Single
Packs

Single Pack GS34CLX 220-240V 50Hz CSCR

Single pack code number: **195B4629**

Position	Title	Code	Amount
1	Compressor GS34CLX	107B0501	1
2	GS starting device (600mm)	117-7074	1
3	Bolt joint for one compressor | M8 | ø19mm	107B9150	1
Below electrical equipment is pre-assembled on the compressor:			
4	Cover	107B9101	1
5	Cover clamp	107B9104	1
6	Cover gasket	107B9100	1

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Model
GS34CLX

Sales code:
107B0501

Compressor Data

Refrigerant(s)	**R404A / R452A**
Refr. charge - tech. limit	**2000g / 70.55oz**
Weight	**20.00 kg / 44.09lbs**
Displacement	**33.80 cm3 / 2.06cu.in**
Compressors on pallet	**48**

General – Configurations With GS34CLX

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSCR	CSCR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1
Voltage range	198-254 V	198-254 V
Approvals	VDE, CCC, EAC	VDE, CCC, EAC
Starting torque	HST	HST
Refrigerant	R404A	R452A
Application	LBP	LBP
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Application Notes

- Cover, clamp, gasket: pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor
- Compressor dimension sketch can vary, due to switch of connectors

Model
GS34CLX

Sales code:
107B0501

Compressor Design

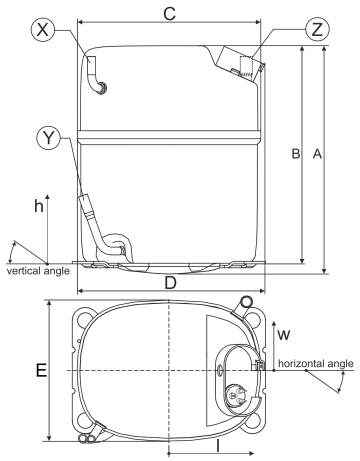
Oil type	**POE**	Motor protection	**internal**
Oil viscosity	**46cSt**	Winding resistance main	**1.6 Ohm**
Oil quantity	**906 / 30.64fl.oz**	Winding resistance aux	**6.7 Ohm**
Free gas volume comp.	**3,350 cm3 / 113.28fl.oz**	Max. discharge temp.	**130°C / 266°F**

Compressor Dimensions

Housing

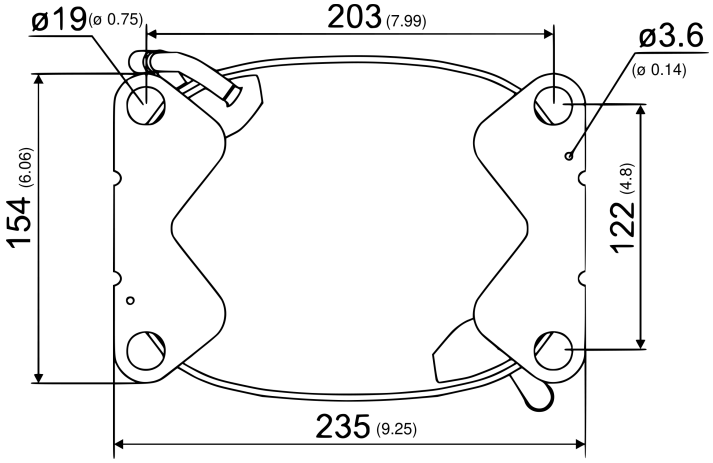
A Height	**279mm / 10.98in**
B Height	**267mm / 10.51in**
C Length shell	**224mm / 8.82in**
D Length w. cover	**232mm / 9.13in**
E Width	**173mm / 6.81in**

Find 3D Model here



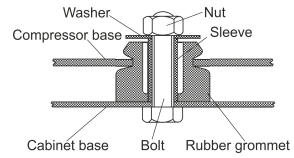
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 12.75–13.05 / 0.50–0.51in	øi 8.15–8.25 / 0.32–0.32in	øi 6.4–6.6 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	90°	71°	90°
Position l/h/w [mm]	-94.5/234/-84 / -3.72/9.21/-3.31in	-105/84/-84 / -4.13/3.31/-3.31in	94.5/234/84 / 3.72/9.21/3.31in
Straight tube l. [mm]	18 / 0.71in	22.5 / 0.89in	15 / 0.59in

Mounting Accessories



Dimensions in mm [in]

