Technical Data Sheet

Compressor model **GLY45AAb**

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	4,56 cm³
Diameter	19,09 mm
Stroke	15,93 mm
Net Weight	8,80 Kg
Oil type	ISO VG 32 ESTER
Oil charge	215 cm³

MOTOR

Nominal Power	1/8 hp
Voltage/Frequency	220-240V 50Hz
Voltage range	187-255 V
Type	RSCR
Phase number	1 PH
Locked Rotor Amps (LRA)	4,50 A
Max. Cont. Current (MCC)	1,00 A
Main W. resist. at 25ºC	25,25 Ω
Start W. resist. at 25ºC	24,10 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	105 kCal/h	90 W
COP	1,36 W/W	1,05 W/W
EER	1,17 kCal/Wh	0,91 kCal/Wh
Input Power	90 W	86 W
Current	0,48 A	0,46 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	3 µF 400 V			
Relay	Option 1			
Reference	PTC K100			
Voltage	200-240 V			
Resistance	14.00 Ω			
Protector	Option 1	Option 2		
Reference	T0462	AE13FU		
Current	6,20 A	5,40 A		
Time check	7,5-14 seg	7,5-14 seg		
Disc temp. (Open/Close)	110,00 / 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	63	62	0,34	1,18	1,02
40	-30	85	72	0,39	1,37	1,18
40	-25	112	83	0,44	1,58	1,36
40	-23,3	123	86	0,46	1,66	1,43
40	-20	146	94	0,50	1,81	1,55
40	-15	185	106	0,55	2,03	1,75
40	-10	229	118	0,59	2,26	1,94
45	-35	59	62	0,33	1,11	0,95
45	-30	80	72	0,39	1,28	1,10
45	-25	107	84	0,45	1,48	1,28
45	-23,3	117	88	0,47	1,56	1,34
45	-20	139	95	0,50	1,70	1,46
45	-15	177	108	0,55	1,91	1,64
45	-10	221	121	0,60	2,12	1,83
50	-35	54	61	0,33	1,03	0,89
50	-30	75	73	0,39	1,20	1,03
50	-25	101	85	0,45	1,39	1,19
50	-23,3	111	89	0,47	1,45	1,25
50	-20	133	97	0,51	1,59	1,37
50	-15	170	110	0,56	1,79	1,54
50	-10	213	124	0,61	2,00	1,72
55	-35	50	61	0,33	0,95	0,82
55	-30	70	73	0,40	1,11	0,96
55	-25	95	86	0,46	1,29	1,11
55	-23,3	105	90	0,48	1,36	1,17
55	-20	126	99	0,52	1,48	1,28
55	-15	163	113	0,57	1,68	1,45
55	-10	205	127	0,62	1,88	1,61
60	-35	46	61	0,33	0,88	0,75
60	-30	65	73	0,40	1,03	0,88
60	-25	89	87	0,46	1,20	1,03
60	-23,3	99	91	0,49	1,26	1,08
60	-20	120	100	0,53	1,38	1,19
60	-15	155	115	0,58	1,57	1,35
60	-10	197	130	0,63	1,76	1,52
65	-35	41	60	0,33	0,80	0,69
65	-30	60	74	0,40	0,94	0,81
65	-25	83	88	0,47	1,11	0,95
65	-23,3	93	92	0,49	1,17	1,00
65	-20	113	102	0,53	1,29	1,11
65	-15	148	117	0,59	1,47	1,26
65	-10	189	133	0,64	1,65	1,42

