Single
Packs

Single Pack NF5.5FX 115-127V 60Hz CSIR

Single pack code number: **195B4156**

Position	Title	Code	Amount
1	Compressor NF5.5FX	105G5623	1
2	Starting relay (overload protector MRP36AEN-6)	117U4127	1
3	Starting capacitor (280µF 125V, 6.3mm)	117U5025	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
NF5.5FX

Sales code:
105G5623

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**500g / 17.64oz**
Weight	**10.00 kg / 22.05lbs**
Displacement	**6.13 cm3 / 0.37cu.in**
Compressors on pallet	**80**

General – Configurations With NF5.5FX

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSIR	CSIR
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	HST
Refrigerant	R134a	R513A
Application	LBP+MBP	LBP+MBP
Long interval pull down	OK	OK

Application Notes

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

Model
NF5.5FX

Sales code:
105G5623

Compressor Design

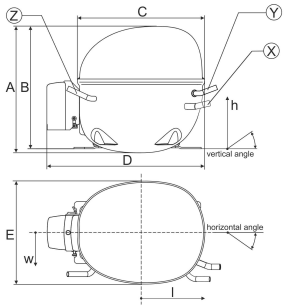
Oil type	**POE**	Winding resistance main	**2.1 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**3.5 Ohm**
Oil quantity	**268 / 9.06fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

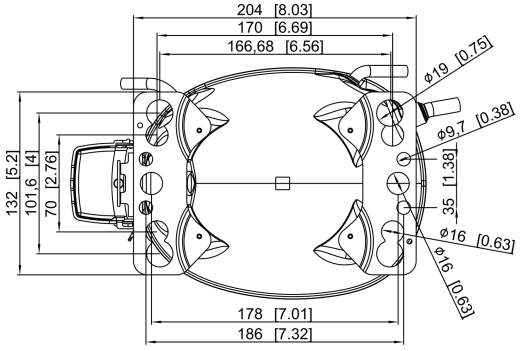
A Height	**197mm / 7.76in**
B Height	**191mm / 7.52in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



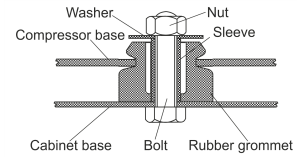
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

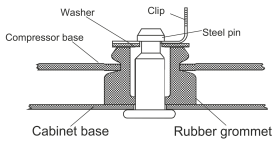


Dimensions in mm [in]

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
NF5.5FX Configuration 1

Sales code:
105G5623

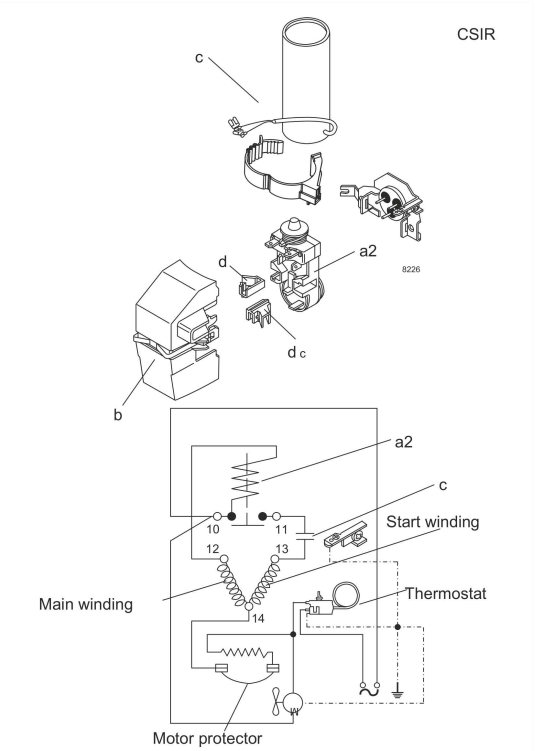
Configuration

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	**280 µF**
LRA (locked rotor amps / 4s/ U(N))	**22.2 A**
RLA (rated load amps / 1s/ U(N))	**3.7 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 1,5m/s