Bolt joint



	one comp.	multi pack
Bolt joint | M8 | ø19mm	107B9150	–

Model
GS34CLX Configuration 1

Sales code:
107B0501

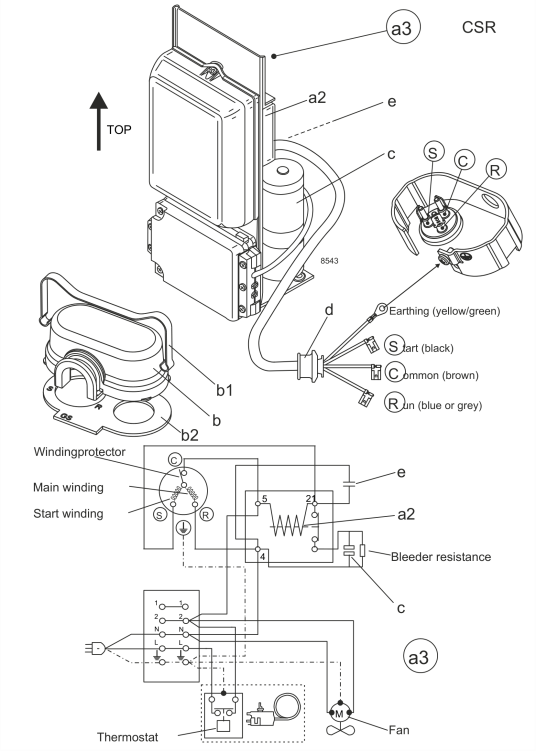
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R404A**
Application	**LBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, CCC, EAC**
Starting device type	**relay**
Run capacitor	**15 µF**
Start capacitor	**100 µF**
LRA (locked rotor amps / 4s/ U(N))	**40 A**
RLA (rated load amps / 1s/ U(N))	**5.6 A**
Cut in current (U(N))	**40 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 38°C / 50 - 100°F
Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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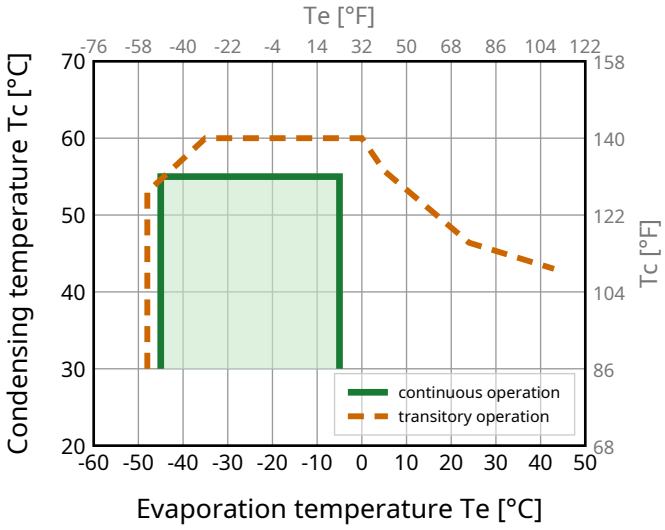
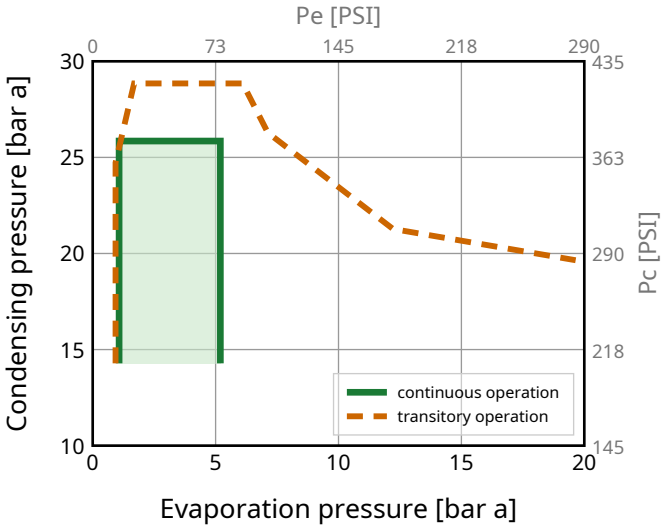
Components (cover, clamp, gasket: pre assembled)
a3 GS starter kit 117-7074
b cover 107B9101
b2 gasket 107B9100
b1 clamp 107B9104

