Single
Packs

Single Pack NF11FX.2 115-127V 60Hz CSIR

Single pack code number: **195B4538**

Position	Title	Code	Amount
1	Compressor NF11FX.2	105G5916	1
2	Starting relay (overload protector MRT16ADK-6)	117U4151	1
3	Starting capacitor (410µF 125V, 6.3mm)	117U5028	1
4	Cord relief	117U0349	1
5	Cover	117U1021	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
NF11FX.2

Sales code:
105G5916

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**400g / 14.11oz**
Weight	**10.00 kg / 22.05lbs**
Displacement	**11.25 cm3 / 0.69cu.in**
Compressors on pallet	**80**

General – Configurations With NF11FX.2

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSIR	CSIR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1
Voltage range	95-135 V	95-135 V
Approvals	UL, EAC	UL
Starting torque	HST	HST
Refrigerant	R134a	R513A
Application	MBP	MBP
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Application Notes

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

Model
NF11FX.2

Sales code:
105G5916

Compressor Design

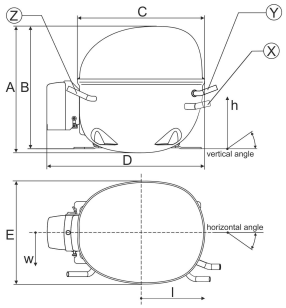
Oil type	**POE**	Winding resistance main	**1 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**2.9 Ohm**
Oil quantity	**298 / 10.08fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

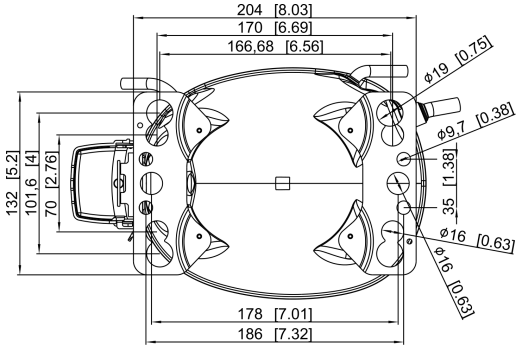
A Height	**203mm / 7.99in**
B Height	**197mm / 7.76in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



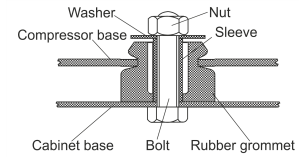
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

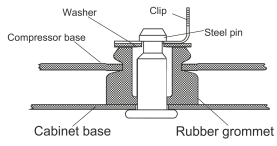


Dimensions in mm [in]