Electrical Accessories / Wiring Diagram



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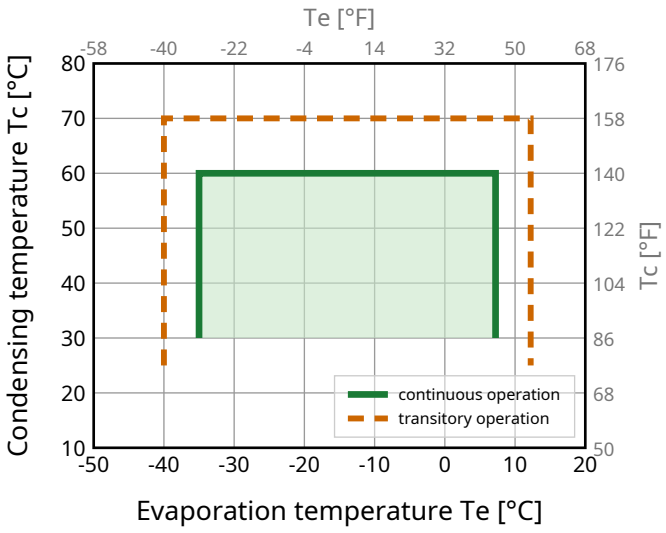
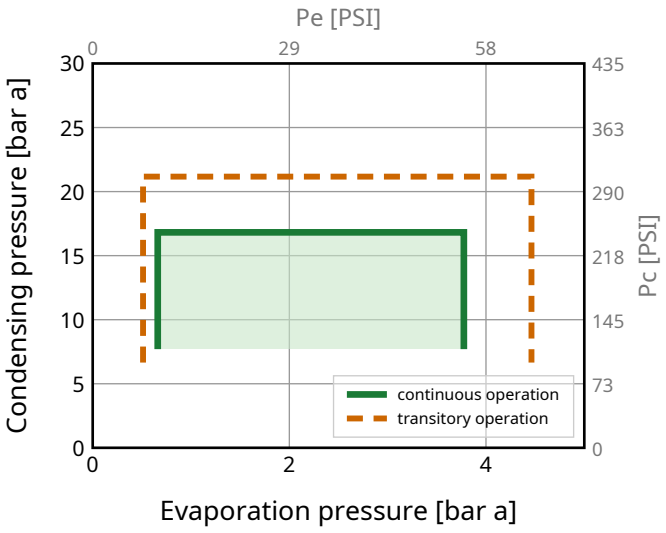
Components
a2 current relay (MRP36AEN-6) 117U4127
c start capacitor (280µF) 117U5025
b plastic cover + clamp 117U1021
d/dc cord relief 117U0349

Alternative components
a2 current relay (MRP36AEN-6) 117U4157
c start capacitor (280µF) 117U5074

Operation Pressure Range





Model
NF5.5FX Configuration 1

Sales code:
105G5623

Standard Conditions

R134a, 115 V/60 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	**204**	696	175	**1.21**	4.12	169	2.50	3.96	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**148**	506	128	**0.94**	3.19	159	2.45	3.54	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**101**	345	87	**0.95**	3.23	107	2.26	2.21	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**425**	1449	365	**1.67**	5.69	254	3.04	9.25	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**330**	1127	284	**1.38**	4.71	240	2.93	7.96	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**376**	1283	323	**1.67**	5.68	226	2.83	8.77	**EN12900 MBP**

Performance Tables

R134a, 115 V/60 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	**91**	310	78	**0.88**	2.99	104	2.22	1.96
-30	-22	**132**	452	114	**1.00**	3.41	132	2.33	2.86
-20	-4	**239**	816	206	**1.31**	4.47	183	2.57	5.19
-10	14	**390**	1329	335	**1.72**	5.88	226	2.83	8.51
0	32	**598**	2039	514	**2.25**	7.66	266	3.12	13.18
7.2	45	**791**	2698	680	**2.68**	9.14	295	3.34	17.62

