Single
Packs

Single Pack GS34MLX 220-240V 50Hz CSCR

Single pack code number: **195B4630**

Position	Title	Code	Amount
1	Compressor GS34MLX	107B0504	1
2	GS starting device (600mm)	117-7056	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
GS34MLX

Sales code:
107B0504

Compressor Data

Refrigerant(s)	**R404A / R452A**
Refr. charge - tech. limit	**2000g / 70.55oz**
Weight	**22.30 kg / 49.16lbs**
Displacement	**33.80 cm3 / 2.06cu.in**
Compressors on pallet	**48**

General – Configurations With GS34MLX

–	Conf. 1	Conf. 2	Conf. 3	Conf. 4
Motor configuration	CSCR	CSCR	CSCR	CSCR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1	1	1
Voltage range	198-254 V	198-254 V	198-254 V	198-254 V
Approvals	VDE, CCC, EAC	VDE, CCC, EAC	–	–
Starting torque	HST	HST	HST	HST
Refrigerant	R404A	R452A	R448A	R449A
Application	MBP	MBP	MBP	MBP
Hot gas defrost	OK	OK	OK	OK
Long interval pull down	OK	OK	OK	OK

Application Notes

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

Model
GS34MLX

Sales code:
107B0504

Compressor Design

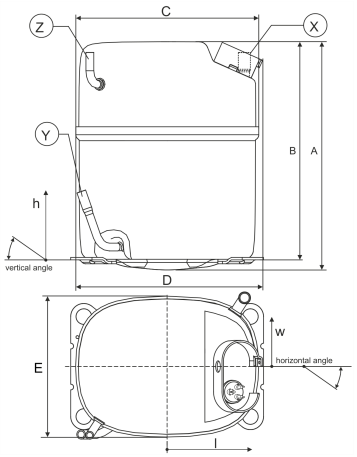
Oil type	**POE**	Motor protection	**internal**
Oil viscosity	**46cSt**	Winding resistance main	**1.5 Ohm**
Oil quantity	**906 / 30.64fl.oz**	Winding resistance aux	**5.8 Ohm**
Free gas volume comp.	**3,540 cm3 / 119.70fl.oz**	Max. discharge temp.	**120°C / 248°F**

Compressor Dimensions

Housing

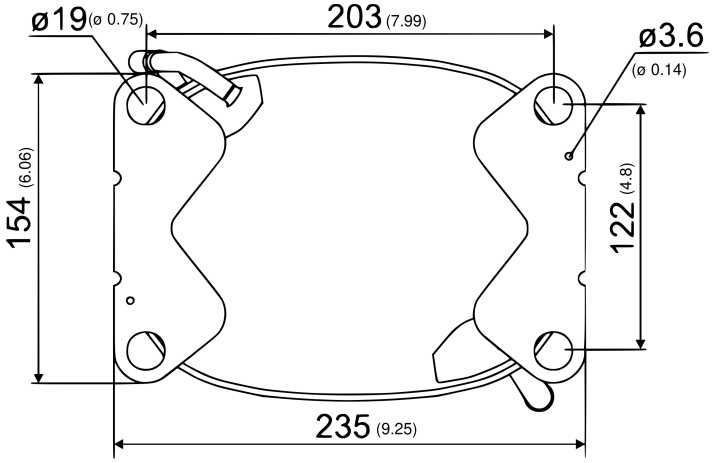
A Height	**279mm / 10.98in**
B Height	**267mm / 10.51in**
C Length shell	**224mm / 8.82in**
D Length w. cover	**232mm / 9.13in**
E Width	**173mm / 6.81in**

Find 3D Model here



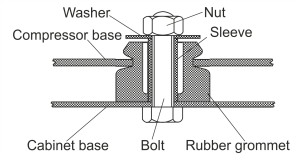
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 16.03–16.13 / 0.63–0.64in	øi 9.63–9.73 / 0.38–0.38in	øi 6.4–6.6 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	90°	71°	90°
Position l/h/w [mm]	-94.5/234/-84 / -3.72/9.21/-3.31in	-105/84/-84 / -4.13/3.31/-3.31in	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
GS34MLX Configuration 1

