

Technical Data Sheet

Compressor model **GLY90RAb**
 Voltage **220-240V 50Hz ~1**
 Refrigerant **R134a**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	9,09 cm ³	Nominal Power	1/4 hp
Refrigerant	R134a	Diameter	24,29 mm	Voltage/Frequency	220-240V 50Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	19,62 mm	Voltage range	187-264 V
Expansion	Capillar/Valve	Net Weight	10,84 Kg	Type	CSR
Comp. Cooling	Fan cooled	Oil type	ISO VG 32 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	300 cm ³	Locked Rotor Amps (LRA)	11,00 A
Compatible refriger.	R1234yf			Max. Cont. Current (MCC)	3,20 A
				Main W. resist. at 25°C	8,31 Ω
				Start W. resist. at 25°C	18,90 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	770 kCal/h	748 W
COP	2,61 W/W	2,25 W/W
EER	2,24 kCal/Wh	1,94 kCal/Wh
Input Power	343 W	332 W
Current	1,77 A	1,72 A

APPROVALS



TEST CYCLE CONDITIONS

	ASHRAE HMBP (D)	CECOMAF HMBP (C)
Evaporating temp. (T _e)	7,2 °C	5,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	46,0 °C	55,0 °C
Ambient temp. (T _{amb.})	35,0 °C	32,0 °C
Suction temp. (T _{suction})	35,0 °C	32,0 °C
Voltage/Frequency	220 V 50 Hz	220 V 50 Hz

ELECTRICAL COMPONENTS

Starting capacitor	47- 56 μF 330 V		
Run capacitor	5 μF 400 V		
Relay	Option 1		
Reference	2014 135. + NTC15Ω		
Pick-Up	5,80 A		
Drop-Out	4,95 A		
Protector	Option 1	Option 2	
Reference	MRT40AMK	T0137	
Current	9,50 A	9,50 A	
Time check	7,5-14 seg	7,5-14 seg	
Disc temp. (Open/Close)	105,00 / 61,00 °C	110,00 / 61,00 °C	

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	205	164	1,06	1,45	1,25
40	-20	275	183	1,12	1,75	1,50
40	-15	360	203	1,19	2,07	1,78
40	-10	461	223	1,27	2,41	2,07
40	-5	577	244	1,35	2,76	2,37
40	0	709	265	1,43	3,11	2,68
40	5	856	286	1,52	3,48	2,99
40	7,2	925	296	1,56	3,63	3,13
40	10	1.018	308	1,62	3,84	3,30

45	-25	190	165	1,06	1,34	1,15
45	-20	254	187	1,13	1,58	1,36
45	-15	334	209	1,21	1,86	1,60
45	-10	429	231	1,30	2,16	1,86
45	-5	540	254	1,39	2,47	2,13
45	0	665	277	1,48	2,79	2,40
45	5	806	301	1,58	3,12	2,68
45	7,2	873	312	1,63	3,26	2,80
45	10	963	325	1,69	3,44	2,96

50	-25	175	167	1,07	1,22	1,05
50	-20	234	190	1,15	1,43	1,23
50	-15	308	214	1,24	1,67	1,44
50	-10	397	239	1,33	1,93	1,66
50	-5	502	264	1,43	2,21	1,90
50	0	622	290	1,53	2,50	2,15
50	5	757	316	1,65	2,79	2,40
50	7,2	822	327	1,70	2,92	2,51
50	10	908	342	1,77	3,09	2,65

55	-25	160	168	1,07	1,11	0,95
55	-20	213	194	1,16	1,28	1,10
55	-15	281	220	1,26	1,49	1,28
55	-10	365	247	1,36	1,72	1,48
55	-5	464	274	1,47	1,97	1,69
55	0	578	302	1,59	2,23	1,91
55	5	708	330	1,71	2,49	2,14
55	7,2	770	343	1,77	2,61	2,24
55	10	853	359	1,85	2,76	2,38

60	-25	145	169	1,07	1,00	0,86
60	-20	192	197	1,17	1,13	0,97
60	-15	255	226	1,28	1,31	1,13
60	-10	333	255	1,39	1,52	1,31
60	-5	426	285	1,51	1,74	1,50
60	0	535	315	1,64	1,98	1,70
60	5	659	345	1,78	2,22	1,91
60	7,2	718	359	1,84	2,33	2,00
60	10	798	376	1,93	2,47	2,12