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

-35	-31	**66**	225	57	**0.71**	2.43	92	2.16	1.57
-30	-22	**104**	357	90	**0.82**	2.80	127	2.30	2.49
-20	-4	**200**	681	172	**1.06**	3.63	188	2.60	4.77
-10	14	**330**	1127	284	**1.38**	4.71	240	2.93	7.96
0	32	**511**	1743	439	**1.79**	6.09	286	3.29	12.46
7.2	45	**680**	2318	584	**2.13**	7.28	318	3.56	16.75

Model
NF5.5FX Configuration 2

Sales code:
105G5623

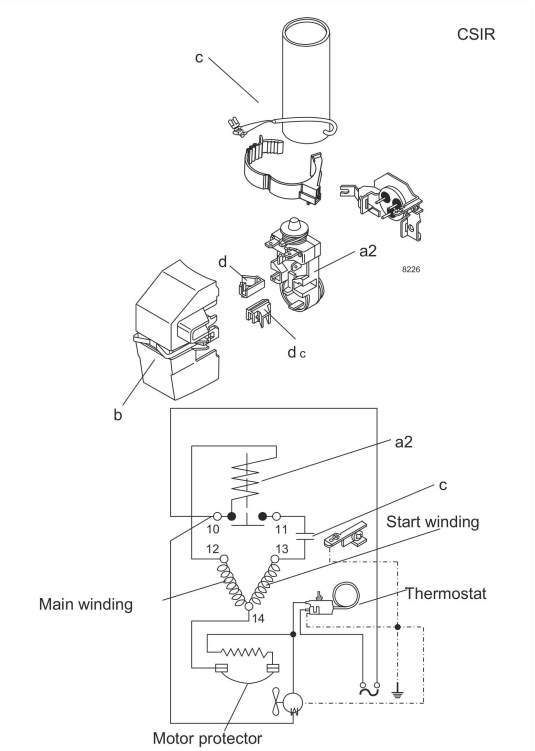
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP**
Voltage range	**95-135 V**
Starting torque	**HST**
Approvals	**UL, EAC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**280 µF**
LRA (locked rotor amps / 4s/ U(N))	**22.2 A**
RLA (rated load amps / 1s/ U(N))	**3.7 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 1,5m/s

Electrical Accessories / Wiring Diagram



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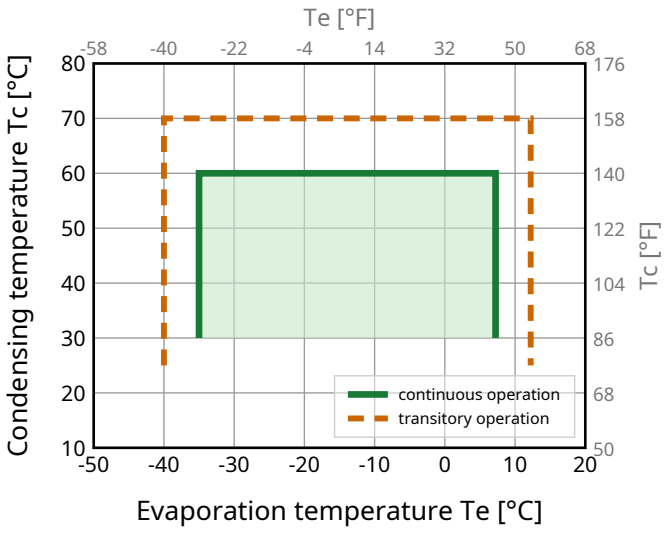
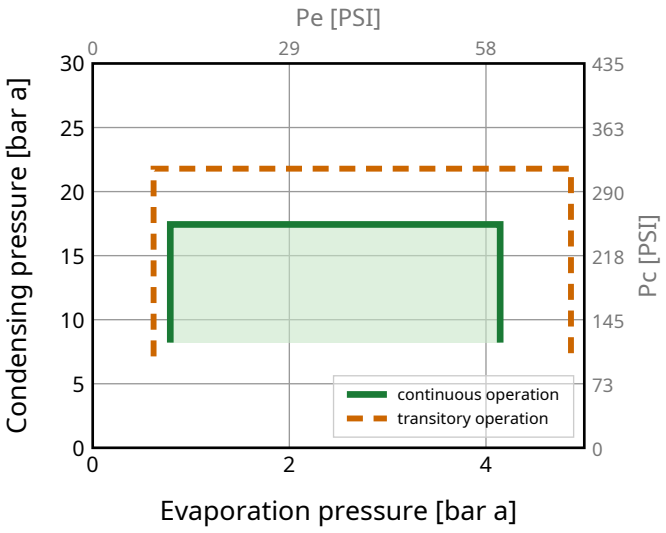
Components
a2 current relay (MRP36AEN-6) 117U4127
c start capacitor (280µF) 117U5025
b plastic cover + clamp 117U1021
d/dc cord relief 117U0349