Operation Pressure Range





Model
GS34CLX Configuration 1

Sales code:
107B0501

Standard Conditions

R404A, 220 V/50 Hz, CSCR, 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	**1916**	6537	1648	**1.45**	4.93	1325	6.83	44.54	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**1295**	4420	1114	**1.03**	3.50	1262	6.58	40.39	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**1004**	3424	863	**1.08**	3.70	924	4.93	27.19	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**1418**	4837	1219	**1.08**	3.70	1307	6.58	50.02	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**2124**	7246	1826	**1.70**	5.79	1252	6.29	49.37	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**935**	3192	804	**1.00**	3.43	931	4.92	24.94	**opt LBP**

Performance Tables

R404A, 220 V/50 Hz, CSCR, fan 3m/s

pc= 45/113 | RGT= 20/68 | 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]
-45	-49	**416**	1418	358	**0.67**	2.29	618	3.91	11.94
-40	-40	**631**	2154	543	**0.81**	2.76	780	4.38	18.20
-30	-22	**1191**	4063	1024	**1.10**	3.76	1079	5.52	34.66
-20	-4	**1967**	6713	1692	**1.41**	4.81	1394	6.92	58.04
-10	14	**3014**	10285	2592	**1.69**	5.78	1780	8.58	90.64
-5	23	**3656**	12475	3144	**1.81**	6.19	2016	9.51	111.29

pc= 55/131 | RGT= 20/68 | Tliq= 55/131 | °C/°F

-45	-49	**248**	846	213	**0.51**	1.73	489	3.73	8.34
-40	-40	**434**	1480	373	**0.62**	2.12	698	4.34	14.66
-30	-22	**908**	3097	781	**0.84**	2.87	1078	5.77	31.00
-20	-4	**1562**	5331	1344	**1.08**	3.67	1452	7.45	54.23
-10	14	**2452**	8367	2109	**1.31**	4.46	1876	9.39	87.05
-5	23	**3002**	10244	2582	**1.41**	4.82	2123	10.46	108.13

Model
GS34CLX Configuration 2

Sales code:
107B0501

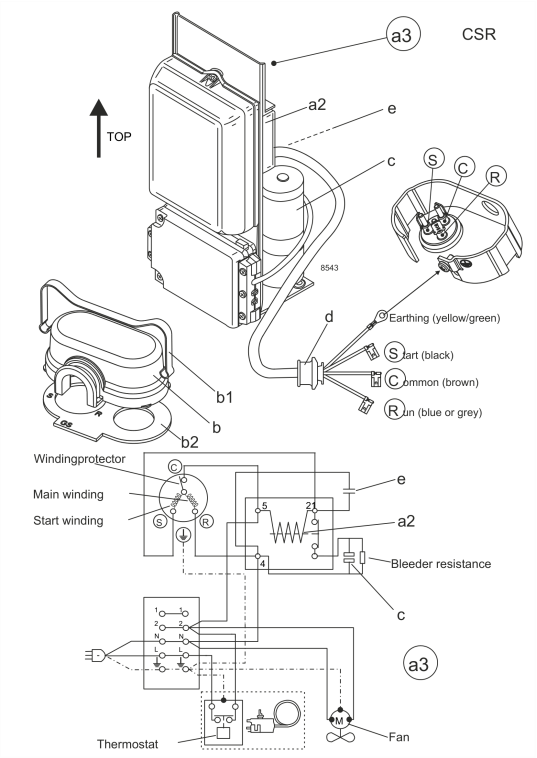
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R452A**
Application	**LBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, CCC, EAC**
Starting device type	**relay**
Run capacitor	**15 µF**
Start capacitor	**100 µF**
LRA (locked rotor amps / 4s/ U(N))	**40 A**
RLA (rated load amps / 1s/ U(N))	**5.6 A**
Cut in current (U(N))	**40 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 38°C / 50 - 100°F
Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling
fan 3m/s

