Single
Packs

Single Pack GS21CLX 208-230V 60Hz CSCR

Single pack code number: **195B4632**

Position	Title	Code	Amount
1	Compressor GS21CLX	107B0506	1
2	GS starting device (600mm)	117-7073	1
3	Bolt joint for one compressor | M8 | ø19mm	107B9150	1
Below electrical equipment is pre-assembled on the compressor:			
4	Cover	107B9106	1
5	Cover clamp	107B9104	1
6	Cover gasket	107B9100	1

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Model
GS21CLX

Sales code:
107B0506

Compressor Data

Refrigerant(s)	**R404A**
Refr. charge - tech. limit	**2000g / 70.55oz**
Weight	**20.00 kg / 44.09lbs**
Displacement	**21.20 cm3 / 1.29cu.in**
Compressors on pallet	**48**

General – Configurations With GS21CLX

–	**Conf. 1**
Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz
Number of phases	1
Voltage range	187-254 V
Approvals	UL
Starting torque	HST
Refrigerant	R404A
Application	LBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Cover, clamp, gasket: pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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GS21CLX

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107B0506

Compressor Design

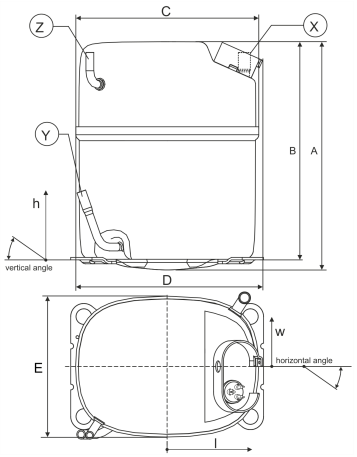
Oil type	**POE**	Winding resistance main	**2.600 Ohm**
Oil viscosity	**32,5cSt**	Winding resistance aux	**5.00 Ohm**
Oil quantity	**902 / 30.50fl.oz**	Max. discharge temp.	**130°C / 266°F**
Free gas volume comp.	**3,220 cm3 / 108.88fl.oz**		

Compressor Dimensions

Housing

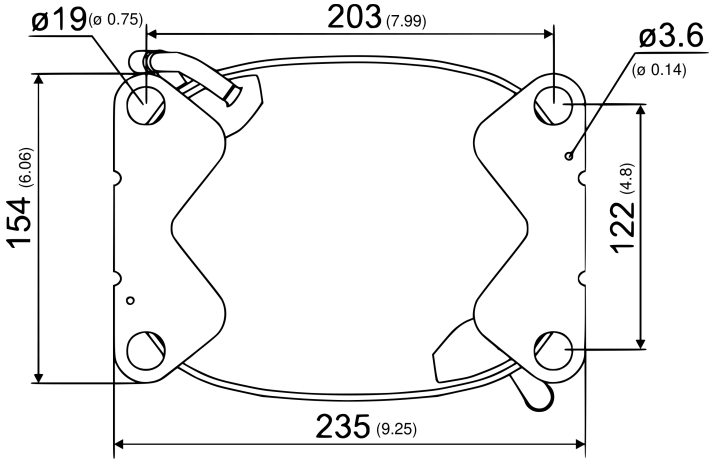
A Height	**259mm / 10.20in**
B Height	**247mm / 9.72in**
C Length shell	**224mm / 8.82in**
D Length w. cover	**232mm / 9.13in**
E Width	**173mm / 6.81in**

Find 3D Model here



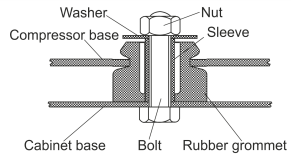
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 12.75–13.05 / 0.50–0.51in	øi 8.15–8.25 / 0.32–0.32in	øi 6.4–6.6 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	90°	71°	90°
Position l/h/w [mm]	-94.5/234/-84 / -3.72/9.21/-3.31in	-105/84/-84 / -4.13/3.31/-3.31in	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
GS21CLX Configuration 1

