Single
Packs

Single Pack NF9FX 220V 50Hz CSIR

Single pack code number: **195B4025**

Position	Title	Code	Amount
1	Compressor NF9FX	105G6841	1
2	Starting relay (overload protector MRP59EN-6)	117U4140	1
3	Starting capacitor (125µF 220V, 6.3mm)	117U5018	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
NF9FX

Sales code:
105G6841

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**400g / 14.11oz**
Weight	**10.50 kg / 23.15lbs**
Displacement	**8.34 cm3 / 0.51cu.in**
Compressors on pallet	**80**

General – Configurations With NF9FX

–	**Conf. 1**
Motor configuration	CSIR
Power supply (nominal)	220-230 V/50 Hz
Number of phases	1
Voltage range	198-242 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

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NF9FX

Sales code:
105G6841

Compressor Design

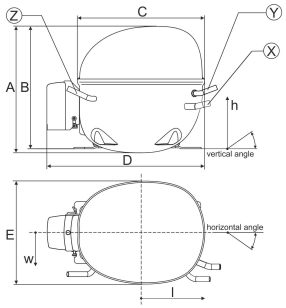
Oil type	**POE**	Winding resistance main	**6 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**12.6 Ohm**
Oil quantity	**268 / 9.06fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

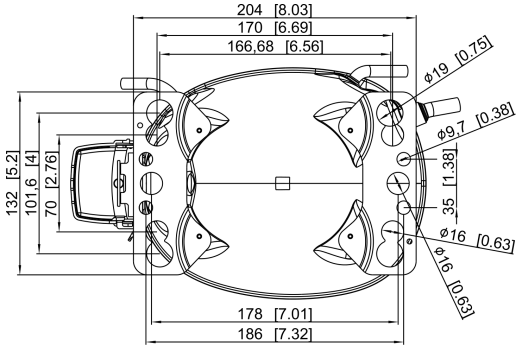
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



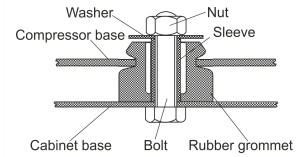
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

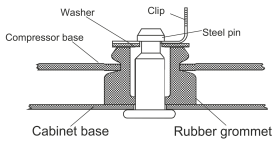


Dimensions in mm [in]

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
NF9FX Configuration 1

Sales code:
105G6841

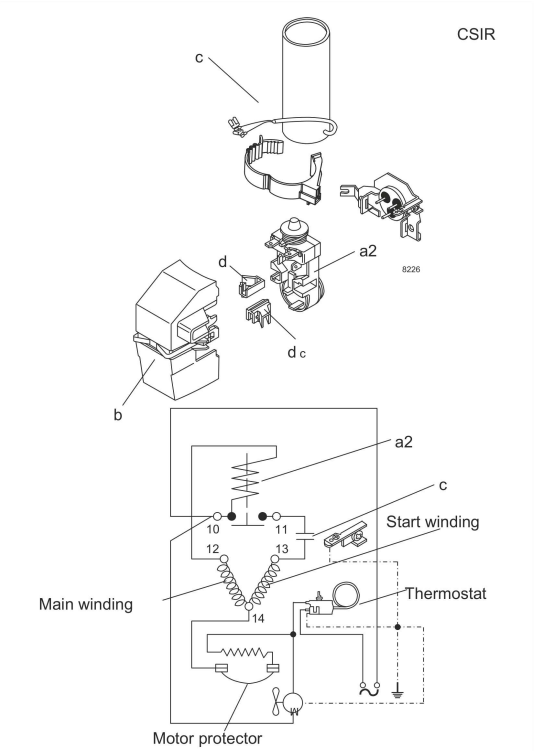
Configuration

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	**UL, 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 1,5m/s

