Single
Packs

Single Pack NF7FK 115-127V 60Hz RSIR

Single pack code number: **195B4011**

Position	Title	Code	Amount
1	Compressor NF7FK	105G5728	1
2	Starting relay (overload protector MRT30AEZ-6)	117U4131	1
3	Cord relief	117U0349	1
4	Cover	117U1021	1
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
NF7FK

Sales code:
105G5728

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**400g / 14.11oz**
Weight	**10.50 kg / 23.15lbs**
Displacement	**7.27 cm3 / 0.44cu.in**
Compressors on pallet	**80**

General – Configurations With NF7FK

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSIR	RSIR
Power supply (nominal)	115-127 V/60 Hz	115-127 V/60 Hz
Number of phases	1	1
Voltage range	95-135 V	95-135 V
Approvals	UL, EAC	UL, EAC
Starting torque	HST	LST
Refrigerant	R134a	R134a
Application	LBP+MBP	LBP+MBP
Long interval pull down	OK	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
NF7FK

Sales code:
105G5728

Compressor Design

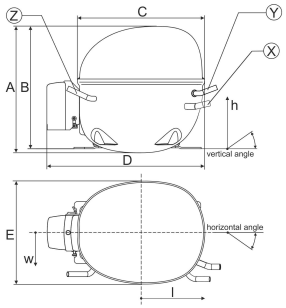
Oil type	**POE**	Winding resistance main	**2.04 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**9.13 Ohm**
Oil quantity	**268 / 9.06fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

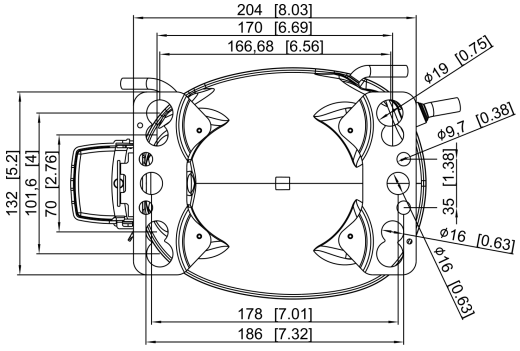
A Height	**197mm / 7.76in**
B Height	**191mm / 7.52in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



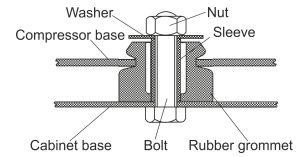
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

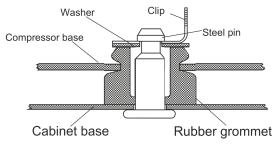


Dimensions in mm [in]

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
NF7FK Configuration 1

Sales code:
105G5728

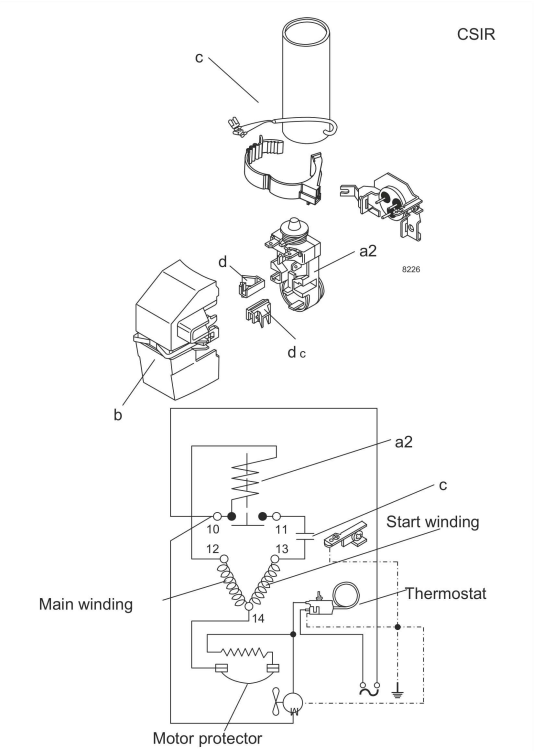
Configuration

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	**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

