Single Pack GS34MFX 220-240V 50Hz CSCR

Single pack code number: **195B4634**

Position	Title	Code	Amount
1	Compressor GS34MFX	107B0701	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
GS34MFX

Sales code:
107B0701

Compressor Data

Refrigerant(s)	**R134a / R513A**
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 GS34MFX

–	**Conf. 1**	**Conf. 2**	**Conf. 3**
Motor configuration	CSCR	CSCR	CSCR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1	1
Voltage range	198-254 V	198-254 V	198-254 V
Approvals	VDE	VDE	–
Starting torque	HST	HST	HST
Refrigerant	R134a	R513A	R1234yf
Application	MBP	MBP	MBP
Hot gas defrost	OK	OK	OK
Long interval pull down	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
GS34MFX

Sales code:
107B0701

Compressor Design

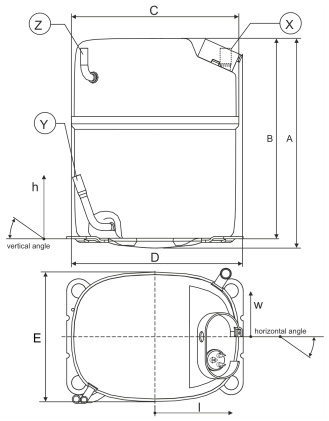
Oil type	**POE**	Winding resistance main	**2.9 Ohm**
Oil viscosity	**32,5cSt**	Winding resistance aux	**5 Ohm**
Oil quantity	**902 / 30.50fl.oz**	Max. winding temp.	**135 °C**
Free gas volume comp.	**3,350 cm3 / 113.28fl.oz**	Max. discharge temp.	**130°C / 266°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

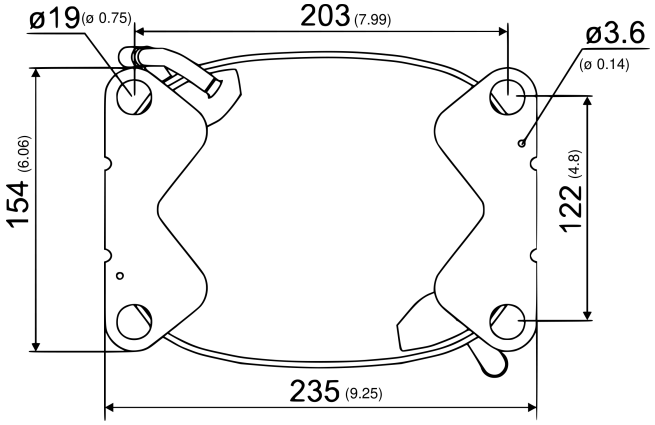
A Height	**259mm / 10.20in**
B Height	**247mm / 9.72in**
C Length shell	**224mm / 8.82in**
D Length w. cover	**232mm / 9.13in**
E Width	**173mm / 6.81in**

Find 3D Model here



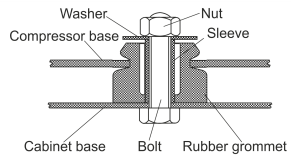
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 12.75–13.05 / 0.50–0.51in	øi 8.15–8.25 / 0.32–0.32in	øi 6.4–6.6 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	0°	0°	0°
Vertical angle ±2°	90°	71°	90°
Position l/h/w [mm]	-94.5/234/-84 / -3.72/9.21/-3.31in	-105/84/-84 / -4.13/3.31/-3.31in	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
GS34MFX Configuration 1