Electrical Accessories / Wiring Diagram



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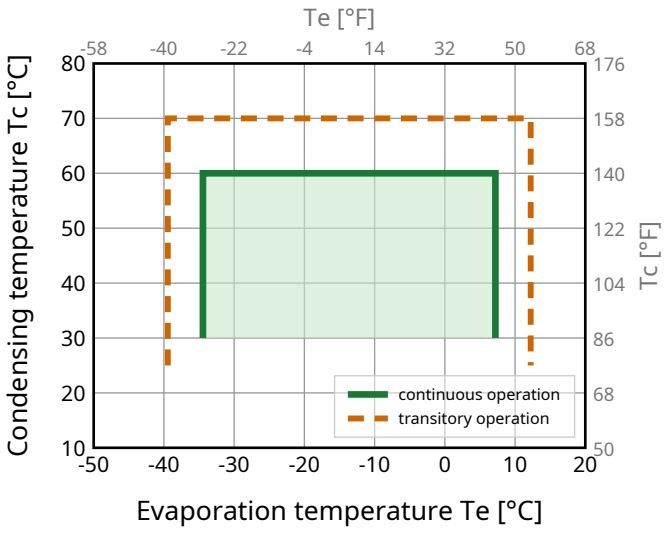
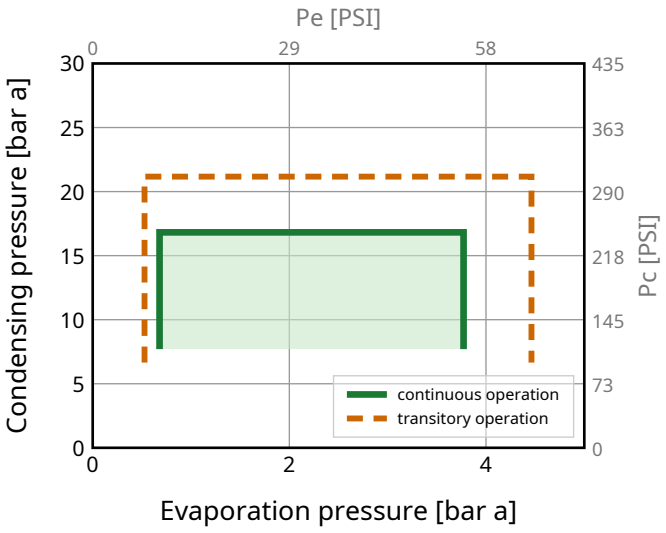
Components
a2 relay (protector: TI MRP59EN-6) 117U4140
c start capacitor 117U5018
b assy. terminal board 6.3mm 117U1024
d/dc cord relief 117U0349
d cord relief 117U0317

Alternative components
b plastic cover + clamp 117U1021

Operation Pressure Range





Model
NF9FX Configuration 1

Sales code:
105G6841

Standard Conditions

R134a, 220 V/50 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	**228**	779	196	**1.09**	3.73	209	1.83	4.43	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**168**	574	145	**0.84**	2.87	200	1.81	4.01	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**120**	411	104	**0.82**	2.79	147	1.72	2.63	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**475**	1621	408	**1.59**	5.43	298	2.04	10.34	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**368**	1257	317	**1.31**	4.48	281	2.00	8.89	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**416**	1419	358	**1.56**	5.33	266	1.94	9.70	**EN12900 MBP**

Performance Tables

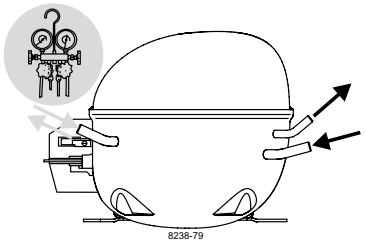
R134a, 220 V/50 Hz, CSIR, fan 1,5m/s

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	**113**	386	97	**0.76**	2.59	149	1.73	2.43
-30	-22	**152**	518	131	**0.88**	2.99	173	1.77	3.28
-20	-4	**264**	900	227	**1.20**	4.08	221	1.85	5.72
-10	14	**431**	1470	371	**1.62**	5.52	266	1.94	9.41
0	32	**666**	2273	573	**2.15**	7.33	310	2.04	14.70
7.2	45	**885**	3019	761	**2.60**	8.86	340	2.12	19.71

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

-35	-31	**92**	312	79	**0.62**	2.11	148	1.72	2.17
-30	-22	**125**	427	108	**0.72**	2.46	174	1.76	2.98
-20	-4	**222**	758	191	**0.98**	3.35	226	1.87	5.31
-10	14	**368**	1257	317	**1.31**	4.48	281	2.00	8.89
0	32	**577**	1969	496	**1.72**	5.85	336	2.16	14.07
7.2	45	**773**	2637	665	**2.05**	6.99	377	2.29	19.05



