Technical Data Sheet

Compressor model **GLY80AAb**

Voltage **220-240V 50Hz ~1**

Refrigerant **R134a**

APPLICATION

Application	Low Back Pressure
Refrigerant	R134a
Evaporating Temp.	-35,0 ºC to -10,0 ºC
Expansion	Capillar
Comp. Cooling	Static
Max. ambient temp.	43,0 ºC
Compatible refriger.	R1234yf

COMPRESSOR

Displacement	8,10 cm³
Diameter	24,29 mm
Stroke	17,47 mm
Net Weight	9,62 Kg
Oil type	ISO VG 32 ESTER
Oil charge	400 cm³

MOTOR

Nominal Power	1/5 hp
Voltage/Frequency	220-240V 50Hz
Voltage range	187-255 V
Type	RSCR
Phase number	1 PH
Locked Rotor Amps (LRA)	9,50 A
Max. Cont. Current (MCC)	1,70 A
Main W. resist. at 25ºC	11,00 Ω
Start W. resist. at 25ºC	15,60 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	192 kCal/h	165 W
COP	1,45 W/W	1,13 W/W
EER	1,25 kCal/Wh	0,97 kCal/Wh
Input Power	154 W	147 W
Current	0,81 A	0,78 A

APPROVALS

TEST CYCLE CONDITIONS

	ASHRAE	**CECOMAF**
	LBP (B)	**LBP (A)**
Evaporating temp. (T_e)	-23,3 ºC	-25,0 ºC
Condensing temp. (T_c)	55,0 ºC	55,0 ºC
Liquid temp. ($T_{liq.}$)	32,0 ºC	55,0 ºC
Ambient temp. ($T_{amb.}$)	32,0 ºC	32,0 ºC
Suction temp. ($T_{suction}$)	32,0 ºC	32,0 ºC
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Run capacitor	5 µF 400 V			
Relay	Option 1			
Reference	PTC K100			
Voltage	200-240 V			
Resistance	14.00 Ω			
Protector	Option 1	Option 2		
Reference	T0490	AE11FU		
Current	9,40 A	9,40 A		
Time check	7,5-14 seg	7,5-14 seg		
Disc temp. (Open/Close)	130,00 / 62,00 ºC	120,00 / 62,00 ºC		

Technical Data Sheet

cubigel compressors

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	129	114	0,63	1,32	1,13
40	-30	162	128	0,69	1,47	1,27
40	-25	206	143	0,76	1,67	1,44
40	-23,3	223	149	0,79	1,74	1,50
40	-20	260	161	0,84	1,89	1,62
40	-15	326	180	0,92	2,11	1,81
40	-10	403	201	1,00	2,33	2,00
45	-35	119	112	0,62	1,24	1,06
45	-30	151	127	0,69	1,39	1,19
45	-25	195	144	0,77	1,57	1,35
45	-23,3	213	151	0,80	1,64	1,41
45	-20	250	163	0,85	1,78	1,53
45	-15	316	184	0,93	1,99	1,71
45	-10	393	207	1,02	2,20	1,89
50	-35	108	109	0,61	1,15	0,99
50	-30	141	126	0,69	1,30	1,12
50	-25	185	145	0,77	1,48	1,27
50	-23,3	202	152	0,80	1,55	1,33
50	-20	240	166	0,86	1,68	1,44
50	-15	306	189	0,95	1,88	1,62
50	-10	382	214	1,05	2,08	1,79
55	-35	98	107	0,60	1,07	0,92
55	-30	131	126	0,69	1,21	1,04
55	-25	175	147	0,78	1,39	1,19
55	-23,3	192	154	0,81	1,45	1,25
55	-20	229	169	0,87	1,58	1,36
55	-15	295	194	0,97	1,77	1,52
55	-10	372	220	1,07	1,97	1,69
60	-35	88	105	0,59	0,97	0,84
60	-30	120	125	0,68	1,12	0,96
60	-25	164	148	0,78	1,29	1,11
60	-23,3	182	156	0,82	1,36	1,17
60	-20	219	172	0,88	1,48	1,27
60	-15	285	198	0,99	1,67	1,44
60	-10	362	226	1,09	1,86	1,60
65	-35	77	102	0,58	0,88	0,76
65	-30	110	125	0,68	1,03	0,88
65	-25	154	149	0,79	1,20	1,03
65	-23,3	171	157	0,82	1,27	1,09
65	-20	209	175	0,90	1,39	1,19
65	-15	275	203	1,01	1,57	1,35
65	-10	351	233	1,12	1,76	1,51

