Single
Packs

Single Pack NF7.3FX.2 115-127V 60Hz CSIR

Single pack code number: **195B4403**

Position	Title	Code	Amount
1	Compressor NF7.3FX.2	105G5722	1
2	Starting relay (overload protector MRP30AEN-6, T0772/06)	117U4061	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
NF7.3FX.2

Sales code:
105G5722

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**400g / 14.11oz**
Weight	**10.00 kg / 22.05lbs**
Displacement	**7.27 cm3 / 0.44cu.in**
Compressors on pallet	**80**

General – Configurations With NF7.3FX.2

–	**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
NF7.3FX.2

Sales code:
105G5722

Compressor Design

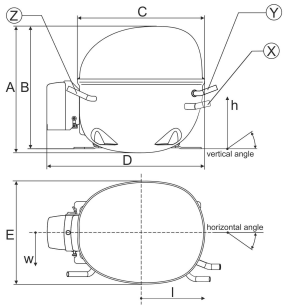
Oil type	**POE**	Winding resistance main	**1.7 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**6.2 Ohm**
Oil quantity	**268 / 9.06fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**2,360 cm3 / 79.80fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

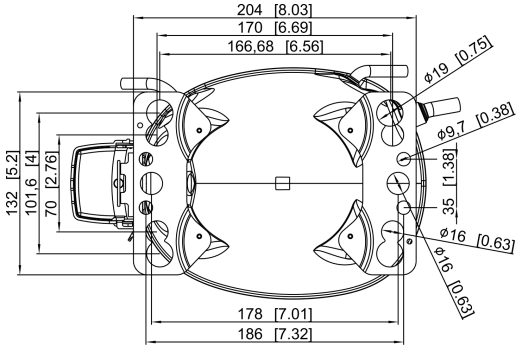
A Height	**197mm / 7.76in**
B Height	**191mm / 7.52in**
C Length shell	**205mm / 8.07in**
D Length w. cover	**254mm / 10.00in**
E Width	**166mm / 6.54in**

Find 3D Model here



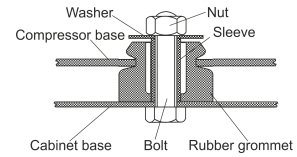
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	15°	35°	155°
Position l/h/w [mm]	125.5/75.5/78 / 4.94/2.97/3.07in	133/102.5/54 / 5.24/4.04/2.13in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

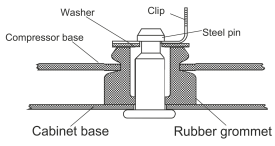


Dimensions in mm [in]