65	-25	130	171	1,08	0,89	0,76
65	-20	172	201	1,19	0,99	0,85
65	-15	229	232	1,30	1,15	0,99
65	-10	301	263	1,42	1,33	1,14
65	-5	388	295	1,56	1,53	1,32
65	0	491	327	1,70	1,75	1,50
65	5	610	360	1,85	1,97	1,69
65	7,2	667	374	1,92	2,07	1,78
65	10	743	393	2,01	2,20	1,89

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	221	165	1,06	1,34	1,16
40	-20	297	184	1,13	1,61	1,39
40	-15	390	204	1,20	1,91	1,65
40	-10	498	224	1,27	2,22	1,92
40	-5	623	245	1,35	2,54	2,20
40	0	764	266	1,44	2,87	2,48
40	5	921	288	1,53	3,20	2,76
40	7,2	995	298	1,57	3,34	2,89
40	10	1.094	310	1,62	3,53	3,05

45	-25	204	166	1,06	1,23	1,06
45	-20	273	188	1,14	1,46	1,26
45	-15	359	210	1,22	1,71	1,48
45	-10	461	232	1,30	1,98	1,71
45	-5	579	255	1,39	2,27	1,96
45	0	713	279	1,49	2,56	2,21
45	5	863	303	1,59	2,85	2,46
45	7,2	935	314	1,64	2,98	2,57
45	10	1.030	327	1,70	3,14	2,72

50	-25	186	168	1,07	1,11	0,96
50	-20	249	191	1,15	1,30	1,13
50	-15	328	216	1,24	1,52	1,32
50	-10	423	240	1,33	1,76	1,52
50	-5	535	266	1,43	2,01	1,74
50	0	662	291	1,54	2,27	1,96
50	5	806	318	1,66	2,54	2,19
50	7,2	874	329	1,71	2,65	2,29
50	10	965	345	1,78	2,80	2,42

55	-25	169	169	1,07	1,00	0,87
55	-20	225	195	1,16	1,16	1,00
55	-15	298	221	1,26	1,34	1,16
55	-10	386	248	1,37	1,55	1,34
55	-5	491	276	1,48	1,78	1,54
55	0	611	304	1,60	2,01	1,74
55	5	748	332	1,72	2,25	1,94
55	7,2	813	345	1,78	2,36	2,04
55	10	901	362	1,86	2,49	2,15

60	-25	152	170	1,08	0,89	0,77
60	-20	201	198	1,18	1,02	0,88
60	-15	267	227	1,28	1,17	1,02
60	-10	349	256	1,40	1,36	1,17
60	-5	446	286	1,52	1,56	1,35
60	0	560	316	1,65	1,77	1,53
60	5	690	347	1,79	1,99	1,72
60	7,2	753	361	1,85	2,08	1,80
60	10	836	379	1,94	2,21	1,91

65	-25	135	172	1,08	0,79	0,68
65	-20	178	202	1,19	0,88	0,76
65	-15	236	233	1,31	1,01	0,88
65	-10	311	265	1,43	1,18	1,02
65	-5	402	297	1,56	1,36	1,17
65	0	509	329	1,71	1,55	1,34
65	5	632	362	1,86	1,75	1,51
65	7,2	692	377	1,93	1,84	1,59
65	10	772	396	2,02	1,95	1,69

