Single
Packs

Single Pack NF11FX 115-127V 60Hz CSIR

Single pack code number: **195B4114**

Position	Title	Code	Amount
1	Compressor NF11FX	105G5945	1
2	Starting relay (overload protector MRT16AFZ-6)	117U4123	1
3	Starting capacitor (410µF 125V, 6.3mm)	117U5028	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
NF11FX

Sales code:
105G5945

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)	115 V/60 Hz
Number of phases	1
Voltage range	95-135 V
Approvals	UL, 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

Model
NF11FX

Sales code:
105G5945

Compressor Design

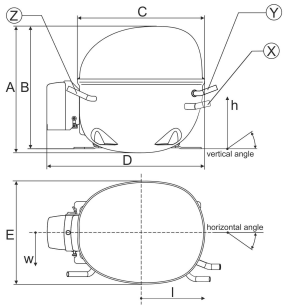
Oil type	**POE**	Winding resistance main	**1 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**3.9 Ohm**
Oil quantity	**298 / 10.08fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

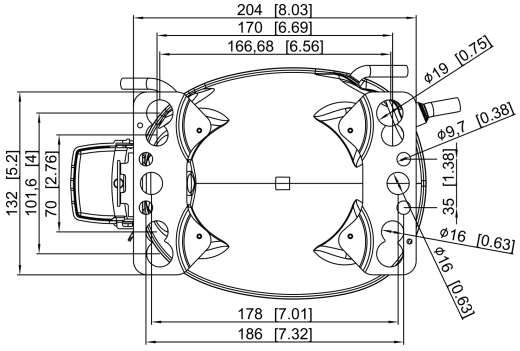
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



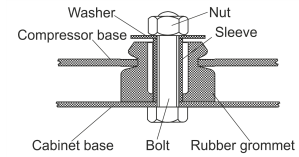
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

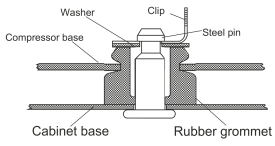


Dimensions in mm [in]

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:
105G5945

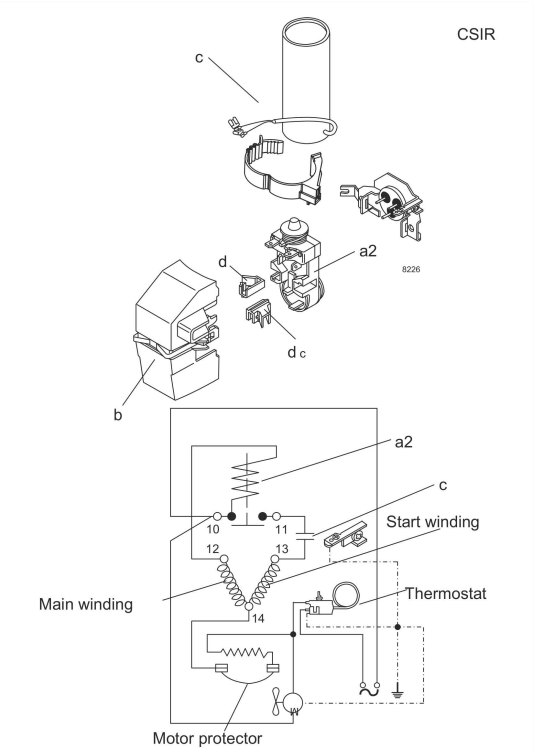
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115 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	**410 µF**
LRA (locked rotor amps / 4s/ U(N))	**43.1 A**
RLA (rated load amps / 1s/ U(N))	**7.6 A**
Cut in current (U(N))	**43.1 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 3m/s