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.2 Configuration 1

Sales code:
105G5916

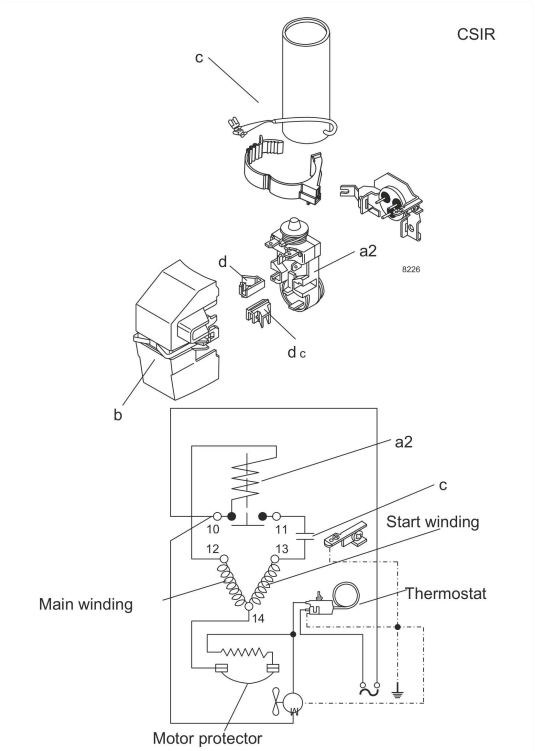
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**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))	**40 A**
RLA (rated load amps / 1s/ U(N))	**7 A**
Cut in current (U(N))	**40 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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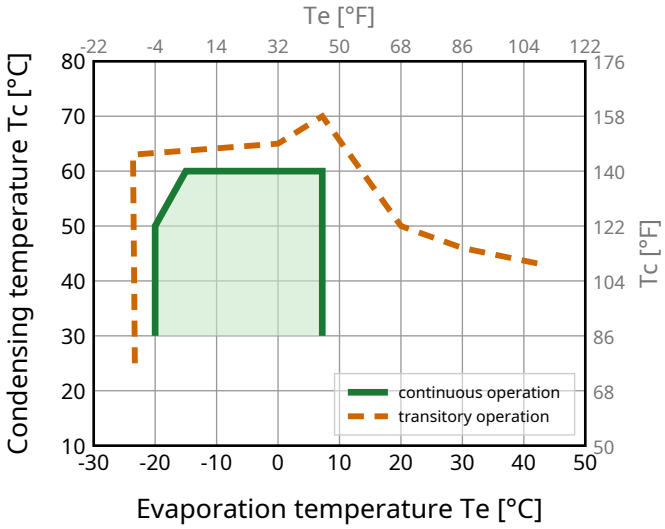
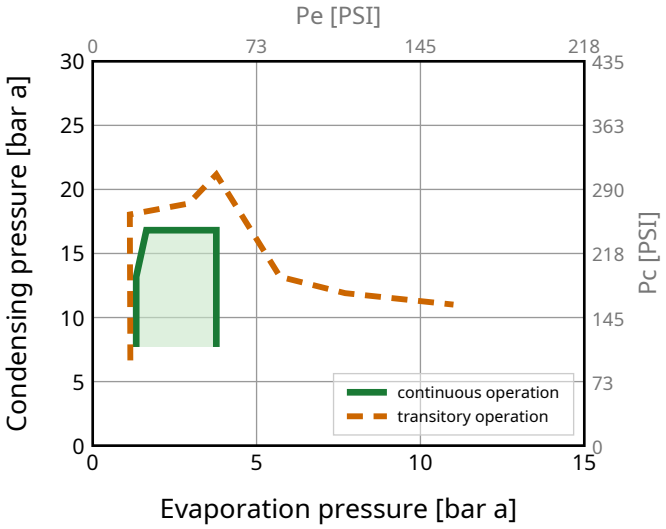
Components
a2 assy. Relay (TI MRT16ADK-6) 117U4151
c start capacitor (410µF) 117U5028
b plastic cover + clamp 117U1021
d/dc cord relief 117U0349

Operation Pressure Range





Model

NF11FX.2 Configuration 1

Sales code:

105G5916

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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**382**	1302	328	**1.16**	3.94	330	5.21	7.41	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**278**	948	239	**0.89**	3.02	314	5.14	6.63	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**187**	639	161	**0.78**	2.67	239	4.88	4.10	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**794**	2708	683	**1.65**	5.61	483	6.02	17.29	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**618**	2108	531	**1.36**	4.65	453	5.84	14.90	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**697**	2377	599	**1.62**	5.52	430	5.70	16.24	**EN12900 MBP**

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]
-20	-4	**449**	1531	386	**1.26**	4.31	355	5.28	9.73
-15	5	**575**	1962	494	**1.47**	5.00	392	5.48	12.51
-10	14	**722**	2462	620	**1.68**	5.72	430	5.70	15.76
-5	23	**890**	3037	766	**1.90**	6.47	470	5.95	19.53
0	32	**1083**	3695	931	**2.12**	7.22	512	6.22	23.89
5	41	**1302**	4441	1119	**2.33**	7.95	559	6.52	28.91
7.2	45	**1406**	4799	1210	**2.42**	8.26	581	6.66	31.34