Alternative components
a2 current relay (MRP36AEN-6) 117U4157
c start capacitor (280µF) 117U5074

Operation Pressure Range





Model

NF5.5FX Configuration 2

Sales code:

105G5623

Standard Conditions

R513A, 115 V/60 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	**225**	766	193	**1.23**	4.21	182	3.00	4.92	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**160**	545	137	**0.93**	3.17	172	2.96	4.42	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**113**	385	97	**0.98**	3.33	116	2.75	2.83	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**446**	1520	383	**1.66**	5.65	269	3.45	11.11	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**343**	1169	295	**1.35**	4.60	254	3.36	9.61	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**391**	1334	336	**1.63**	5.58	239	3.28	10.59	**EN12900 MBP**

Performance Tables

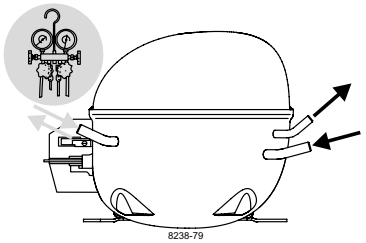
R513A, 115 V/60 Hz, CSIR, fan 1,5m/s

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	**103**	350	88	**0.91**	3.10	113	2.74	2.53
-30	-22	**146**	499	126	**1.02**	3.48	143	2.84	3.61
-20	-4	**257**	877	221	**1.31**	4.48	196	3.06	6.38
-10	14	**410**	1400	353	**1.71**	5.85	239	3.28	10.27
0	32	**620**	2115	533	**2.22**	7.57	279	3.52	15.70
7.2	45	**813**	2773	699	**2.64**	9.01	308	3.70	20.82

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

-35	-31	**75**	255	64	**0.74**	2.51	102	2.69	2.06
-30	-22	**115**	391	99	**0.83**	2.83	138	2.82	3.16
-20	-4	**212**	722	182	**1.05**	3.58	202	3.09	5.88
-10	14	**343**	1169	295	**1.35**	4.60	254	3.36	9.61
0	32	**521**	1778	448	**1.73**	5.92	300	3.65	14.82
7.2	45	**687**	2343	591	**2.07**	7.05	332	3.87	19.78



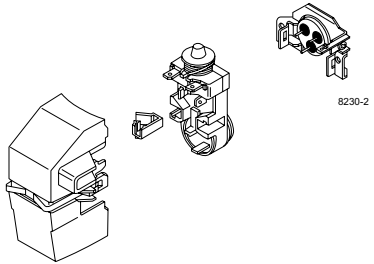
NF Compressors

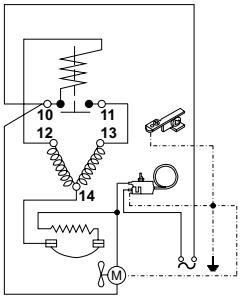
SECOP

Keep electrical equipment clear from oil, chemicals, and water

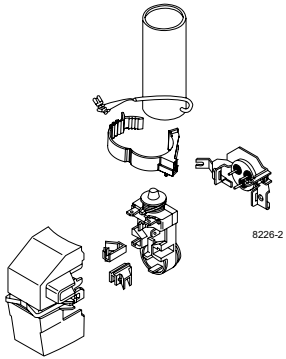
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

