

Technical Data Sheet

Compressor model **GLY80RDa**
 Voltage **115V 60Hz ~1**
 Refrigerant **R134a**

APPLICATION

COMPRESSOR

MOTOR

Application	High-Medium Back Pressure	Displacement	8,10 cm ³	Nominal Power	1/5 hp
Refrigerant	R134a	Diameter	24,29 mm	Voltage/Frequency	115V 60Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	17,47 mm	Voltage range	98-132 V
Expansion	Capillar/Valve	Net Weight	9,74 Kg	Type	CSIR
Comp. Cooling	Fan cooled	Oil type	ISO VG 32 ESTER	Phase number	1 PH
Max. ambient temp.	43,0 °C	Oil charge	295 cm ³	Locked Rotor Amps (LRA)	28,20 A
Compatible refriger.	R1234yf			Max. Cont. Current (MCC)	6,80 A
				Main W. resist. at 25°C	1,70 Ω
				Start W. resist. at 25°C	6,80 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	800 kCal/h	775 W
COP	2,34 W/W	2,02 W/W
EER	2,01 kCal/Wh	1,75 kCal/Wh
Input Power	398 W	384 W
Current	4,40 A	4,29 A



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	115 V 60 Hz	115 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	200 µF 160 V			
Relay	Option 1			
Reference	2014 170.			
Pick-Up	12,10 A			
Drop-Out	10,30 A			
Protector	Option 1			
Reference	T0535			
Current	17,00 A			
Time check	7,5-14 seg			
Disc temp. (Open/Close)	105,00 / 52,00 °C			

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	210	186	2,99	1,31	1,13
40	-20	278	206	3,11	1,57	1,35
40	-15	364	227	3,24	1,86	1,60
40	-10	467	251	3,39	2,16	1,86
40	-5	586	276	3,55	2,47	2,12
40	0	723	303	3,73	2,77	2,38
40	5	877	333	3,93	3,07	2,64
40	7,2	950	346	4,03	3,19	2,75
40	10	1.048	364	4,15	3,35	2,88

45	-25	193	187	2,99	1,20	1,04
45	-20	257	209	3,13	1,43	1,23
45	-15	337	233	3,28	1,68	1,45
45	-10	434	259	3,44	1,95	1,68
45	-5	549	287	3,62	2,22	1,91
45	0	680	317	3,82	2,50	2,15
45	5	829	349	4,04	2,77	2,38
45	7,2	900	363	4,15	2,88	2,48
45	10	995	382	4,29	3,03	2,60

50	-25	177	187	3,00	1,10	0,94
50	-20	235	212	3,15	1,29	1,11
50	-15	310	239	3,31	1,51	1,30
50	-10	402	268	3,50	1,75	1,50
50	-5	512	298	3,70	2,00	1,72
50	0	638	331	3,92	2,24	1,93
50	5	781	365	4,16	2,49	2,14
50	7,2	850	381	4,27	2,60	2,23
50	10	942	401	4,42	2,73	2,35

55	-25	160	188	3,00	0,99	0,85
55	-20	213	215	3,17	1,15	0,99
55	-15	283	245	3,35	1,34	1,16
55	-10	370	276	3,55	1,56	1,34
55	-5	474	309	3,77	1,78	1,53
55	0	595	344	4,01	2,01	1,73
55	5	734	381	4,28	2,24	1,93
55	7,2	800	398	4,40	2,34	2,01
55	10	889	420	4,56	2,46	2,12

60	-25	143	189	3,00	0,88	0,76
60	-20	191	219	3,19	1,02	0,87
60	-15	256	251	3,39	1,19	1,02
60	-10	338	284	3,61	1,38	1,19
60	-5	437	320	3,85	1,59	1,36
60	0	553	358	4,11	1,80	1,55
60	5	686	397	4,40	2,01	1,73
60	7,2	750	415	4,53	2,10	1,81
60	10	836	439	4,71	2,22	1,91

65	-25	127	189	3,01	0,78	0,67
65	-20	169	222	3,21	0,89	0,76
65	-15	229	256	3,42	1,04	0,89
65	-10	306	293	3,66	1,21	1,04
65	-5	399	331	3,92	1,40	1,21
65	0	510	371	4,21	1,60	1,37
65	5	638	414	4,52	1,80	1,54
65	7,2	700	433	4,66	1,88	1,62
65	10	783	458	4,85	1,99	1,71