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

-20	-4	**373**	1271	320	**1.03**	3.52	361	5.35	8.91
-15	5	**485**	1656	417	**1.19**	4.07	407	5.58	11.65
-10	14	**618**	2108	531	**1.36**	4.65	453	5.84	14.90
-5	23	**772**	2635	664	**1.54**	5.26	500	6.13	18.72
0	32	**950**	3243	817	**1.73**	5.89	550	6.44	23.17
5	41	**1154**	3937	992	**1.91**	6.52	604	6.78	28.35
7.2	45	**1252**	4273	1077	**1.99**	6.79	629	6.94	30.87

Model
NF11FX.2 Configuration 2

Sales code:
105G5916

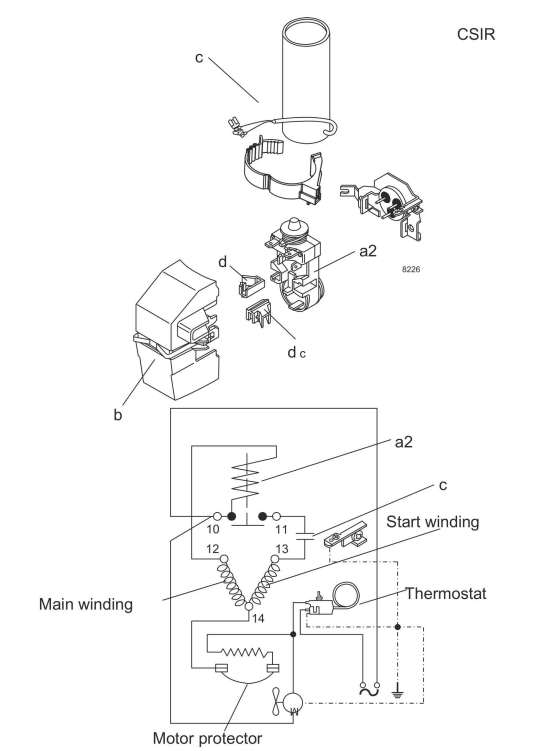
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115 V/60 Hz 1~**
Refrigerant	**R513A**
Application	**MBP**
Voltage range	**95-135 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**410 µF**
LRA (locked rotor amps / 4s/ U(N))	**40 A**
RLA (rated load amps / 1s/ U(N))	**7 A**
Cut in current (U(N))	**40 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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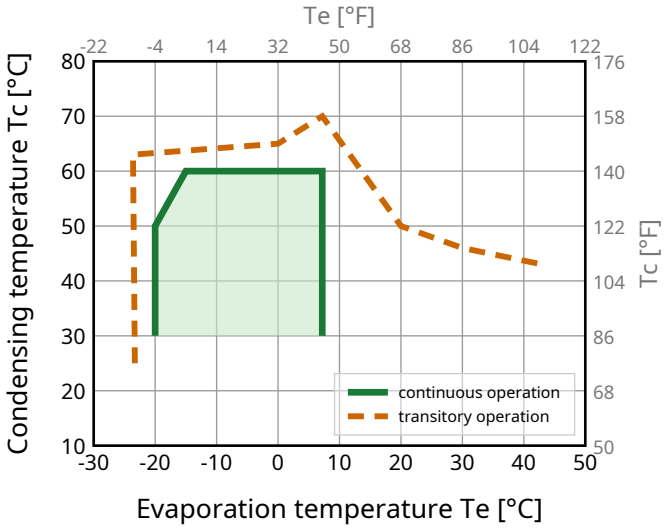
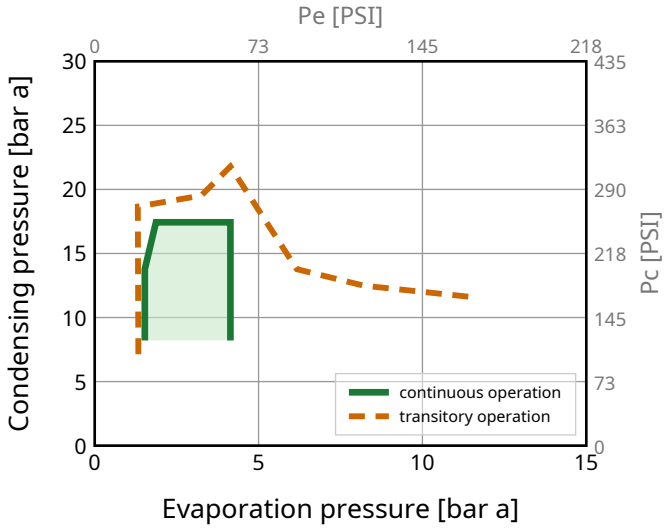
Components
a2 assy. Relay (TI MRT16ADK-6) 117U4151
c start capacitor (410µF) 117U5028
b plastic cover + clamp 117U1021
d/dc cord relief 117U0349

