Single
Packs

Single Pack NF11FX 220V 50Hz CSIR

Single pack code number: **195B4027**

Position	Title	Code	Amount
1	Compressor NF11FX	105G6944	1
2	Starting relay (overload protector MRP56EN-6)	117U4139	1
3	Starting capacitor (125µF 220V, 6.3mm)	117U5018	1
4	Cord relief	117U0349	2
5	Cover	117U1023	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
NF11FX

Sales code:
105G6944

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**400g / 14.11oz**
Weight	**10.50 kg / 23.15lbs**
Displacement	**11.15 cm3 / 0.68cu.in**
Compressors on pallet	**80**

General – Configurations With NF11FX

–	**Conf. 1**
Motor configuration	CSIR
Power supply (nominal)	220-230 V/50 Hz
Number of phases	1
Voltage range	198-242 V
Approvals	EAC
Starting torque	HST
Refrigerant	R134a
Application	LBP+MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

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

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NF11FX

Sales code:
105G6944

Compressor Design

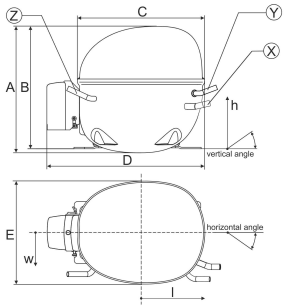
Oil type	**POE**	Winding resistance main	**4.6 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**12.8 Ohm**
Oil quantity	**298 / 10.08fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

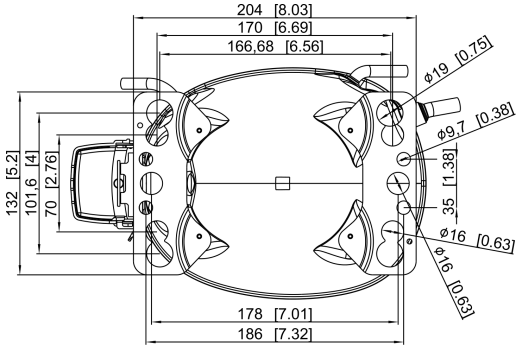
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



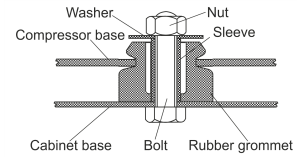
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

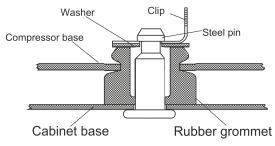


Dimensions in mm [in]

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
NF11FX Configuration 1

Sales code:
105G6944

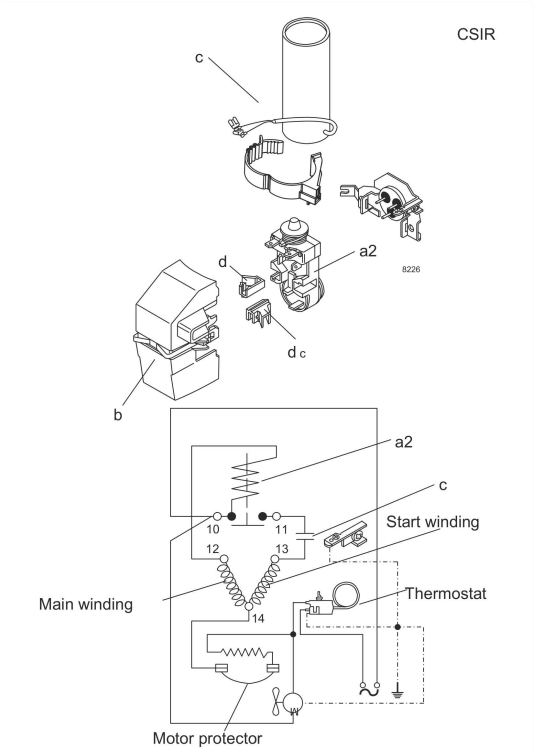
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-230 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
Voltage range	**198-242 V**
Starting torque	**HST**
Approvals	**EAC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**125 µF**
RLA (rated load amps / 1s/ U(N))	**-/-A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 38°C / 50 - 100°F
Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling
fan 3m/s