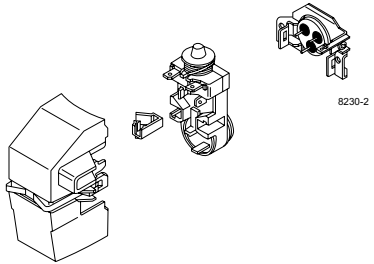
NF Compressors

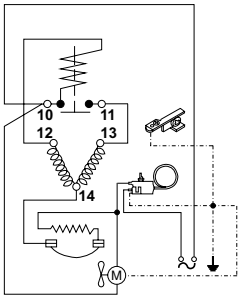
SECOP

Keep electrical equipment clear from oil, chemicals, and water

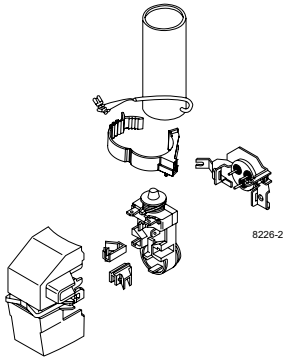
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

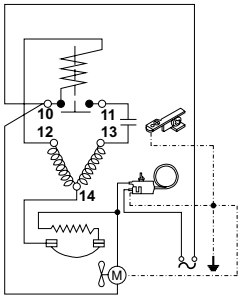
RSIR





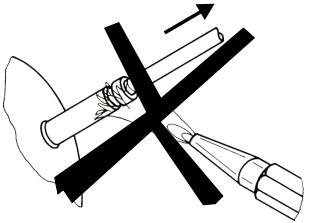
CSIR

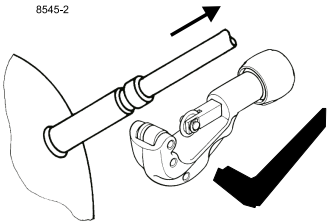


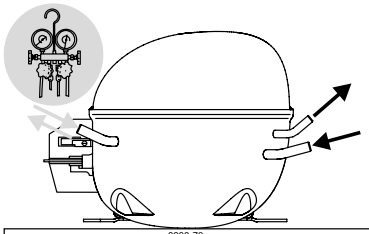


Service/Repair – R1234yf

(applies to all flammable refrigerants)







NF Compressors

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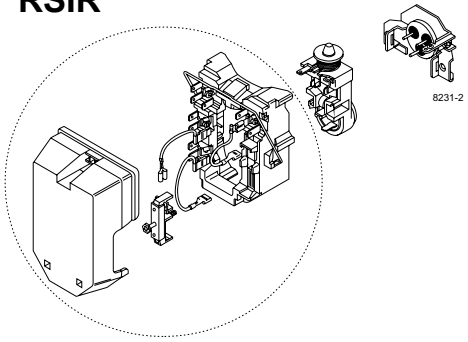
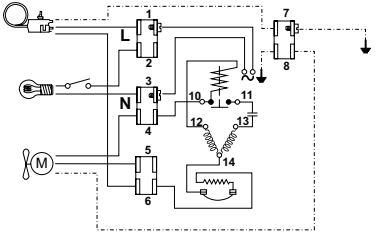
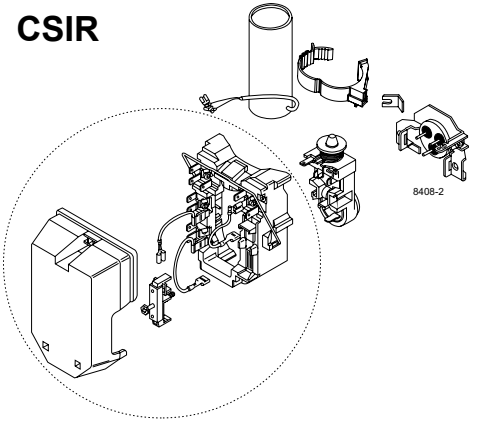
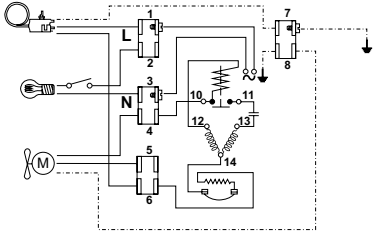




CSIR





Service/Repair – R1234yf

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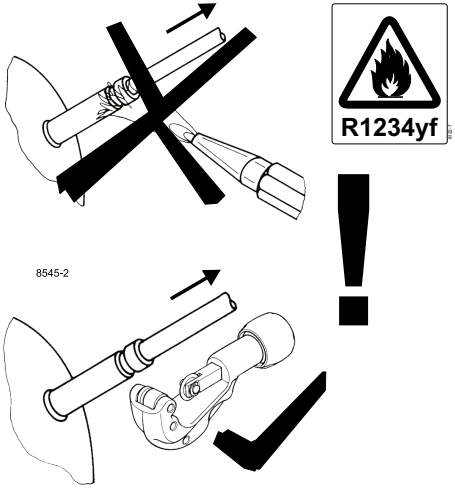

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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