Operation Pressure Range





Model

NF11FX.2 Configuration 2

Sales code:

105G5916

Standard Conditions

R513A, 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**423**	1445	364	**1.17**	3.97	364	5.35	9.27	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**302**	1029	259	**0.87**	2.96	347	5.26	8.35	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**212**	722	182	**0.79**	2.69	268	4.80	5.32	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**833**	2844	717	**1.62**	5.53	514	6.23	20.78	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**642**	2191	552	**1.32**	4.51	486	6.06	18.01	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**725**	2474	624	**1.58**	5.38	460	5.91	19.63	**EN12900 MBP**

Performance Tables

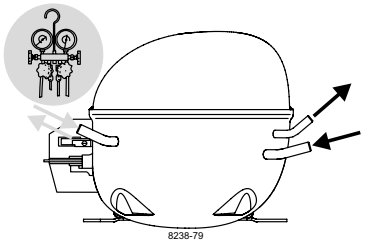
R513A, 115 V/60 Hz, CSIR, fan 3m/s

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]
-20	-4	**483**	1649	416	**1.25**	4.28	385	5.48	12.00
-15	5	**612**	2089	527	**1.45**	4.95	422	5.69	15.26
-10	14	**761**	2596	654	**1.66**	5.65	460	5.91	19.04
-5	23	**930**	3175	800	**1.87**	6.37	498	6.13	23.42
0	32	**1123**	3832	966	**2.08**	7.09	540	6.38	28.45
5	41	**1341**	4574	1153	**2.29**	7.80	586	6.64	34.22
7.2	45	**1445**	4929	1242	**2.37**	8.10	608	6.77	37.01

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

-20	-4	**397**	1355	342	**1.01**	3.44	394	5.53	11.04
-15	5	**510**	1740	439	**1.16**	3.95	440	5.80	14.24
-10	14	**642**	2191	552	**1.32**	4.51	486	6.06	18.01
-5	23	**795**	2712	683	**1.49**	5.09	532	6.33	22.43
0	32	**970**	3309	834	**1.67**	5.69	581	6.62	27.57
5	41	**1169**	3989	1005	**1.84**	6.28	634	6.92	33.52
7.2	45	**1265**	4315	1088	**1.92**	6.54	660	7.07	36.43



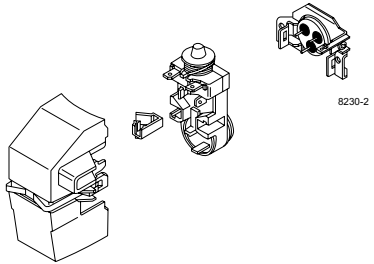
NF Compressors

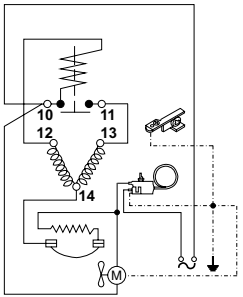
SECOP

Keep electrical equipment clear from oil, chemicals, and water

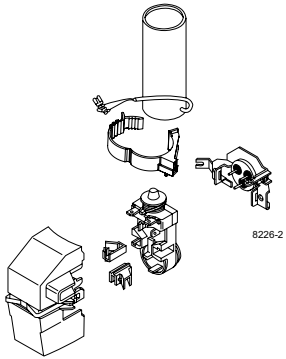
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

