

Model
GS34CLX

Sales code:
107B0525

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, EAC	VDE, 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

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Compressor Design

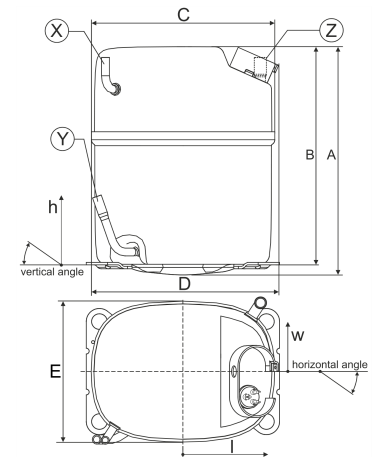
Oil type	POE	Motor protection	internal
Oil viscosity	46cSt	Winding resistance main	1.600 Ohm
Oil quantity	906 / 30.64fl.oz	Winding resistance aux	6.70 Ohm
Free gas volume comp.	3,350 cm ³ / 113.28fl.oz	Max. discharge temp.	130°C / 266°F

Compressor Dimensions

Housing

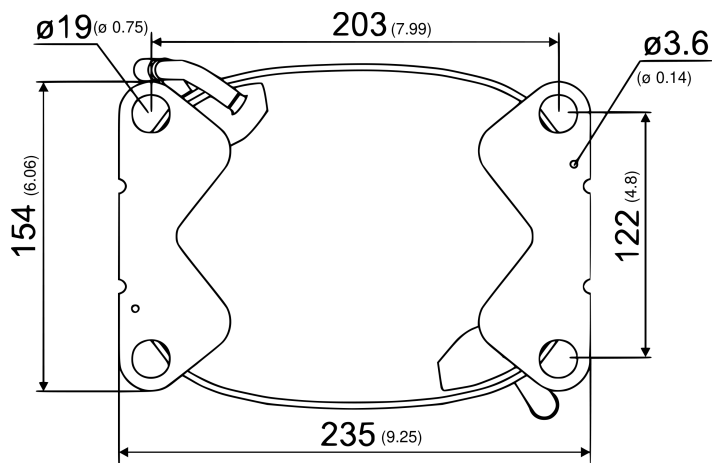
A Height	279mm / 10.98in
B Height	267mm / 10.51in
C Length shell	224mm / 8.82in
D Length w. cover	232mm / 9.13in
E Width	173mm / 6.81in

[Find 3D Model here](#)

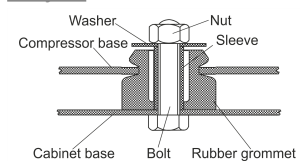


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 12.75–13.05 / 0.50–0.51in	øi 8.15–8.25 / 0.32–0.32in	øi 6.4–6.6 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	90°	71°	90°
Position l/h/w [mm]	-94.5/234/-84 / -3.72/9.21/-3.31in	-105/84/-84 / -4.13/3.31/-3.31in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



Bolt joint



Dimensions in mm [in]

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

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Configuration 1

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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, 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

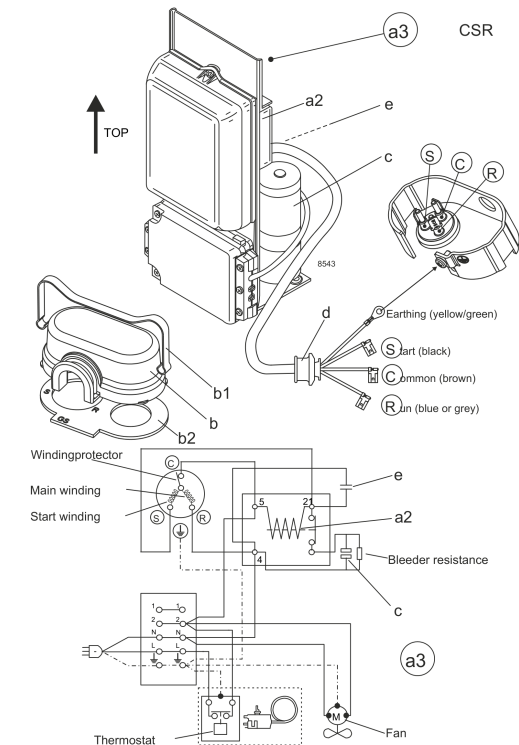
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components (cover, clamp, gasket: pre assembled)

