Single
Packs

Single Pack KLE7.7CFHX 115-127V 60Hz CSIR

Single pack code number: **195B4802**

Position	Title	Code	Amount
1	Compressor KLE7.7CFHX	106G6813	1
2	Bolt joint for one compressor | M6 | ø16mm	118-1917	1
Below electrical equipment is pre-assembled on the compressor:			
3	Starting relay (QLZ-11.6A, overload protector T1217/L6)	117U7075	1
4	Starting capacitor (240µF 125V, 6.3mm)	117U5002	1
5	Cable clamp	16058100	1
6	Screw for cable clamp	10636000	1
7	Screw for cable clamp	10636200	1
8	Cover	10636401	1
9	Earth screw	10641201	1

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Model
KLE7.7CFHX

Sales code:
106G6813

Compressor Data

Refrigerant(s)	**R134a / R513A**
Refr. charge - tech. limit	**300g / 10.58oz**
Weight	**9.60 kg / 21.16lbs**
Displacement	**7.70 cm3 / 0.47cu.in**
Compressors on pallet	**100**

General – Configurations With KLE7.7CFHX

–	**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	LBP+MBP
Hot gas defrost	OK	OK
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
- 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
KLE7.7CFHX

Sales code:
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Compressor Design

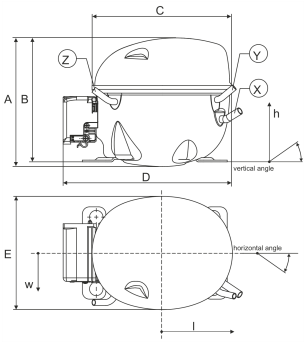
Oil type	**POE**	Winding resistance main	**2 Ohm**
Oil viscosity	**19,2cSt**	Winding resistance aux	**5.3 Ohm**
Oil quantity	**200 cm3 / 6.76fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,575 cm3 / 53.26fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**external**		

Compressor Dimensions

Housing

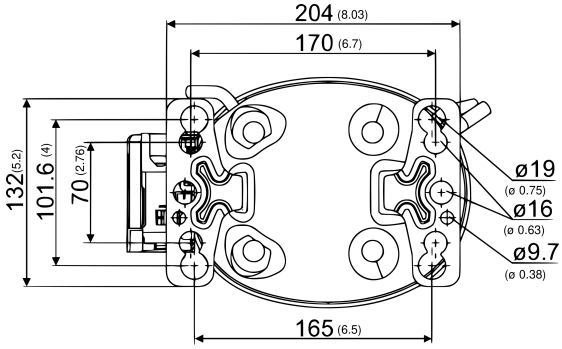
A Height	**182mm / 7.17in**
B Height	**175mm / 6.89in**
C Length shell	**198mm / 7.80in**
D Length w. cover	**238mm / 9.37in**
E Width	**160mm / 6.30in**

Find 3D Model here



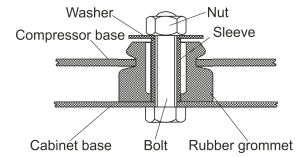
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	35°	13°	0°
Vertical angle ±2°	30°	40°	145°
Position l/h/w [mm]	119/73/59 / 4.69/2.87/2.32in	117/107/66 / 4.61/4.21/2.60in	-88/101/71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

Mounting Accessories

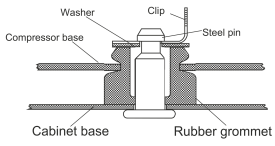


Dimensions in mm [in]

