Single
Packs

Single Pack NF7FX 115-127V 60Hz CSIR

Single pack code number: **195B4402**

Position	Title	Code	Amount
1	Compressor NF7FX	105G5723	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
NF7FX

Sales code:
105G5723

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**500g / 17.64oz**
Weight	**10.00 kg / 22.05lbs**
Displacement	**7.27 cm3 / 0.44cu.in**
Compressors on pallet	**80**

General – Configurations With NF7FX

–	**Conf. 1**
Motor configuration	CSIR
Power supply (nominal)	115-127 V/60 Hz
Number of phases	1
Voltage range	95-135 V
Approvals	UL
Starting torque	HST
Refrigerant	R134a
Application	LBP+MBP
Long interval pull down	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

Model
NF7FX

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105G5723

Compressor Design

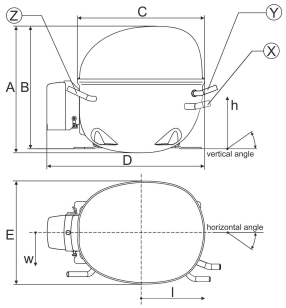
Oil type	**POE**	Winding resistance main	**1.7 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**6.2 Ohm**
Oil quantity	**268 / 9.06fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

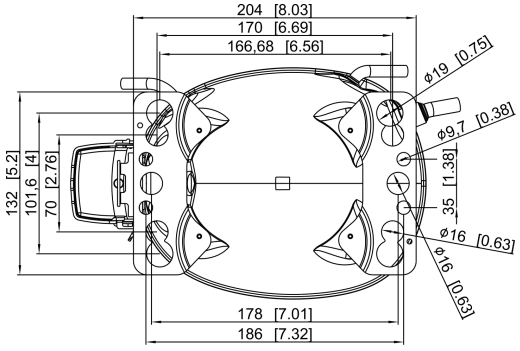
A Height	**197mm / 7.76in**
B Height	**191mm / 7.52in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



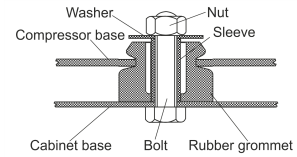
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

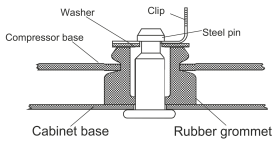


Dimensions in mm [in]

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
NF7FX Configuration 1

Sales code:
105G5723

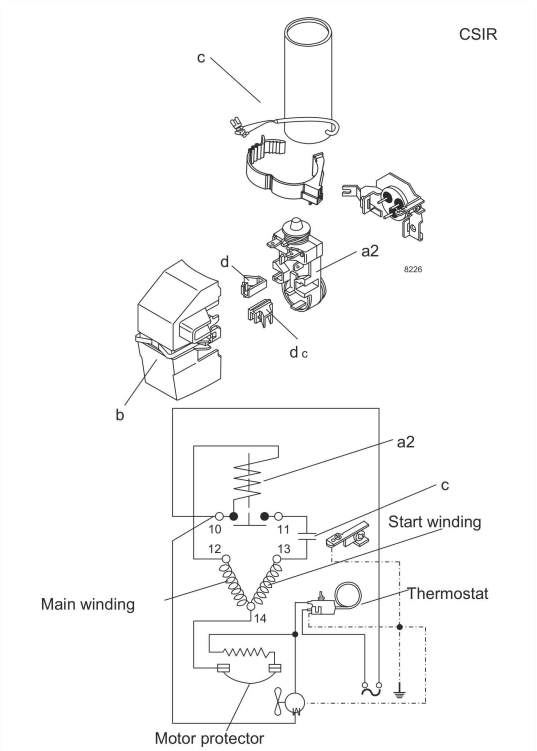
Configuration

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**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**280 µF**
RLA (rated load amps / 1s/ U(N))	**-/-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