Sales code:
107B0701

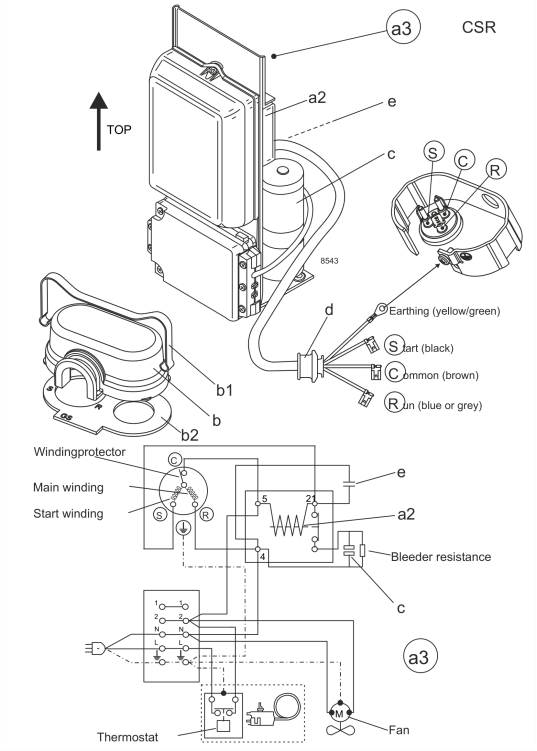
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE**
Starting device type	**relay**
Run capacitor	**20 µF**
Start capacitor	**100 µF**
LRA (locked rotor amps / 4s/ U(N))	**26 A**
RLA (rated load amps / 1s/ U(N))	**4.8 A**
Cut in current (U(N))	**26 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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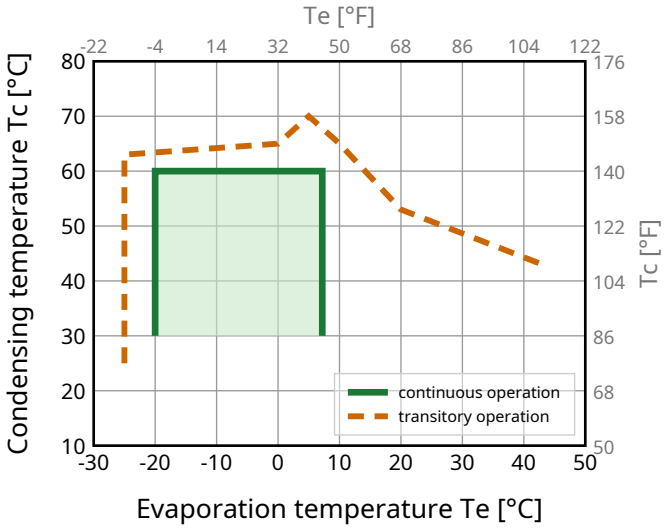
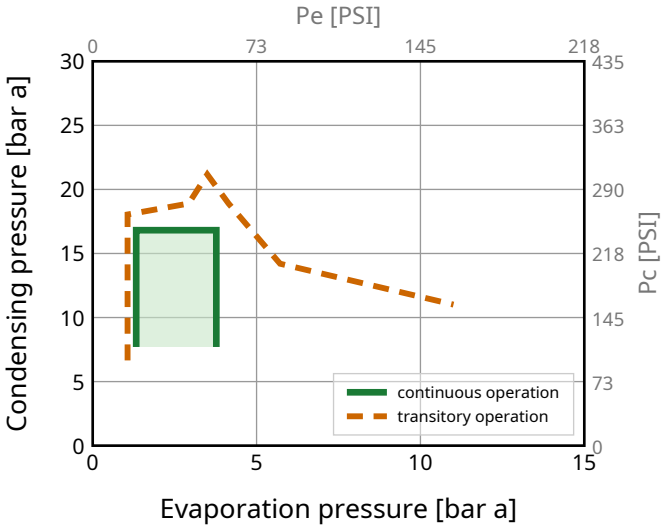
Components (cover, clamp, gasket: pre assembled)
a3 GS starter kit (600mm) 117-7056
b cover 107B9101
b2 gasket 107B9100
b1 clamp 107B9104

Operation Pressure Range





Model
GS34MFX Configuration 1

Sales code:
107B0701

Standard Conditions

R134a, 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	**1883**	6424	1619	**1.79**	6.11	1052	5.12	41.00	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**1454**	4961	1250	**1.48**	5.06	980	4.79	35.05	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1648**	5624	1418	**1.81**	6.19	909	4.59	38.44	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1796**	6127	1544	**1.79**	6.11	1003	4.99	44.13	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1709**	5830	1470	**1.88**	6.41	909	4.59	37.32	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**772**	2634	664	**1.23**	4.19	628	3.43	16.69	**opt MBP 2**