Electrical Accessories / Wiring Diagram



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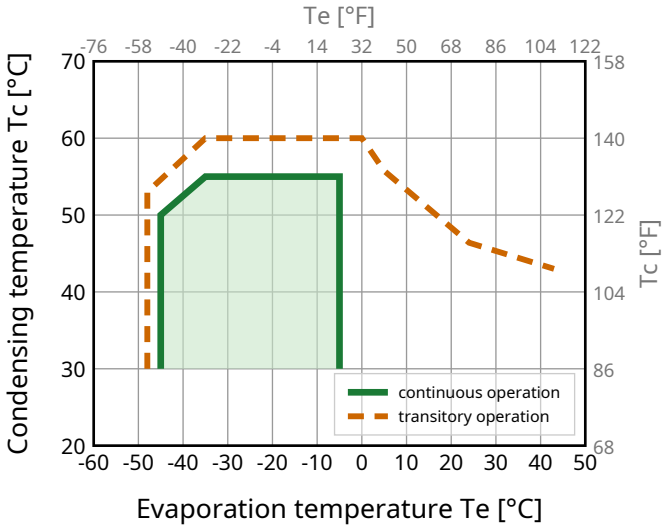
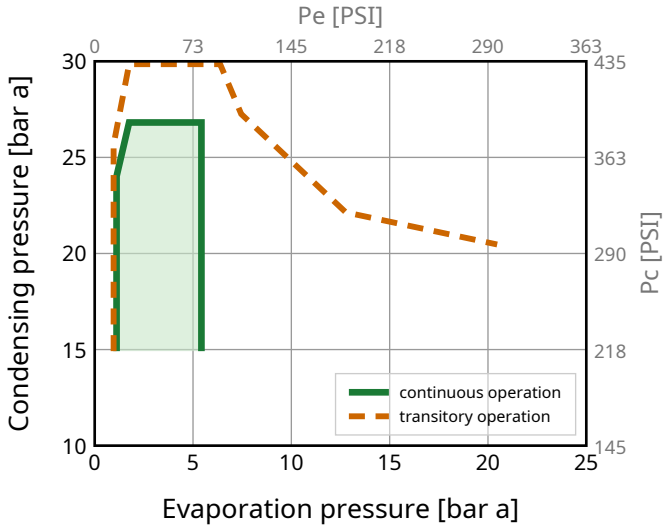
Components (cover, clamp, gasket: pre assembled)
a3 GS starter kit 117-7074
b cover 107B9101
b2 gasket 107B9100
b1 clamp 107B9104

Operation Pressure Range





Model
GS34CLX Configuration 2

Sales code:
107B0501

Standard Conditions

R452A, 220 V/50 Hz, CSCR, 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	**1867**	6369	1605	**1.52**	5.19	1228	5.57	45.17	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**1258**	4294	1082	**1.08**	3.67	1168	5.39	40.60	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**934**	3186	803	**1.10**	3.75	850	4.43	26.30	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**1386**	4729	1192	**1.14**	3.89	1215	5.53	50.59	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**2056**	7016	1768	**1.76**	6.02	1166	5.38	49.76	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**869**	2966	748	**1.02**	3.48	852	4.44	24.09	**opt LBP**

Performance Tables

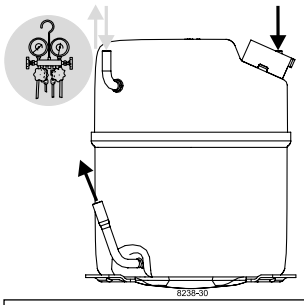
R452A, 220 V/50 Hz, CSCR, fan 3m/s

pc= 45/113 | RGT= 20/68 | 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]
-45	-49	**425**	1451	366	**0.82**	2.79	520	3.44	12.68
-40	-40	**592**	2021	509	**0.85**	2.90	696	3.97	17.73
-30	-22	**1126**	3843	969	**1.13**	3.85	999	4.88	34.02
-20	-4	**1938**	6612	1667	**1.49**	5.09	1299	5.78	59.32
-10	14	**3040**	10374	2615	**1.82**	6.22	1668	6.89	94.84
-5	23	**3705**	12642	3186	**1.95**	6.65	1902	7.59	116.99

pc= 55/131 | RGT= 20/68 | Tliq= 55/131 | °C/°F

-45	-49	**280**	954	241	**0.70**	2.40	398	3.07	9.72
-40	-40	**412**	1404	354	**0.67**	2.28	616	3.73	14.37
-30	-22	**858**	2929	738	**0.86**	2.95	993	4.86	30.29
-20	-4	**1560**	5323	1342	**1.16**	3.95	1348	5.92	55.92
-10	14	**2530**	8634	2176	**1.44**	4.92	1755	7.15	92.73
-5	23	**3121**	10648	2684	**1.56**	5.32	2001	7.88	116.00