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
KLE7.7CFHX Configuration 1

Sales code:
106G6813

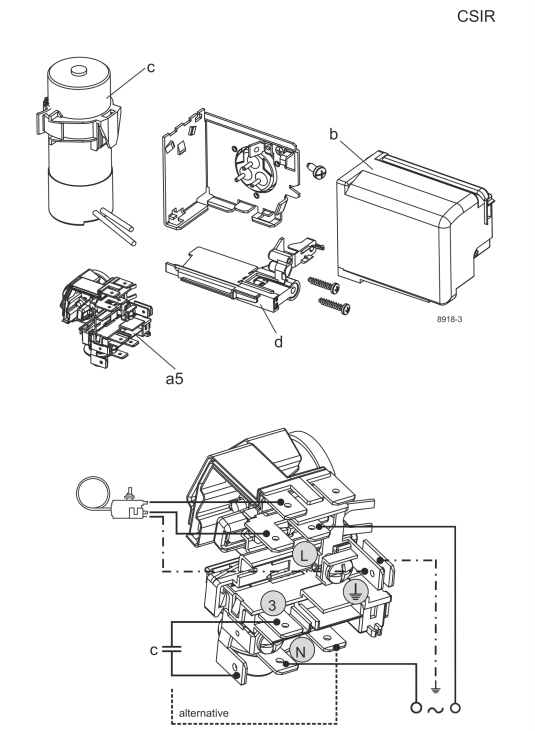
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R134a**
Application	**LBP+MBP**
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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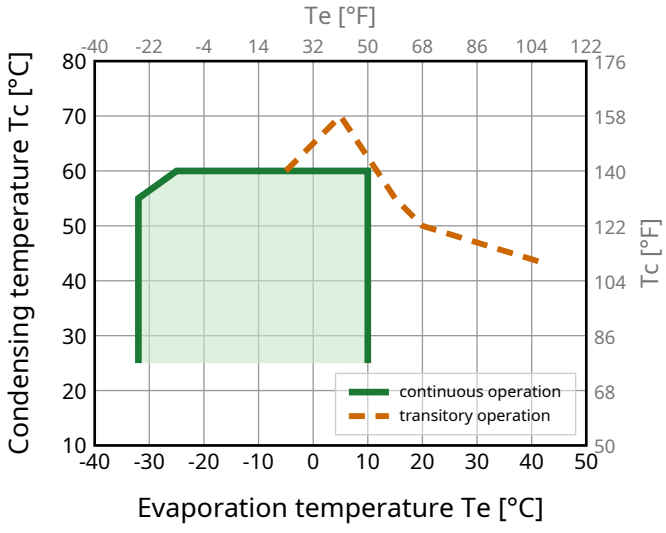
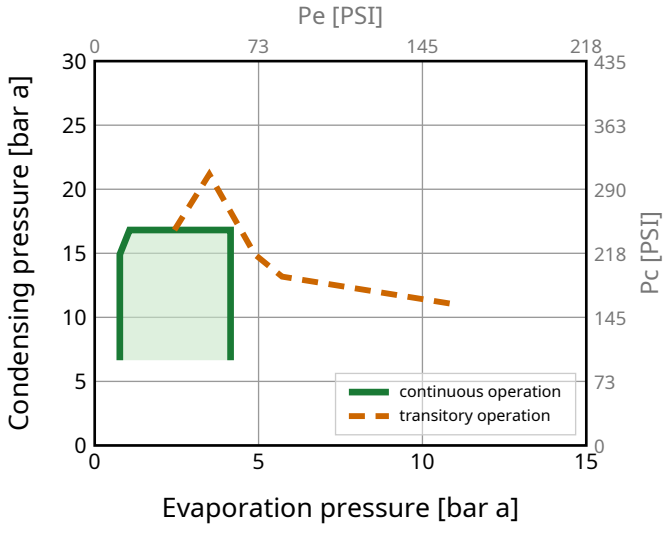
Components (already pre-assembled)
a5 current relay (T1217/L6-S5) 117U7075
c start capacitor (240µF) 117U5002
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model
KLE7.7CFHX Configuration 1

Sales code:
106G6813

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	**266**	909	229	**1.33**	4.55	200	2.74	5.17	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**196**	668	168	**1.02**	3.48	192	2.69	4.67	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**133**	455	115	**0.97**	3.32	137	2.38	2.92	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**542**	1849	466	**1.81**	6.18	299	3.46	11.80	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**423**	1442	363	**1.51**	5.16	280	3.31	10.19	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**468**	1596	402	**1.78**	6.08	262	3.18	10.91	**EN12900 MBP**

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	**153**	521	131	**1.04**	3.54	147	2.41	3.29
-30	-22	**172**	585	147	**1.09**	3.73	157	2.46	3.70
-20	-4	**297**	1014	256	**1.43**	4.88	208	2.79	6.44
-10	14	**484**	1653	417	**1.85**	6.30	262	3.18	10.58
0	32	**745**	2542	641	**2.33**	7.93	320	3.64	16.43
10	50	**1090**	3719	937	**2.85**	9.72	383	4.16	24.40

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

-32	-26	**127**	435	110	**0.82**	2.80	155	2.48	3.03
-30	-22	**145**	494	125	**0.88**	2.99	166	2.54	3.45
-20	-4	**258**	880	222	**1.17**	4.00	220	2.87	6.17
-10	14	**423**	1442	363	**1.51**	5.16	280	3.31	10.19
0	32	**650**	2219	559	**1.88**	6.42	345	3.84	15.86
10	50	**953**	3251	819	**2.28**	7.79	418	4.45	23.61