Sales code:
107B0504

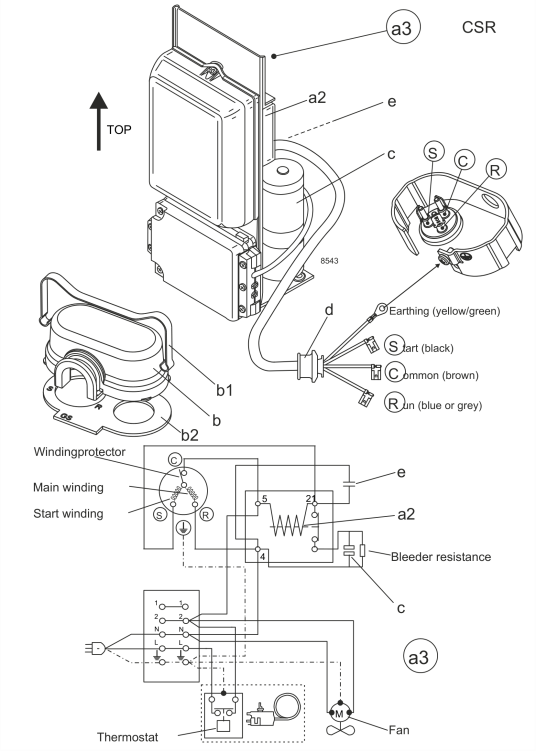
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R404A**
Application	**MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, CCC, EAC**
Starting device type	**relay**
Run capacitor	**20 µF**
Start capacitor	**100 µF**
LRA (locked rotor amps / 4s/ U(N))	**46 A**
RLA (rated load amps / 1s/ U(N))	**11 A**
Cut in current (U(N))	**46 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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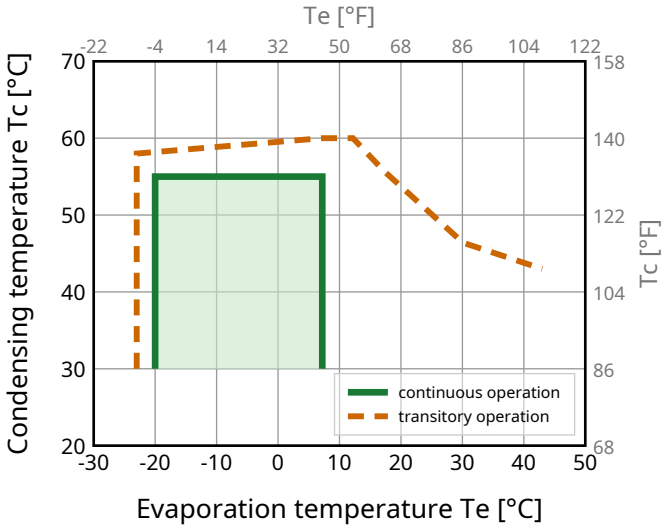
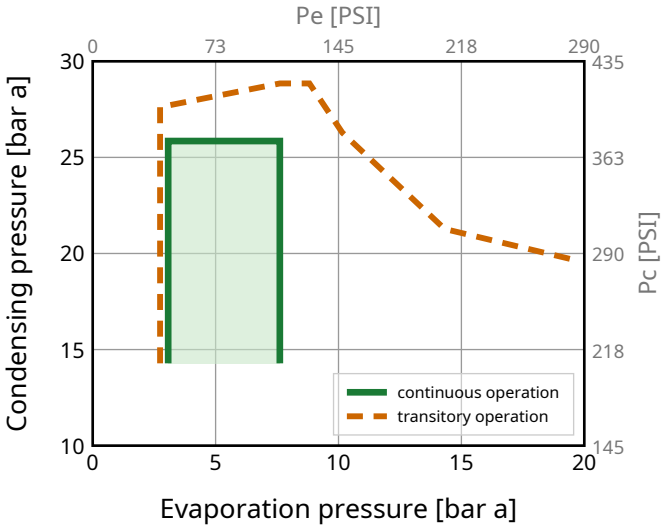
Components (cover, clamp, gasket: pre assembled)
a3 GS starter kit (600mm) 117-7056
b cover 107B9101
b2 gasket 107B9100
b1 clamp 107B9104