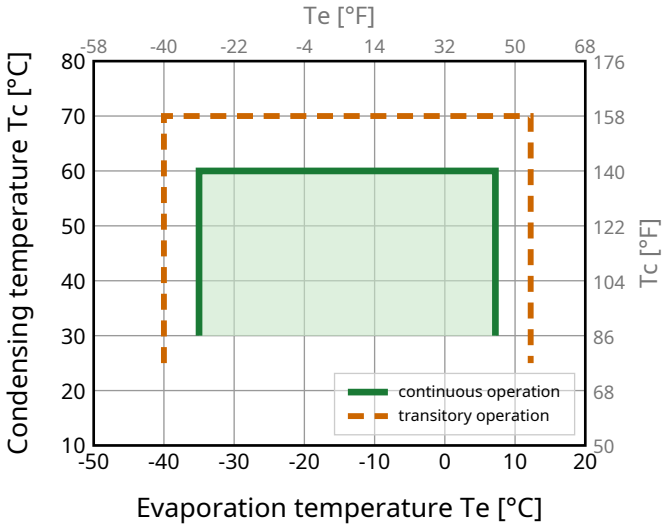


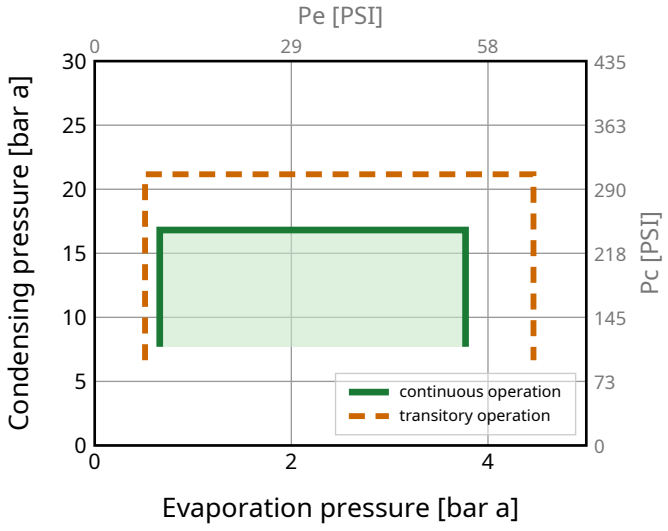
View full size

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
NF7FX Configuration 1

Sales code:
105G5723

Standard Conditions

R134a, 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	**252**	859	216	**1.17**	4.00	215	3.32	4.88	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**186**	633	160	**0.90**	3.08	206	3.27	4.43	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**123**	421	106	**0.90**	3.06	137	2.97	2.70	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**502**	1711	431	**1.62**	5.52	310	3.90	10.92	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**392**	1339	337	**1.34**	4.58	293	3.79	9.46	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**437**	1490	376	**1.59**	5.41	275	3.65	10.19	**EN12900 MBP**

Performance Tables

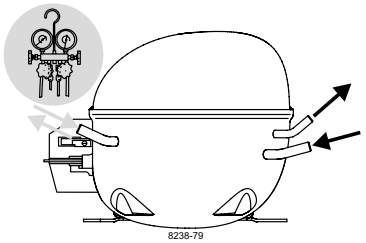
R134a, 115 V/60 Hz, CSIR, fan 1,5m/s

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

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-35	-31	**115**	393	99	**0.85**	2.89	136	2.95	2.48
-30	-22	**161**	551	139	**0.97**	3.30	167	3.08	3.48
-20	-4	**281**	959	242	**1.26**	4.29	224	3.35	6.10
-10	14	**452**	1544	389	**1.64**	5.61	275	3.65	9.88
0	32	**692**	2362	595	**2.13**	7.28	324	3.98	15.28
7.2	45	**918**	3131	789	**2.55**	8.70	360	4.23	20.44

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

-35	-31	**93**	319	80	**0.66**	2.25	142	2.95	2.22
-30	-22	**136**	465	117	**0.78**	2.66	175	3.11	3.24
-20	-4	**243**	830	209	**1.03**	3.52	236	3.44	5.82
-10	14	**392**	1339	337	**1.34**	4.58	293	3.79	9.46
0	32	**601**	2051	517	**1.72**	5.88	349	4.17	14.65
7.2	45	**798**	2723	686	**2.05**	6.99	390	4.46	19.67



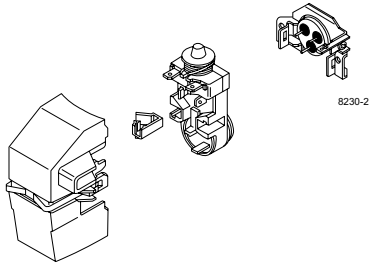
NF Compressors

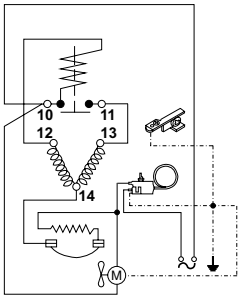
SECOP

Keep electrical equipment clear from oil, chemicals, and water

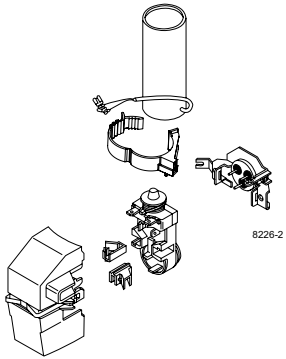
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