Model
KLE7.7CFHX Configuration 2

Sales code:
106G6813

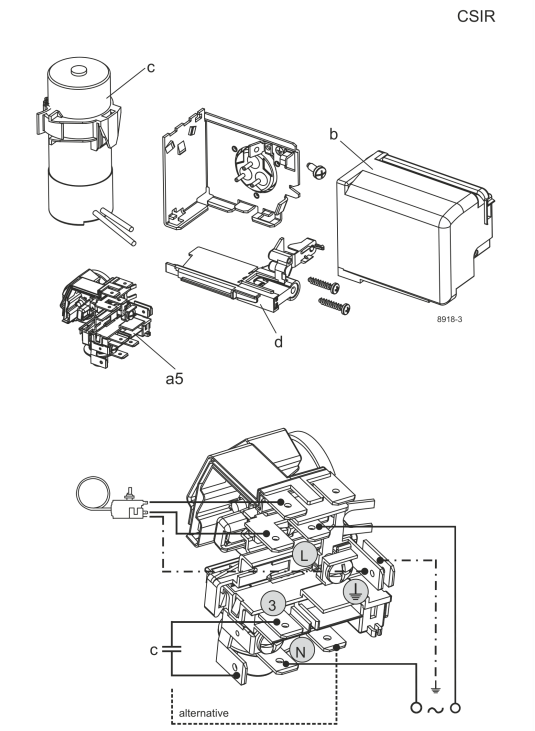
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R513A**
Application	**LBP+MBP**
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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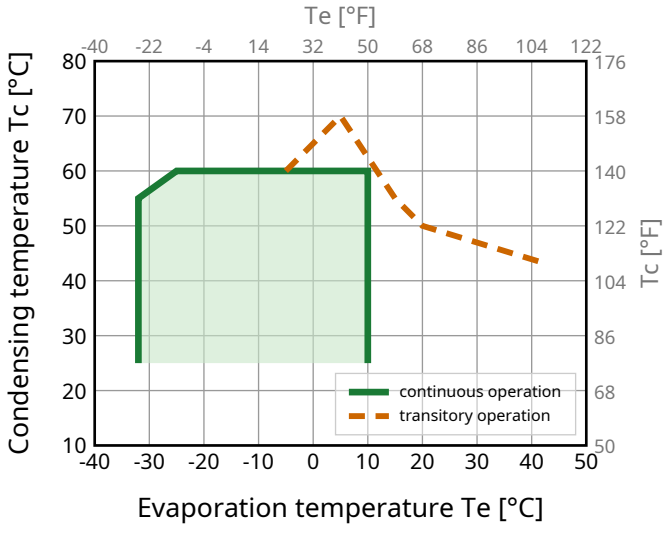
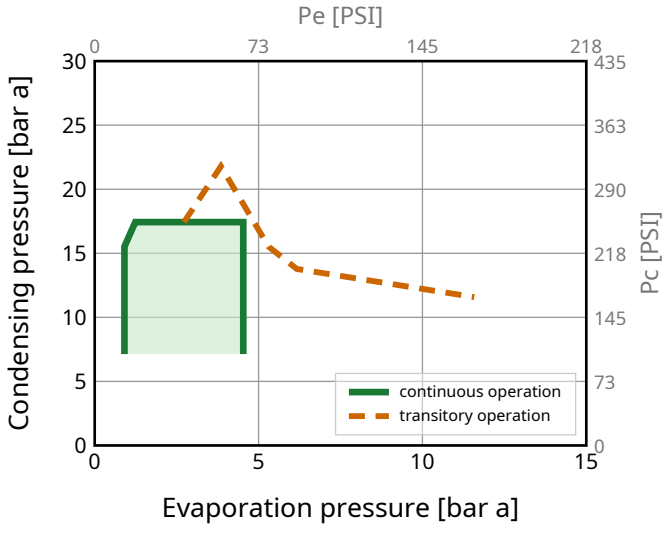
Components (already pre-assembled)
a5 current relay (T1217/L6-S5) 117U7075
c start capacitor (240µF) 117U5002
b, d cover + clamp + screws (5VA-compl.) 103N0600

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

Operation Pressure Range





Model

KLE7.7CFHX Configuration 2

Sales code:

106G6813

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	**294**	1003	253	**1.35**	4.60	218	2.86	6.43	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**211**	719	181	**1.00**	3.41	211	2.82	5.84	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**147**	500	126	**0.93**	3.16	158	2.48	3.69	**EN12900 LBP**
-6.7 20	54.4 129.9	35 95	46.1 115	**567**	1935	488	**1.79**	6.12	316	3.60	14.14	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**438**	1493	376	**1.47**	5.02	297	3.45	12.28	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**485**	1656	417	**1.72**	5.87	282	3.33	13.14	**EN12900 MBP**