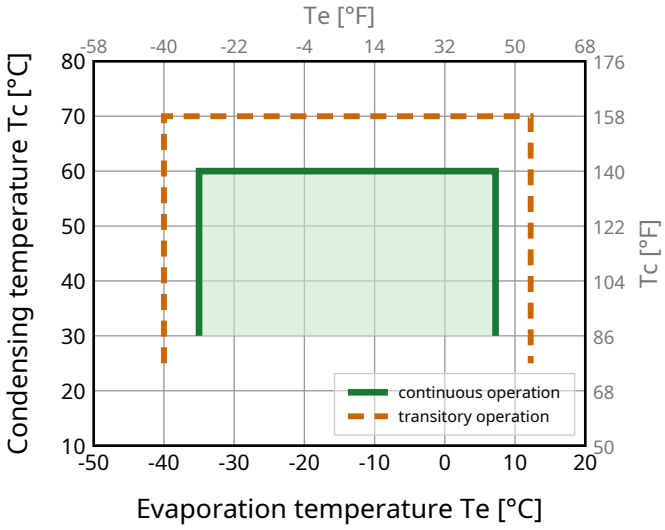
Electrical Accessories / Wiring Diagram

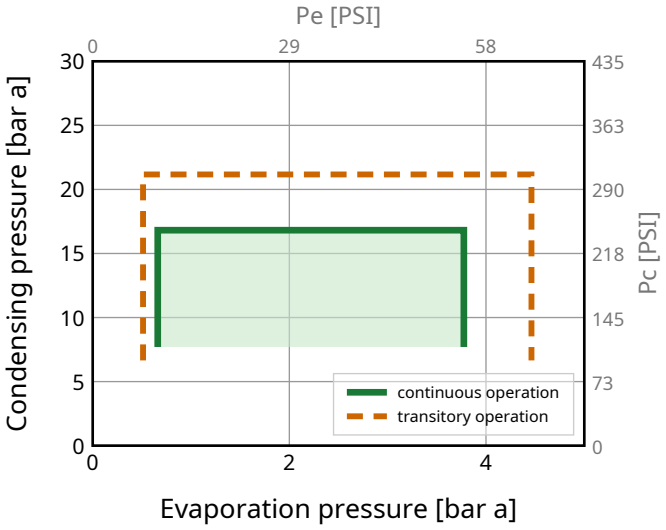


View full size

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:

NF7FK Configuration 1 **105G5728**

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	**244**	833	210	**1.20**	4.09	204	2.87	4.74	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**180**	614	155	**0.93**	3.17	194	2.82	4.29	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**120**	408	103	**0.98**	3.34	122	2.52	2.62	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**486**	1660	418	**1.60**	5.47	303	3.45	10.59	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**380**	1298	327	**1.33**	4.55	285	3.34	9.17	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**424**	1446	364	**1.59**	5.41	267	3.20	9.88	**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	**112**	381	96	**0.92**	3.15	121	2.50	2.41
-30	-22	**156**	534	135	**1.02**	3.48	153	2.63	3.38
-20	-4	**273**	931	235	**1.28**	4.37	213	2.90	5.92
-10	14	**439**	1497	377	**1.64**	5.61	267	3.20	9.58
0	32	**672**	2291	578	**2.11**	7.19	319	3.53	14.82
7.2	45	**890**	3036	765	**2.50**	8.53	356	3.78	19.83

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

-35	-31	**91**	309	78	**0.71**	2.43	127	2.50	2.15
-30	-22	**132**	451	114	**0.82**	2.80	161	2.66	3.15
-20	-4	**236**	805	203	**1.05**	3.57	225	2.98	5.64
-10	14	**380**	1298	327	**1.33**	4.55	285	3.34	9.17
0	32	**583**	1989	501	**1.70**	5.78	344	3.72	14.21
7.2	45	**774**	2641	666	**2.00**	6.82	387	4.01	19.08