Operation Pressure Range





Model
GS34MLX Configuration 1

Sales code:
107B0504

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]	
-6.7 20	54.4 129.9	35 95	46.1 115	**3357**	11454	2887	**1.71**	5.84	1961	10.20	92.22	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**2520**	8598	2167	**1.36**	4.65	1848	9.74	80.54	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**2953**	10076	2540	**1.71**	5.84	1725	9.28	88.79	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**3062**	10449	2634	**1.63**	5.55	1881	9.91	99.80	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**3136**	10699	2697	**1.82**	6.20	1725	9.28	86.21	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**1591**	5430	1369	**1.26**	4.31	1260	7.64	42.83	**opt MBP 2**

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]
-20	-4	**1929**	6583	1659	**1.36**	4.64	1417	8.13	56.92
-15	5	**2408**	8216	2071	**1.53**	5.23	1571	8.68	71.66
-10	14	**2953**	10076	2540	**1.71**	5.84	1725	9.28	88.79
-5	23	**3574**	12196	3074	**1.90**	6.47	1885	9.95	108.80
0	32	**4283**	14613	3683	**2.09**	7.12	2053	10.67	132.28
5	41	**5088**	17361	4376	**2.28**	7.77	2235	11.45	159.91
7.2	45	**5476**	18684	4709	**2.36**	8.06	2320	11.82	173.62

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

-20	-4	**1508**	5145	1297	**1.02**	3.48	1480	8.38	52.34
-15	5	**1898**	6475	1632	**1.14**	3.89	1665	9.03	66.55
-10	14	**2337**	7974	2010	**1.26**	4.31	1848	9.74	82.96
-5	23	**2836**	9676	2439	**1.40**	4.76	2033	10.50	102.14
0	32	**3405**	11617	2928	**1.53**	5.22	2223	11.33	124.76
5	41	**4054**	13832	3486	**1.67**	5.71	2424	12.21	151.66
7.2	45	**4368**	14903	3756	**1.74**	5.92	2516	12.62	165.11

