Single
Packs

Single Pack NF5.5CLX 115-127V 60Hz CSIR

Single pack code number: **195B4076**

Position	Title	Code	Amount
1	Compressor NF5.5CLX	105F1621	1
2	Starting relay (overload protector MRP30AEN-6, T0772/06)	117U4061	1
3	Starting capacitor (280µF 125V, 6.3mm)	117U5025	1
4	Cord relief	117U0349	2
5	Cover	117U1021	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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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

Model
NF5.5CLX

Sales code:
105F1621

Compressor Design

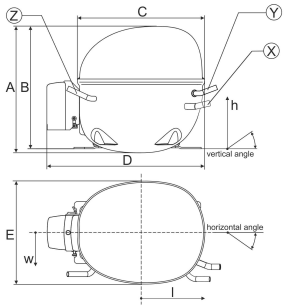
Oil type	**POE**	Winding resistance main	**1.7 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**6.1 Ohm**
Oil quantity	**300 / 10.14fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,280 cm3 / 77.10fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

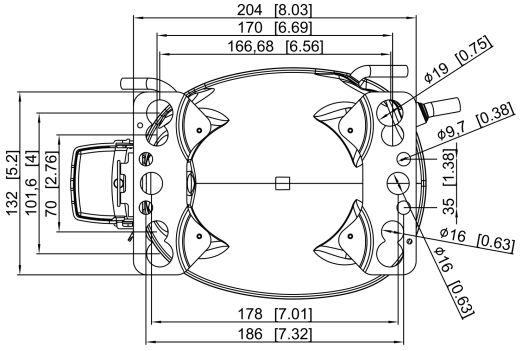
A Height	**197mm / 7.76in**
B Height	**191mm / 7.52in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



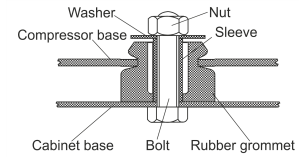
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

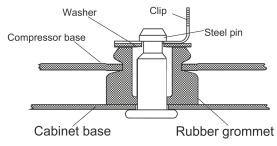


Dimensions in mm [in]

Bolt joint



Snap-on



	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

Model
NF5.5CLX Configuration 1

Sales code:
105F1621

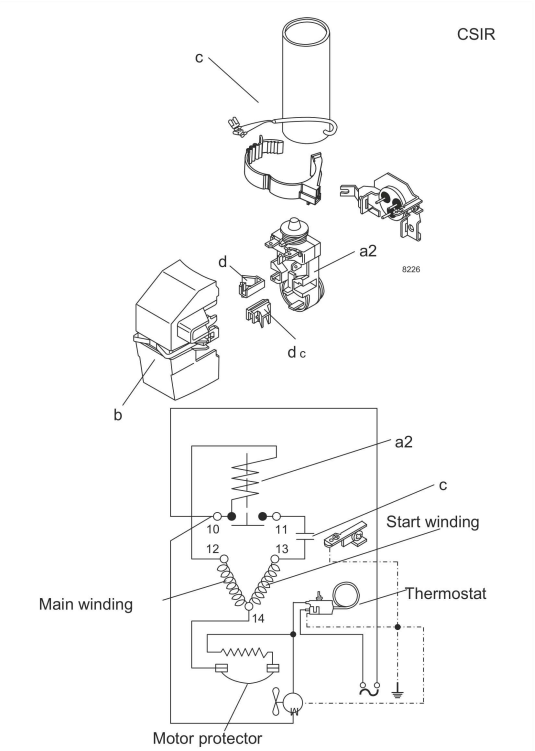
Configuration

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

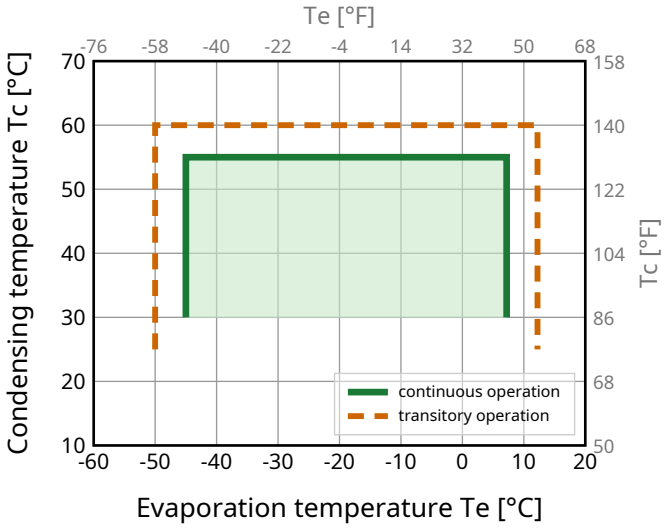


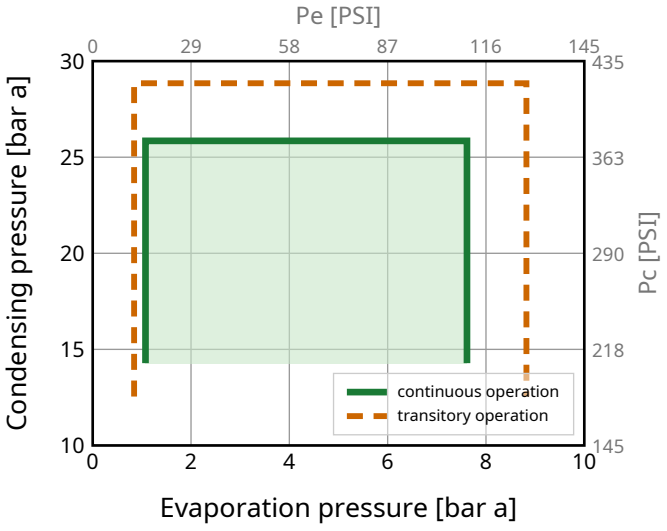
View full size

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





Model

NF5.5CLX Configuration 1

Sales code:

