

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

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Compressor Design

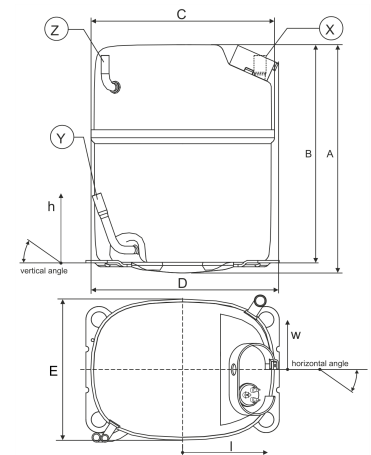
Oil type	POE	Motor protection	internal
Oil viscosity	46cSt	Winding resistance main	1.5 Ohm
Oil quantity	906 / 30.64fl.oz	Winding resistance aux	5.8 Ohm
Free gas volume comp.	3,540 cm³ / 119.70fl.oz	Max. discharge temp.	120°C / 248°F

Compressor Dimensions

Housing

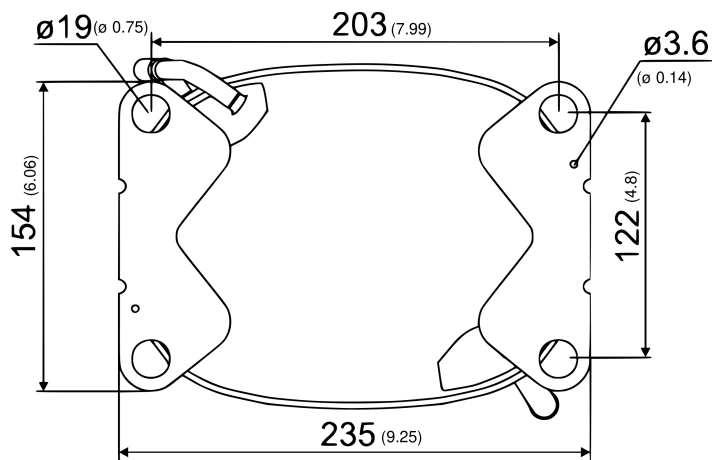
A Height	279mm / 10.98in
B Height	267mm / 10.51in
C Length shell	224mm / 8.82in
D Length w. cover	232mm / 9.13in
E Width	173mm / 6.81in

[Find 3D Model here](#)

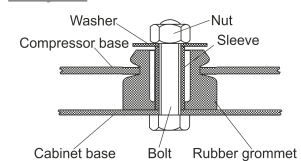


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 16.03–16.13 / 0.63–0.64in	øi 9.63–9.73 / 0.38–0.38in	øi 6.4–6.6 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	90°	71°	90°
Position l/h/w [mm]	-94.5/234/-84 / -3.72/9.21/-3.31in	-105/84/-84 / -4.13/3.31/-3.31in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



Bolt joint



Dimensions in mm [in]

	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

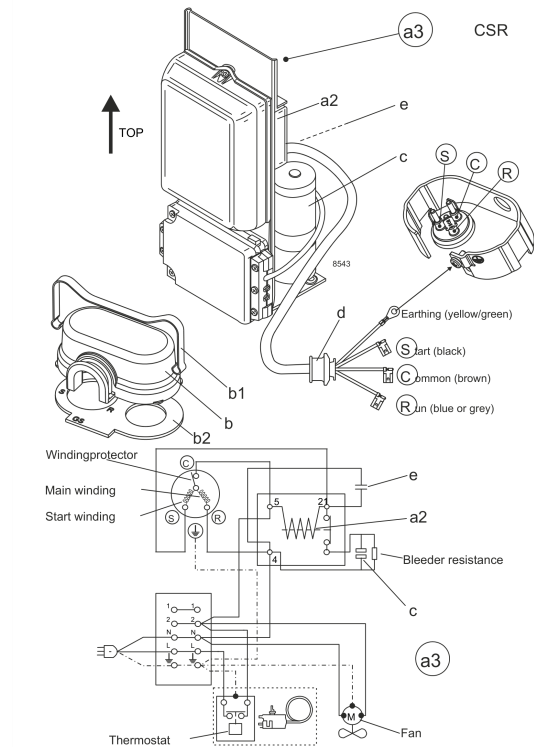
Ambient temperature range: 10 - 43°C / 50 - 109°F

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)

