Single
Packs

Single Pack NF6FK 115-127V 60Hz CSIR

Single pack code number: **195B4063**

Position	Title	Code	Amount
1	Compressor NF6FK	105G5645	1
2	Bolt joint for one compressor | M6 | ø16mm	118-1917	1
Below electrical equipment is pre-assembled on the compressor:			
3	Starting relay (overload protector MRT30AEZ-6)	117U4132	1
4	Starting capacitor (320µF 125V, 6.3mm)	117U5022	1
5	Cord relief	117U0349	2
6	Cover	117U1021	1

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Model
NF6FK

Sales code:
105G5645

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**400g / 14.11oz**
Weight	**10.50 kg / 23.15lbs**
Displacement	**6.13 cm3 / 0.37cu.in**
Compressors on pallet	**80**

General – Configurations With NF6FK

–	**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

- Electrical equipment is included and pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor

Model
NF6FK

Sales code:
105G5645

Compressor Design

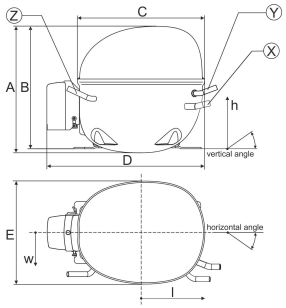
Oil type	**POE**	Winding resistance main	**2.04 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**9.13 Ohm**
Oil quantity	**268 / 9.06fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

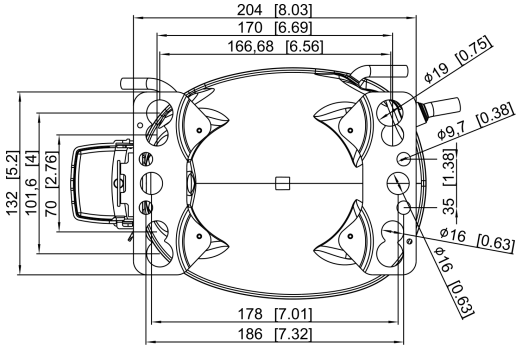
A Height	**197mm / 7.76in**
B Height	**191mm / 7.52in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



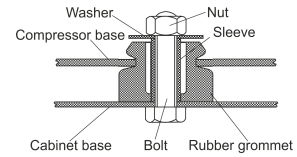
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

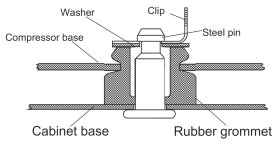


Dimensions in mm [in]

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
NF6FK Configuration 1

Sales code:
105G5645

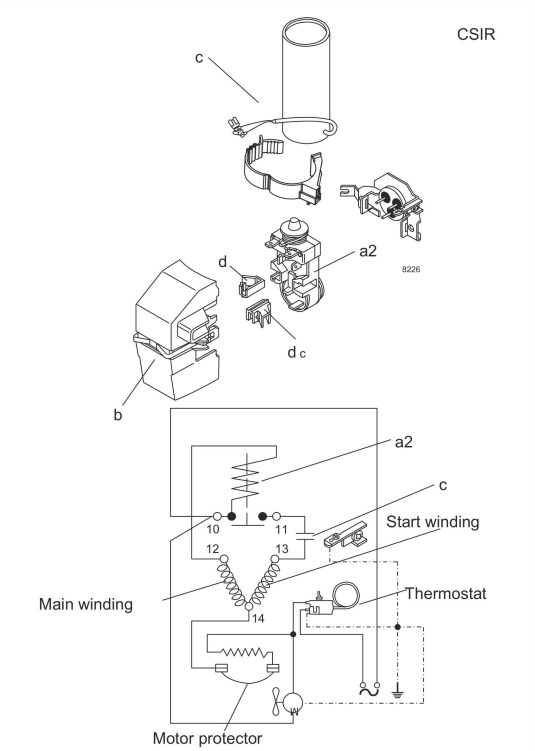
Configuration

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	**320 µF**
LRA (locked rotor amps / 4s/ U(N))	**24 A**
RLA (rated load amps / 1s/ U(N))	**3.6 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
static

