

Technical Data Sheet

Compressor model **GLY12NRa**
 Voltage **115-127V 60Hz ~1**
 Refrigerant **R134a**

APPLICATION

COMPRESSOR

MOTOR

Application	Low-Medium Back Pressure	Displacement	10,70 cm ³	Nominal Power	3/8 hp
Refrigerant	R134a	Diameter	25,40 mm	Voltage/Frequency	115-127V 60Hz
Evaporating Temp.	-35,0 °C to 0,0 °C	Stroke	21,11 mm	Voltage range	98-140 V
Expansion	Capillar/Valve	Net Weight	10,55 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	350 cm ³	Locked Rotor Amps (LRA)	28,50 A
Compatible refriger.	R1234yf			Max. Cont. Current (MCC)	7,00 A
				Main W. resist. at 25°C	1,60 Ω
				Start W. resist. at 25°C	5,45 Ω

NOMINAL PERFORMANCE

APPROVALS

	ASHRAE	CECOMAF
Cooling Capacity	275 kCal/h	234 W
COP	1,33 W/W	1,02 W/W
EER	1,14 kCal/Wh	0,88 kCal/Wh
Input Power	241 W	229 W
Current	3,24 A	3,17 A

TEST CYCLE CONDITIONS

	ASHRAE LMBP (B)	CECOMAF LMBP (A)
Evaporating temp. (T _e)	-23,3 °C	-25,0 °C
Condensing temp. (T _c)	55,0 °C	55,0 °C
Liquid temp. (T _{liq.})	32,0 °C	55,0 °C
Ambient temp. (T _{amb.})	32,0 °C	32,0 °C
Suction temp. (T _{suction})	32,0 °C	32,0 °C
Voltage/Frequency	115 V 60 Hz	115 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	250 µF 160 V			
Relay	Option 1			
Reference	2014 170.			
Pick-Up	12,10 A			
Drop-Out	10,30 A			
Protector	Option 1			
Reference	T0260			
Current	22,00 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	-35	163	180	2,89	1,05	0,91
40	-30	219	200	3,00	1,27	1,10
40	-25	293	223	3,13	1,53	1,31
40	-23,3	322	232	3,18	1,62	1,39
40	-20	385	250	3,29	1,79	1,54
40	-15	495	279	3,49	2,06	1,77
40	-10	622	312	3,72	2,32	1,99
40	-5	768	349	3,98	2,56	2,20
40	0	931	388	4,29	2,79	2,40

45	-35	151	175	2,86	1,00	0,86
45	-30	205	198	2,99	1,20	1,03
45	-25	278	225	3,14	1,44	1,23
45	-23,3	307	235	3,20	1,52	1,30
45	-20	368	255	3,33	1,68	1,44
45	-15	476	288	3,55	1,92	1,65
45	-10	603	325	3,80	2,16	1,86
45	-5	747	364	4,10	2,38	2,05
45	0	908	407	4,45	2,60	2,23

50	-35	138	170	2,84	0,95	0,81
50	-30	192	197	2,98	1,13	0,97
50	-25	263	227	3,15	1,35	1,16
50	-23,3	291	238	3,22	1,42	1,22
50	-20	351	260	3,36	1,57	1,35
50	-15	458	297	3,61	1,79	1,54
50	-10	583	337	3,89	2,01	1,73
50	-5	725	380	4,23	2,22	1,91
50	0	886	426	4,61	2,42	2,08

55	-35	126	165	2,81	0,89	0,76
55	-30	178	195	2,97	1,06	0,91
55	-25	247	229	3,17	1,26	1,08
55	-23,3	275	241	3,24	1,33	1,14
55	-20	335	266	3,40	1,47	1,26
55	-15	440	306	3,67	1,67	1,44
55	-10	563	349	3,98	1,88	1,61
55	-5	704	395	4,35	2,07	1,78
55	0	863	445	4,78	2,26	1,94

60	-35	114	160	2,78	0,83	0,71
60	-30	164	194	2,96	0,98	0,85
60	-25	232	231	3,18	1,17	1,01
60	-23,3	259	244	3,26	1,24	1,06
60	-20	318	271	3,43	1,36	1,17
60	-15	422	314	3,73	1,56	1,34
60	-10	543	361	4,08	1,75	1,51
60	-5	683	411	4,48	1,93	1,66
60	0	840	464	4,95	2,11	1,81

65	-35	101	155	2,76	0,76	0,65
65	-30	150	192	2,95	0,91	0,78
65	-25	217	233	3,19	1,08	0,93
65	-23,3	243	247	3,28	1,15	0,99
65	-20	301	276	3,47	1,27	1,09
65	-15	404	323	3,79	1,45	1,25
65	-10	524	373	4,17	1,63	1,40
65	-5	662	426	4,62	1,80	1,55
65	0	818	483	5,13	1,97	1,69