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
NF7.3FX.2 Configuration 1

Sales code:
105G5722

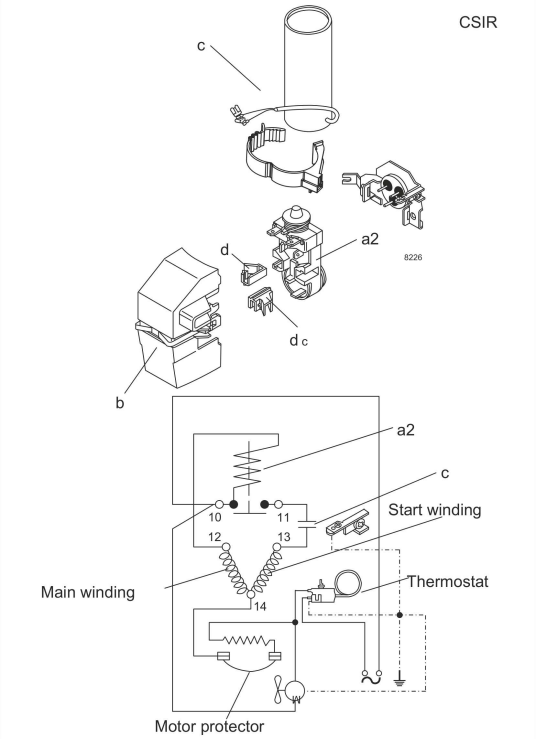
Configuration

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**

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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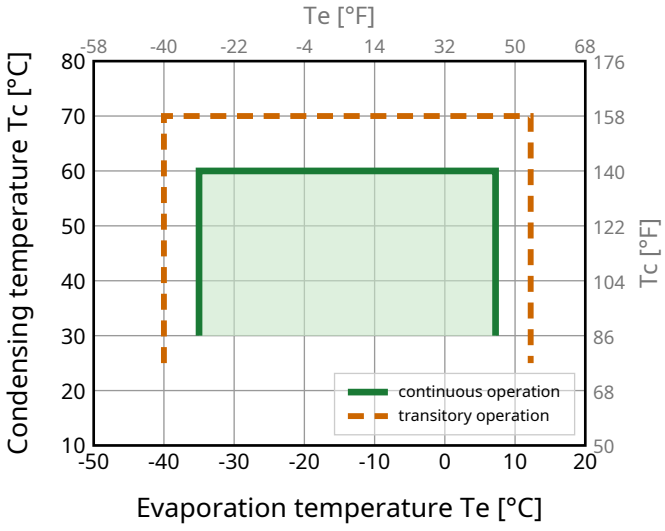
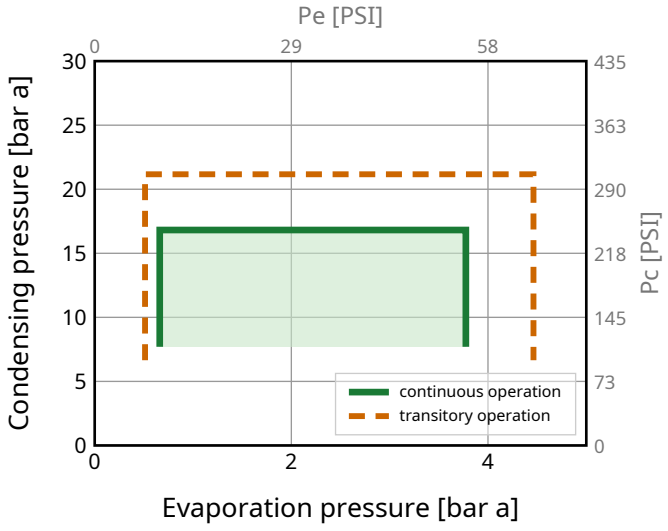
Components
a2 relay (protector: TI MRP30AEN-6) 117U4061
c start capacitor (280µF) 117U5025
b plastic cover + clamp 117U1021
d/dc cord relief 117U0349

Alternative components
b assy. terminal board 6.3mm 117U1024

Operation Pressure Range





Model

NF7.3FX.2 Configuration 1

Sales code:

105G5722

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	**262**	893	225	**1.16**	3.95	226	3.57	5.08	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**190**	649	164	**0.88**	3.01	216	3.53	4.54	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**128**	436	110	**0.76**	2.58	169	3.35	2.79	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**547**	1867	471	**1.70**	5.80	322	4.11	11.91	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**426**	1452	366	**1.40**	4.79	303	4.00	10.26	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**480**	1638	413	**1.66**	5.67	289	3.90	11.19	**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	**117**	400	101	**0.71**	2.43	164	3.34	2.52
-30	-22	**170**	581	147	**0.89**	3.03	192	3.41	3.68
-20	-4	**308**	1052	265	**1.28**	4.35	242	3.62	6.69
-10	14	**497**	1696	428	**1.72**	5.87	289	3.90	10.86
0	32	**747**	2549	643	**2.20**	7.49	340	4.25	16.49
7.2	45	**971**	3313	835	**2.53**	8.64	383	4.54	21.64

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

-35	-31	**91**	312	79	**0.61**	2.07	151	3.31	2.17
-30	-22	**136**	464	117	**0.74**	2.51	184	3.41	3.23
-20	-4	**256**	873	220	**1.04**	3.56	246	3.67	6.12
-10	14	**426**	1452	366	**1.40**	4.79	303	4.00	10.26
0	32	**656**	2237	564	**1.80**	6.14	364	4.40	15.98
7.2	45	**864**	2949	743	**2.09**	7.13	414	4.73	21.31

