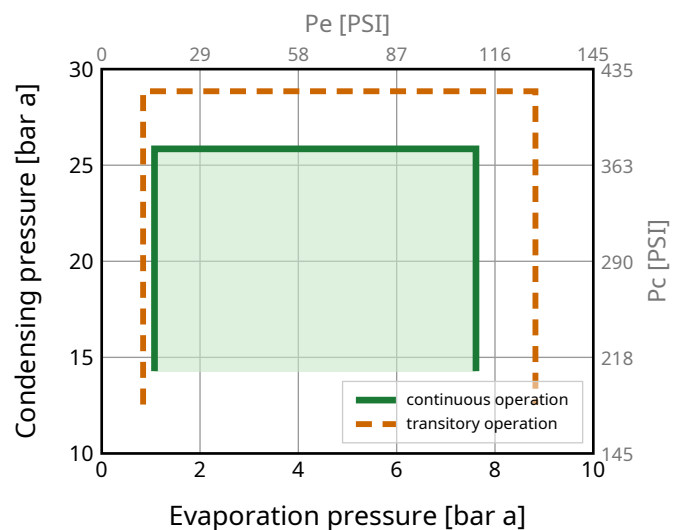
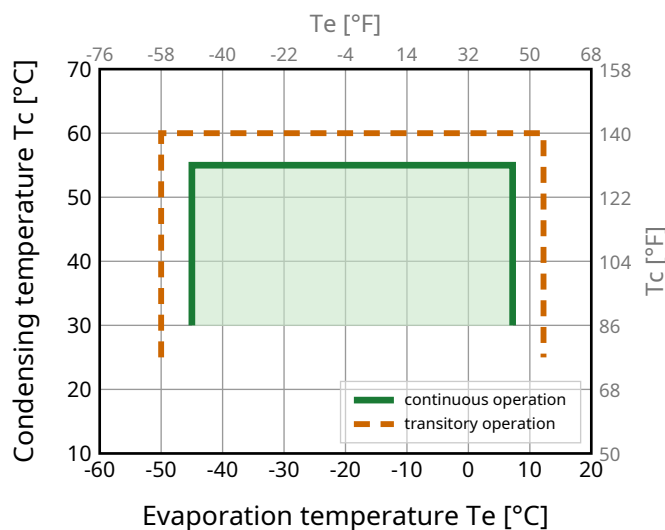
b plastic cover + clamp 117U1021

d/dc cord relief 117U0349

Alternative components

b assy. terminal board 6.3mm 117U1024

Operation Pressure Range



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Standard Conditions

R404A, 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	366	1249	315	1.23	4.20	298	3.97	8.51	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	248	848	214	0.87	2.97	286	3.90	7.75	CECOMAF LBP
-35 -31	40 104	20 68	40 104	203	694	175	0.95	3.23	215	3.52	5.51	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	275	939	237	0.94	3.20	293	3.92	9.71	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	411	1402	353	1.45	4.93	284	3.86	9.55	AHAM LBP
-35 -31	45 113	32 89.6	45 113	190	648	163	0.88	3.00	216	3.53	5.07	opt LBP

Performance Tables

R404A, 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]
-45	-49	97	332	84	0.64	2.17	153	3.35	2.58
-40	-40	140	477	120	0.76	2.58	185	3.43	3.71
-30	-22	249	851	214	1.01	3.44	247	3.67	6.68
-20	-4	401	1367	345	1.29	4.39	312	4.02	10.85
-10	14	604	2061	519	1.58	5.39	382	4.48	16.60
0	32	869	2966	748	1.88	6.40	463	5.04	24.41
7.2	45	1105	3770	950	2.08	7.11	530	5.52	31.66

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

-45	-49	66	224	57	0.46	1.58	142	3.31	2.01
-40	-40	100	342	86	0.56	1.92	178	3.42	3.08
-30	-22	190	650	164	0.76	2.60	250	3.71	5.90
-20	-4	317	1081	272	0.98	3.35	322	4.12	9.95
-10	14	490	1672	421	1.22	4.17	401	4.63	15.66
0	32	720	2457	619	1.47	5.03	489	5.25	23.59
7.2	45	927	3163	797	1.66	5.65	560	5.76	31.10