Single
Packs

Single Pack NF8.4FX.2 115-127V 60Hz CSIR

Single pack code number: **195B4491**

Position	Title	Code	Amount
1	Compressor NF8.4FX.2	105G5918	1
2	Starting relay (overload protector MRT22AFZ-6)	117U4129	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
NF8.4FX.2

Sales code:
105G5918

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**400g / 14.11oz**
Weight	**10.00 kg / 22.05lbs**
Displacement	**8.35 cm3 / 0.51cu.in**
Compressors on pallet	**80**

General – Configurations With NF8.4FX.2

–	**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

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

Model
NF8.4FX.2

Sales code:
105G5918

Compressor Design

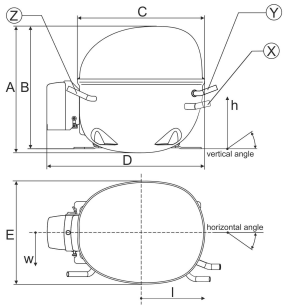
Oil type	**POE**	Winding resistance main	**1.7 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**6.2 Ohm**
Oil quantity	**268 / 9.06fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

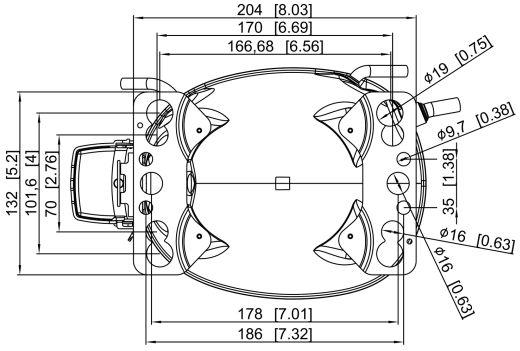
A Height	**197mm / 7.76in**
B Height	**191mm / 7.52in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



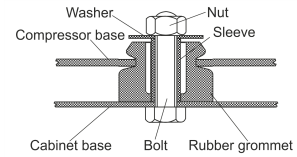
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

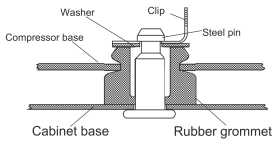


Dimensions in mm [in]

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

NF8.4FX.2 Configuration 1

Sales code:

105G5918

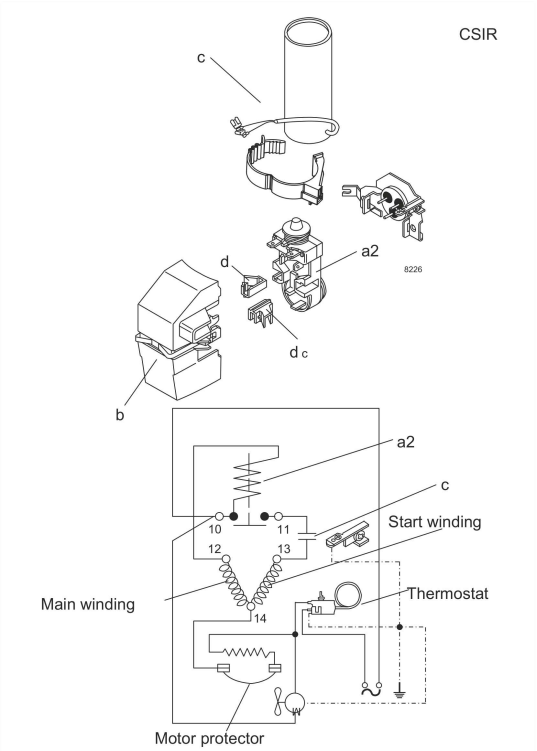
Configuration

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, EAC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**280 µF**