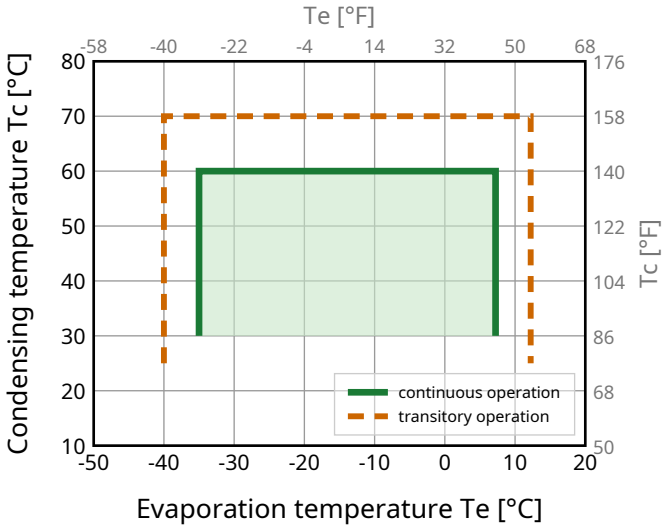
Electrical Accessories / Wiring Diagram

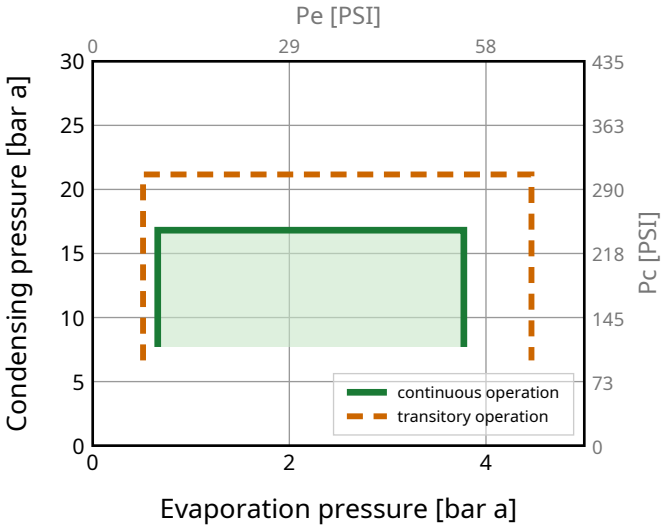


View full size

Components (already pre-assembled)
a2 current relay 117U4132
c start capacitor (320µF) 117U5022
b plastic cover + clamp 117U1021
d/dc cord relief 117U0349

Operation Pressure Range





Model Sales code:

NF6FK Configuration 1 **105G5645**

Standard Conditions

R134a, 115 V/60 Hz, CSIR, static

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	**196**	668	168	**1.14**	3.87	172	2.65	3.80	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**142**	486	123	**0.88**	3.00	162	2.60	3.40	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**97**	331	83	**0.89**	3.03	109	2.41	2.12	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**408**	1391	351	**1.57**	5.37	259	3.19	8.88	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**317**	1082	273	**1.30**	4.43	244	3.08	7.65	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**361**	1232	310	**1.57**	5.35	230	2.98	8.42	**EN12900 MBP**

Performance Tables

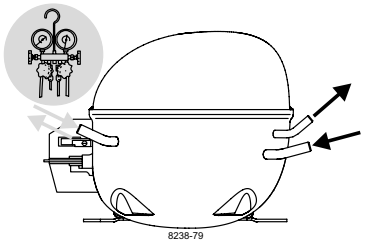
R134a, 115 V/60 Hz, CSIR, static

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	**87**	298	75	**0.82**	2.80	106	2.37	1.88
-30	-22	**127**	434	109	**0.94**	3.20	136	2.48	2.74
-20	-4	**230**	783	197	**1.23**	4.20	186	2.72	4.98
-10	14	**374**	1276	322	**1.62**	5.54	230	2.98	8.17
0	32	**574**	1957	493	**2.12**	7.22	271	3.27	12.65
7.2	45	**759**	2590	653	**2.52**	8.62	301	3.49	16.91

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

-35	-31	**63**	216	54	**0.67**	2.28	95	2.31	1.50
-30	-22	**100**	342	86	**0.77**	2.63	130	2.45	2.39
-20	-4	**192**	654	165	**1.00**	3.41	192	2.75	4.58
-10	14	**317**	1082	273	**1.30**	4.43	244	3.08	7.65
0	32	**490**	1673	422	**1.68**	5.74	291	3.44	11.96
7.2	45	**652**	2226	561	**2.01**	6.86	324	3.71	16.08