Model
GS34MLX Configuration 2

Sales code:
107B0504

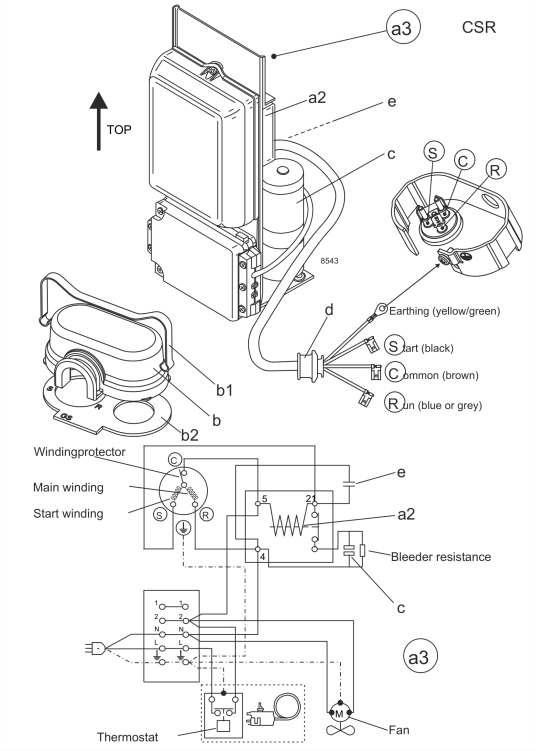
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R452A**
Application	**MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, CCC, EAC**
Starting device type	**relay**
Run capacitor	**20 µF**
Start capacitor	**100 µF**
LRA (locked rotor amps / 4s/ U(N))	**46 A**
RLA (rated load amps / 1s/ U(N))	**11 A**
Cut in current (U(N))	**46 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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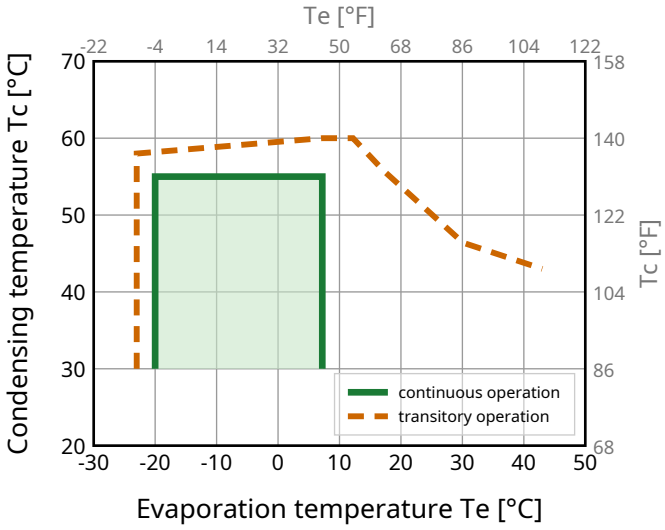
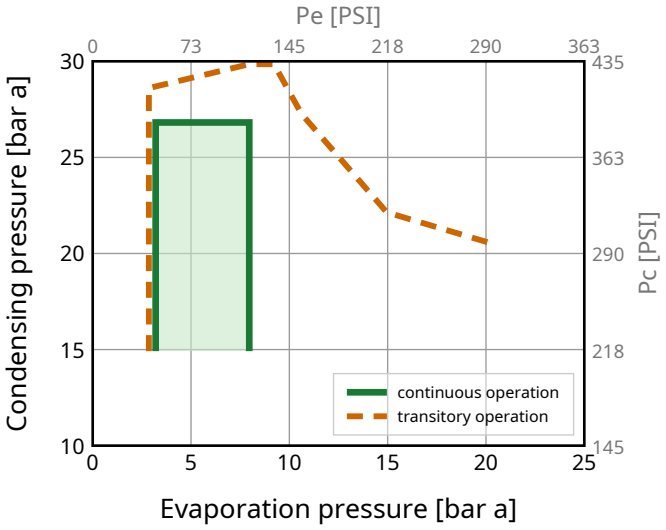
Components (cover, clamp, gasket: pre assembled)
a3 GS starter kit (600mm) 117-7056
b cover 107B9101
b2 gasket 107B9100
b1 clamp 107B9104

Operation Pressure Range





Model
GS34MLX Configuration 2

Sales code:
107B0504

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]	
-6.7 20	54.4 129.9	35 95	46.1 115	**3428**	11697	2948	**1.85**	6.32	1851	9.90	97.79	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**2569**	8766	2210	**1.48**	5.05	1738	9.47	84.92	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**2954**	10080	2541	**1.82**	6.20	1627	9.05	92.15	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**3105**	10594	2670	**1.75**	5.96	1778	9.62	104.80	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**3134**	10692	2695	**1.93**	6.57	1627	9.05	89.47	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**1547**	5278	1330	**1.32**	4.51	1169	7.31	43.25	**opt MBP 2**

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]
-20	-4	**1896**	6471	1631	**1.43**	4.89	1323	7.89	58.05
-15	5	**2388**	8149	2054	**1.62**	5.53	1474	8.47	73.74
-10	14	**2954**	10080	2541	**1.82**	6.20	1627	9.05	92.15
-5	23	**3607**	12308	3102	**2.02**	6.89	1786	9.65	113.90
0	32	**4360**	14878	3750	**2.23**	7.61	1955	10.30	139.68
5	41	**5226**	17832	4495	**2.44**	8.34	2139	11.00	170.36
7.2	45	**5646**	19266	4856	**2.54**	8.66	2226	11.33	185.67

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

-20	-4	**1508**	5144	1297	**1.10**	3.74	1375	8.09	54.04
-15	5	**1918**	6544	1649	**1.23**	4.20	1556	8.78	69.45
-10	14	**2387**	8144	2053	**1.37**	4.69	1738	9.47	87.47
-5	23	**2927**	9988	2517	**1.52**	5.20	1922	10.17	108.81
0	32	**3552**	12119	3055	**1.68**	5.73	2115	10.91	134.30
5	41	**4274**	14583	3676	**1.84**	6.28	2321	11.69	164.96
7.2	45	**4626**	15784	3978	**1.92**	6.53	2416	12.05	180.40