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

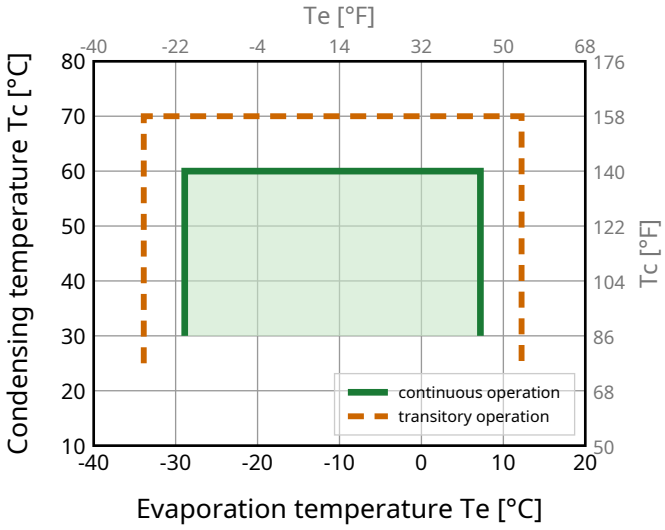
Electrical Accessories / Wiring Diagram

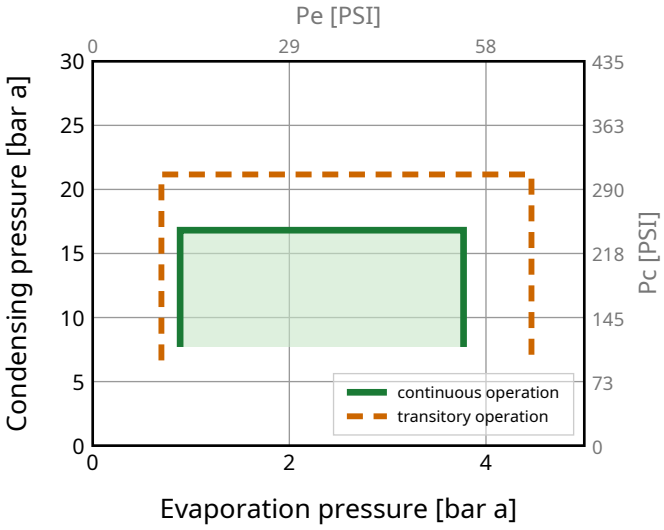


View full size

Components
a2 current relay (MRT22AFZ-6) 117U4129
c start capacitor (280µF) 117U5025
b plastic cover + clamp 117U1021
d/dc cord relief 117U0349

Operation Pressure Range





Model

NF8.4FX.2 Configuration 1

Sales code:

105G5918

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	**302**	1031	260	**1.22**	4.16	248	3.68	5.86	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**221**	753	190	**0.94**	3.19	236	3.63	5.26	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**150**	513	129	**0.83**	2.84	180	3.42	3.29	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**620**	2117	534	**1.72**	5.87	361	4.31	13.51	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**484**	1650	416	**1.43**	4.87	339	4.17	11.66	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**544**	1857	468	**1.69**	5.77	322	4.06	12.70	**EN12900 MBP**

Performance Tables

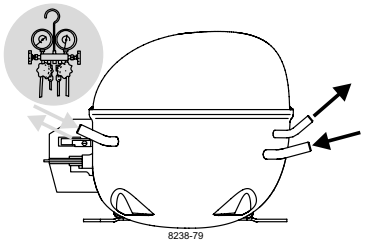
R134a, 115 V/60 Hz, CSIR, fan 1,5m/s

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]
-30	-22	**198**	676	170	**0.95**	3.26	208	3.49	4.28
-20	-4	**353**	1203	303	**1.32**	4.52	266	3.74	7.65
-10	14	**564**	1924	485	**1.75**	5.97	322	4.06	12.31
0	32	**844**	2878	725	**2.21**	7.52	382	4.47	18.61
7.2	45	**1094**	3733	941	**2.52**	8.62	433	4.81	24.38

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

-30	-22	**160**	545	137	**0.80**	2.74	199	3.49	3.80
-20	-4	**294**	1002	253	**1.08**	3.70	271	3.79	7.03
-10	14	**484**	1650	416	**1.43**	4.87	339	4.17	11.66
0	32	**741**	2528	637	**1.80**	6.16	411	4.64	18.07
7.2	45	**975**	3325	838	**2.08**	7.09	469	5.03	24.03



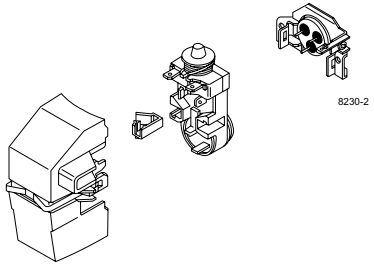
NF Compressors

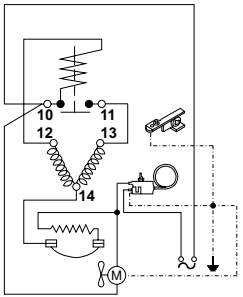
SECOP

Keep electrical equipment clear from oil, chemicals, and water

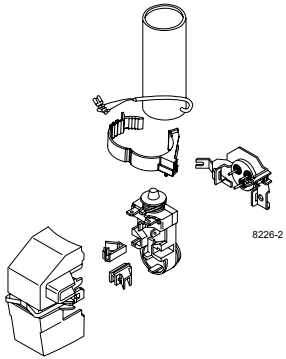
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