CECOMAF

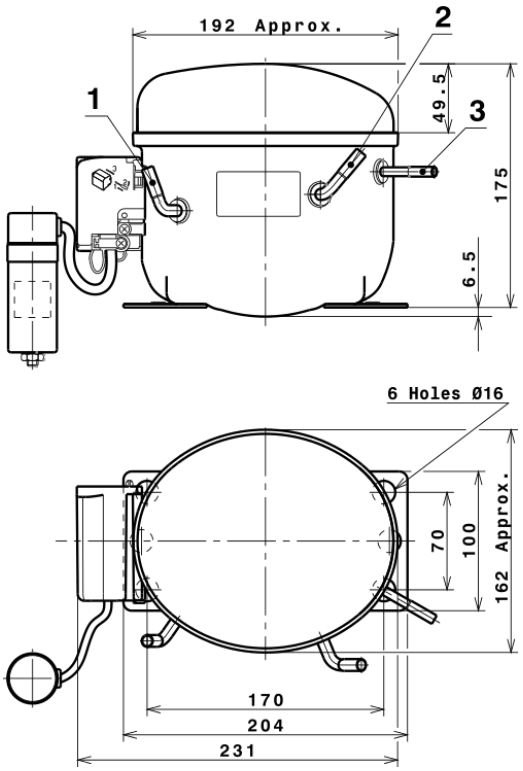
Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	69	62	0,34	1,11	0,96
40	-30	94	72	0,39	1,31	1,13
40	-25	125	83	0,44	1,51	1,31
40	-23,3	137	86	0,46	1,58	1,37
40	-20	161	94	0,50	1,72	1,48
40	-15	203	106	0,55	1,92	1,66
40	-10	249	118	0,59	2,11	1,83
45	-35	62	62	0,33	1,00	0,86
45	-30	85	72	0,39	1,17	1,01
45	-25	113	84	0,45	1,36	1,17
45	-23,3	124	88	0,47	1,42	1,23
45	-20	147	95	0,50	1,54	1,33
45	-15	186	108	0,55	1,73	1,49
45	-10	231	121	0,60	1,91	1,65
50	-35	54	61	0,33	0,89	0,77
50	-30	75	73	0,39	1,04	0,90
50	-25	102	85	0,45	1,20	1,04
50	-23,3	112	89	0,47	1,26	1,09
50	-20	133	97	0,51	1,37	1,18
50	-15	170	110	0,56	1,54	1,33
50	-10	212	124	0,61	1,71	1,48
55	-35	47	61	0,33	0,78	0,67
55	-30	66	73	0,40	0,90	0,78
55	-25	90	86	0,46	1,05	0,91
55	-23,3	99	90	0,48	1,10	0,95
55	-20	119	99	0,52	1,21	1,04
55	-15	154	113	0,57	1,36	1,18
55	-10	193	127	0,62	1,52	1,31
60	-35	40	61	0,33	0,66	0,57
60	-30	56	73	0,40	0,77	0,67
60	-25	78	87	0,46	0,90	0,78
60	-23,3	87	91	0,49	0,95	0,82
60	-20	105	100	0,53	1,05	0,90
60	-15	137	115	0,58	1,19	1,03
60	-10	175	130	0,63	1,34	1,16
65	-35	33	60	0,33	0,55	0,47
65	-30	47	74	0,40	0,64	0,55
65	-25	66	88	0,47	0,76	0,65
65	-23,3	74	92	0,49	0,80	0,69
65	-20	91	102	0,53	0,89	0,77
65	-15	121	117	0,59	1,03	0,89
65	-10	156	133	0,64	1,17	1,01

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	542,5717430970	112,8141141656	0,5575233370	9,8357010654271
2	15,5538763880	1,7851372283	0,0022631383	0,3134455038215
3	-4,7497731458	0,8873128745	0,0027971327	-0,045285925478516
4	0,1031421001	0,0128349985	-0,0000974640	0,0027934216461401
5	-0,0949142290	0,0272975161	0,0000910201	-0,00071388116287688

