Technical Data Sheet

Compressor model **GLY70AAb**

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	6,65 cm³
Diameter	22,00 mm
Stroke	17,47 mm
Net Weight	9,20 Kg
Oil type	ISO VG 32 ESTER
Oil charge	250 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)	7,20 A
Max. Cont. Current (MCC)	1,40 A
Main W. resist. at 25ºC	15,75 Ω
Start W. resist. at 25ºC	19,35 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	156 kCal/h	133 W
COP	1,40 W/W	1,08 W/W
EER	1,20 kCal/Wh	0,94 kCal/Wh
Input Power	130 W	123 W
Current	0,70 A	0,67 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	4 µF 400 V			
Relay	Option 1			
Reference	PTC K100			
Voltage	200-240 V			
Resistance	14.00 Ω			
Protector	Option 1	Option 2		
Reference	T0530	AE15BW		
Current	8,80 A	8,20 A		
Time check	7,5-14 seg	7,5-14 seg		
Disc temp. (Open/Close)	110,00 / 61,00 ºC	130,00 / 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	91	86	0,53	1,23	1,06
40	-30	124	102	0,59	1,41	1,21
40	-25	165	118	0,65	1,62	1,39
40	-23,3	180	124	0,68	1,69	1,45
40	-20	213	135	0,72	1,83	1,58
40	-15	270	153	0,79	2,05	1,77
40	-10	335	171	0,87	2,28	1,96
45	-35	84	85	0,53	1,15	0,99
45	-30	116	102	0,59	1,33	1,14
45	-25	157	120	0,66	1,52	1,31
45	-23,3	172	126	0,68	1,59	1,37
45	-20	205	138	0,73	1,72	1,48
45	-15	261	157	0,81	1,93	1,66
45	-10	326	177	0,90	2,14	1,84
50	-35	77	83	0,52	1,07	0,92
50	-30	109	102	0,59	1,24	1,07
50	-25	149	121	0,67	1,42	1,23
50	-23,3	164	128	0,69	1,49	1,28
50	-20	197	141	0,75	1,62	1,39
50	-15	252	161	0,83	1,82	1,56
50	-10	316	182	0,92	2,02	1,73
55	-35	70	82	0,52	0,99	0,85
55	-30	101	102	0,59	1,15	0,99
55	-25	141	123	0,67	1,33	1,15
55	-23,3	156	130	0,70	1,40	1,20
55	-20	188	144	0,76	1,52	1,31
55	-15	244	166	0,85	1,71	1,47
55	-10	307	188	0,95	1,90	1,63
60	-35	63	81	0,52	0,91	0,78
60	-30	94	102	0,59	1,07	0,92
60	-25	133	124	0,68	1,24	1,07
60	-23,3	148	132	0,71	1,30	1,12
60	-20	180	147	0,77	1,42	1,22
60	-15	235	170	0,87	1,61	1,38
60	-10	298	194	0,98	1,79	1,54
65	-35	56	79	0,51	0,82	0,71
65	-30	86	102	0,59	0,98	0,85
65	-25	125	126	0,68	1,16	0,99
65	-23,3	140	134	0,72	1,21	1,04
65	-20	171	150	0,78	1,33	1,14
65	-15	226	174	0,89	1,51	1,30
65	-10	288	199	1,00	1,68	1,45