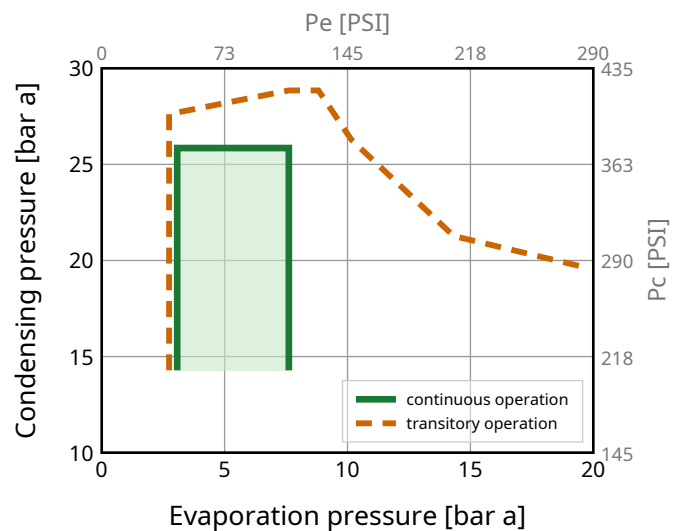
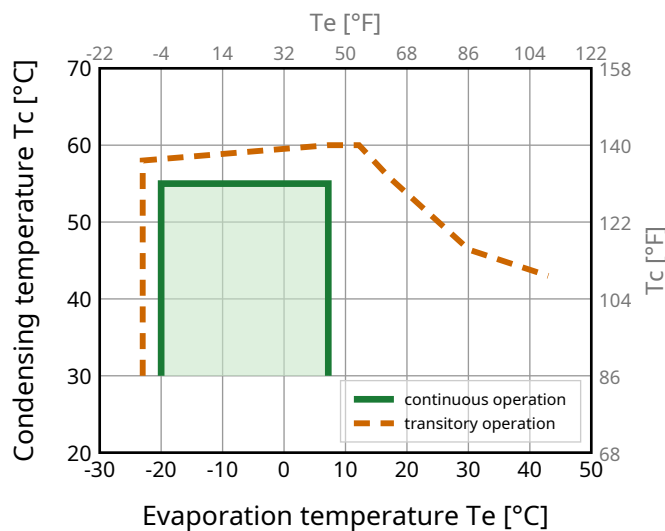
a3 GS starter kit (600mm) 117-7056

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	m	
[°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	m
[°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

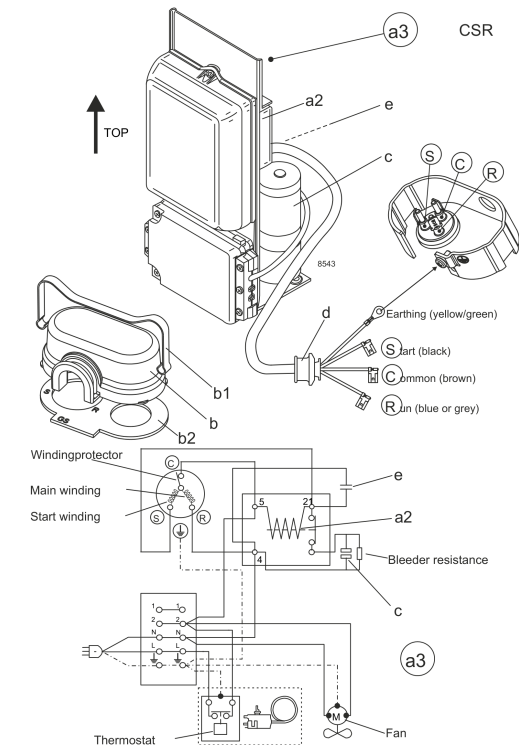
Ambient temperature range: 10 - 43°C / 50 - 109°F

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)