Model
NF7.3FX.2 Configuration 2

Sales code:
105G5722

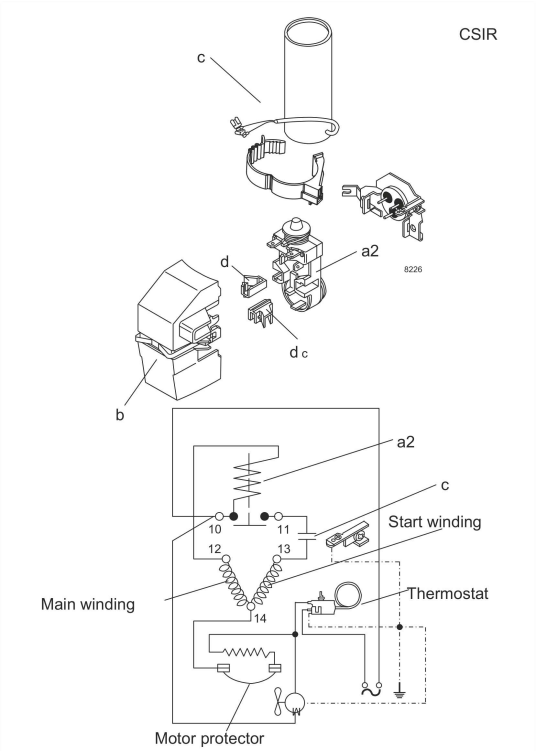
Configuration

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**

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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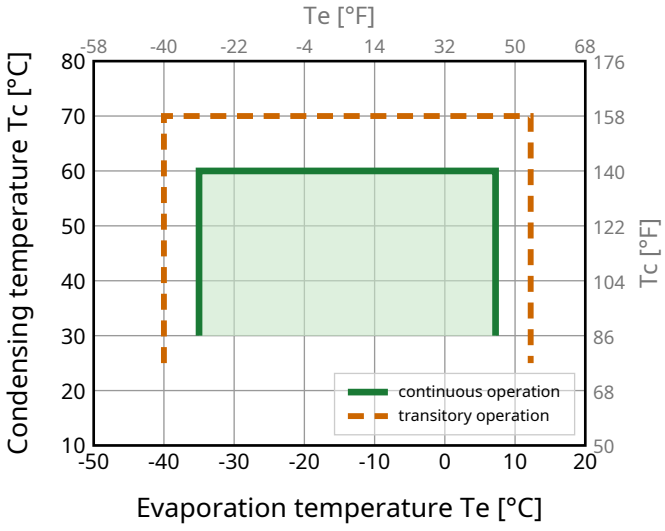
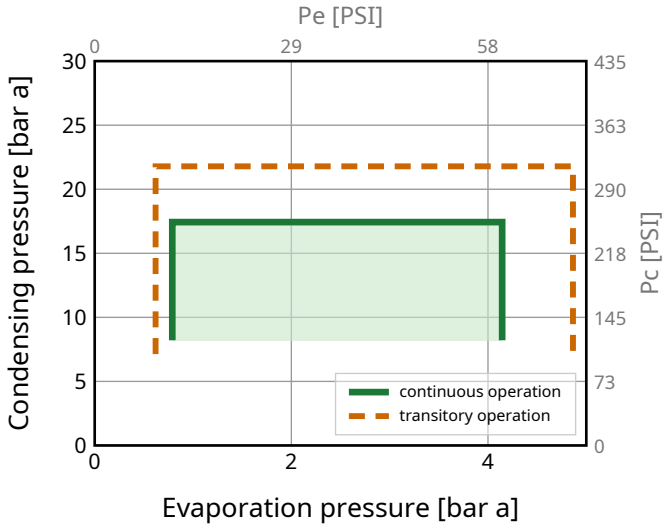
Components
a2 relay (protector: TI MRP30AEN-6) 117U4061
c start capacitor (280µF) 117U5025
b plastic cover + clamp 117U1021
d/dc cord relief 117U0349

Alternative components
b assy. terminal board 6.3mm 117U1024

Operation Pressure Range





Model

NF7.3FX.2 Configuration 2

Sales code:

105G5722

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	**288**	984	248	**1.18**	4.03	244	3.88	6.31	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**205**	699	176	**0.88**	2.99	234	3.81	5.67	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**142**	485	122	**0.78**	2.65	183	3.68	3.57	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**574**	1957	493	**1.69**	5.75	340	4.40	14.30	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**441**	1506	380	**1.37**	4.67	322	4.30	12.38	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**499**	1703	429	**1.63**	5.57	306	4.20	13.52	**EN12900 MBP**

Performance Tables

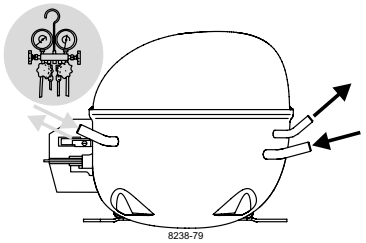
R513A, 115 V/60 Hz, CSIR, fan 1,5m/s

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	**132**	449	113	**0.74**	2.52	178	3.62	3.24
-30	-22	**188**	641	162	**0.91**	3.09	208	3.76	4.64
-20	-4	**331**	1130	285	**1.28**	4.37	259	3.99	8.22
-10	14	**524**	1787	450	**1.71**	5.84	306	4.20	13.11
0	32	**775**	2644	666	**2.17**	7.41	357	4.47	19.63
7.2	45	**998**	3405	858	**2.50**	8.52	400	4.74	25.57

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

-35	-31	**103**	350	88	**0.62**	2.12	166	3.39	2.83
-30	-22	**149**	508	128	**0.74**	2.52	201	3.62	4.11
-20	-4	**271**	926	233	**1.03**	3.50	264	3.99	7.54
-10	14	**441**	1506	380	**1.37**	4.67	322	4.30	12.38
0	32	**669**	2282	575	**1.75**	5.97	382	4.65	19.01
7.2	45	**874**	2980	751	**2.02**	6.91	431	4.95	25.16