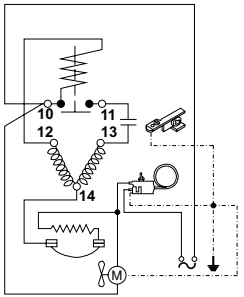
RSIR





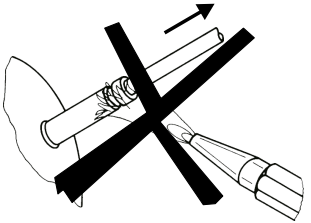
CSIR

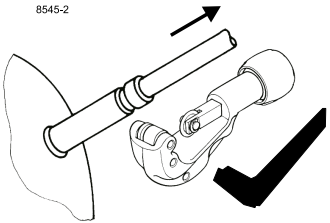


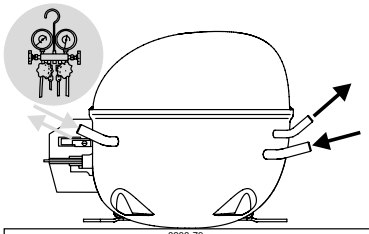


Service/Repair – R1234yf

(applies to all flammable refrigerants)







NF Compressors

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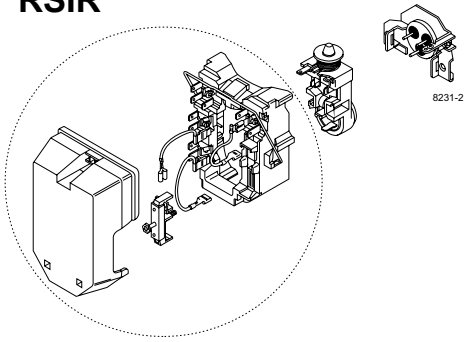
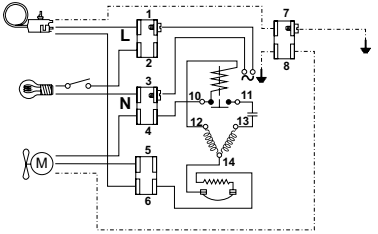
RSIR





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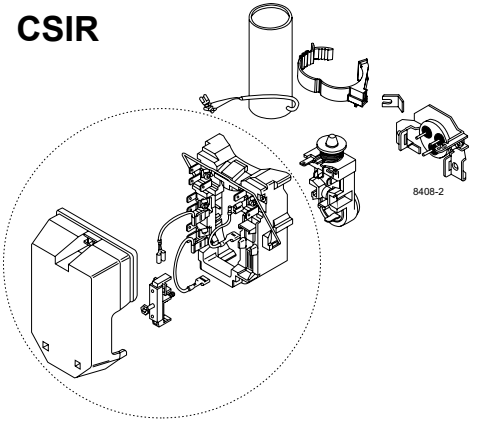
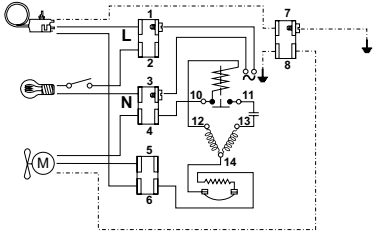
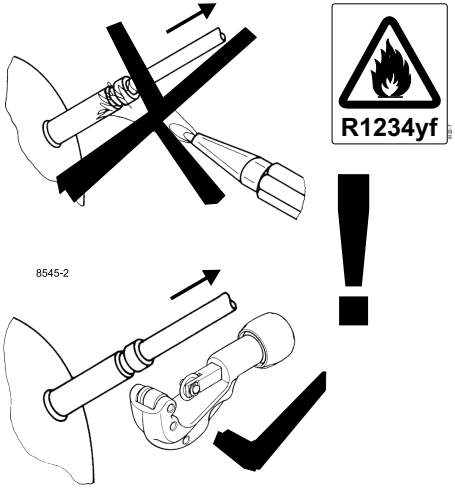




Service/Repair – R1234yf

(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**