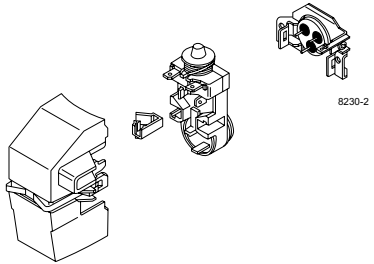
NF Compressors

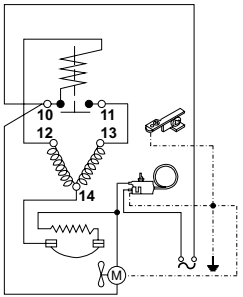
SECOP

Keep electrical equipment clear from oil, chemicals, and water

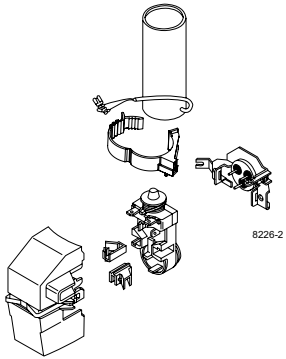
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

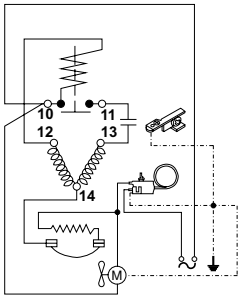
RSIR





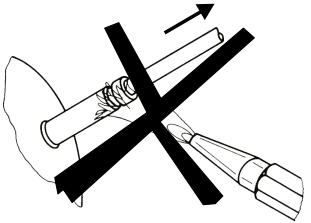
CSIR

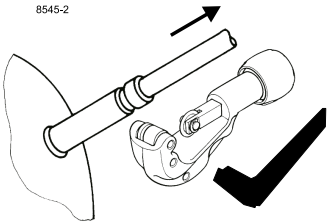


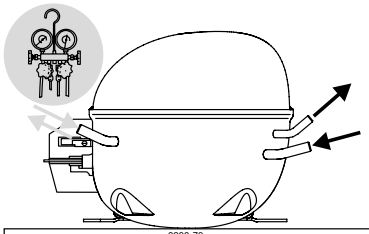


Service/Repair – R1234yf

(applies to all flammable refrigerants)







NF Compressors

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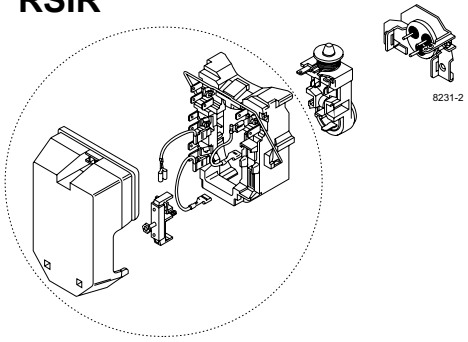

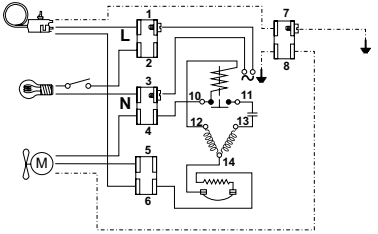

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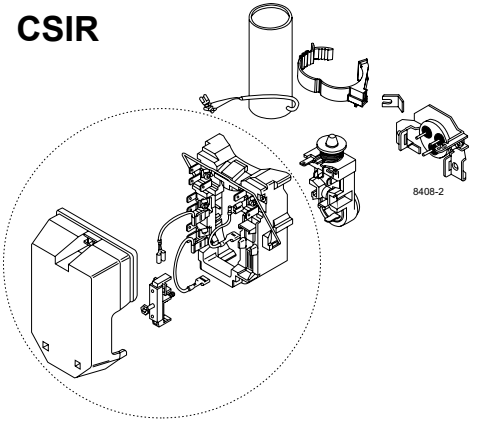

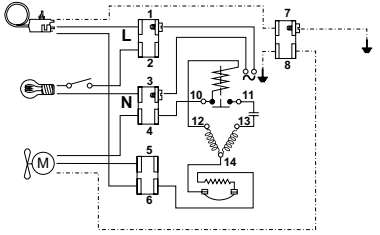

Service/Repair – R1234yf

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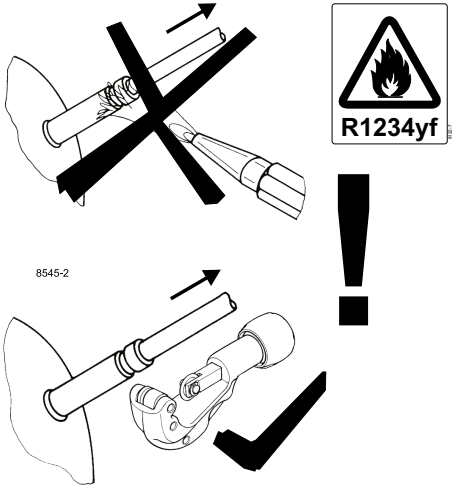

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be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