

Technical Data Sheet

Compressor model **GP14FC**
 Voltage **100V 50/60Hz ~1**
 Refrigerant **R134a**

APPLICATION

COMPRESSOR

MOTOR

Application	Low Back Pressure	Displacement	14,17 cm ³	Nominal Power	3/8 hp
Refrigerant	R134a	Diameter	31,19 mm	Voltage/Frequency	100V 60Hz
Evaporating Temp.	-35,0 °C to -10,0 °C	Stroke	18,54 mm	Voltage range	85-106 V
Expansion	Capillar/Valve	Net Weight	12,20 Kg	Type	CSIR
Comp. Cooling	Fan cooled	Oil type	ISO VG 32 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	350 cm ³	Locked Rotor Amps (LRA)	36,00 A
Compatible refriger.	R1234yf			Max. Cont. Current (MCC)	8,60 A
				Main W. resist. at 25°C	0,84 Ω
				Start W. resist. at 25°C	3,96 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	316 kCal/h	268 W
COP	1,23 W/W	0,94 W/W
EER	1,05 kCal/Wh	0,81 kCal/Wh
Input Power	300 W	284 W
Current	5,08 A	4,98 A

TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (A)
Evaporating temp. (T _e)	-23,3 °C	-25,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	32,0 °C	55,0 °C
Ambient temp. (T _{amb.})	32,0 °C	32,0 °C
Suction temp. (T _{suction})	32,0 °C	32,0 °C
Voltage/Frequency	100 V 60 Hz	100 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	250 µF 160 V			
Relay	Option 1			
Reference	2014 184.			
Pick-Up	18,70 A			
Drop-Out	15,60 A			
Protector	Option 1			
Reference	T0534			
Current	20,00 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	105,00 / 52,00 °C			

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	162	206	4,47	0,91	0,79
40	-30	235	243	4,71	1,13	0,97
40	-25	324	281	4,96	1,34	1,15
40	-23,3	358	294	5,04	1,42	1,22
40	-20	429	320	5,21	1,56	1,34
40	-15	550	360	5,47	1,78	1,53
40	-10	687	400	5,73	2,00	1,72

45	-35	151	202	4,44	0,87	0,75
45	-30	223	242	4,70	1,07	0,92
45	-25	311	282	4,96	1,28	1,10
45	-23,3	344	296	5,06	1,35	1,16
45	-20	414	324	5,23	1,49	1,28
45	-15	534	366	5,51	1,70	1,46
45	-10	669	409	5,79	1,90	1,64

50	-35	140	197	4,41	0,83	0,71
50	-30	211	240	4,69	1,02	0,88
50	-25	297	283	4,97	1,22	1,05
50	-23,3	330	298	5,07	1,29	1,11
50	-20	399	327	5,26	1,42	1,22
50	-15	518	372	5,55	1,62	1,39
50	-10	652	418	5,85	1,81	1,56

55	-35	129	193	4,38	0,78	0,67
55	-30	198	238	4,68	0,97	0,83
55	-25	283	284	4,98	1,16	1,00
55	-23,3	316	300	5,08	1,23	1,05
55	-20	384	331	5,28	1,35	1,16
55	-15	501	379	5,59	1,54	1,32
55	-10	634	427	5,91	1,73	1,48

60	-35	118	189	4,35	0,73	0,63
60	-30	186	237	4,66	0,91	0,79
60	-25	270	285	4,98	1,10	0,95
60	-23,3	302	302	5,09	1,16	1,00
60	-20	369	335	5,31	1,28	1,10
60	-15	485	385	5,64	1,47	1,26
60	-10	616	436	5,97	1,64	1,41

65	-35	107	184	4,32	0,68	0,58
65	-30	174	235	4,65	0,86	0,74
65	-25	256	286	4,99	1,04	0,89
65	-23,3	288	304	5,10	1,10	0,95
65	-20	354	338	5,33	1,22	1,05
65	-15	469	391	5,68	1,39	1,20
65	-10	599	445	6,03	1,56	1,35