Model
GS34MLX Configuration 3

Sales code:
107B0504

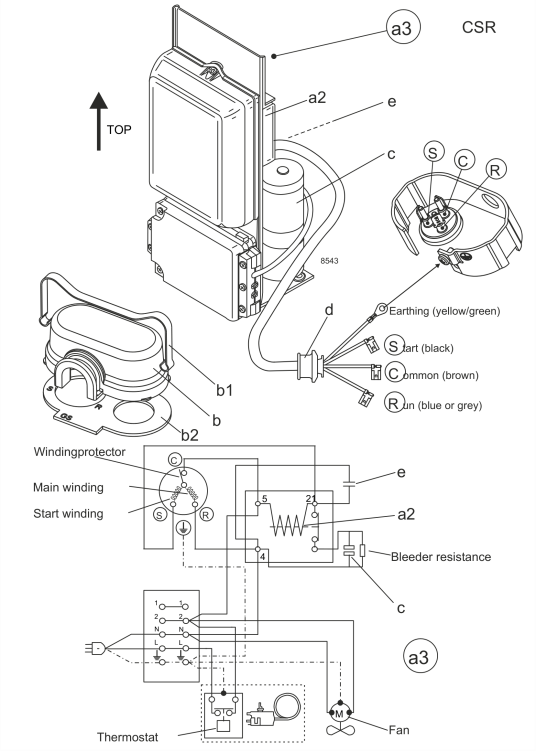
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R448A**
Application	**MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Starting device type	**relay**
Run capacitor	**20 µF**
Start capacitor	**100 µF**
LRA (locked rotor amps / 4s/ U(N))	**46 A**
RLA (rated load amps / 1s/ U(N))	**11 A**
Cut in current (U(N))	**46 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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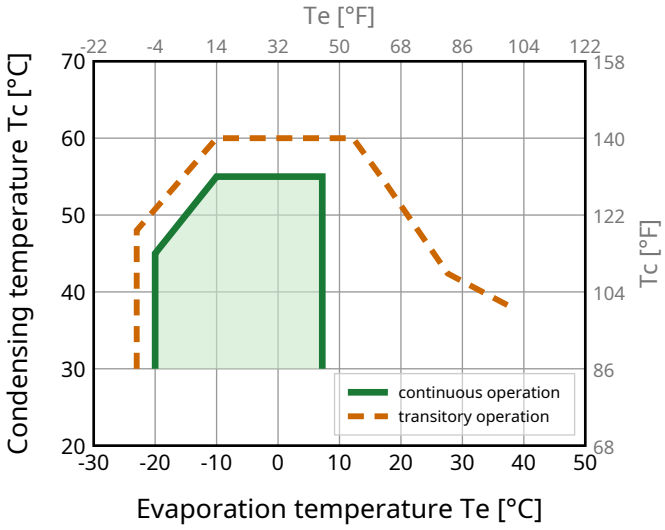
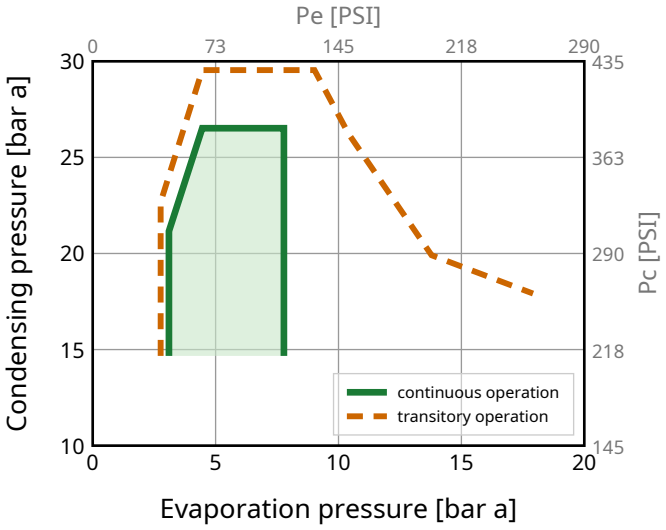
Components (cover, clamp, gasket: pre assembled)
a3 GS starter kit (600mm) 117-7056
b cover 107B9101
b2 gasket 107B9100
b1 clamp 107B9104

