

Technical Data Sheet

Compressor model **GL80ANb**
Voltage **200-220/220-230V 50/60Hz ~1**
Refrigerant **R134a**

APPLICATION

Application	Low Back Pressure
Refrigerant	R134a
Evaporating Temp.	-35,0 °C to -10,0 °C
Expansion	Capillar/Valve
Comp. Cooling	Fan cooled
Max. ambient temp.	43,0 °C
Compatible refriger.	R1234yf

COMPRESSOR

Displacement	8,10 cm ³
Diameter	24,29 mm
Stroke	17,47 mm
Net Weight	9,90 Kg
Oil type	ISO VG 32 ESTER
Oil charge	450 cm ³

MOTOR

Nominal Power	1/5 hp
Voltage/Frequency	200-220V 50Hz
Voltage range	170-242 V
Type	CSIR
Phase number	1 PH
Locked Rotor Amps (LRA)	16,00 A
Max. Cont. Current (MCC)	2,80 A
Main W. resist. at 25°C	8,90 Ω
Start W. resist. at 25°C	14,10 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	174 kCal/h	148 W
COP	1,09 W/W	0,83 W/W
EER	0,94 kCal/Wh	0,72 kCal/Wh
Input Power	186 W	178 W
Current	1,70 A	1,69 A

APPROVALS

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	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	64- 77 µF 330 V			
Relay	Option 1			
Reference	2014 131.			
Pick-Up	5,30 A			
Drop-Out	4,50 A			
Protector	Option 1			
Reference	T0168			
Current	9,50 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	105,00 / 61,00 °C			

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	97	136	1,63	0,83	0,71
40	-30	133	154	1,65	1,00	0,86
40	-25	180	173	1,68	1,21	1,04
40	-23,3	198	180	1,69	1,28	1,10
40	-20	237	194	1,71	1,42	1,22
40	-15	305	215	1,76	1,65	1,42
40	-10	383	237	1,82	1,88	1,62

45	-35	91	134	1,63	0,79	0,68
45	-30	126	154	1,65	0,95	0,82
45	-25	172	175	1,68	1,14	0,98
45	-23,3	190	182	1,69	1,21	1,04
45	-20	228	197	1,72	1,35	1,16
45	-15	295	219	1,77	1,56	1,35
45	-10	372	243	1,84	1,78	1,53

50	-35	86	133	1,63	0,75	0,65
50	-30	120	154	1,65	0,90	0,78
50	-25	164	176	1,68	1,08	0,93
50	-23,3	182	184	1,70	1,15	0,99
50	-20	220	200	1,73	1,28	1,10
50	-15	285	224	1,79	1,48	1,28
50	-10	362	249	1,86	1,69	1,45

55	-35	80	131	1,63	0,71	0,61
55	-30	113	154	1,65	0,86	0,74
55	-25	157	178	1,69	1,03	0,88
55	-23,3	174	186	1,70	1,09	0,94
55	-20	211	202	1,73	1,21	1,04
55	-15	276	228	1,80	1,40	1,21
55	-10	351	255	1,88	1,60	1,38

60	-35	74	129	1,63	0,67	0,57
60	-30	106	154	1,65	0,81	0,69
60	-25	149	179	1,69	0,97	0,83
60	-23,3	166	188	1,70	1,03	0,88
60	-20	202	205	1,74	1,15	0,98
60	-15	266	233	1,81	1,33	1,14
60	-10	340	261	1,90	1,52	1,30

65	-35	69	128	1,63	0,63	0,54
65	-30	100	154	1,65	0,76	0,65
65	-25	141	180	1,69	0,91	0,78
65	-23,3	158	190	1,71	0,97	0,83
65	-20	194	208	1,75	1,08	0,93
65	-15	256	237	1,82	1,26	1,08
65	-10	330	267	1,92	1,44	1,23

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	106	136	1,63	0,78	0,67
40	-30	148	154	1,65	0,96	0,83
40	-25	201	173	1,68	1,16	1,00
40	-23,3	221	180	1,69	1,22	1,06
40	-20	263	194	1,71	1,36	1,17
40	-15	335	215	1,76	1,56	1,35
40	-10	417	237	1,82	1,76	1,52

45	-35	96	134	1,63	0,71	0,62
45	-30	134	154	1,65	0,87	0,75
45	-25	183	175	1,68	1,05	0,90
45	-23,3	202	182	1,69	1,11	0,96
45	-20	242	197	1,72	1,23	1,06
45	-15	310	219	1,77	1,41	1,22
45	-10	388	243	1,84	1,60	1,38

