Single
Packs

Single Pack KLE5.6GFHX 115-127V 60Hz CSIR

Single pack code number: **195B4812**

Position	Title	Code	Amount
1	Compressor KLE5.6GFHX	106G6603	1
2	Starting relay (QLZ-11.6A, overload protector T1248/L6)	117U7083	1
3	Starting capacitor (240µF 125V, 6.3mm)	117U5002	1
4	KL accessories	103N1060	1
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

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Model
KLE5.6GFHX

Sales code:
106G6603

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**300g / 10.58oz**
Weight	**9.50 kg / 20.94lbs**
Displacement	**5.60 cm3 / 0.34cu.in**
Compressors on pallet	**100**

General – Configurations With KLE5.6GFHX

–	**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	95-140 V	95-140 V
Approvals	UL	UL
Starting torque	HST	HST
Refrigerant	R134a	R513A
Application	LBP+MBP+HBP	LBP+MBP+HBP
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Application Notes

- Recommanded voltage range for HBP is 103-140 V/60 Hz
- Provision for PE Grounding is located at the PE Stamp on the compressor
- Suctiongas connector and Process connector can be switched (minor loss of cooling capacity)
- Good robustness against liquid intake.
- Ice-cube maker optimization - indirect suction intake.

Model
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Sales code:
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Compressor Design

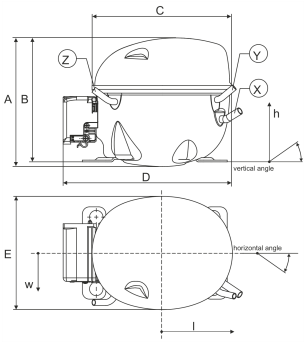
Oil type	**POE**	Winding resistance main	**10.7 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**17 Ohm**
Oil quantity	**200 cm3 / 6.76fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,605 cm3 / 54.27fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

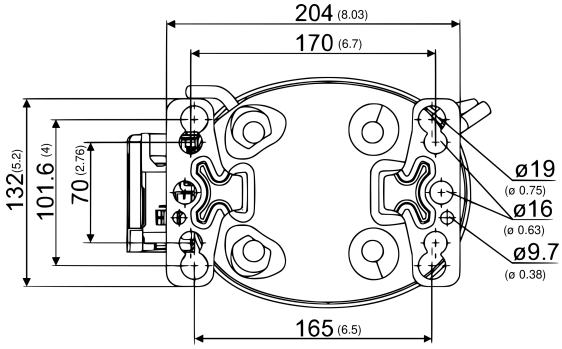
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



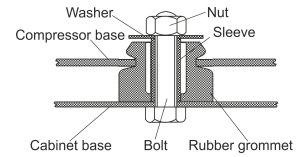
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71 / -3.46/3.98/2.80in
Straight tube l. [mm]	13.5 / 0.53in	13.5 / 0.53in	13.5 / 0.53in

Mounting Accessories

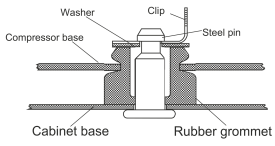


Dimensions in mm [in]