Performance Tables

R134a, 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	**998**	3405	858	**1.38**	4.72	722	3.78	23.07
-15	5	**1296**	4422	1115	**1.59**	5.43	815	4.16	30.08
-10	14	**1648**	5624	1418	**1.81**	6.19	909	4.59	38.44
-5	23	**2064**	7041	1775	**2.05**	6.99	1008	5.06	48.40
0	32	**2550**	8700	2193	**2.29**	7.80	1115	5.58	60.21
5	41	**3115**	10630	2679	**2.52**	8.61	1234	6.13	74.17
7.2	45	**3392**	11572	2917	**2.63**	8.96	1291	6.39	81.08

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

-20	-4	**815**	2782	701	**1.10**	3.75	742	3.86	20.93
-15	5	**1081**	3687	929	**1.25**	4.28	862	4.30	27.87
-10	14	**1392**	4751	1198	**1.42**	4.85	980	4.79	36.10
-5	23	**1759**	6002	1513	**1.60**	5.47	1098	5.31	45.90
0	32	**2188**	7467	1882	**1.79**	6.12	1220	5.88	57.54
5	41	**2689**	9176	2313	**1.99**	6.80	1349	6.49	71.35
7.2	45	**2934**	10012	2523	**2.08**	7.10	1409	6.78	78.21

Model
GS34MFX Configuration 2

Sales code:
107B0701

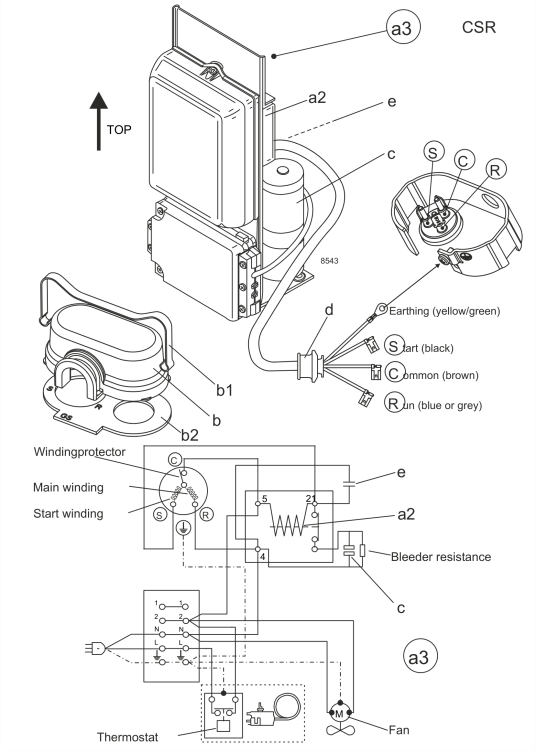
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R513A**
Application	**MBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE**
Starting device type	**relay**
Run capacitor	**20 µF**
Start capacitor	**100 µF**
LRA (locked rotor amps / 4s/ U(N))	**26 A**
RLA (rated load amps / 1s/ U(N))	**4.8 A**
Cut in current (U(N))	**26 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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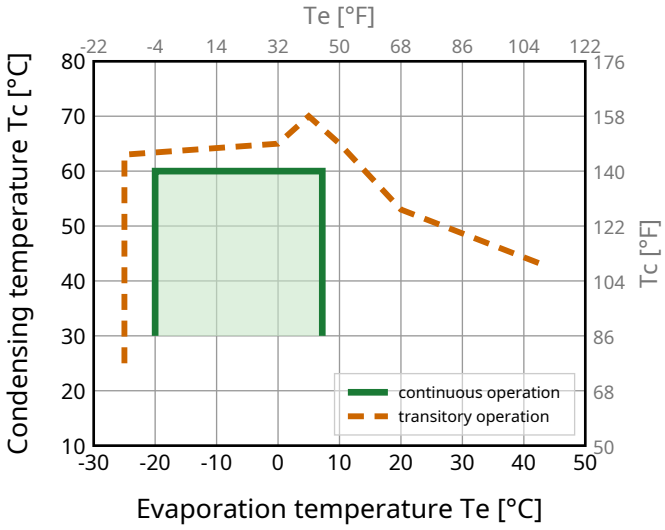
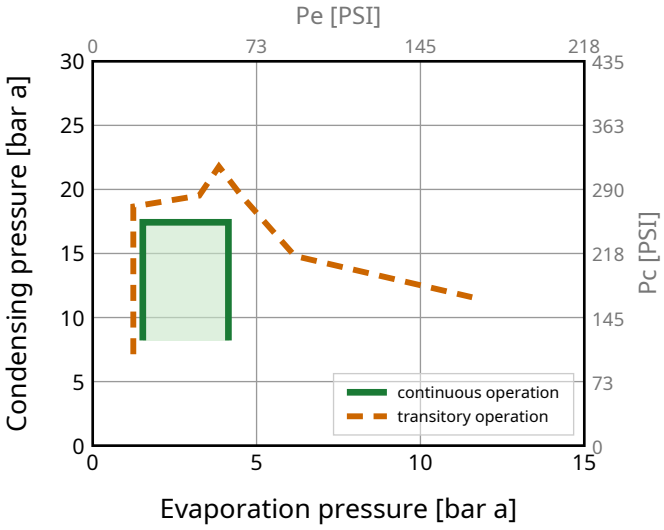
Components (cover, clamp, gasket: pre assembled)
a3 GS starter kit (600mm) 117-7056
b cover 107B9101
b2 gasket 107B9100
b1 clamp 107B9104