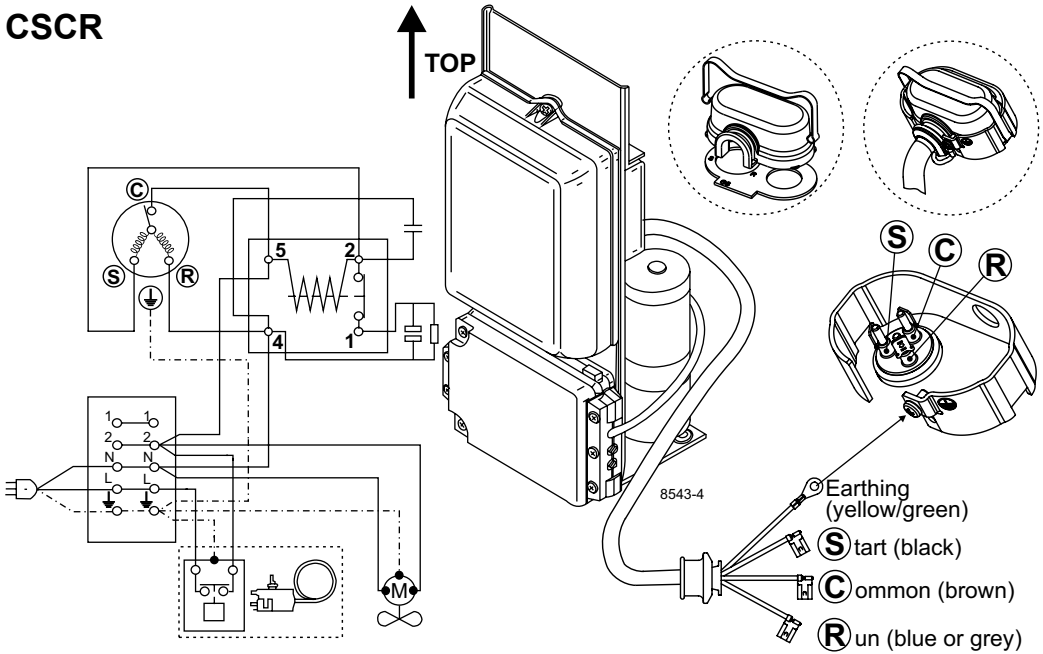
GS Compressors

SECOP

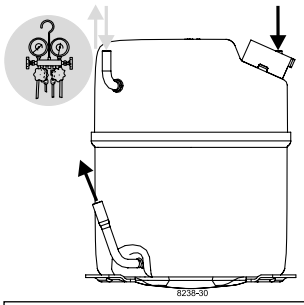
Keep electrical equipment clear from oil, chemicals, and water

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

CSCR



	S	C	R
ENGLISH	Black	Brown	Blue or grey
DEUTSCH	Schwarz	Braun	Blau od. grau
FRANÇAIS	Noir	Marron	Bleu ou gris
ESPAÑOL	Negro	Marrón	Azul o gris
ITALIANO	Nero	Marrone	Blu o grigio
NEDERLANDS	Zwart	Bruin	Blauw of grijs
DANSK	Sort	Brun	Blå eller grå
SVENSKA	Svart	Brun	Blå eller grå
SUOMEKSI	Musta	Ruskea	Sininen tai harmaa
РУССКИЙ	Чёрный	Корич-невый	Синий или серый
中文	黑色	棕色	蓝色或灰色



GS Compressors

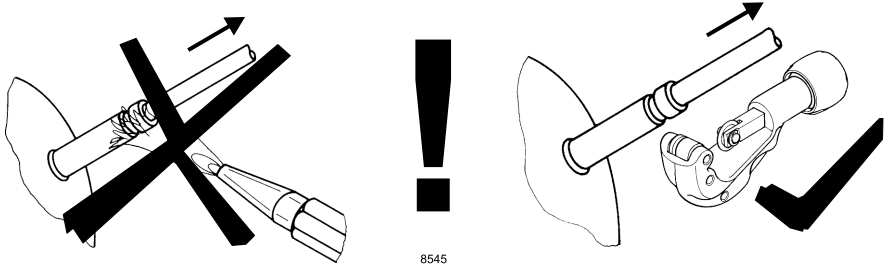
SECOP

Keep electrical equipment clear from oil, chemicals, and water

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

Service/Repair – 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**