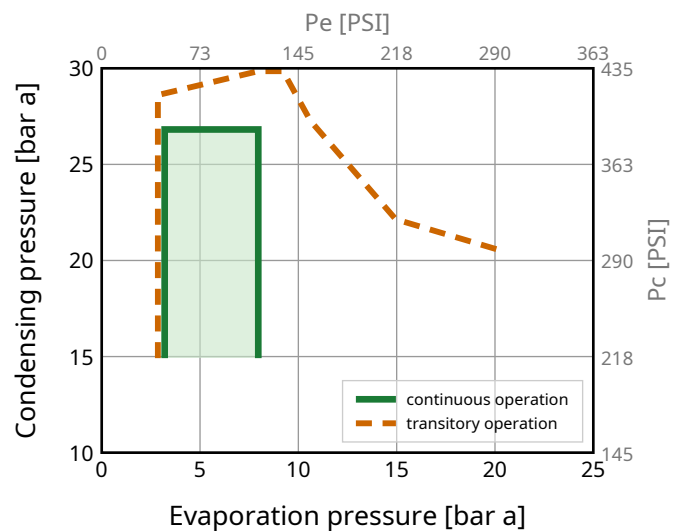
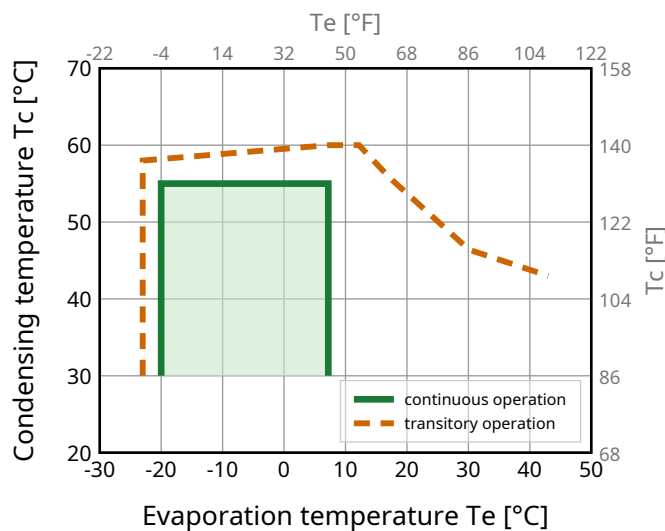
a3 GS starter kit (600mm) 117-7056

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	m	
[°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	m
[°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

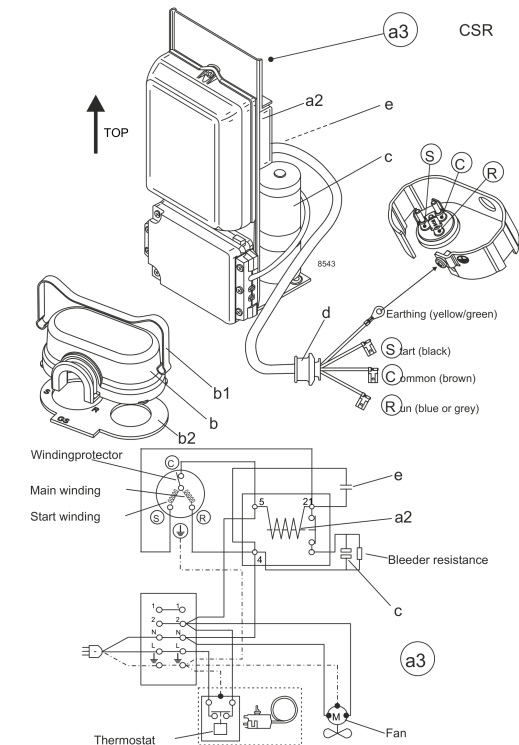
Ambient temperature range: 10 - 38°C / 50 - 100°F

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)

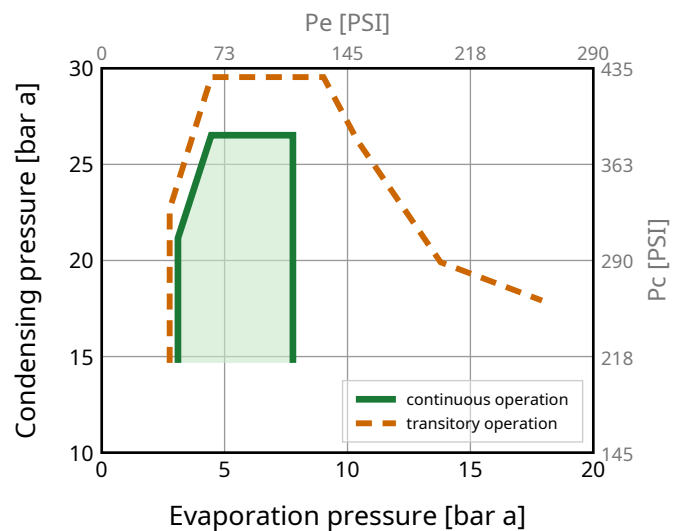
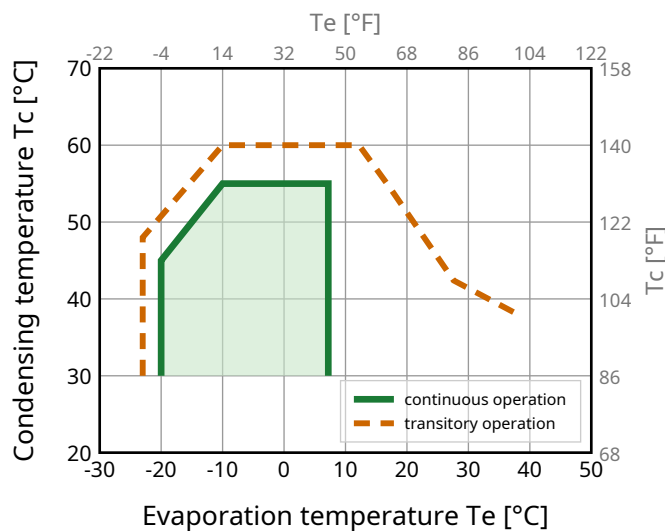
a3 GS starter kit (600mm) 117-7056