Operation Pressure Range





Model
GS34MFX Configuration 2

Sales code:
107B0701

Standard Conditions

R513A, 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	**2002**	6830	1722	**1.77**	6.04	1130	5.59	49.91	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**1530**	5221	1316	**1.45**	4.94	1057	5.28	42.94	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1734**	5918	1492	**1.78**	6.06	976	4.93	46.96	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1864**	6360	1603	**1.73**	5.91	1075	5.35	53.67	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1821**	6215	1566	**1.87**	6.37	976	4.93	45.59	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**853**	2909	733	**1.24**	4.21	690	3.70	21.10	**opt MBP 2**

Performance Tables

R513A, 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	**1073**	3661	923	**1.36**	4.65	787	4.12	28.75
-15	5	**1377**	4699	1184	**1.56**	5.33	881	4.52	37.08
-10	14	**1734**	5918	1492	**1.78**	6.06	976	4.93	46.96
-5	23	**2152**	7341	1850	**2.00**	6.82	1076	5.36	58.65
0	32	**2636**	8994	2267	**2.22**	7.58	1186	5.83	72.43
5	41	**3195**	10900	2747	**2.44**	8.33	1309	6.36	88.63
7.2	45	**3466**	11826	2981	**2.53**	8.64	1369	6.62	96.62

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

-20	-4	**866**	2956	745	**1.06**	3.63	814	4.23	26.25
-15	5	**1133**	3865	974	**1.21**	4.13	937	4.76	34.50
-10	14	**1443**	4922	1241	**1.36**	4.66	1057	5.28	44.22
-5	23	**1804**	6154	1551	**1.53**	5.22	1178	5.79	55.71
0	32	**2223**	7584	1911	**1.71**	5.82	1303	6.33	69.28
5	41	**2707**	9236	2328	**1.88**	6.42	1438	6.91	85.29
7.2	45	**2942**	10040	2531	**1.96**	6.69	1501	7.18	93.22