CECOMAF

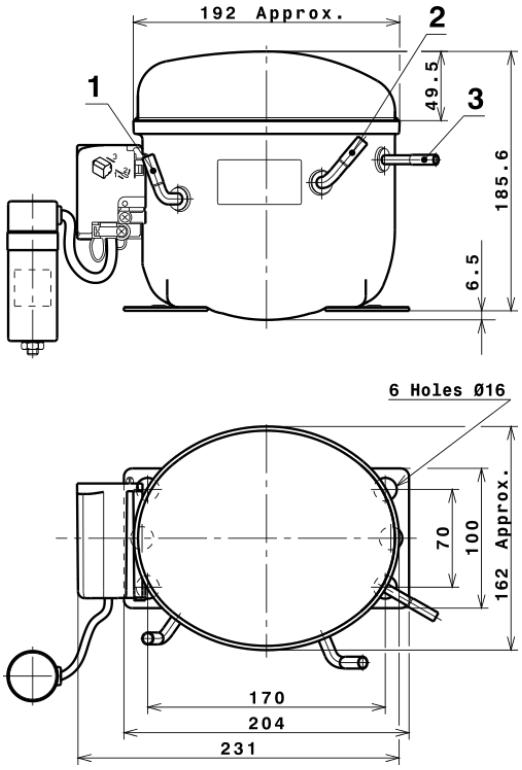
Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	99	86	0,53	1,15	1,00
40	-30	137	102	0,59	1,35	1,16
40	-25	183	118	0,65	1,54	1,33
40	-23,3	200	124	0,68	1,61	1,39
40	-20	236	135	0,72	1,74	1,51
40	-15	297	153	0,79	1,94	1,68
40	-10	365	171	0,87	2,13	1,84
45	-35	88	85	0,53	1,04	0,90
45	-30	123	102	0,59	1,21	1,05
45	-25	166	120	0,66	1,39	1,20
45	-23,3	183	126	0,68	1,45	1,25
45	-20	217	138	0,73	1,57	1,35
45	-15	274	157	0,81	1,74	1,51
45	-10	340	177	0,90	1,92	1,66
50	-35	77	83	0,52	0,93	0,80
50	-30	110	102	0,59	1,07	0,93
50	-25	150	121	0,67	1,23	1,07
50	-23,3	165	128	0,69	1,29	1,11
50	-20	197	141	0,75	1,40	1,21
50	-15	252	161	0,83	1,56	1,35
50	-10	315	182	0,92	1,72	1,49
55	-35	66	82	0,52	0,81	0,70
55	-30	96	102	0,59	0,94	0,81
55	-25	133	123	0,67	1,08	0,94
55	-23,3	147	130	0,70	1,13	0,98
55	-20	178	144	0,76	1,23	1,07
55	-15	230	166	0,85	1,39	1,20
55	-10	289	188	0,95	1,54	1,33
60	-35	55	81	0,52	0,68	0,59
60	-30	82	102	0,59	0,80	0,69
60	-25	116	124	0,68	0,94	0,81
60	-23,3	130	132	0,71	0,98	0,85
60	-20	158	147	0,77	1,08	0,93
60	-15	208	170	0,87	1,22	1,05
60	-10	264	194	0,98	1,37	1,18
65	-35	44	79	0,51	0,56	0,48
65	-30	68	102	0,59	0,67	0,58
65	-25	100	126	0,68	0,79	0,69
65	-23,3	112	134	0,72	0,84	0,72
65	-20	139	150	0,78	0,93	0,80
65	-15	185	174	0,89	1,06	0,92
65	-10	239	199	1,00	1,20	1,04

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	766,5292504605	144,5683966073	0,7698501871	13,680872149398
2	21,7318443035	1,7021357675	0,0105366062	0,43187302603847
3	-6,2948504228	1,7335422569	0,0078136279	-0,04920721554209
4	0,1464670500	0,0112258211	0,0001453846	0,0039811686913255
5	-0,1170340005	0,0573126576	0,0002507707	-0,00046904538673858