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	176	206	4,47	0,86	0,74
40	-30	261	243	4,71	1,07	0,93
40	-25	361	281	4,96	1,28	1,11
40	-23,3	398	294	5,04	1,35	1,17
40	-20	475	320	5,21	1,48	1,28
40	-15	604	360	5,47	1,68	1,45
40	-10	748	400	5,73	1,87	1,62

45	-35	158	202	4,44	0,79	0,68
45	-30	237	242	4,70	0,98	0,85
45	-25	330	282	4,96	1,17	1,01
45	-23,3	365	296	5,06	1,23	1,06
45	-20	438	324	5,23	1,35	1,17
45	-15	560	366	5,51	1,53	1,32
45	-10	698	409	5,79	1,71	1,47

50	-35	140	197	4,41	0,71	0,61
50	-30	212	240	4,69	0,88	0,76
50	-25	299	283	4,97	1,05	0,91
50	-23,3	332	298	5,07	1,11	0,96
50	-20	400	327	5,26	1,22	1,06
50	-15	517	372	5,55	1,39	1,20
50	-10	648	418	5,85	1,55	1,34

55	-35	122	193	4,38	0,63	0,55
55	-30	187	238	4,68	0,79	0,68
55	-25	268	284	4,98	0,94	0,81
55	-23,3	298	300	5,08	0,99	0,86
55	-20	363	331	5,28	1,10	0,95
55	-15	473	379	5,59	1,25	1,08
55	-10	598	427	5,91	1,40	1,21

60	-35	104	189	4,35	0,55	0,48
60	-30	163	237	4,66	0,69	0,60
60	-25	237	285	4,98	0,83	0,72
60	-23,3	265	302	5,09	0,88	0,76
60	-20	326	335	5,31	0,97	0,84
60	-15	429	385	5,64	1,12	0,96
60	-10	548	436	5,97	1,26	1,09

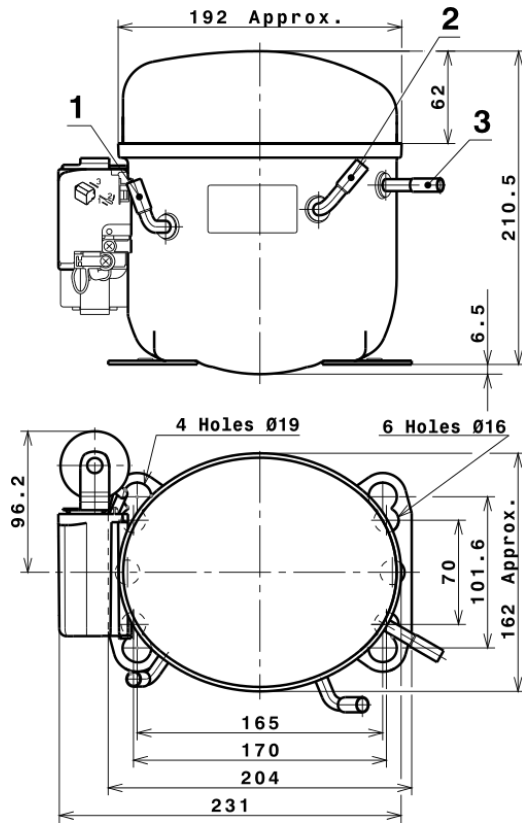
65	-35	86	184	4,32	0,46	0,40
65	-30	138	235	4,65	0,59	0,51
65	-25	206	286	4,99	0,72	0,62
65	-23,3	232	304	5,10	0,76	0,66
65	-20	288	338	5,33	0,85	0,74
65	-15	386	391	5,68	0,99	0,85
65	-10	498	445	6,03	1,12	0,97

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.577,5074545039	378,1319522709	5,5902496433	28,055539345471
2	46,1002759306	4,4092715784	0,0287229199	0,91114155391138
3	-12,8756172837	2,9343393839	0,0191716340	-0,097369760976857
4	0,2899459799	0,0179871340	0,0001150005	0,0079090982054648
5	-0,2637281578	0,1091326244	0,0007132992	-0,0013096693141992

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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COMPRESSOR DIMENSIONS