Sales code:
107B0506

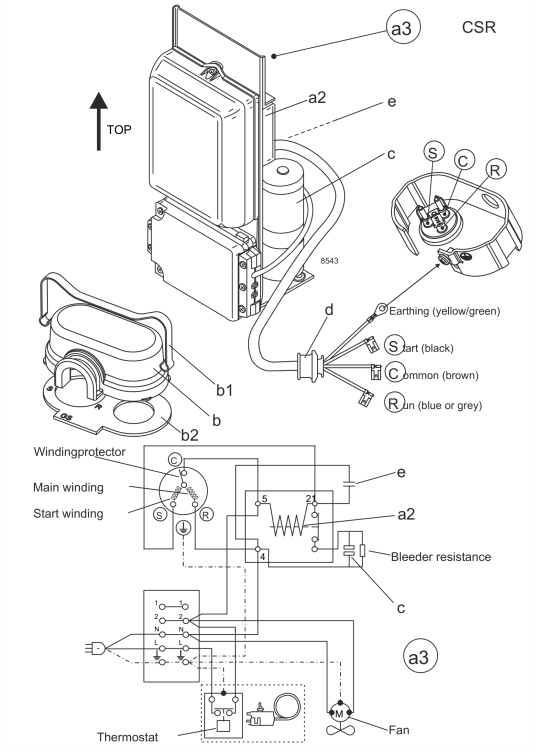
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R404A**
Application	**LBP**
Voltage range	**187-254 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**20 µF**
Start capacitor	**100 µF**
RLA (rated load amps / 1s/ U(N))	**-/-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

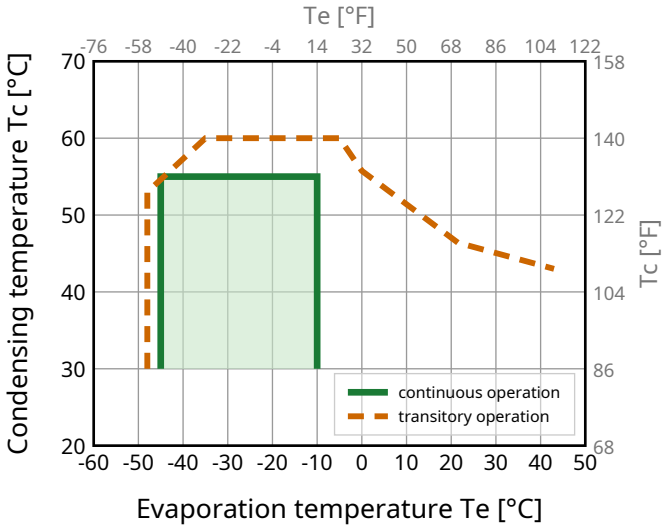
Electrical Accessories / Wiring Diagram

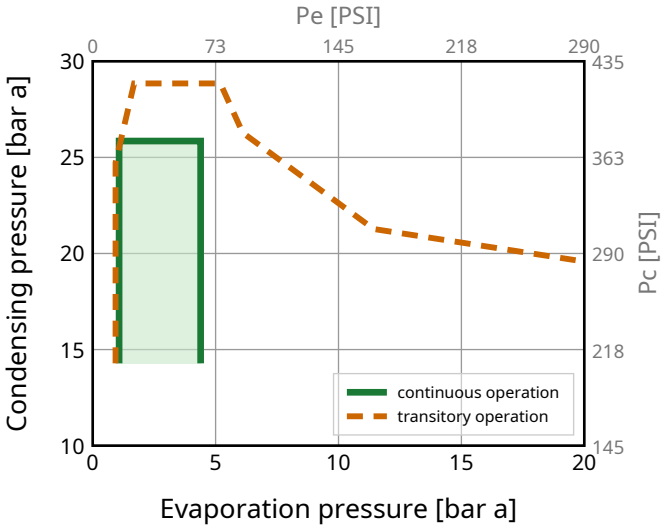


View full size

Components (cover, clamp, gasket: pre assembled)
a3 GS starter kit (600mm) 117-7073
107B9106
b2 gasket 107B9100
b1 clamp 107B9104

Operation Pressure Range





Model
GS21CLX Configuration 1

Sales code:
107B0506

Standard Conditions

R404A, 220 V/60 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	**1258**	4291	1082	**1.35**	4.60	932	3.96	29.23	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**844**	2880	726	**0.95**	3.24	887	3.82	26.32	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**669**	2282	575	**1.05**	3.59	636	3.15	18.12	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**949**	3238	816	**1.03**	3.51	921	3.94	33.48	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**1463**	4992	1258	**1.65**	5.64	886	3.84	34.01	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**608**	2076	523	**0.95**	3.23	642	3.17	16.22	**opt LBP**

Performance Tables

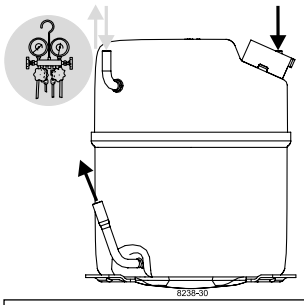
R404A, 220 V/60 Hz, CSCR, fan 3m/s

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	**244**	832	210	**0.59**	2.01	414	2.74	7.01
-40	-40	**396**	1350	340	**0.75**	2.55	530	2.93	11.41
-35	-31	**577**	1969	496	**0.90**	3.07	642	3.17	16.71
-30	-22	**792**	2704	682	**1.05**	3.59	753	3.45	23.07
-25	-13	**1046**	3570	900	**1.21**	4.11	867	3.78	30.64
-20	-4	**1343**	4583	1155	**1.36**	4.64	988	4.15	39.63
-15	5	**1688**	5759	1452	**1.51**	5.15	1118	4.57	50.23
-10	14	**2084**	7112	1793	**1.65**	5.64	1261	5.03	62.67