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

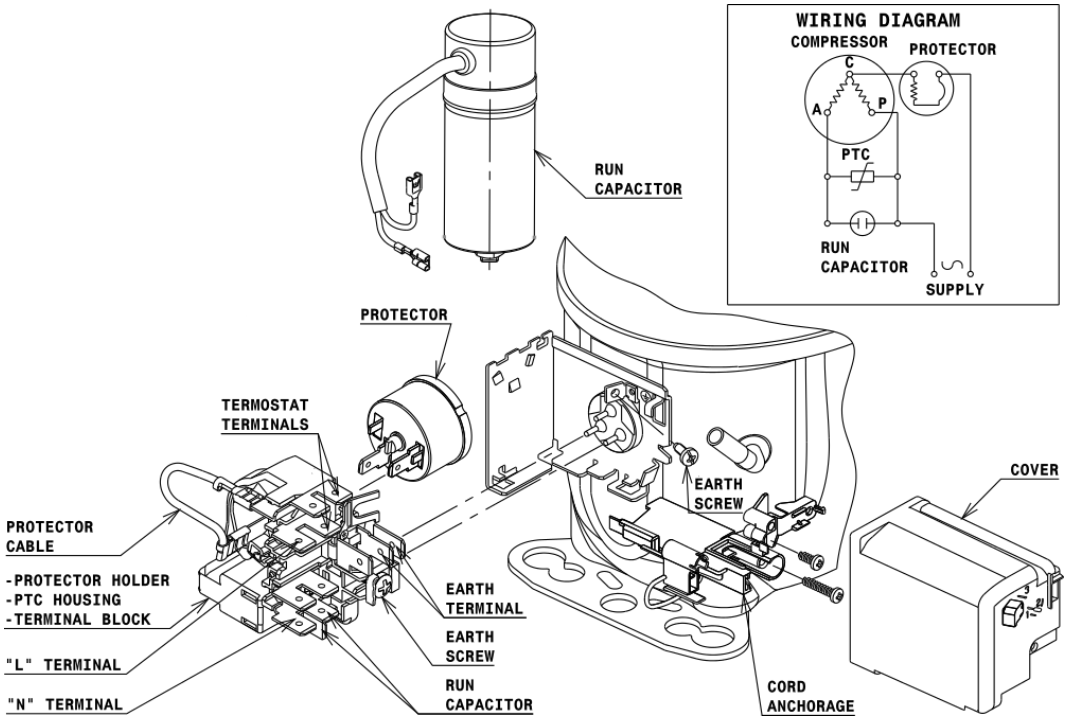
COMPRESSOR DIMENSIONS



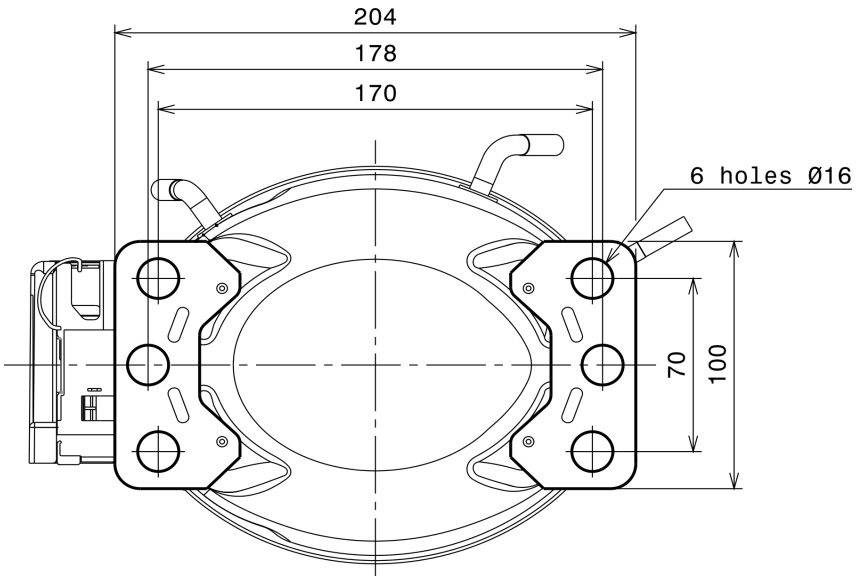
	DESIGNATION	INTERNAL DIAM.
1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

RSCR CONNECTION (L, P ranges)



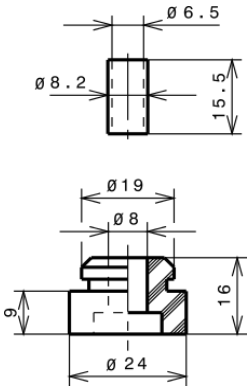
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

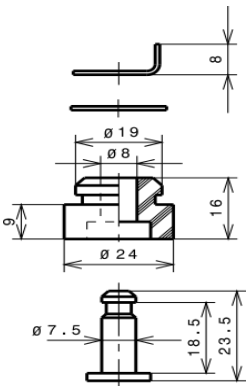
STANDARD

Ø16 holes (170x70 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a LBP