Operation Pressure Range





Model
GS34MLX Configuration 3

Sales code:
107B0504

Standard Conditions

R448A, 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]	
-6.7 20	54.4 129.9	35 95	46.1 115	**3213**	10963	2763	**1.83**	6.23	1758	9.55	71.11	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**2472**	8436	2126	**1.50**	5.12	1646	9.12	61.42	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**2832**	9663	2436	**1.84**	6.27	1540	8.72	67.22	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**3029**	10336	2605	**1.79**	6.12	1688	9.28	76.56	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**2949**	10062	2536	**1.92**	6.53	1540	8.72	65.26	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**1415**	4828	1217	**1.30**	4.43	1090	7.01	30.73	**opt MBP 2**

Performance Tables

R448A, 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]
-20	-4	**1785**	6091	1535	**1.44**	4.91	1241	7.58	41.66
-15	5	**2270**	7744	1952	**1.63**	5.58	1389	8.15	53.38
-10	14	**2832**	9663	2436	**1.84**	6.27	1540	8.72	67.22
-5	23	**3486**	11895	2998	**2.06**	7.01	1696	9.31	83.65
0	32	**4246**	14487	3651	**2.28**	7.78	1863	9.95	103.21
5	41	**5124**	17484	4407	**2.51**	8.55	2044	10.64	126.53
7.2	45	**5552**	18944	4775	**2.61**	8.90	2130	10.96	138.17

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

-20	-4	**1456**	4969	1252	**1.13**	3.86	1289	7.77	38.41
-15	5	**1872**	6389	1610	**1.28**	4.35	1467	8.45	49.82
-10	14	**2354**	8030	2024	**1.43**	4.88	1646	9.12	63.27
-5	23	**2913**	9938	2505	**1.59**	5.44	1829	9.82	79.28
0	32	**3564**	12161	3065	**1.76**	6.02	2020	10.55	98.45
5	41	**4321**	14744	3716	**1.94**	6.63	2225	11.32	121.49
7.2	45	**4691**	16006	4034	**2.02**	6.90	2320	11.68	133.09