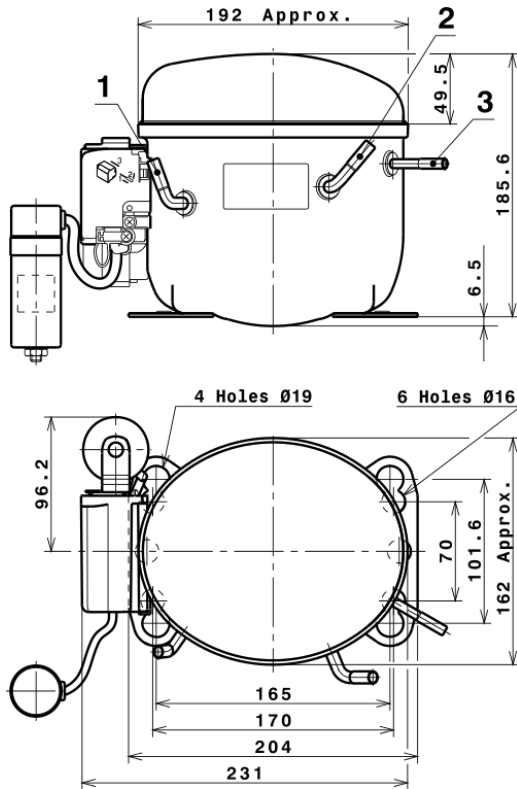
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.176,2197514215	170,1128258726	0,9946832069	19,625403740377
2	40,7274851609	0,8099817607	0,0023932155	0,76381377995693
3	-10,5447873236	2,5783467745	0,0115734547	-0,070851410440816
4	0,3171924209	0,0123451476	0,0001592337	0,0091486419894375
5	-0,2825596190	0,0921718536	0,0004254716	-0,00135691534328

Equation	$x_1 + x_2Te + x_3Tc + x_4Te^2 + x_5TeTc$
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Technical Data Sheet

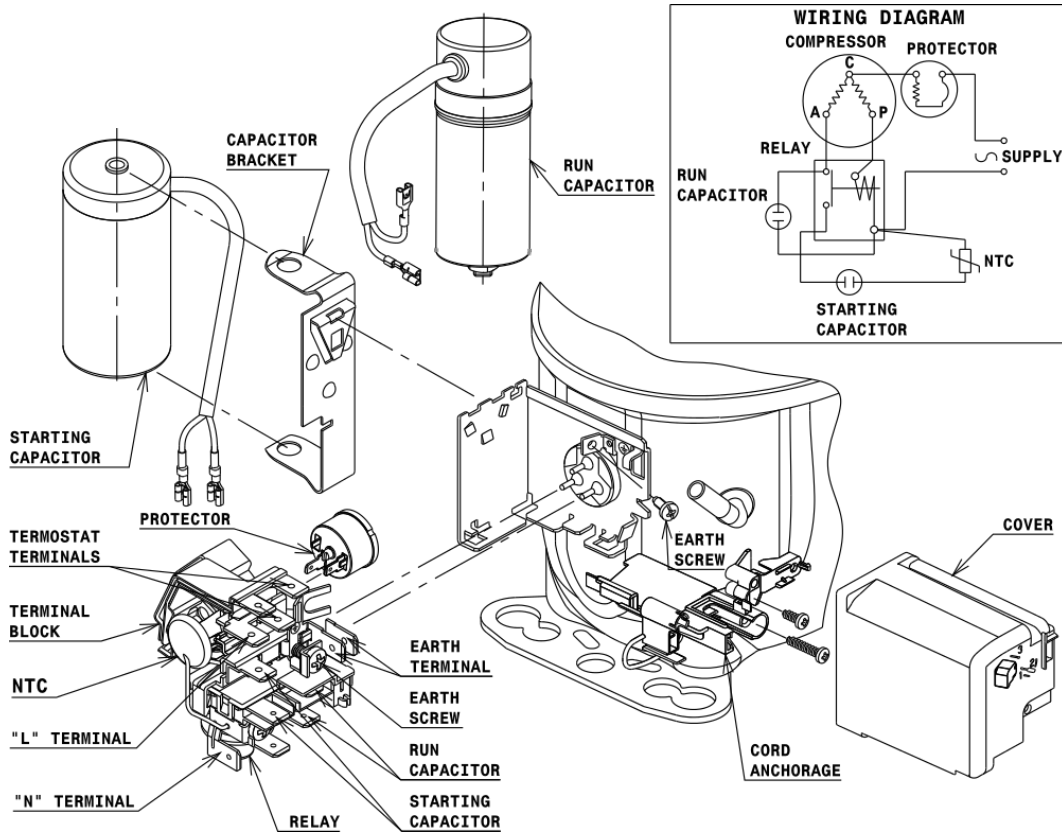
COMPRESSOR DIMENSIONS



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

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSR CONNECTION (CURRENT RELAY + NTC) (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 HMBP