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

-45	-49	**123**	419	106	**0.34**	1.18	356	2.58	4.13
-40	-40	**252**	858	216	**0.51**	1.74	495	2.83	8.50
-35	-31	**402**	1373	346	**0.64**	2.19	627	3.11	13.67
-30	-22	**580**	1978	499	**0.77**	2.61	757	3.44	19.80
-25	-13	**788**	2688	678	**0.89**	3.03	887	3.82	27.11
-20	-4	**1032**	3520	887	**1.01**	3.45	1022	4.25	35.81
-15	5	**1315**	4488	1131	**1.13**	3.86	1164	4.71	46.12
-10	14	**1644**	5608	1413	**1.25**	4.26	1316	5.23	58.34



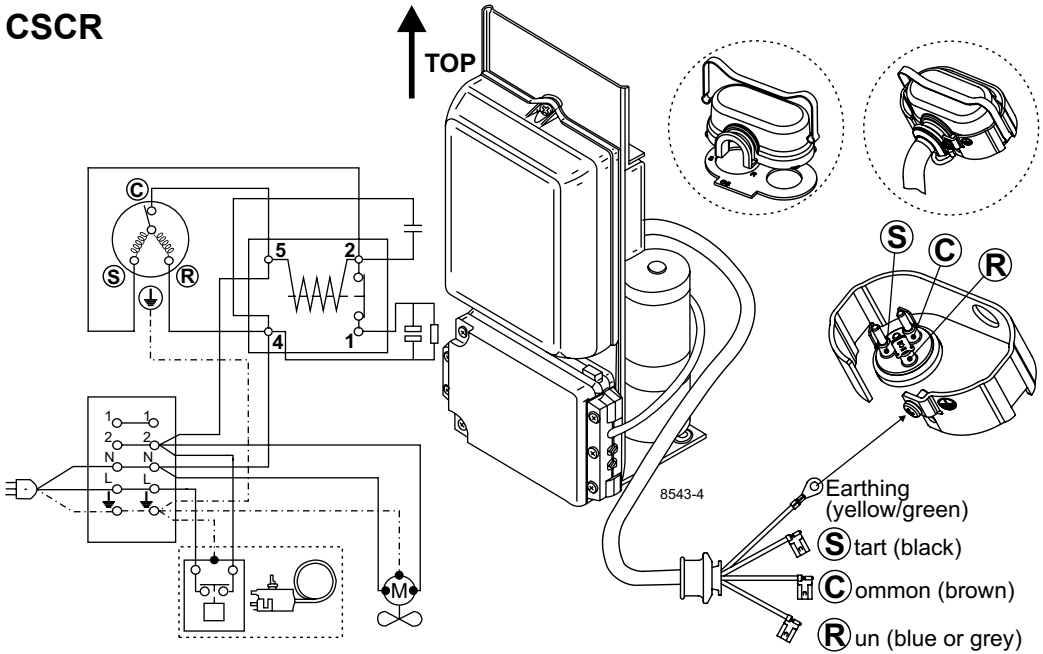
GS Compressors

SECOP

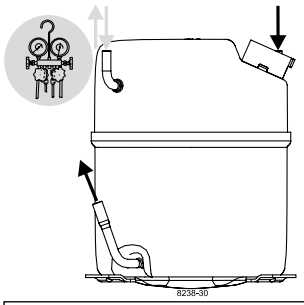
Keep electrical equipment clear from oil, chemicals, and water

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

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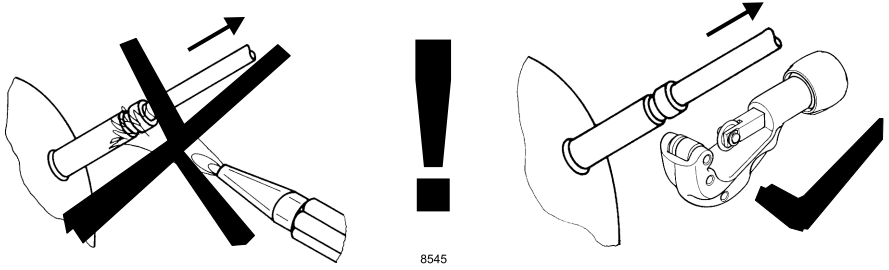
Service/Repair – R1234yf

(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**