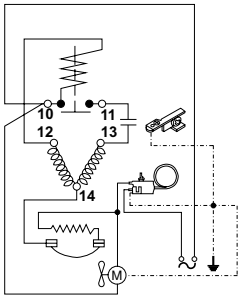
RSIR





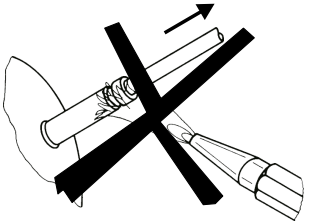
CSIR

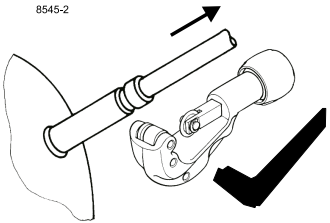


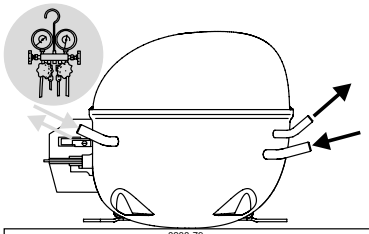


Service/Repair – R1234yf

(applies to all flammable refrigerants)







NF Compressors

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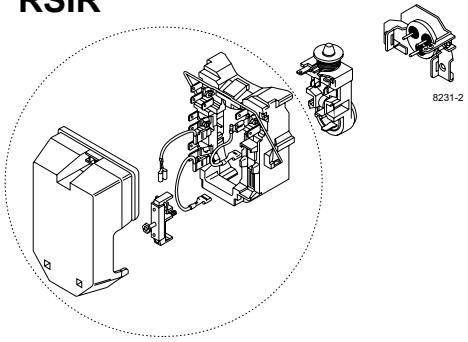
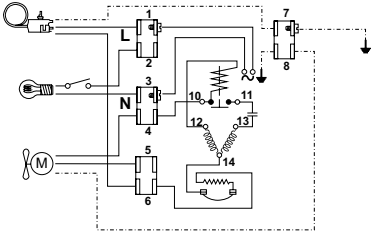
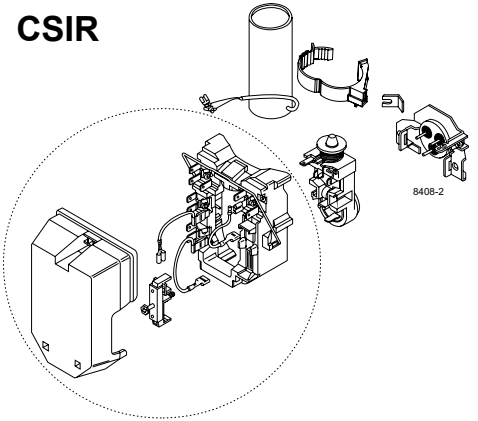
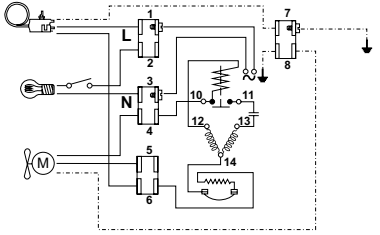
RSIR





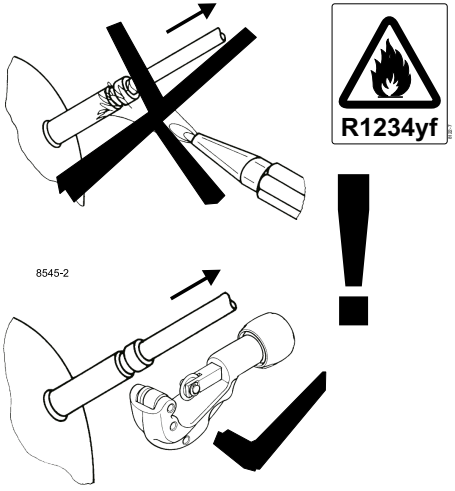
CSIR





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**