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	226	187	2,99	1,21	1,05
40	-20	301	207	3,11	1,46	1,26
40	-15	394	228	3,25	1,72	1,49
40	-10	504	252	3,40	2,00	1,73
40	-5	633	278	3,56	2,28	1,97
40	0	780	305	3,74	2,55	2,21
40	5	944	335	3,95	2,82	2,44
40	7,2	1.022	348	4,04	2,94	2,54
40	10	1.127	366	4,17	3,08	2,66

45	-25	207	188	3,00	1,10	0,95
45	-20	276	210	3,13	1,31	1,13
45	-15	362	234	3,28	1,55	1,34
45	-10	467	261	3,45	1,79	1,55
45	-5	589	289	3,63	2,04	1,76
45	0	729	319	3,84	2,29	1,98
45	5	888	351	4,06	2,53	2,19
45	7,2	963	366	4,16	2,63	2,28
45	10	1.064	385	4,30	2,76	2,39

50	-25	188	188	3,00	1,00	0,86
50	-20	251	213	3,15	1,17	1,01
50	-15	331	240	3,32	1,38	1,19
50	-10	429	269	3,50	1,59	1,38
50	-5	545	300	3,71	1,82	1,57
50	0	679	333	3,93	2,04	1,76
50	5	831	367	4,18	2,26	1,96
50	7,2	904	383	4,29	2,36	2,04
50	10	1.002	404	4,44	2,48	2,14

55	-25	169	189	3,01	0,90	0,77
55	-20	225	217	3,17	1,04	0,90
55	-15	299	246	3,36	1,22	1,05
55	-10	391	278	3,56	1,41	1,22
55	-5	501	311	3,78	1,61	1,39
55	0	629	346	4,03	1,82	1,57
55	5	775	384	4,29	2,02	1,75
55	7,2	845	401	4,42	2,11	1,82
55	10	939	423	4,58	2,22	1,92

60	-25	150	190	3,01	0,79	0,68
60	-20	200	220	3,19	0,91	0,79
60	-15	268	252	3,39	1,06	0,92
60	-10	354	286	3,62	1,24	1,07
60	-5	457	322	3,86	1,42	1,23
60	0	579	360	4,12	1,61	1,39
60	5	719	400	4,41	1,80	1,55
60	7,2	786	418	4,55	1,88	1,62
60	10	876	442	4,73	1,98	1,71

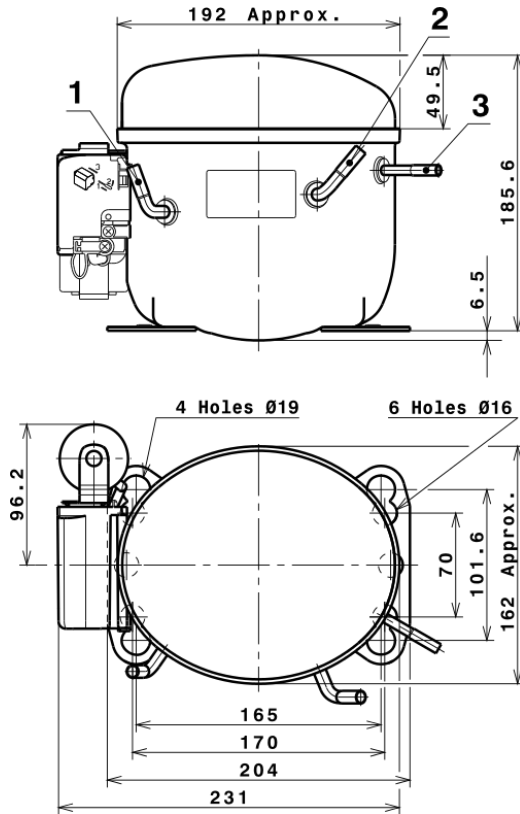
65	-25	131	190	3,01	0,69	0,60
65	-20	175	223	3,21	0,78	0,68
65	-15	236	258	3,43	0,92	0,79
65	-10	316	295	3,67	1,07	0,93
65	-5	413	333	3,94	1,24	1,07
65	0	529	374	4,22	1,42	1,22
65	5	662	416	4,54	1,59	1,37
65	7,2	727	435	4,68	1,67	1,44
65	10	814	461	4,88	1,77	1,53

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.185,6603943103	200,5296929240	2,9677628107	19,56022155087
2	41,2259118839	1,6418302995	0,0101636767	0,76841833937459
3	-10,3971769642	2,8154808314	0,0204968951	-0,061204073630559
4	0,3530814515	0,0418963729	0,0004357431	0,010119769703703
5	-0,2625383909	0,1071382246	0,0007871104	-0,00066072467343889

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



DESIGNATION INTERNAL DIAM.

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)