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	m	
[°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	m
[°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

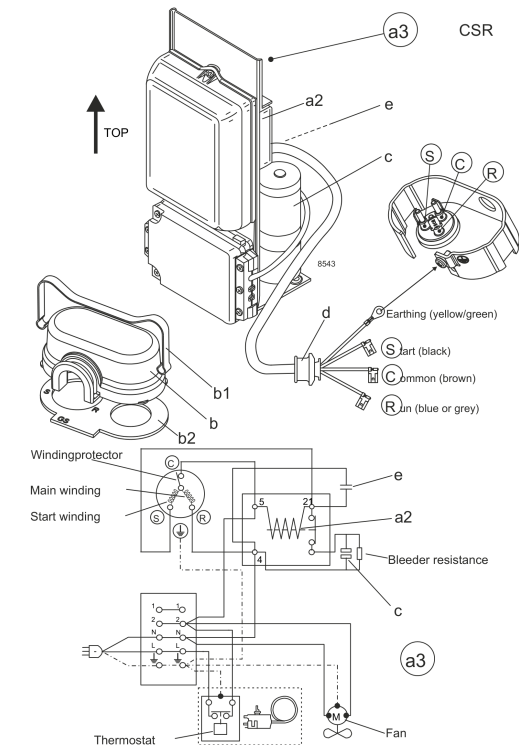
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Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components (cover, clamp, gasket: pre assembled)

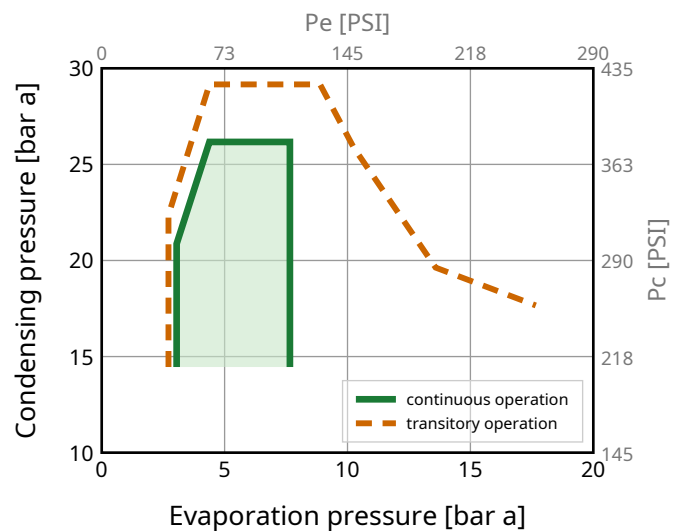
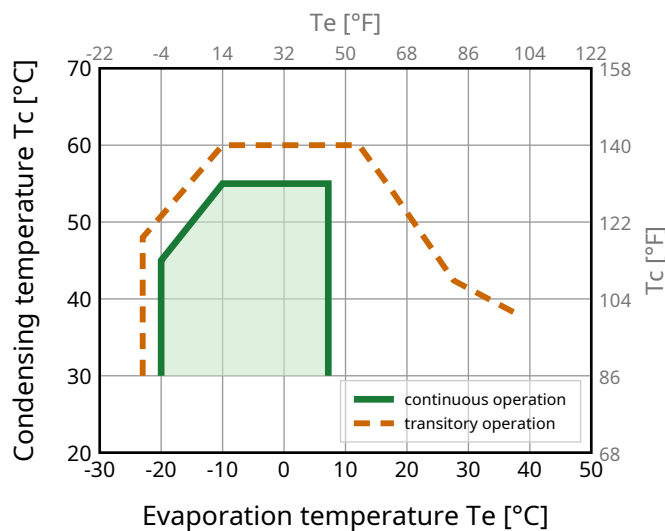
a3 GS starter kit (600mm) 117-7056

b cover 107B9101

b2 gasket 107B9100

b1 clamp 107B9104

Operation Pressure Range



Model
GS34MLX

Configuration 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	m	
[°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	m
[°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