Model
NF7FK Configuration 2

Sales code:
105G5728

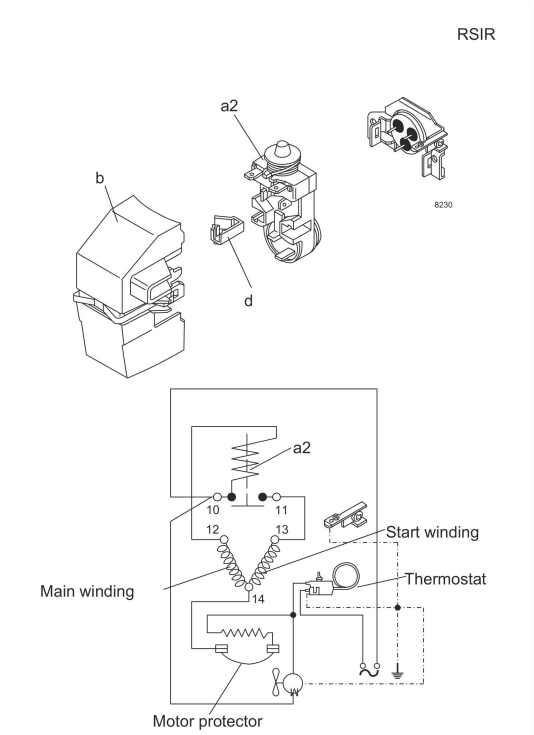
Configuration

Motor configuration	**RSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
Voltage range	**95-135 V**
Starting torque	**LST**
Approvals	**UL, EAC**
Starting device type	**PTC**
Run capacitor	**-/-**
Start capacitor	**-/-**
RLA (rated load amps / 1s/ U(N))	**-/-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



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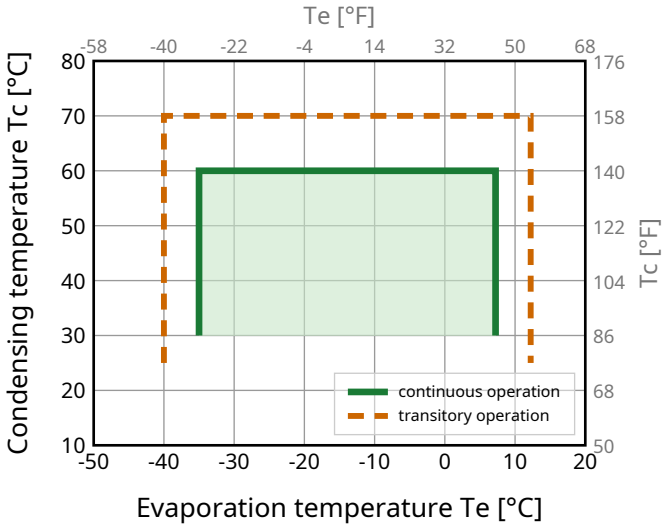
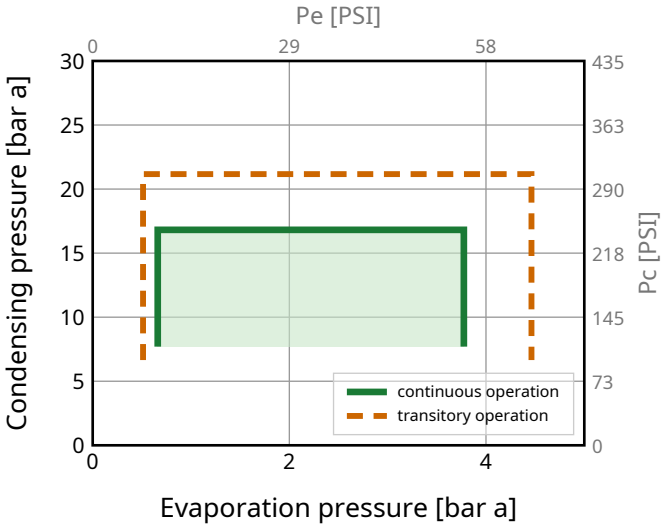
Components (already pre-assembled)
starter kit 117U4131
b plastic cover + clamp 117U1021
d/dc cord relief 117U0349

Operation Pressure Range





Model
NF7FK Configuration 2

Sales code:
105G5728

Standard Conditions

R134a, 115 V/60 Hz, RSIR, 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]	
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-10 14	45 113	20 68	45 113	**424**	1446	364	**1.59**	5.41	267	3.20	9.88	**EN12900 MBP**

Performance Tables

R134a, 115 V/60 Hz, RSIR, 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]
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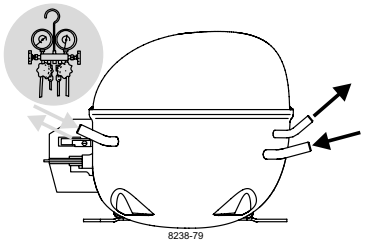


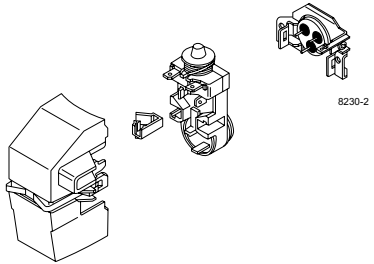
NF Compressors

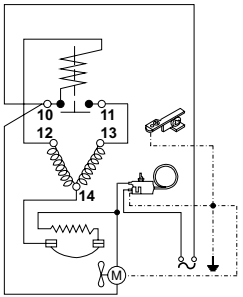
SECOP

Keep electrical equipment clear from oil, chemicals, and water

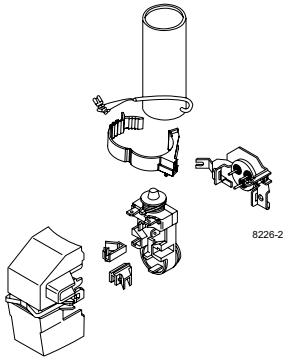
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