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

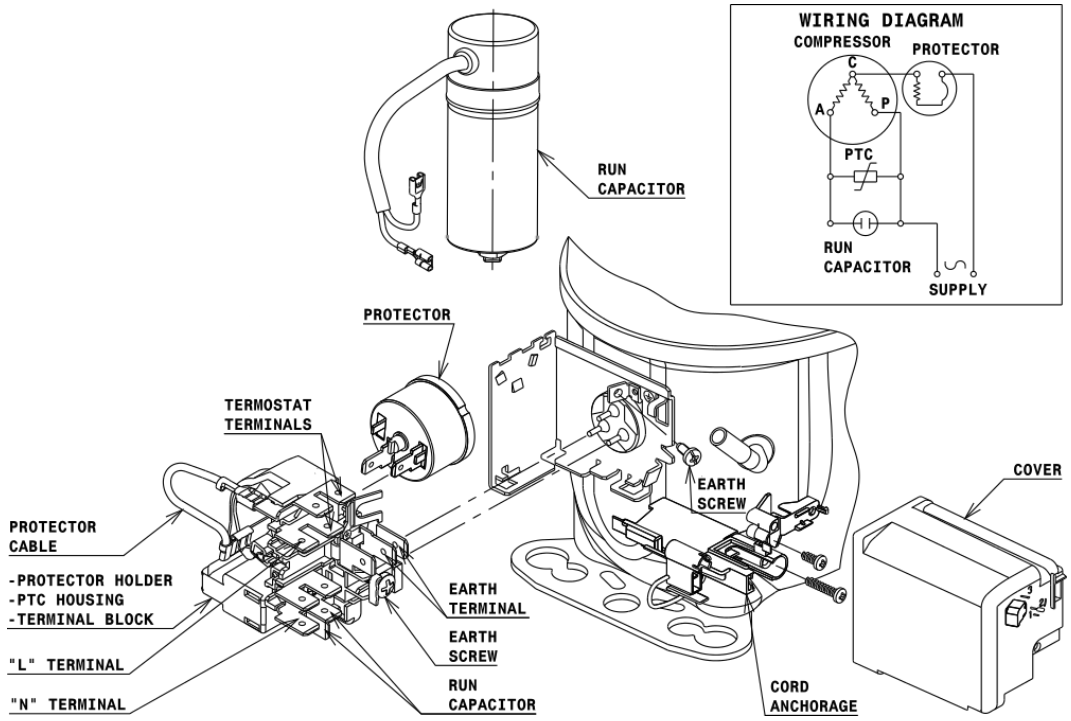
COMPRESSOR DIMENSIONS



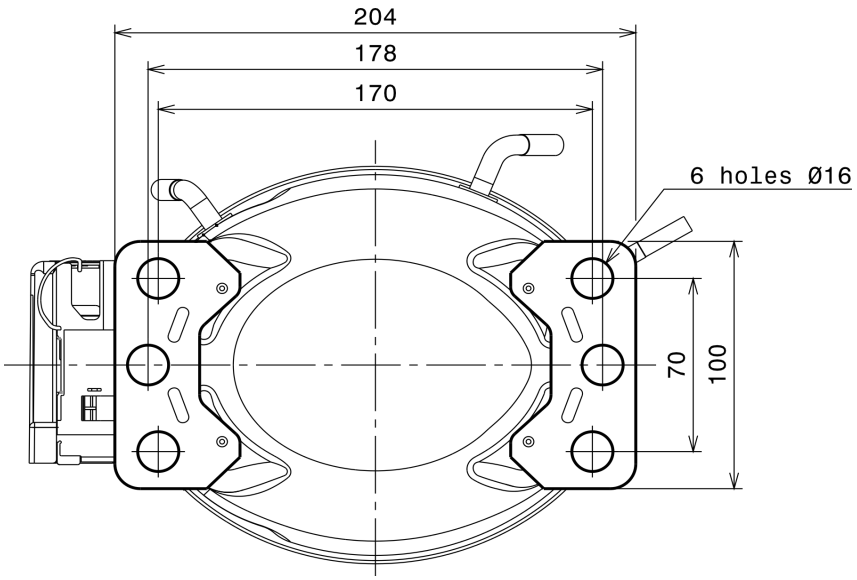
	DESIGNATION	INTERNAL DIAM.
1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSCR CONNECTION (L, P ranges)



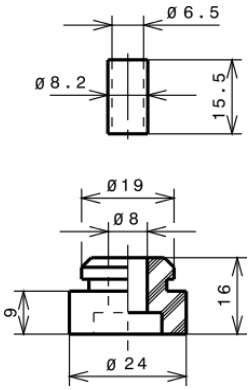
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

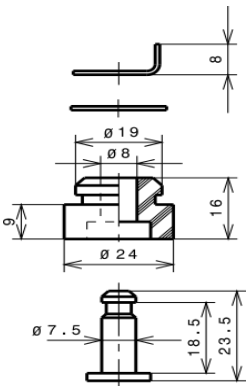
STANDARD

Ø16 holes (170x70 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a LBP