50	-35	86	133	1,63	0,65	0,56
50	-30	121	154	1,65	0,78	0,68
50	-25	166	176	1,68	0,94	0,81
50	-23,3	183	184	1,70	0,99	0,86
50	-20	220	200	1,73	1,10	0,95
50	-15	285	224	1,79	1,27	1,10
50	-10	360	249	1,86	1,44	1,25

55	-35	76	131	1,63	0,58	0,50
55	-30	107	154	1,65	0,70	0,60
55	-25	148	178	1,69	0,83	0,72
55	-23,3	164	186	1,70	0,88	0,76
55	-20	199	202	1,73	0,98	0,85
55	-15	260	228	1,80	1,14	0,98
55	-10	331	255	1,88	1,30	1,12

60	-35	66	129	1,63	0,51	0,44
60	-30	93	154	1,65	0,61	0,52
60	-25	131	179	1,69	0,73	0,63
60	-23,3	146	188	1,70	0,77	0,67
60	-20	178	205	1,74	0,87	0,75
60	-15	235	233	1,81	1,01	0,87
60	-10	302	261	1,90	1,16	1,00

65	-35	56	128	1,63	0,44	0,38
65	-30	79	154	1,65	0,52	0,45
65	-25	113	180	1,69	0,63	0,54
65	-23,3	127	190	1,71	0,67	0,58
65	-20	157	208	1,75	0,75	0,65
65	-15	210	237	1,82	0,89	0,77
65	-10	274	267	1,92	1,02	0,89

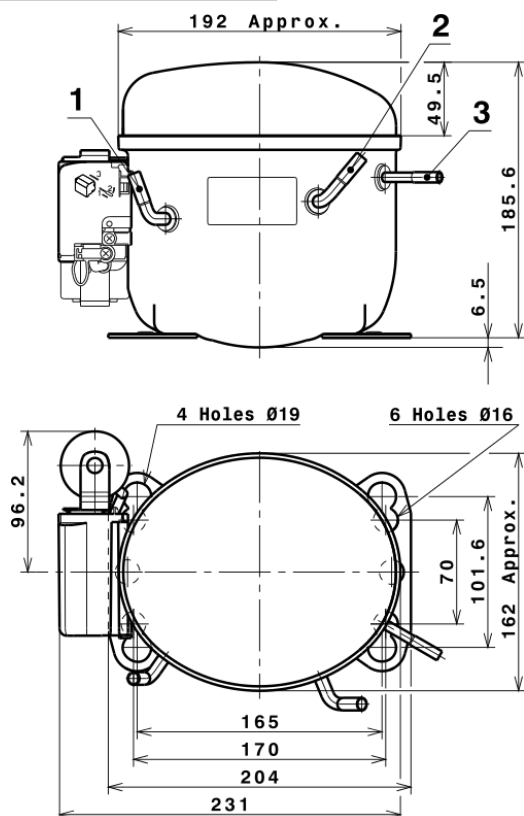
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	896,3191968447	217,1717468165	1,8038168923	16,111045020428
2	27,1010628472	2,5731534471	0,0157026103	0,54739417104216
3	-7,3959256878	1,8563459772	0,0057587943	-0,060607360857608
4	0,1931121934	0,0207616732	0,0003205558	0,0052088193103618
5	-0,1537888283	0,0627670551	0,0001722798	-0,00097310369594206