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
KLE5.6GFHX Configuration 1

Sales code:
106G6603

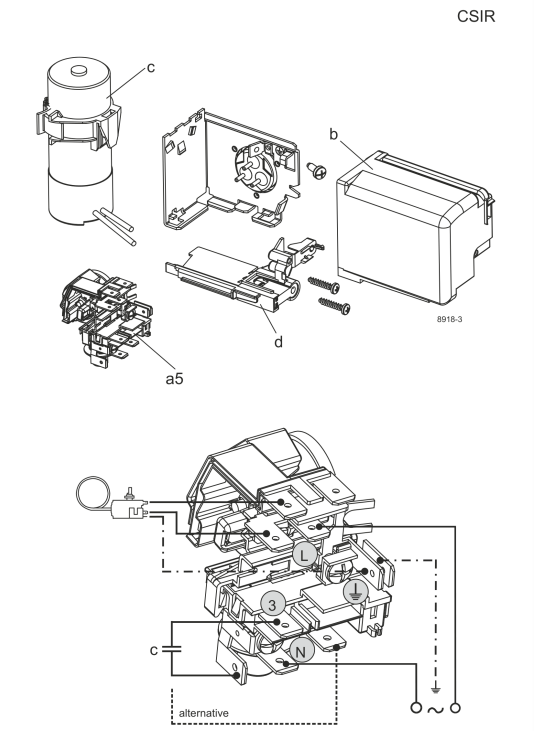
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP+HBP**
Voltage range	**95-140 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**240 µF**
LRA (locked rotor amps / 4s/ U(N))	**31.1 A**
RLA (rated load amps / 1s/ U(N))	**4.3 A**
Cut in current (U(N))	**31.5 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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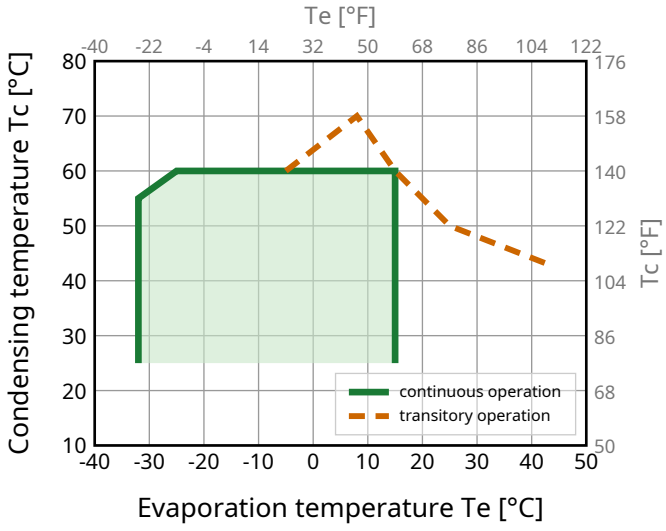
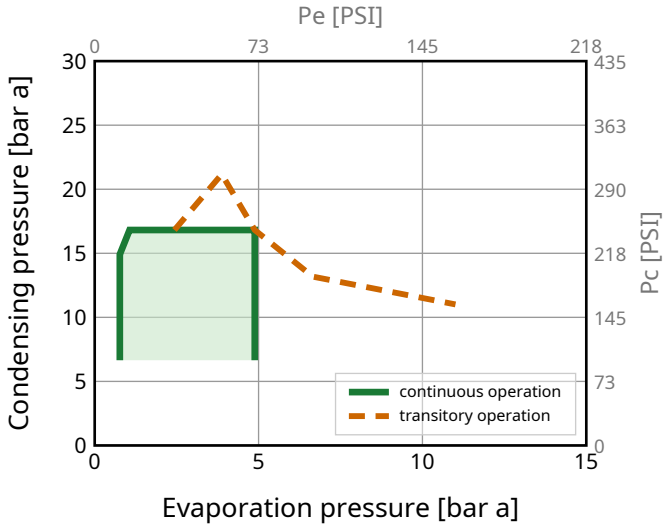
Components
a5 current relay (T1248/L6) 117U7083
c start capacitor (240µF) 117U5002
b, d cover + clamp + screws (5VA-compl.) 103N0600

Alternative components
b, d 100x cover + clamp + screws (5VA) 103N2060
b, d cover + clamp + screws (5VA) in bag 103N1060

Operation Pressure Range





Model
KLE5.6GFHX Configuration 1

Sales code:
106G6603

Standard Conditions

R134a, 120 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	**194**	661	167	**1.30**	4.42	150	2.44	3.76	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**400**	1365	344	**1.85**	6.32	216	2.85	8.71	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**713**	2432	613	**2.60**	8.89	274	3.27	15.78	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**91**	311	78	**0.85**	2.91	107	2.26	1.99	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**350**	1195	301	**1.83**	6.24	192	2.68	8.16	**EN12900 MBP**
5 41	50 122	20 68	50 122	**609**	2078	524	**2.42**	8.25	252	3.11	15.28	**EN12900 HBP**