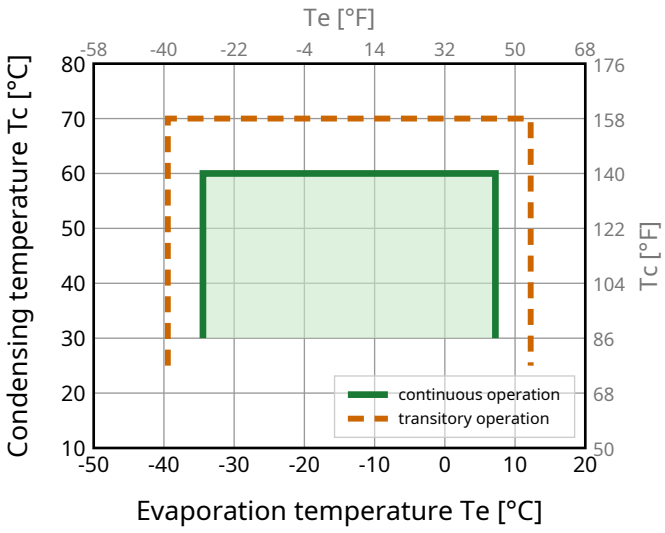
Electrical Accessories / Wiring Diagram

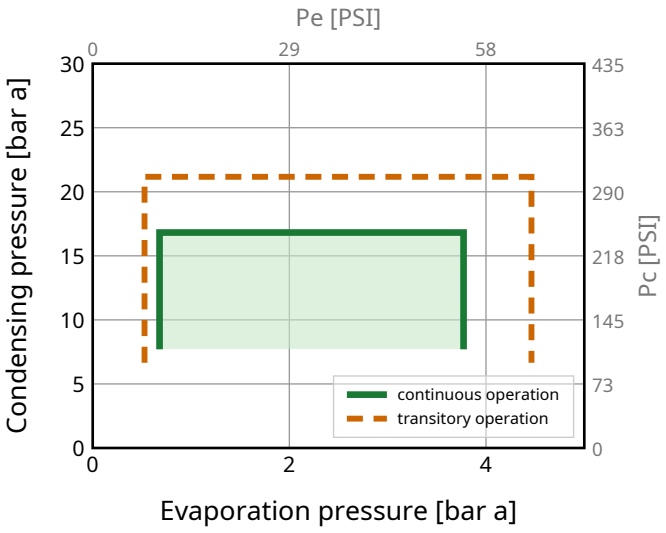


View full size

Components
a2 relay (protector: TI MRP56EN-6) 117U4139
c start capacitor 117U5018
b plastic cover 117U1023
d/dc cord relief 117U0349
d cord relief 117U0317

Operation Pressure Range





Model Sales code:

NF11FX Configuration 1 **105G6944**

Standard Conditions

R134a, 220 V/50 Hz, CSIR, fan 3m/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	**293**	1000	252	**0.97**	3.31	302	2.78	5.69	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**216**	737	186	**0.74**	2.54	291	2.76	5.15	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**151**	514	130	**0.65**	2.21	232	2.69	3.30	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**600**	2047	516	**1.41**	4.82	424	3.03	13.06	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**467**	1594	402	**1.17**	3.99	400	2.98	11.26	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**527**	1799	454	**1.39**	4.74	379	2.89	12.30	**EN12900 MBP**

Performance Tables

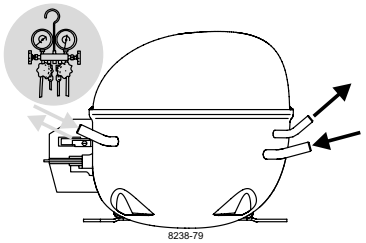
R134a, 220 V/50 Hz, CSIR, fan 3m/s

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	**141**	482	121	**0.60**	2.05	234	2.70	3.04
-30	-22	**194**	662	167	**0.75**	2.55	259	2.72	4.18
-20	-4	**338**	1152	290	**1.07**	3.64	317	2.79	7.32
-10	14	**546**	1864	470	**1.44**	4.91	379	2.89	11.93
0	32	**836**	2854	719	**1.90**	6.47	441	3.01	18.45
7.2	45	**1105**	3771	950	**2.29**	7.83	482	3.11	24.63

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

-35	-31	**114**	389	98	**0.49**	1.67	233	2.68	2.71
-30	-22	**160**	546	138	**0.61**	2.10	260	2.71	3.80
-20	-4	**284**	971	245	**0.88**	2.99	325	2.82	6.80
-10	14	**467**	1594	402	**1.17**	3.99	400	2.98	11.26
0	32	**724**	2472	623	**1.51**	5.17	478	3.18	17.67
7.2	45	**966**	3295	830	**1.81**	6.18	533	3.36	23.80