CECOMAF

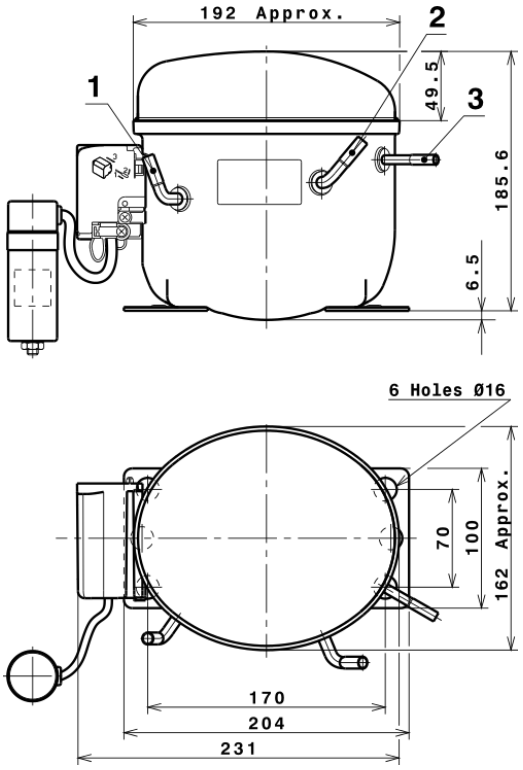
Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	141	114	0,63	1,23	1,07
40	-30	180	128	0,69	1,41	1,22
40	-25	229	143	0,76	1,60	1,38
40	-23,3	248	149	0,79	1,67	1,44
40	-20	288	161	0,84	1,80	1,55
40	-15	358	180	0,92	1,99	1,72
40	-10	439	201	1,00	2,18	1,89
45	-35	125	112	0,62	1,12	0,96
45	-30	161	127	0,69	1,27	1,09
45	-25	208	144	0,77	1,44	1,24
45	-23,3	226	151	0,80	1,50	1,30
45	-20	265	163	0,85	1,62	1,40
45	-15	332	184	0,93	1,80	1,55
45	-10	409	207	1,02	1,97	1,71
50	-35	109	109	0,61	0,99	0,86
50	-30	142	126	0,69	1,13	0,97
50	-25	186	145	0,77	1,28	1,11
50	-23,3	204	152	0,80	1,34	1,16
50	-20	241	166	0,86	1,45	1,25
50	-15	305	189	0,95	1,61	1,39
50	-10	380	214	1,05	1,78	1,54
55	-35	93	107	0,60	0,87	0,75
55	-30	124	126	0,69	0,98	0,85
55	-25	165	147	0,78	1,13	0,97
55	-23,3	181	154	0,81	1,18	1,02
55	-20	217	169	0,87	1,28	1,11
55	-15	278	194	0,97	1,44	1,24
55	-10	351	220	1,07	1,59	1,38
60	-35	77	105	0,59	0,73	0,63
60	-30	105	125	0,68	0,84	0,72
60	-25	144	148	0,78	0,97	0,84
60	-23,3	159	156	0,82	1,02	0,88
60	-20	193	172	0,88	1,12	0,97
60	-15	252	198	0,99	1,27	1,10
60	-10	321	226	1,09	1,42	1,23
65	-35	61	102	0,58	0,59	0,51
65	-30	86	125	0,68	0,69	0,60
65	-25	122	149	0,79	0,82	0,71
65	-23,3	137	157	0,82	0,87	0,75
65	-20	169	175	0,90	0,96	0,83
65	-15	225	203	1,01	1,11	0,96
65	-10	292	233	1,12	1,26	1,08

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	904,6174070829	175,0782212420	0,8874183757	16,117050748695
2	25,3017095752	2,5092481268	0,0066853124	0,50889724653109
3	-7,1236016585	2,0063897735	0,0075514821	-0,049647072483774
4	0,2013817537	0,0393998706	0,0000643262	0,0054292724503003
5	-0,1123234236	0,0709454601	0,0002788583	-3,5507467167902E-5