Performance Tables

R134a, 120 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]
-32	-26	**107**	366	92	**0.90**	3.05	120	2.31	2.31
-30	-22	**123**	421	106	**0.97**	3.31	127	2.34	2.66
-20	-4	**222**	757	191	**1.38**	4.71	161	2.50	4.81
-10	14	**363**	1238	312	**1.89**	6.46	192	2.68	7.92
0	32	**559**	1907	481	**2.51**	8.57	222	2.89	12.33
10	50	**824**	2811	709	**3.21**	10.97	256	3.14	18.44
15	59	**987**	3367	849	**3.58**	12.23	275	3.28	22.29

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

-32	-26	**87**	297	75	**0.79**	2.69	110	2.26	2.07
-30	-22	**102**	346	87	**0.85**	2.89	120	2.30	2.42
-20	-4	**189**	645	163	**1.16**	3.96	163	2.52	4.52
-10	14	**312**	1063	268	**1.53**	5.22	204	2.76	7.51
0	32	**482**	1646	415	**1.98**	6.74	244	3.05	11.77
10	50	**716**	2442	615	**2.48**	8.47	288	3.38	17.73
15	59	**860**	2933	739	**2.75**	9.39	312	3.56	21.52

Model
KLE5.6GFHX Configuration 2

Sales code:
106G6603

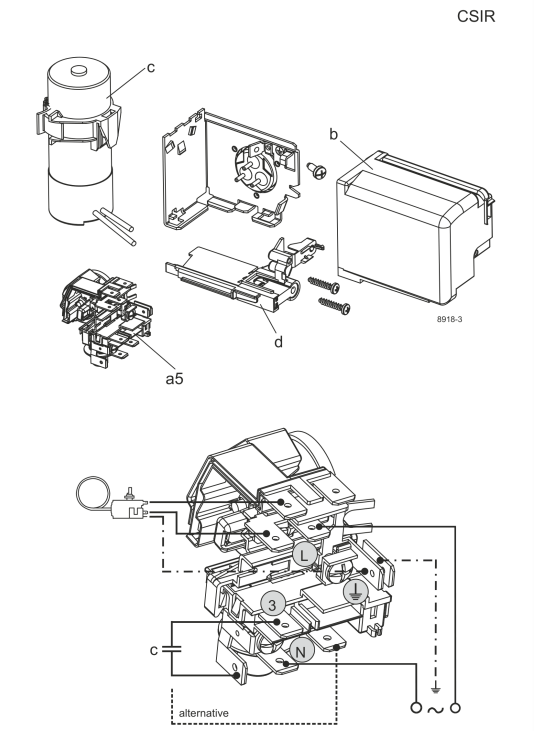
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP+HBP**
Voltage range	**95-140 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**240 µF**
LRA (locked rotor amps / 4s/ U(N))	**31.1 A**
RLA (rated load amps / 1s/ U(N))	**4.3 A**
Cut in current (U(N))	**31.5 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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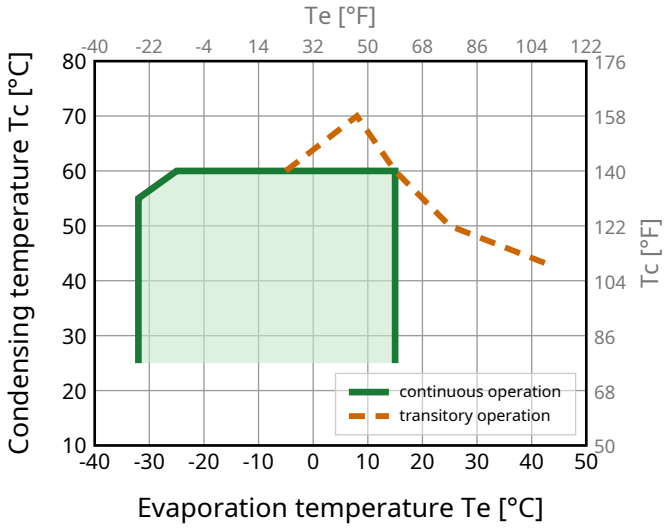
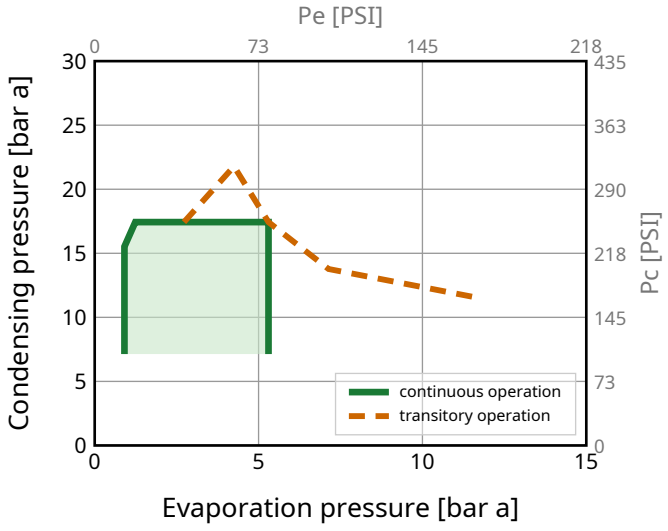
Components
a5 current relay (T1248/L6) 117U7083
c start capacitor (240µF) 117U5002
b, d cover + clamp + screws (5VA-compl.) 103N0600