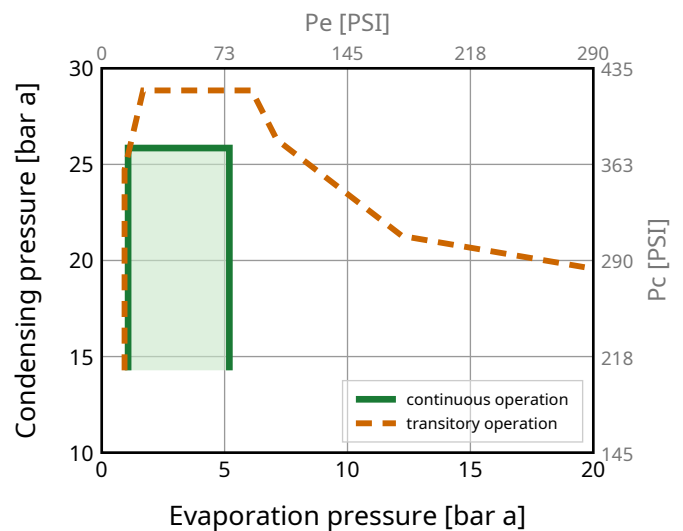
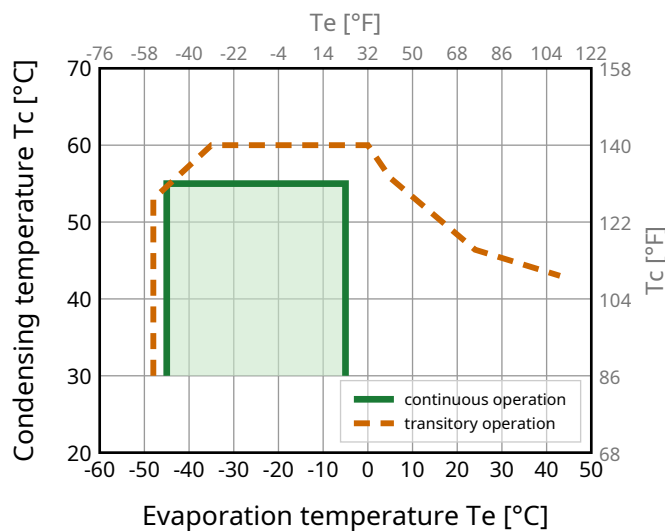
a3 GS starter kit 117-7074

b cover 107B9101

b2 gasket 107B9100

b1 clamp 107B9104

Operation Pressure Range



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Configuration 1

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Standard Conditions

R404A, 220 V/50 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	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
-25 -13	45 113	32 89.6	45 113	1636	5582	1407	1.33	4.53	1232	6.19	44.03	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	m
[°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

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Configuration 2

Sales code:
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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, 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

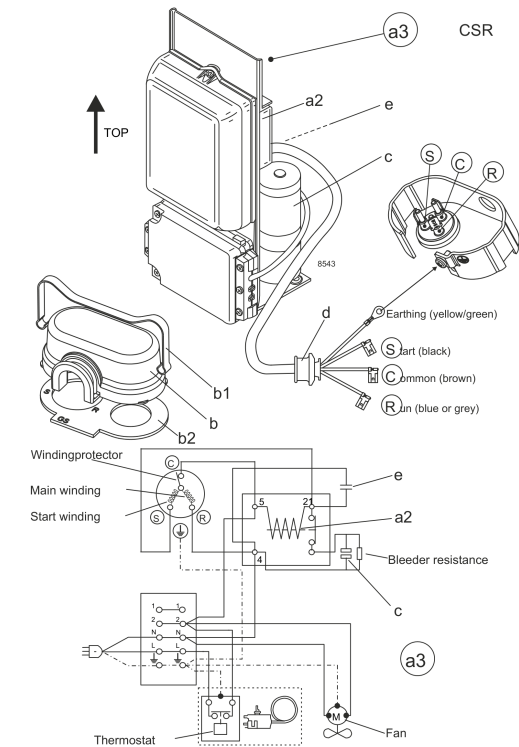
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Electrical Accessories / Wiring Diagram



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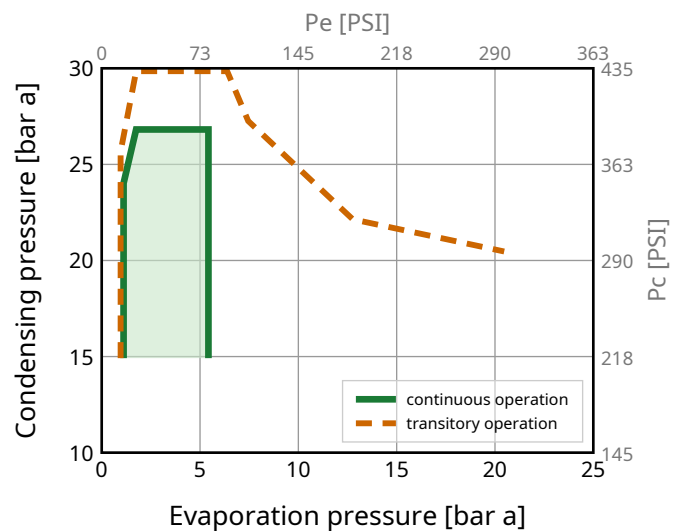
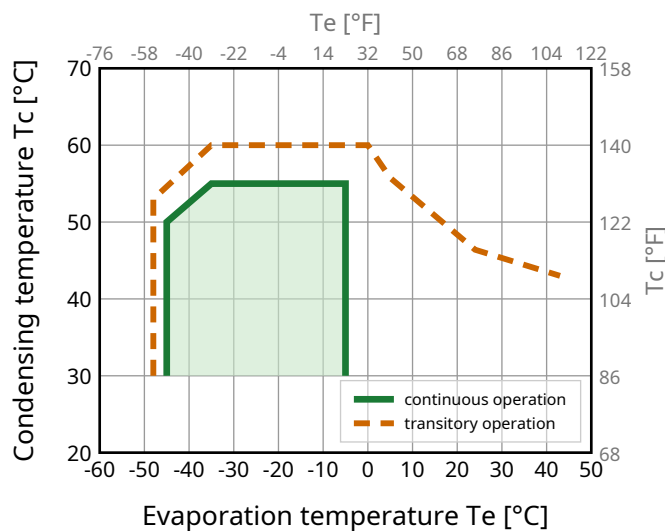
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Operation Pressure Range



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Standard Conditions

R452A, 220 V/50 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	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
-25 -13	45 113	32 89.6	45 113	1579	5389	1358	1.38	4.71	1145	5.32	44.16	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	m
[°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