

Model
GS21CLX

Sales code:
107B0506

Compressor Data

Refrigerant(s)	R404A / R507
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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Compressor Design

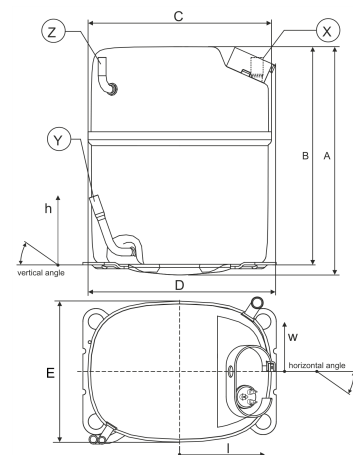
Oil type	POE	Winding resistance main	2.600 Ohm
Oil viscosity	32,5cSt	Winding resistance aux	5.00 Ohm
Oil quantity	902 / 30.50fl.oz	Max. discharge temp.	130°C / 266°F
Free gas volume comp.	3,220 cm ³ / 108.88fl.oz		

Compressor Dimensions

Housing

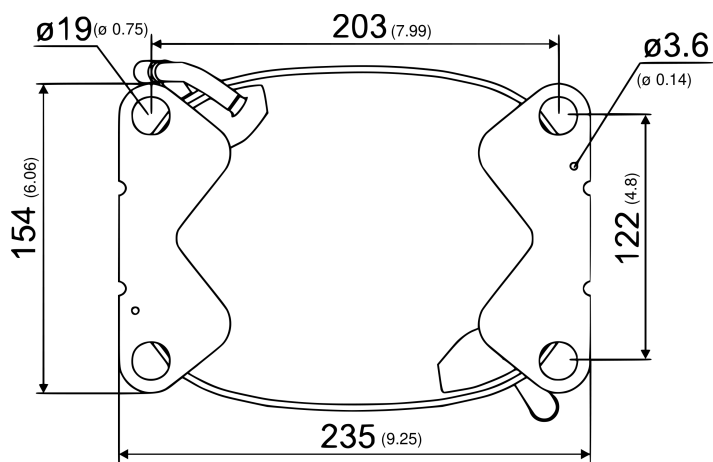
A Height	259mm / 10.20in
B Height	247mm / 9.72in
C Length shell	224mm / 8.82in
D Length w. cover	232mm / 9.13in
E Width	173mm / 6.81in

[Find 3D Model here](#)

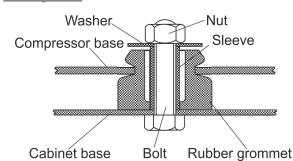


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 12.75–13.05 / 0.50–0.51in	øi 8.15–8.25 / 0.32–0.32in	øi 6.4–6.6 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	90°	71°	90°
Position l/h/w [mm]	-94.5/234/-84 / -3.72/9.21/-3.31in	-105/84/-84 / -4.13/3.31/-3.31in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



Bolt joint



Dimensions in mm [in]

	one comp.	multi pack
Bolt joint M8 ø19mm	107B9150	-

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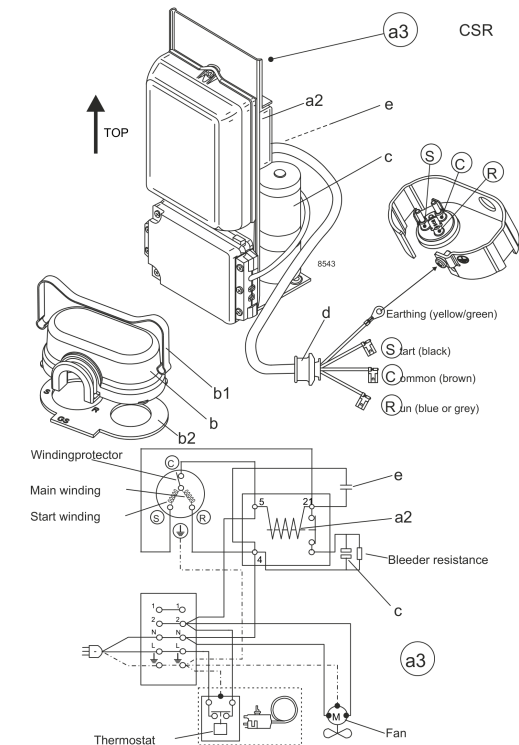
Configuration

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)

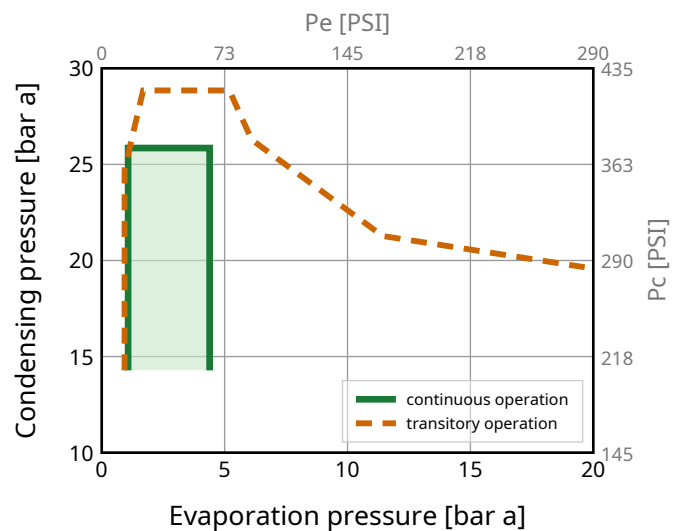
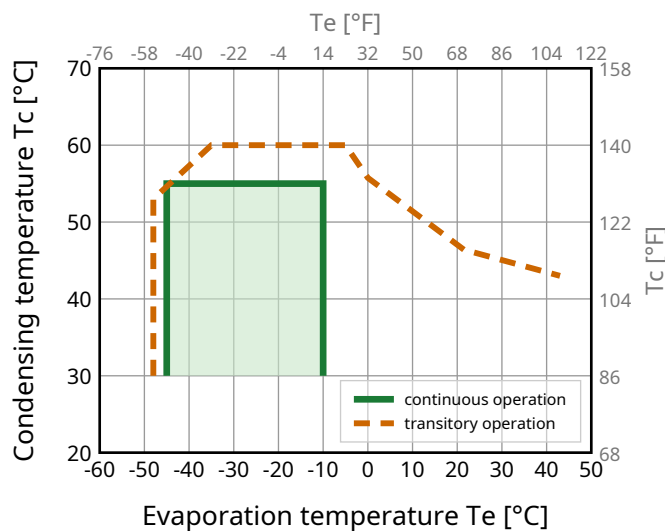
a3 GS starter kit (600mm) 117-7073

107B9106

b2 gasket 107B9100

b1 clamp 107B9104

Operation Pressure Range



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Standard Conditions

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

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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
-25 -13	45 113	32 89.6	45 113	1105	3772	951	1.27	4.35	867	3.78	29.75	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	m
[°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