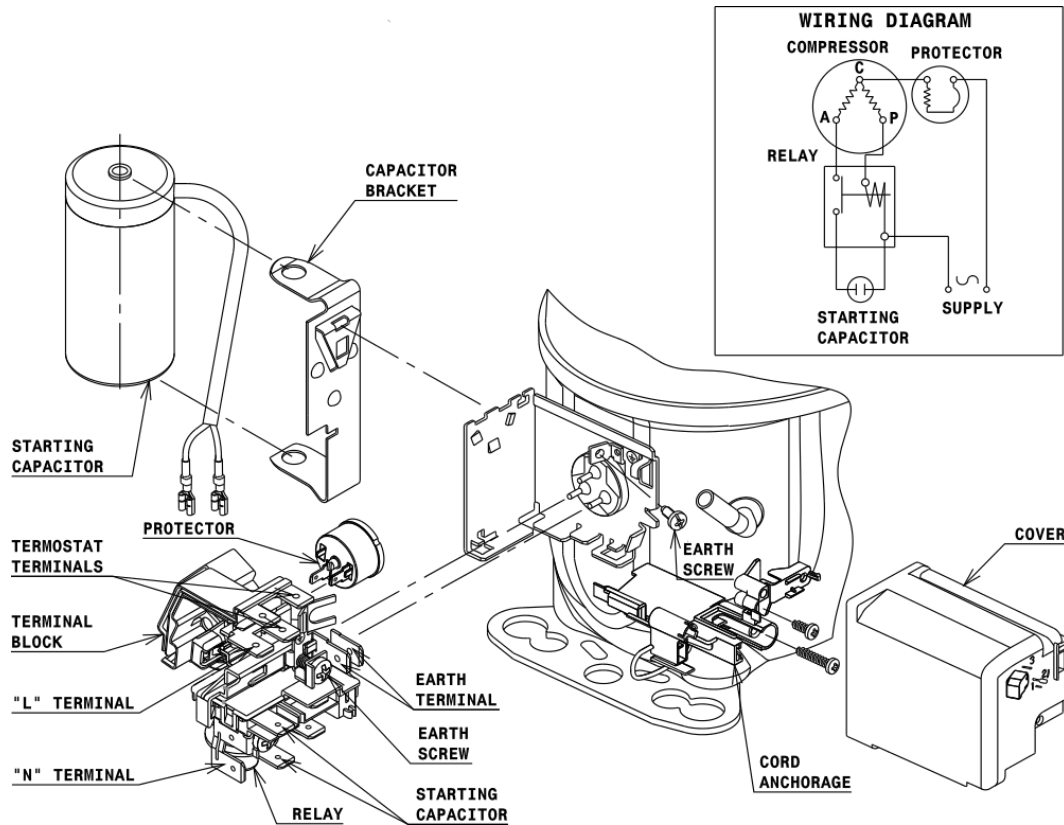


DESIGNATION INTERNAL DIAM.

1	Suction	8,1 mm
2	Service	8,1 mm
3	Discharge	6,5 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (L, P ranges)



Technical Data Sheet

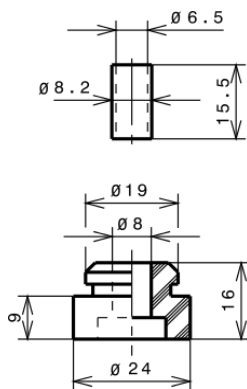
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

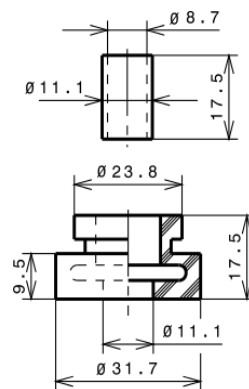
STANDARD

Ø16 holes (170x70 net)



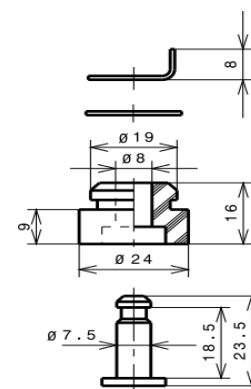
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a LBP