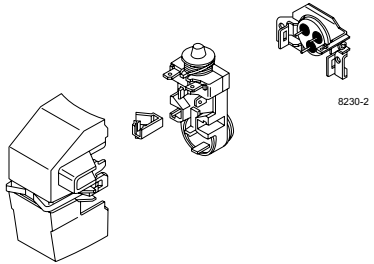
NF Compressors

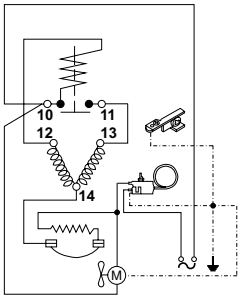
SECOP

Keep electrical equipment clear from oil, chemicals, and water

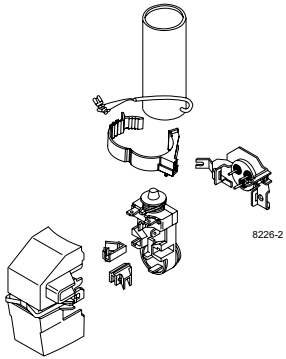
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

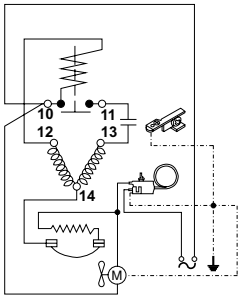
RSIR





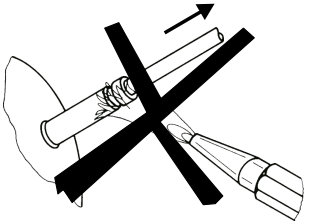
CSIR

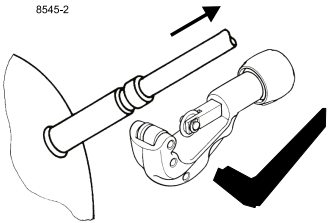


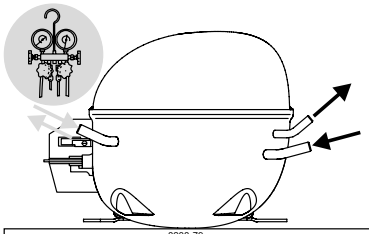


Service/Repair – R1234yf

(applies to all flammable refrigerants)







NF Compressors

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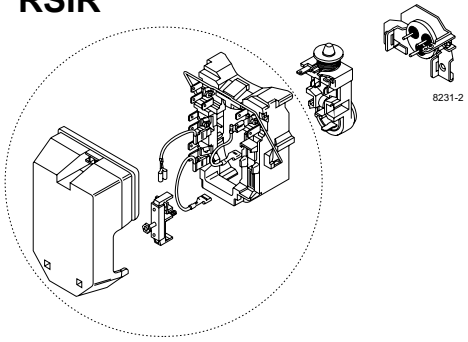
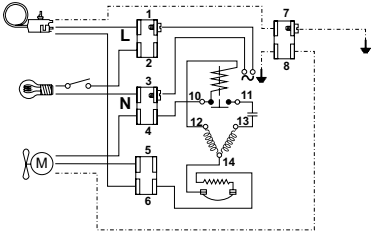
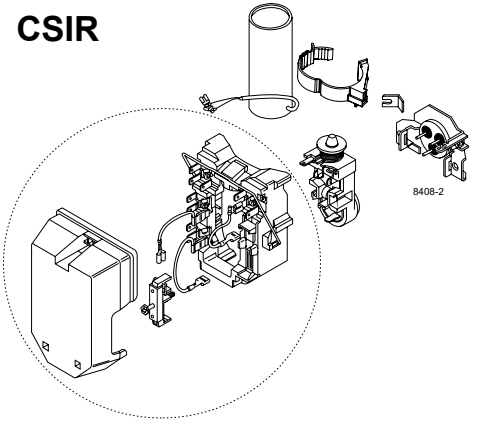
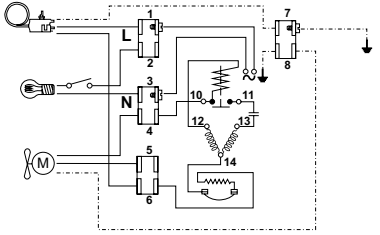
RSIR





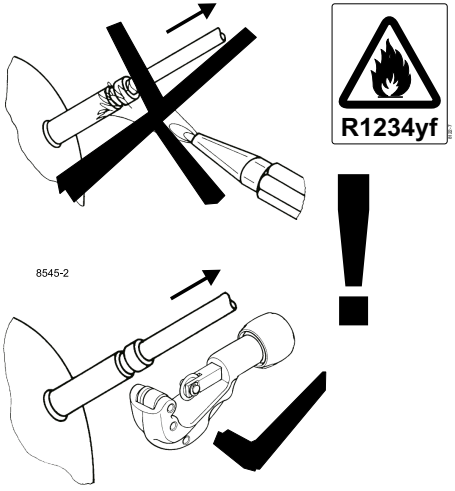
CSIR





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**