Model
GS34MFX Configuration 3

Sales code:
107B0701

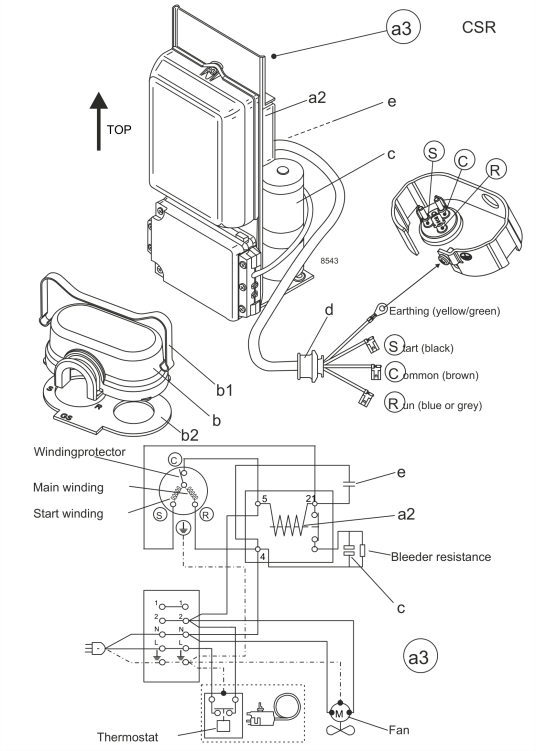
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R1234yf**
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))	**26 A**
RLA (rated load amps / 1s/ U(N))	**4.8 A**
Cut in current (U(N))	**26 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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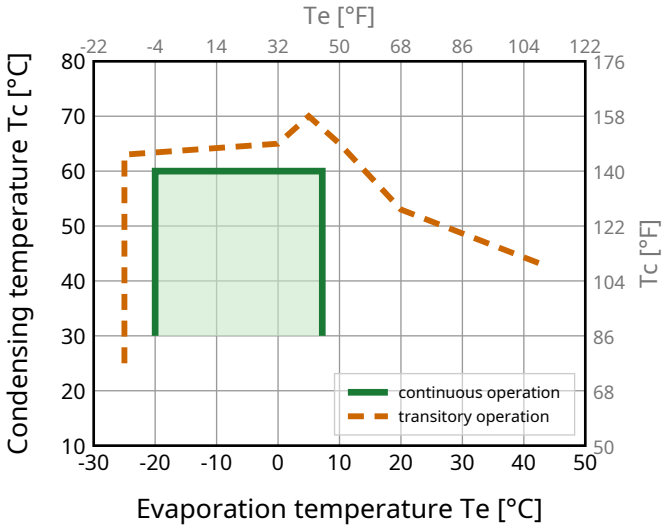
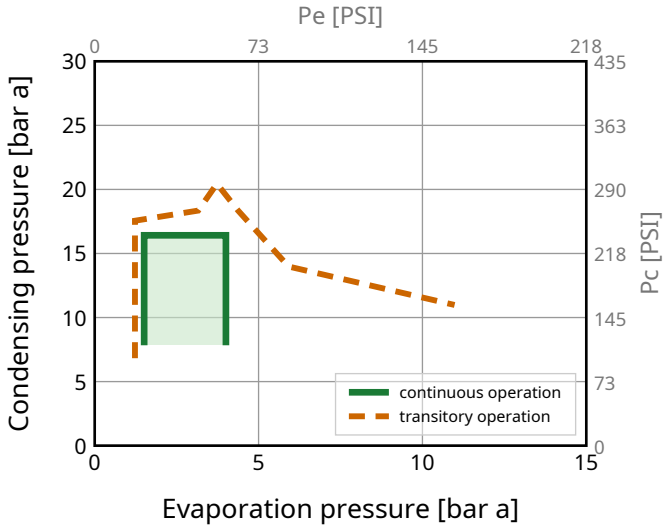
Components (cover, clamp, gasket: pre assembled)
a3 GS starter kit (600mm) 117-7056
b cover 107B9101
b2 gasket 107B9100
b1 clamp 107B9104

Operation Pressure Range





Model
GS34MFX Configuration 3

Sales code:
107B0701

Standard Conditions

R1234yf, 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	**1821**	6214	1566	**1.72**	5.85	1062	5.88	49.19	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**1386**	4728	1192	**1.39**	4.74	998	5.60	42.53	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1578**	5382	1357	**1.71**	5.82	924	5.28	46.76	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1676**	5717	1441	**1.66**	5.65	1012	5.66	53.09	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1670**	5699	1437	**1.81**	6.17	924	5.28	45.36	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**802**	2736	690	**1.21**	4.12	664	4.05	21.51	**opt MBP 2**

Performance Tables

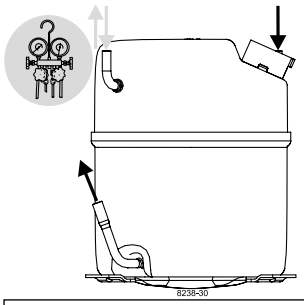
R1234yf, 220 V/50 Hz, CSCR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | 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	**1049**	3578	902	**1.39**	4.75	754	4.50	28.23
-15	5	**1336**	4557	1149	**1.59**	5.43	839	4.90	36.10
-10	14	**1670**	5699	1437	**1.81**	6.17	924	5.28	45.36
-5	23	**2060**	7028	1771	**2.04**	6.94	1012	5.66	56.24
0	32	**2511**	8567	2159	**2.27**	7.73	1108	6.06	69.00
5	41	**3030**	10340	2606	**2.49**	8.51	1216	6.51	83.93
7.2	45	**3283**	11201	2823	**2.59**	8.84	1268	6.72	91.27