Electrical Accessories / Wiring Diagram



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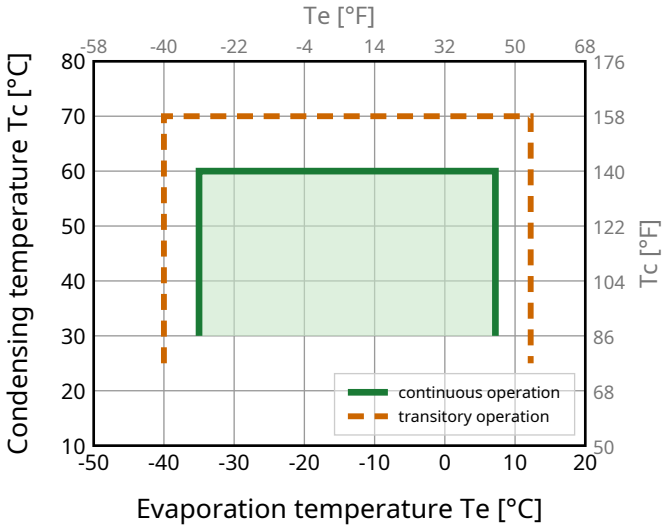
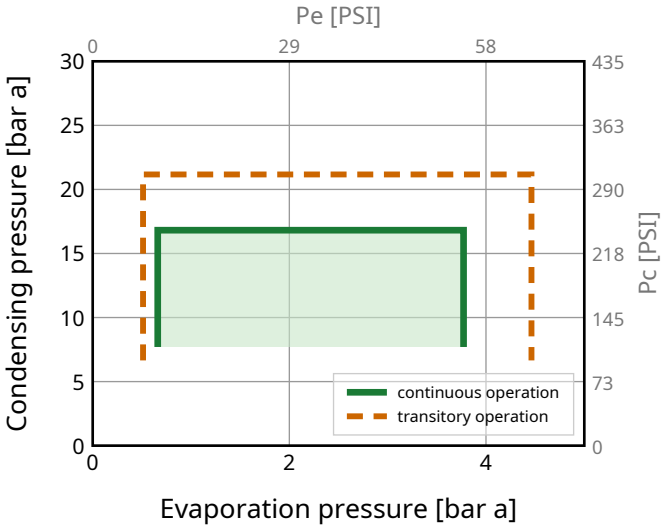
Components
a2 current relay 117U4123
c start capacitor (410µF) 117U5028
b plastic cover + clamp 117U1021
d/dc cord relief 117U0349

Operation Pressure Range





Model
NF11FX Configuration 1

Sales code:
105G5945

Standard Conditions

R134a, 115 V/60 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]	
-6.7 20	54.4 129.9	35 95	46.1 115	**669**	2282	575	**1.52**	5.17	441	5.81	14.56	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**521**	1778	448	**1.27**	4.32	411	5.60	12.56	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**580**	1978	498	**1.48**	5.04	392	5.43	13.52	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**633**	2159	544	**1.48**	5.04	428	5.70	15.55	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**600**	2048	516	**1.53**	5.22	392	5.43	13.11	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**271**	926	233	**0.98**	3.36	276	4.70	5.87	**opt MBP 2**

Performance Tables

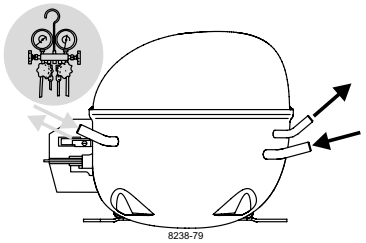
R134a, 115 V/60 Hz, CSIR, fan 3m/s

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	**135**	462	116	**0.66**	2.23	206	4.31	2.91
-30	-22	**197**	671	169	**0.82**	2.80	240	4.50	4.25
-20	-4	**362**	1234	311	**1.15**	3.94	313	4.92	7.84
-10	14	**600**	2048	516	**1.53**	5.22	392	5.43	13.11
0	32	**934**	3187	803	**1.98**	6.74	473	6.02	20.61
7.2	45	**1246**	4250	1071	**2.35**	8.03	529	6.50	27.75

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

-35	-31	**114**	389	98	**0.53**	1.81	215	4.23	2.70
-30	-22	**171**	582	147	**0.69**	2.36	247	4.47	4.06
-20	-4	**316**	1078	272	**0.98**	3.34	323	4.99	7.55
-10	14	**521**	1778	448	**1.27**	4.32	411	5.60	12.56
0	32	**808**	2756	695	**1.59**	5.43	508	6.29	19.70
7.2	45	**1077**	3673	926	**1.85**	6.33	581	6.83	26.54



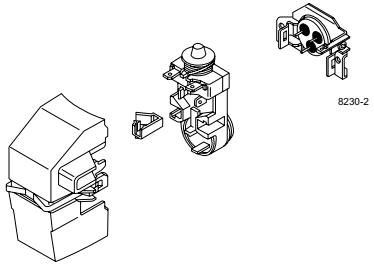
NF Compressors

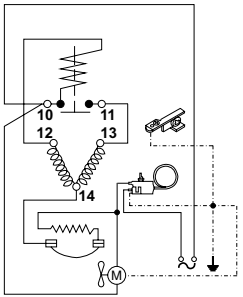
SECOP

Keep electrical equipment clear from oil, chemicals, and water

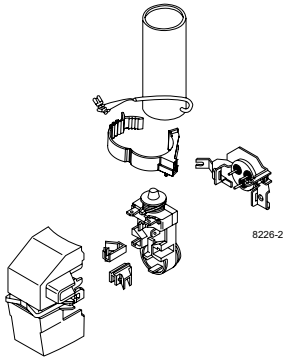
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