Model
GS34MLX Configuration 4

Sales code:
107B0504

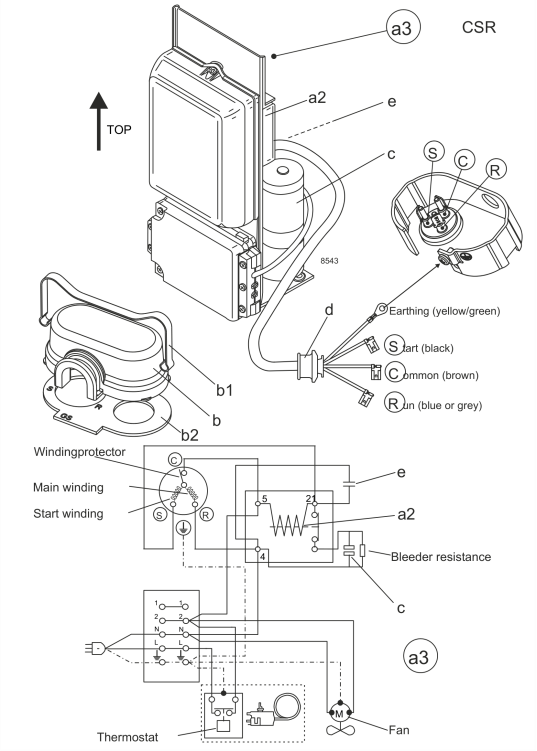
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R449A**
Application	**MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Starting device type	**relay**
Run capacitor	**20 µF**
Start capacitor	**100 µF**
LRA (locked rotor amps / 4s/ U(N))	**46 A**
RLA (rated load amps / 1s/ U(N))	**11 A**
Cut in current (U(N))	**46 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)
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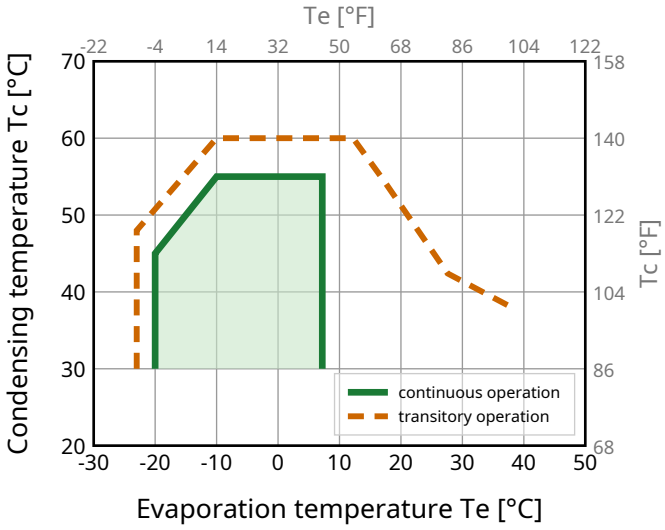
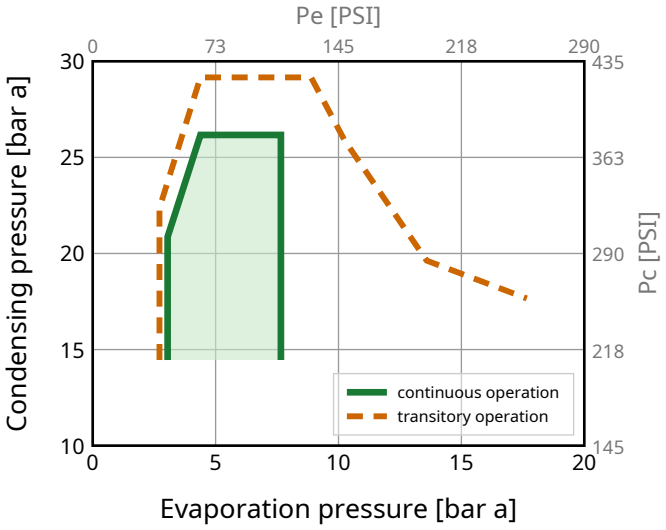
b cover 107B9101
b2 gasket 107B9100
b1 clamp 107B9104

Operation Pressure Range





Model
GS34MLX Configuration 4

Sales code:
107B0504

Standard Conditions

R449A, 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]	
-6.7 20	54.4 129.9	35 95	46.1 115	**3198**	10913	2751	**1.83**	6.24	1748	9.51	71.51	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**2459**	8390	2115	**1.50**	5.12	1637	9.09	61.78	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**2817**	9612	2423	**1.84**	6.27	1532	8.69	67.61	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**3011**	10274	2590	**1.79**	6.12	1679	9.25	76.98	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**2936**	10016	2525	**1.92**	6.53	1532	8.69	65.64	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**1411**	4814	1213	**1.30**	4.43	1087	7.00	30.95	**opt MBP 2**

Performance Tables

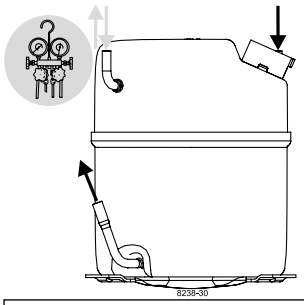
R449A, 220 V/50 Hz, CSCR, fan 3m/s

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]
-20	-4	**1777**	6064	1528	**1.44**	4.90	1236	7.57	41.94
-15	5	**2258**	7706	1942	**1.63**	5.57	1384	8.13	53.71
-10	14	**2817**	9612	2423	**1.84**	6.27	1532	8.69	67.61
-5	23	**3467**	11829	2982	**2.06**	7.01	1687	9.28	84.11
0	32	**4222**	14404	3630	**2.28**	7.78	1852	9.90	103.76
5	41	**5094**	17382	4381	**2.51**	8.56	2030	10.58	127.18
7.2	45	**5520**	18833	4747	**2.61**	8.91	2114	10.90	138.88