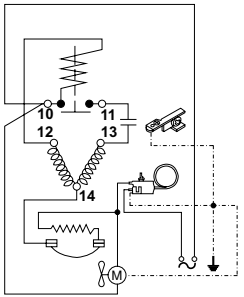
RSIR





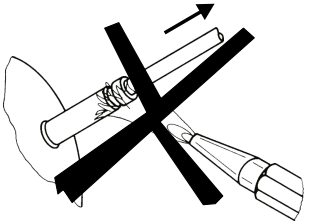
CSIR

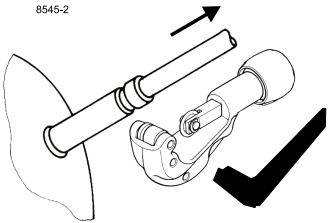


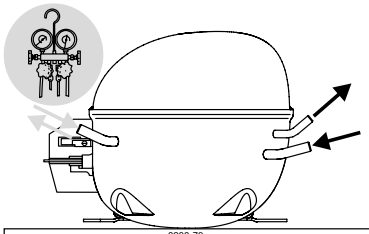


Service/Repair – R1234yf

(applies to all flammable refrigerants)







NF Compressors

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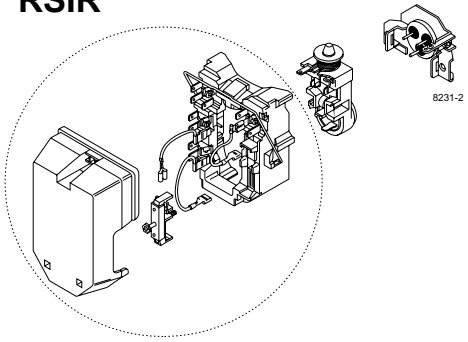
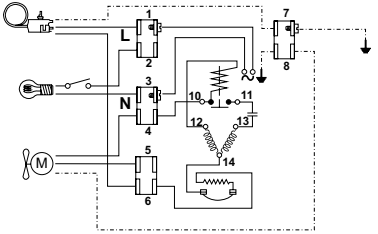
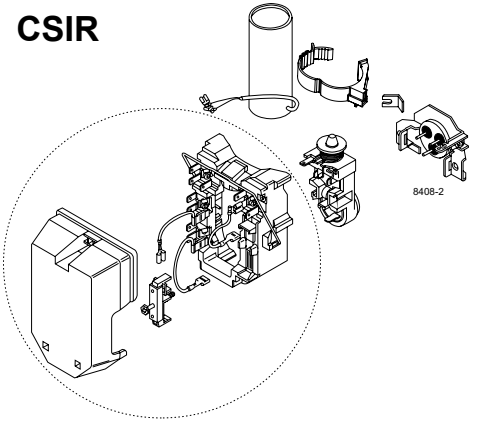
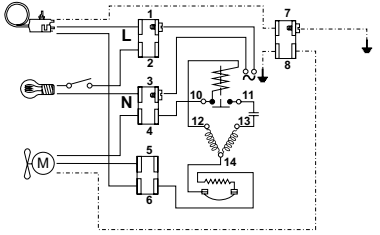




CSIR





Service/Repair – R1234yf

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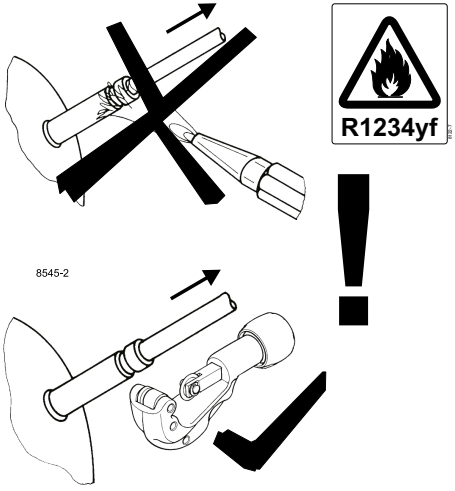

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be 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**