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

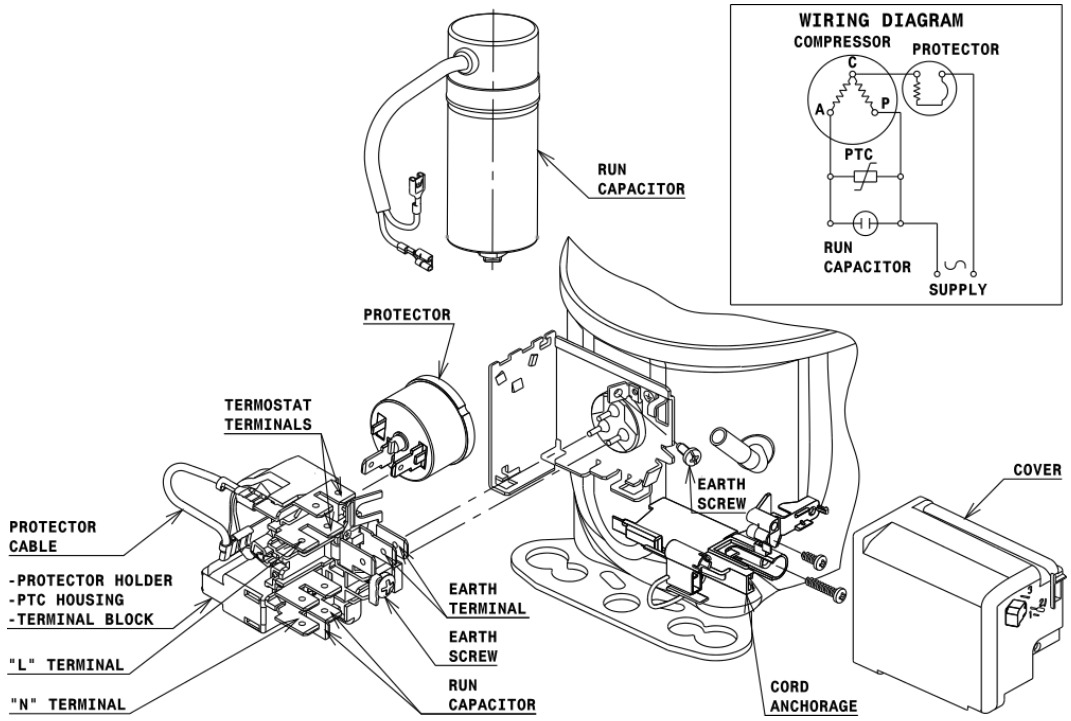
COMPRESSOR DIMENSIONS



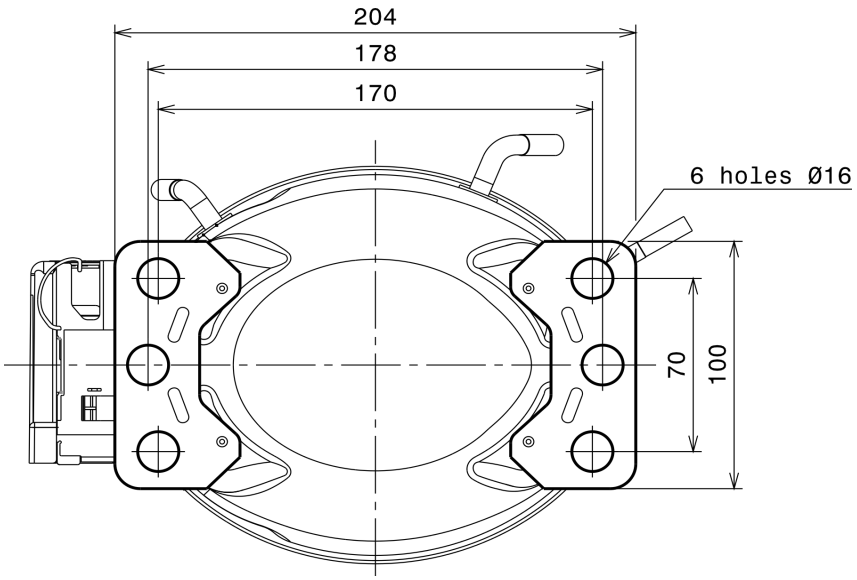
	DESIGNATION	INTERNAL DIAM.
1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSCR CONNECTION (L, P ranges)



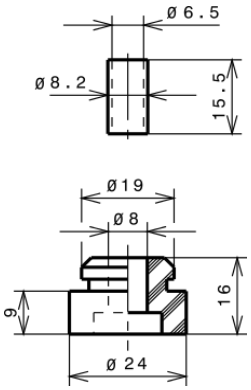
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

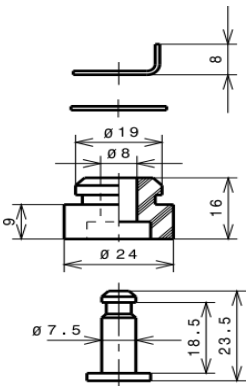
STANDARD

Ø16 holes (170x70 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a LBP