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

-20	-4	**1448**	4942	1246	**1.13**	3.85	1284	7.75	38.67
-15	5	**1861**	6351	1601	**1.27**	4.35	1461	8.42	50.13
-10	14	**2339**	7979	2011	**1.43**	4.88	1637	9.09	63.64
-5	23	**2894**	9873	2489	**1.59**	5.43	1817	9.78	79.72
0	32	**3540**	12079	3045	**1.76**	6.02	2006	10.49	98.98
5	41	**4292**	14644	3691	**1.95**	6.64	2206	11.25	122.14
7.2	45	**4660**	15898	4007	**2.03**	6.92	2299	11.60	133.79



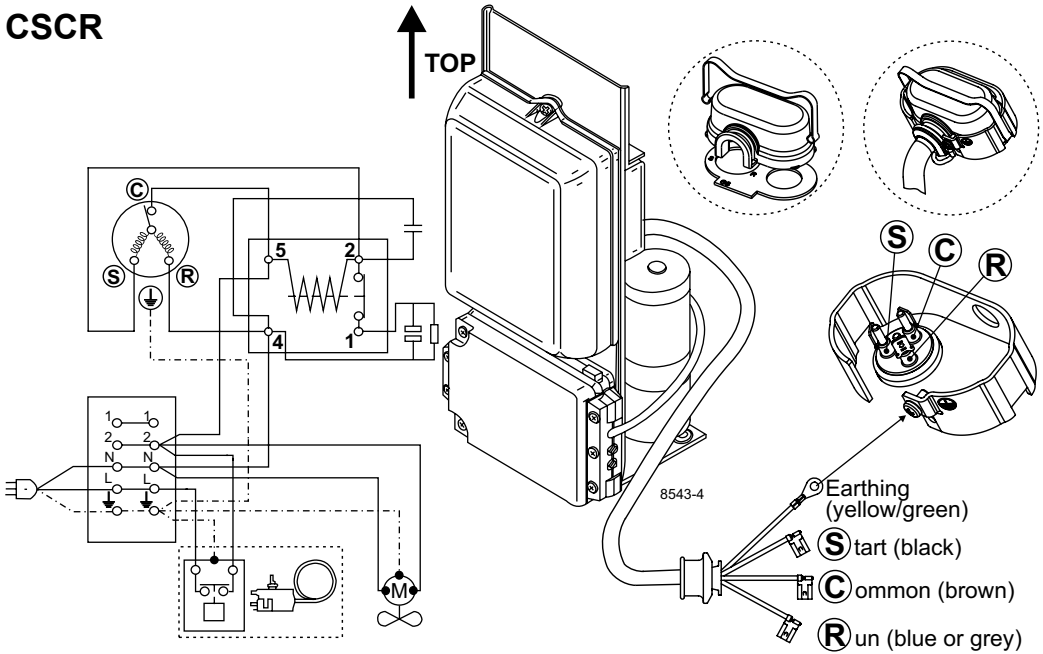
GS Compressors

SECOP

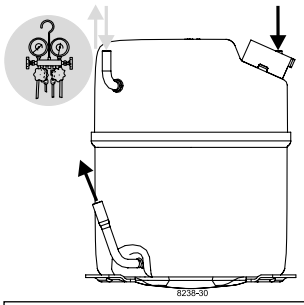
Keep electrical equipment clear from oil, chemicals, and water

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

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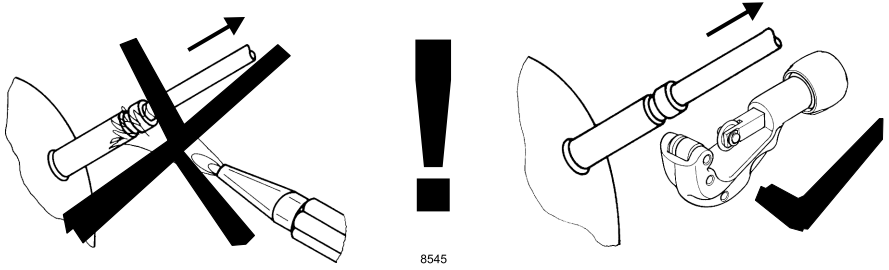
Service/Repair – R1234yf

(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**