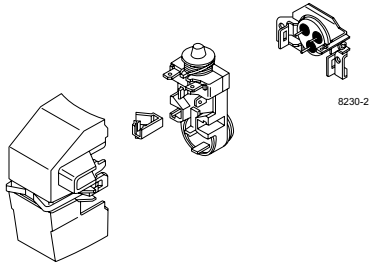
NF Compressors

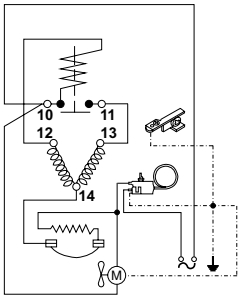
SECOP

Keep electrical equipment clear from oil, chemicals, and water

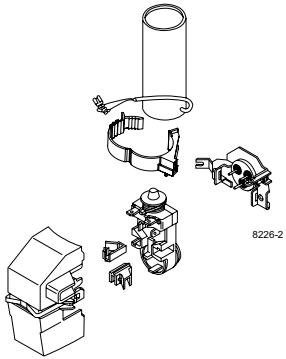
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

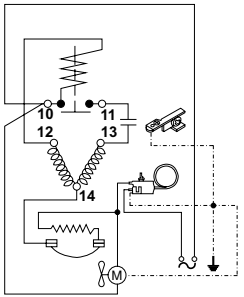
RSIR





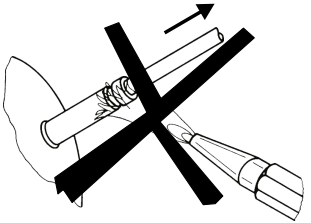
CSIR

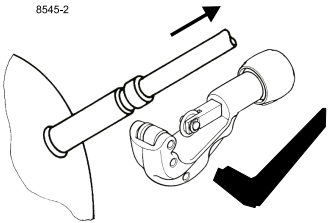


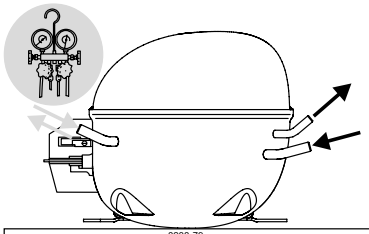


Service/Repair – R1234yf

(applies to all flammable refrigerants)







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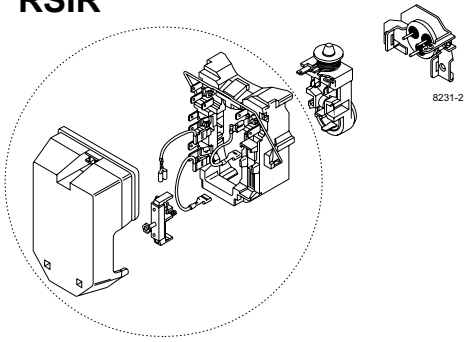

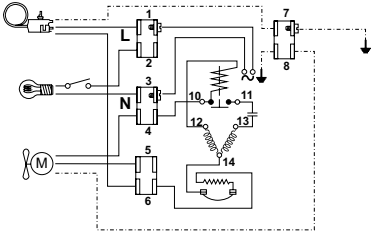

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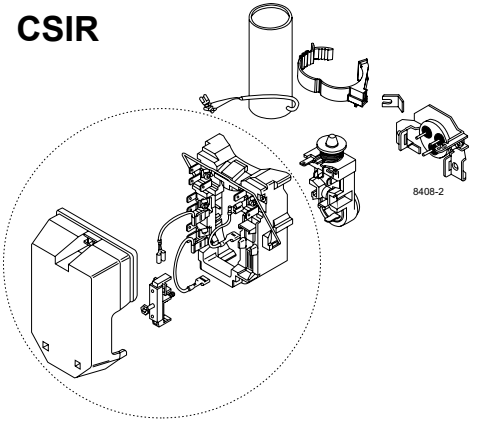

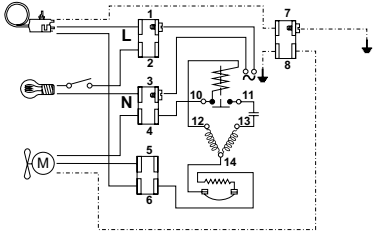

Service/Repair – R1234yf

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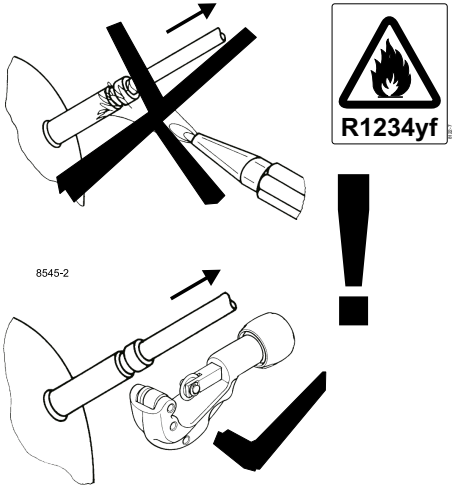

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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