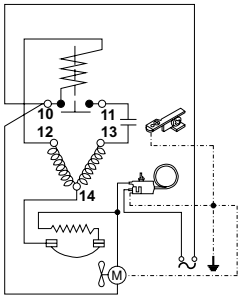
RSIR





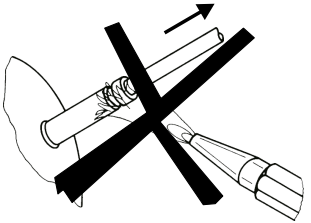
CSIR

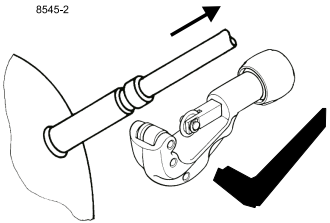


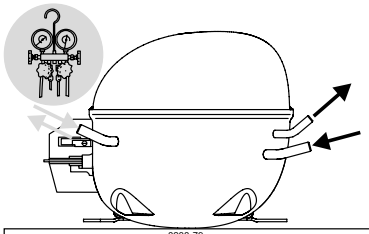


Service/Repair – R1234yf

(applies to all flammable refrigerants)







NF Compressors

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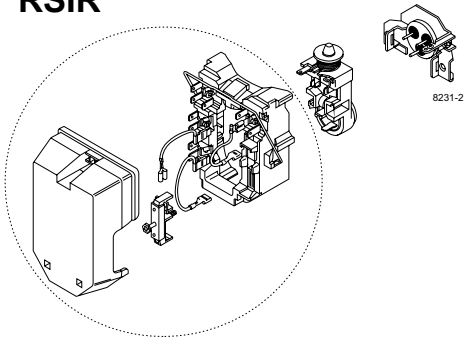
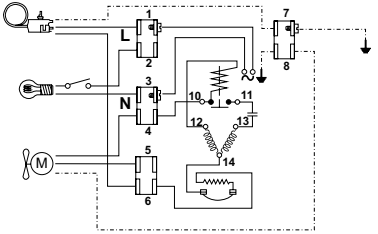
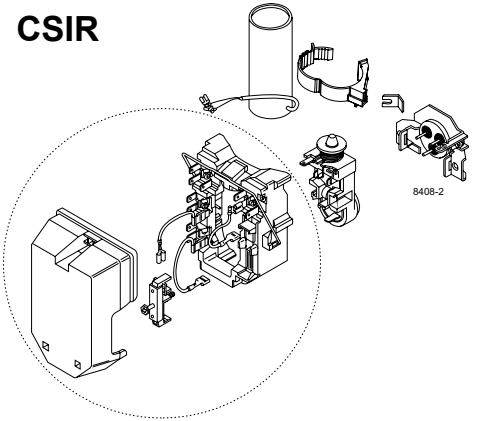
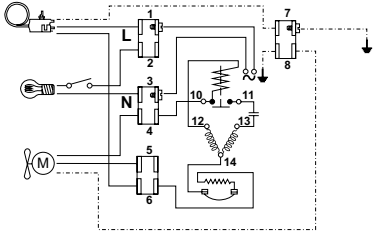




CSIR





Service/Repair – R1234yf

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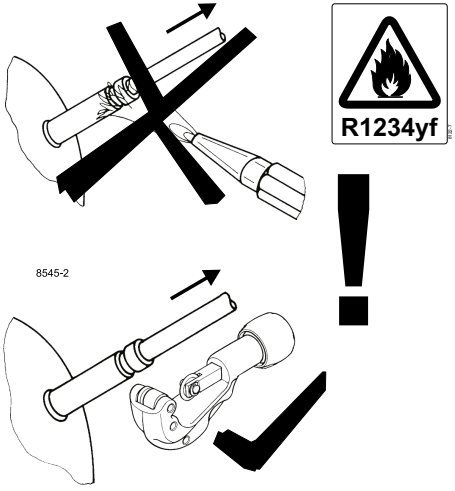

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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