Alternative components
b, d 100x cover + clamp + screws (5VA) 103N2060
b, d cover + clamp + screws (5VA) in bag 103N1060

Operation Pressure Range





Model

KLE5.6GFHX Configuration 2

Sales code:

106G6603

Standard Conditions

R513A, 120 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	**213**	728	184	**1.31**	4.49	162	2.51	4.67	**ASHRAE LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**420**	1432	361	**1.84**	6.27	228	2.94	10.46	**ASHRAE MBP**
7.2 45	54.4 129.9	35 95	46.1 115	**733**	2502	631	**2.57**	8.76	286	3.36	18.63	**ASHRAE HBP**
-35 -31	40 104	20 68	40 104	**101**	345	87	**0.87**	2.97	116	2.30	2.54	**EN12900 LBP**
-10 14	45 113	20 68	45 113	**364**	1243	313	**1.80**	6.15	202	2.75	9.86	**EN12900 MBP**
5 41	50 122	20 68	50 122	**614**	2094	528	**2.34**	8.00	262	3.18	18.10	**EN12900 HBP**

Performance Tables

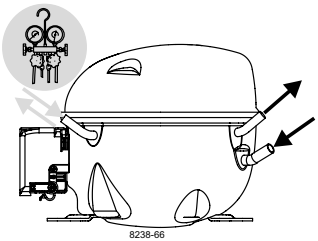
R513A, 120 V/60 Hz, CSIR, fan 3m/s

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]
-32	-26	**119**	407	103	**0.91**	3.09	132	2.36	2.94
-30	-22	**136**	464	117	**0.98**	3.33	139	2.40	3.35
-20	-4	**238**	813	205	**1.38**	4.72	172	2.56	5.92
-10	14	**382**	1304	329	**1.89**	6.45	202	2.75	9.57
0	32	**580**	1979	499	**2.51**	8.55	231	2.96	14.69
10	50	**844**	2880	726	**3.21**	10.94	263	3.19	21.74
15	59	**1005**	3429	864	**3.57**	12.18	282	3.33	26.16

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

-32	-26	**97**	330	83	**0.79**	2.69	123	2.31	2.67
-30	-22	**112**	380	96	**0.84**	2.88	132	2.35	3.08
-20	-4	**200**	683	172	**1.14**	3.89	176	2.59	5.57
-10	14	**323**	1102	278	**1.50**	5.10	216	2.85	9.06
0	32	**492**	1679	423	**1.92**	6.55	257	3.14	14.00
10	50	**721**	2459	620	**2.40**	8.18	300	3.47	20.88
15	59	**861**	2938	740	**2.65**	9.05	325	3.65	25.24