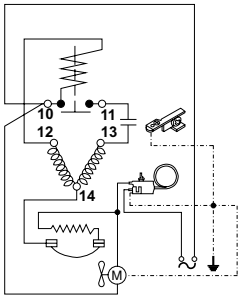
RSIR





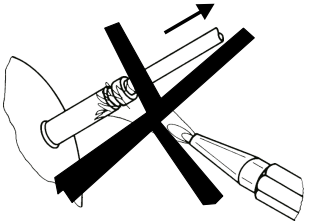
CSIR

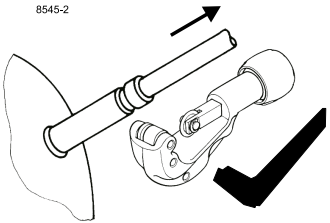


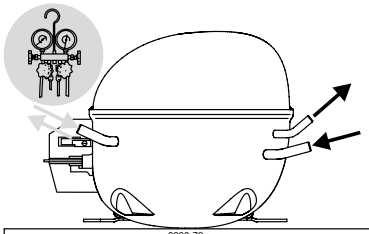


Service/Repair – R1234yf

(applies to all flammable refrigerants)







NF Compressors

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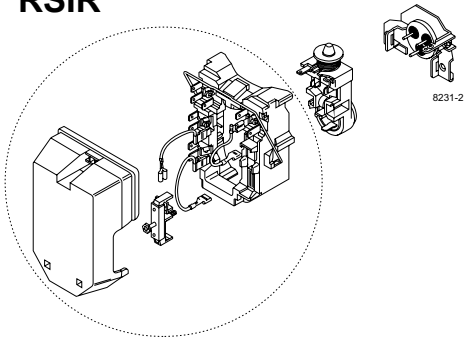
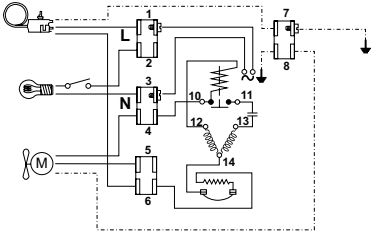
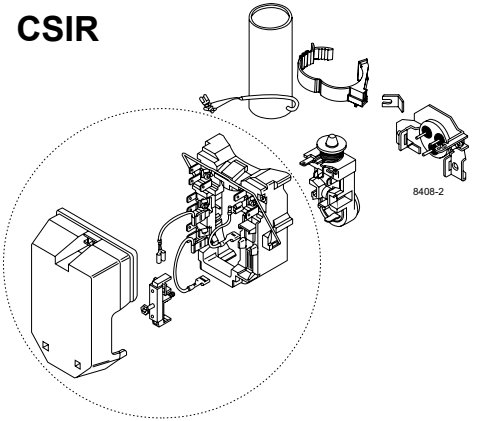
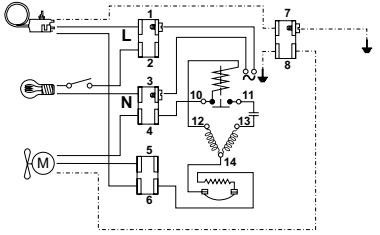
RSIR





CSIR





Service/Repair – R1234yf

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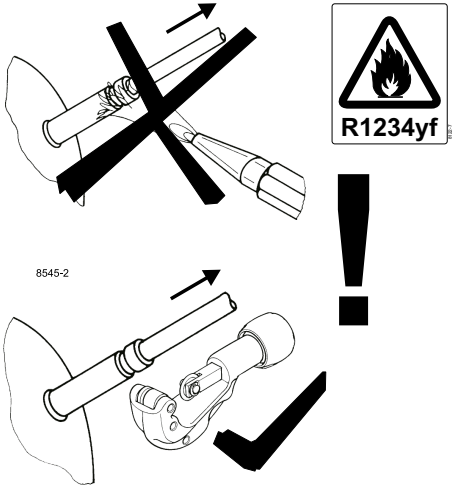

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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