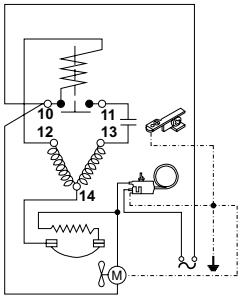
RSIR





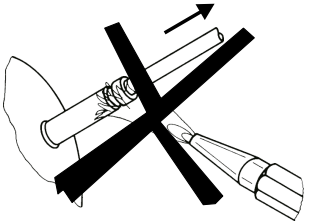
CSIR

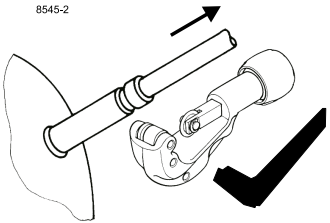


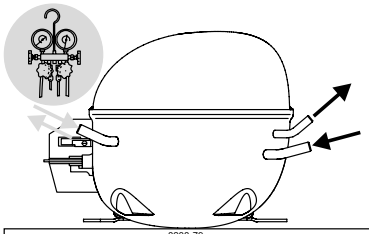


Service/Repair – R1234yf

(applies to all flammable refrigerants)







NF Compressors

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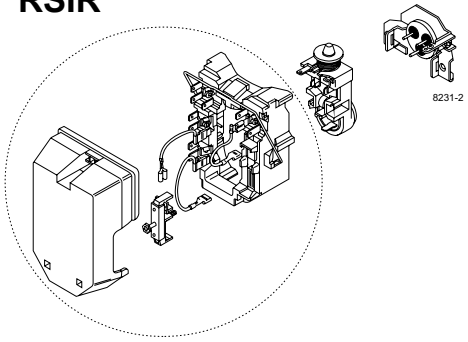
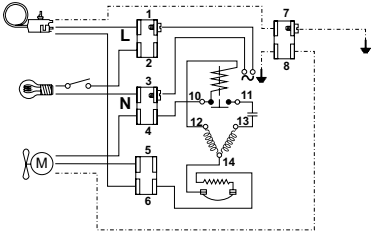
RSIR





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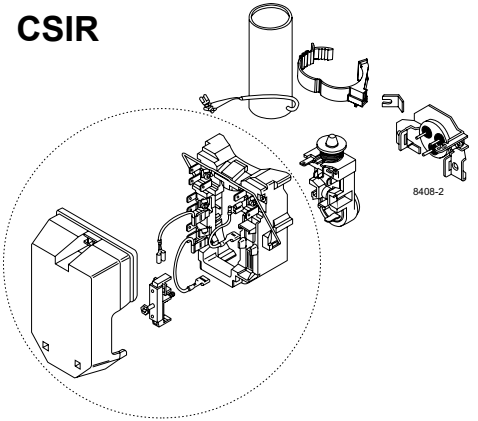
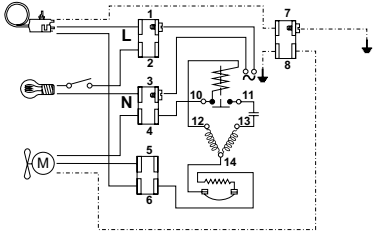
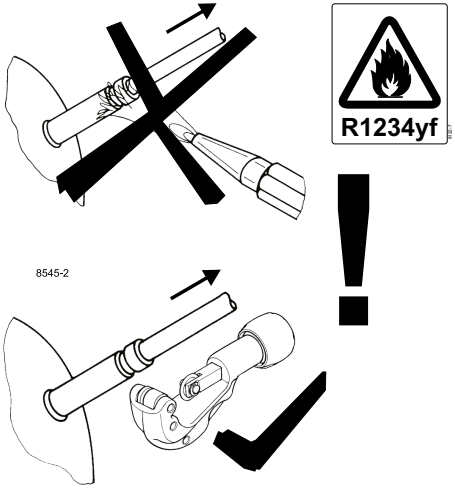




Service/Repair – R1234yf

(applies to all flammable refrigerants)



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**