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-20	-4	**844**	2880	726	**1.09**	3.71	777	4.59	25.66
-15	5	**1096**	3738	942	**1.23**	4.20	890	5.12	33.44
-10	14	**1386**	4728	1192	**1.39**	4.74	998	5.60	42.53
-5	23	**1722**	5875	1481	**1.56**	5.32	1104	6.05	53.18
0	32	**2111**	7203	1816	**1.74**	5.94	1212	6.50	65.69
5	41	**2560**	8736	2202	**1.93**	6.59	1327	6.97	80.37
7.2	45	**2779**	9483	2390	**2.01**	6.87	1380	7.18	87.61



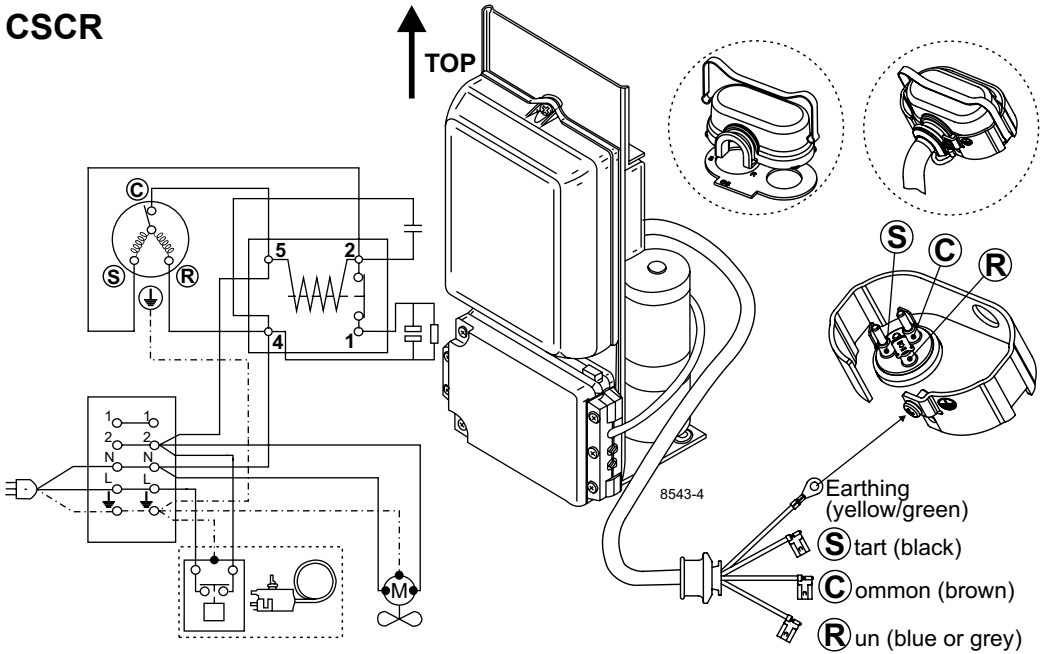
GS Compressors

SECOP

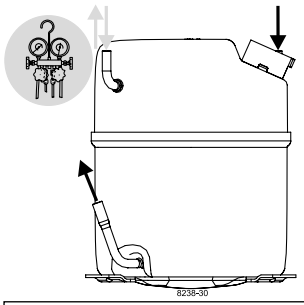
Keep electrical equipment clear from oil, chemicals, and water

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

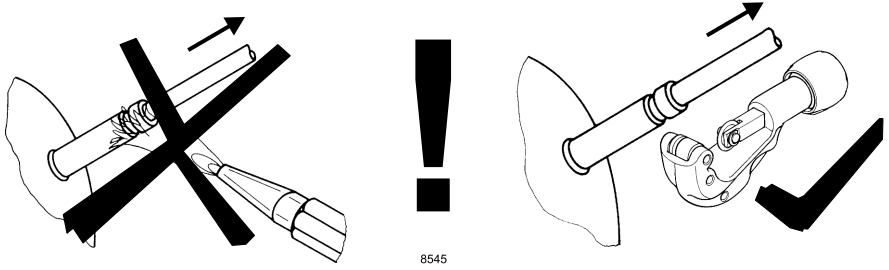
SECOP

Keep electrical equipment clear from oil, chemicals, and water

When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

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**