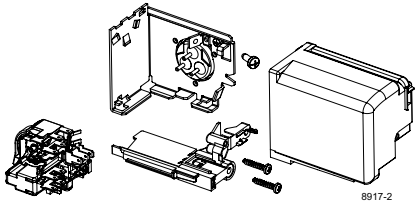
KL Compressors

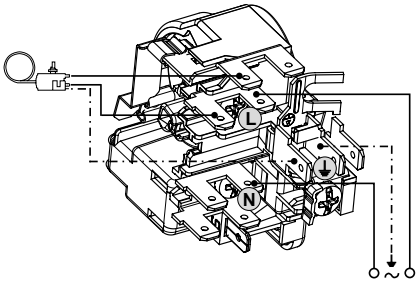
SECOP

Keep electrical equipment clear from oil, chemicals, and water

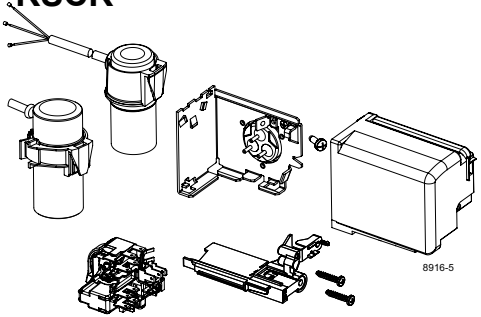
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

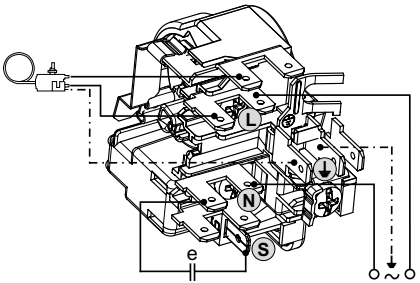
RSIR



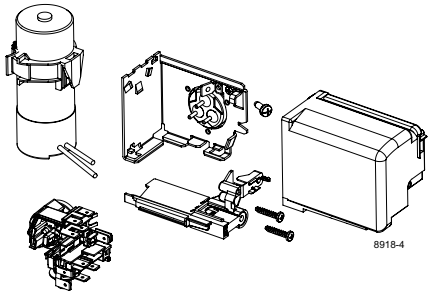


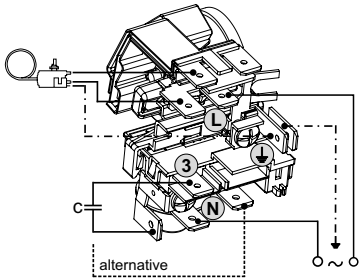
RSCR

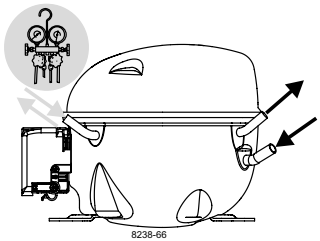




CSIR







KL Compressors

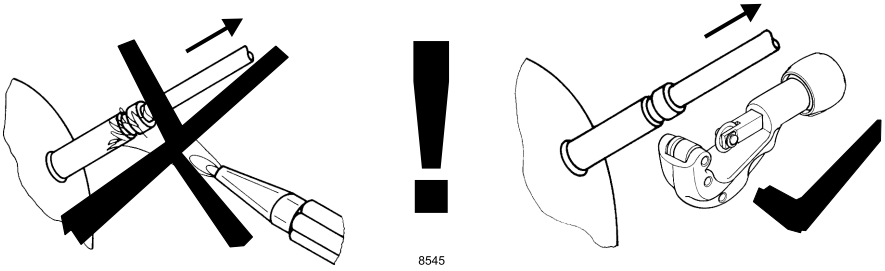
SECOP

Keep electrical equipment clear from oil, chemicals, and water

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

Service/Repair – R290, R600a, R170, R1270, 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**