105F1621

Standard Conditions

R404A, 115 V/60 Hz, CSIR, fan 1,5m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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

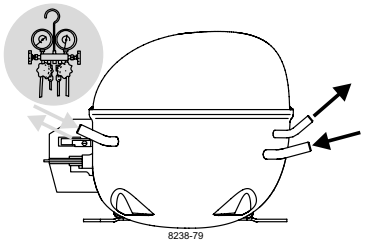
R404A, 115 V/60 Hz, CSIR, fan 1,5m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°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



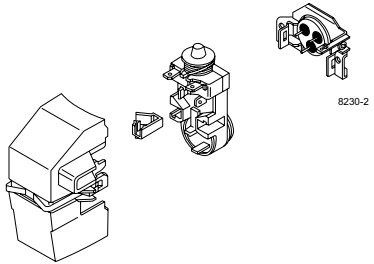
NF Compressors

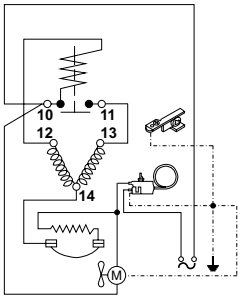
SECOP

Keep electrical equipment clear from oil, chemicals, and water

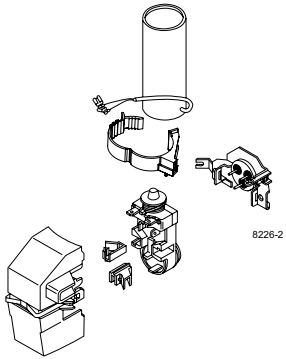
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

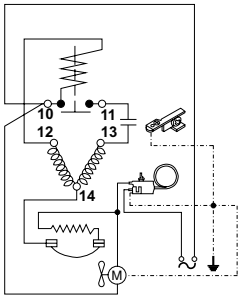
RSIR





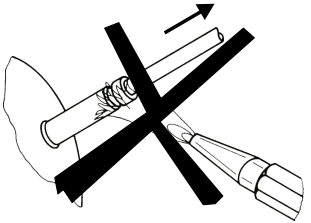
CSIR

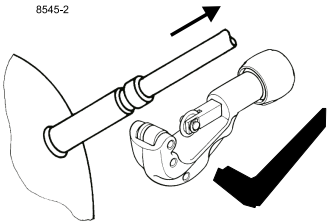


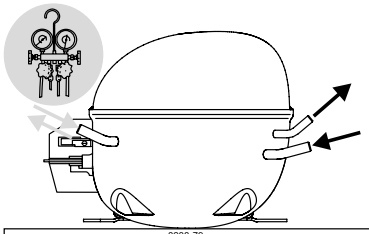


Service/Repair – R1234yf

(applies to all flammable refrigerants)







NF Compressors

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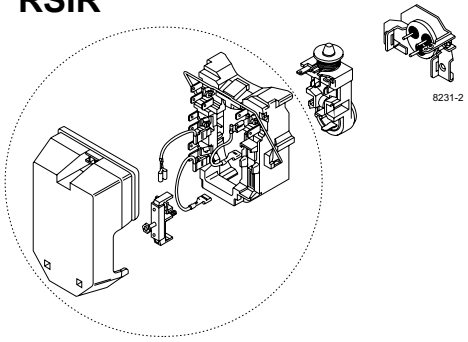
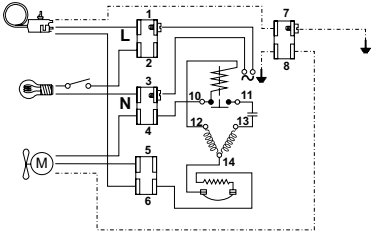
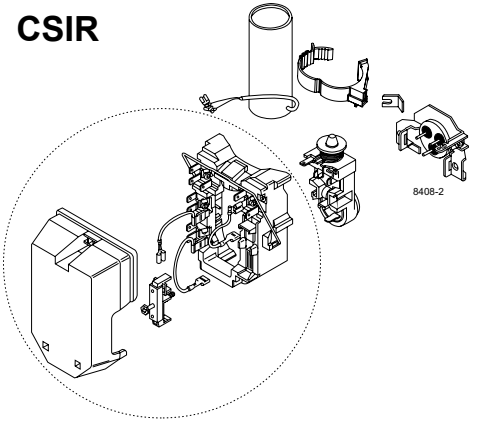
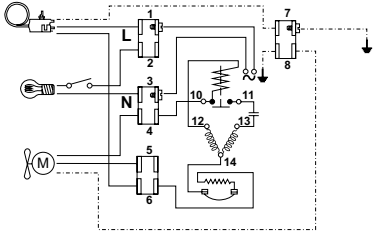
RSIR





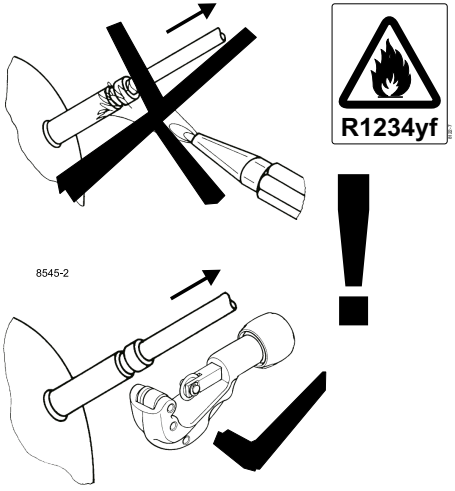
CSIR





Service/Repair – R1234yf

(applies to all flammable refrigerants)



Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**