Performance Tables

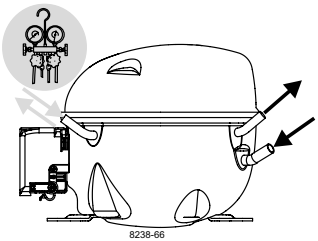
R513A, 120 V/60 Hz, CSIR, fan 3m/s

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	**169**	577	145	**1.02**	3.49	165	2.51	4.17
-30	-22	**189**	646	163	**1.08**	3.69	175	2.57	4.67
-20	-4	**320**	1092	275	**1.41**	4.82	226	2.92	7.94
-10	14	**509**	1738	438	**1.81**	6.16	282	3.33	12.75
0	32	**770**	2628	662	**2.25**	7.68	342	3.81	19.51
10	50	**1116**	3807	960	**2.73**	9.32	408	4.37	28.74

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

-32	-26	**139**	475	120	**0.80**	2.73	174	2.58	3.84
-30	-22	**158**	539	136	**0.86**	2.92	184	2.64	4.36
-20	-4	**274**	935	236	**1.15**	3.92	238	3.01	7.62
-10	14	**438**	1493	376	**1.47**	5.02	297	3.45	12.28
0	32	**662**	2259	569	**1.83**	6.25	362	3.97	18.83
10	50	**961**	3278	826	**2.22**	7.58	432	4.59	27.83



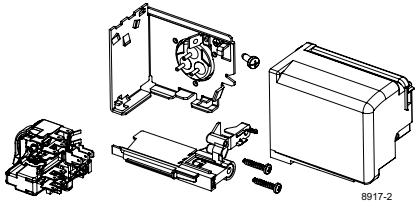
KL Compressors

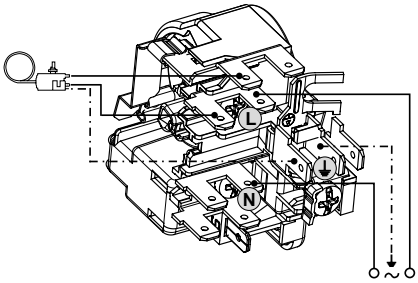
SECOP

Keep electrical equipment clear from oil, chemicals, and water

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

RSIR





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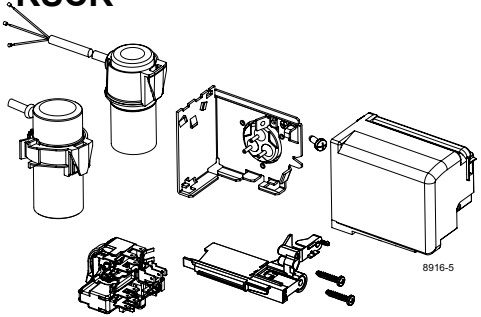
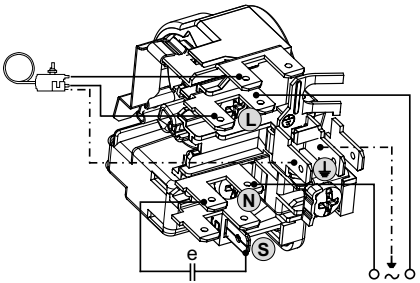
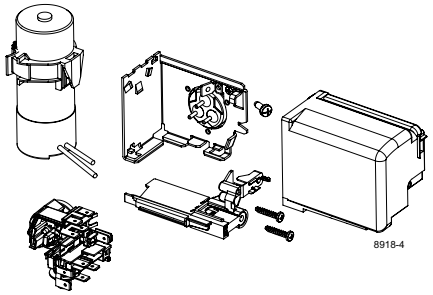
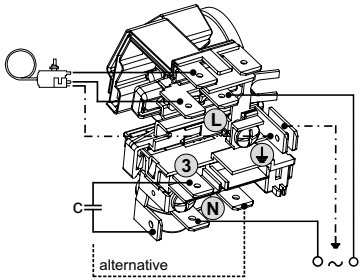
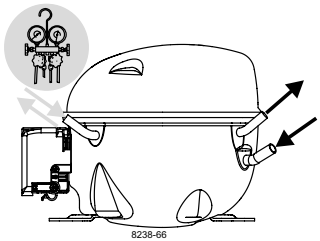




CSIR







KL Compressors

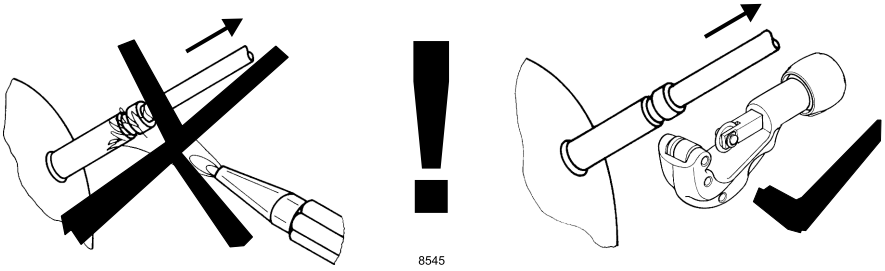
SECOP

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**