Equation

$$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$$

COMPRESSOR DIMENSIONS

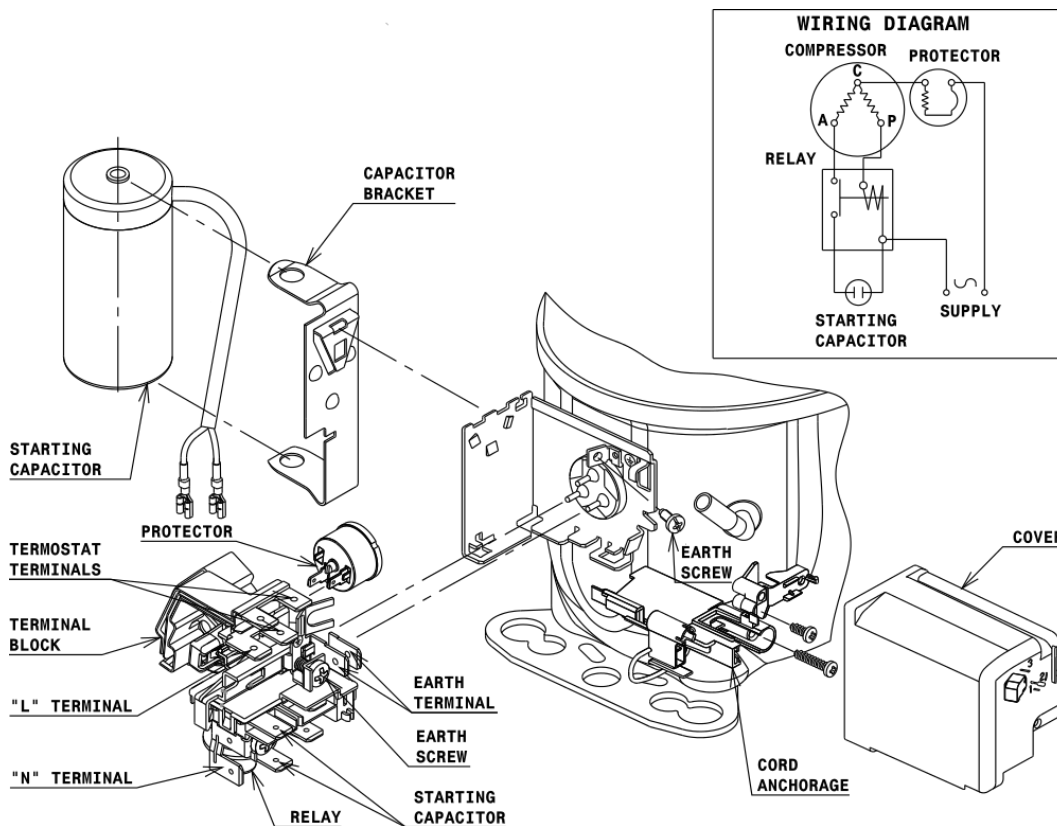


DESIGNATION INTERNAL DIAM.

1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

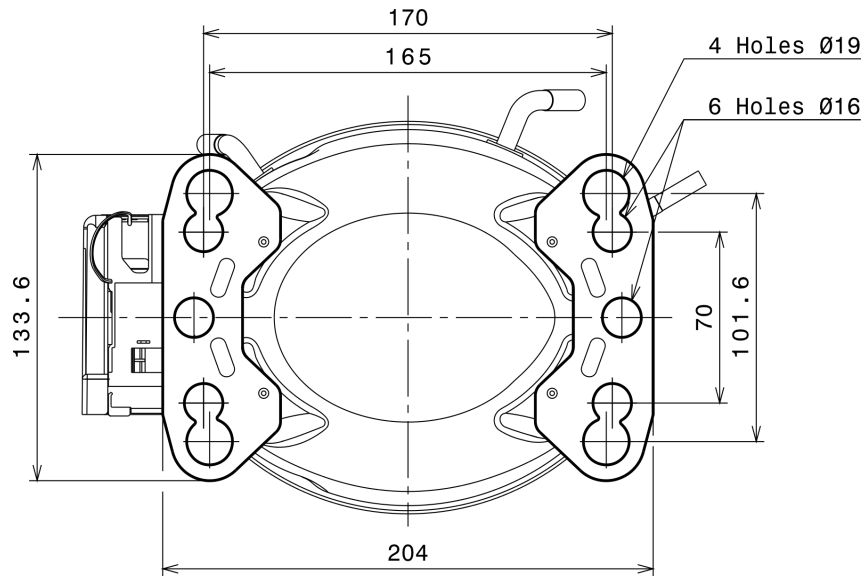
WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (L, P ranges)



Technical Data Sheet

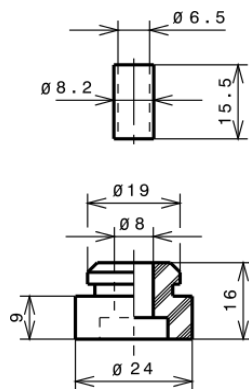
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

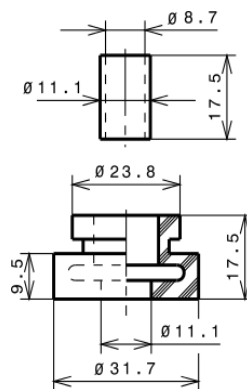
STANDARD

Ø16 holes (170x70 net)



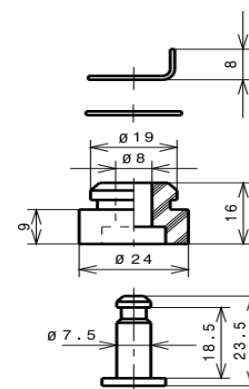
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a LBP