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	178	180	2,89	0,99	0,85
40	-30	247	200	3,00	1,23	1,07
40	-25	333	223	3,13	1,49	1,29
40	-23,3	366	232	3,18	1,58	1,36
40	-20	435	250	3,29	1,74	1,51
40	-15	555	279	3,49	1,98	1,71
40	-10	691	312	3,72	2,21	1,91
40	-5	843	349	3,98	2,42	2,09
40	0	1.013	388	4,29	2,61	2,26

45	-35	158	175	2,86	0,90	0,78
45	-30	221	198	2,99	1,11	0,96
45	-25	300	225	3,14	1,33	1,15
45	-23,3	330	235	3,20	1,41	1,22
45	-20	396	255	3,33	1,55	1,34
45	-15	508	288	3,55	1,76	1,52
45	-10	637	325	3,80	1,96	1,70
45	-5	783	364	4,10	2,15	1,86
45	0	946	407	4,45	2,32	2,01

50	-35	139	170	2,84	0,82	0,70
50	-30	194	197	2,98	0,99	0,85
50	-25	267	227	3,15	1,17	1,02
50	-23,3	295	238	3,22	1,24	1,07
50	-20	356	260	3,36	1,37	1,18
50	-15	462	297	3,61	1,55	1,34
50	-10	584	337	3,89	1,73	1,50
50	-5	723	380	4,23	1,90	1,65
50	0	879	426	4,61	2,06	1,78

55	-35	119	165	2,81	0,72	0,62
55	-30	168	195	2,97	0,86	0,74
55	-25	234	229	3,17	1,02	0,88
55	-23,3	260	241	3,24	1,08	0,93
55	-20	316	266	3,40	1,19	1,03
55	-15	415	306	3,67	1,36	1,17
55	-10	531	349	3,98	1,52	1,31
55	-5	663	395	4,35	1,68	1,45
55	0	812	445	4,78	1,82	1,58

60	-35	100	160	2,78	0,62	0,54
60	-30	142	194	2,96	0,73	0,63
60	-25	201	231	3,18	0,87	0,75
60	-23,3	224	244	3,26	0,92	0,79
60	-20	276	271	3,43	1,02	0,88
60	-15	368	314	3,73	1,17	1,01
60	-10	477	361	4,08	1,32	1,14
60	-5	603	411	4,48	1,47	1,27
60	0	745	464	4,95	1,61	1,39

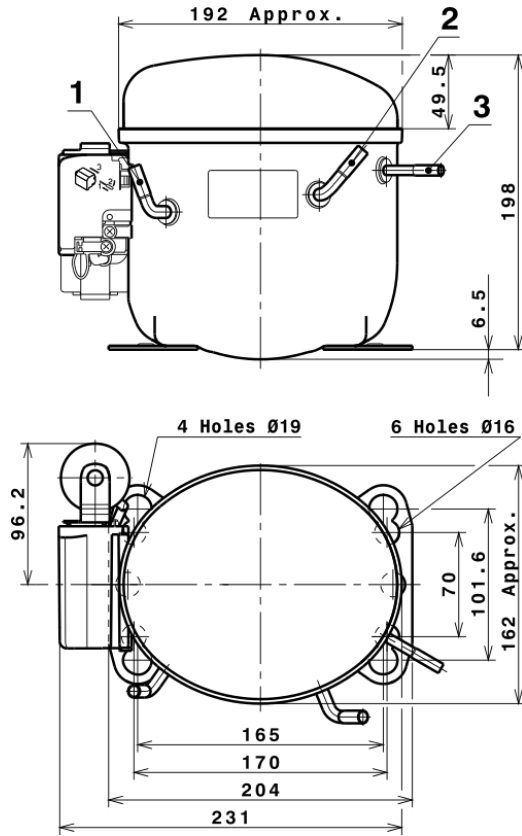
65	-35	80	155	2,76	0,52	0,45
65	-30	116	192	2,95	0,60	0,52
65	-25	168	233	3,19	0,72	0,62
65	-23,3	189	247	3,28	0,77	0,66
65	-20	236	276	3,47	0,86	0,74
65	-15	322	323	3,79	1,00	0,86
65	-10	424	373	4,17	1,14	0,98
65	-5	543	426	4,62	1,27	1,10
65	0	678	483	5,13	1,40	1,21

EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.548,5495693735	242,0953105571	3,0209795143	26,843772972984
2	46,2291259059	2,8616564659	0,0280669538	0,90598067917666
3	-13,7581384064	3,8981448310	0,0338638416	-0,10953064623653
4	0,3264790345	0,0675863617	0,0008875472	0,0089738102650209
5	-0,2816465233	0,1405613624	0,0011221064	-0,001478749551068

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

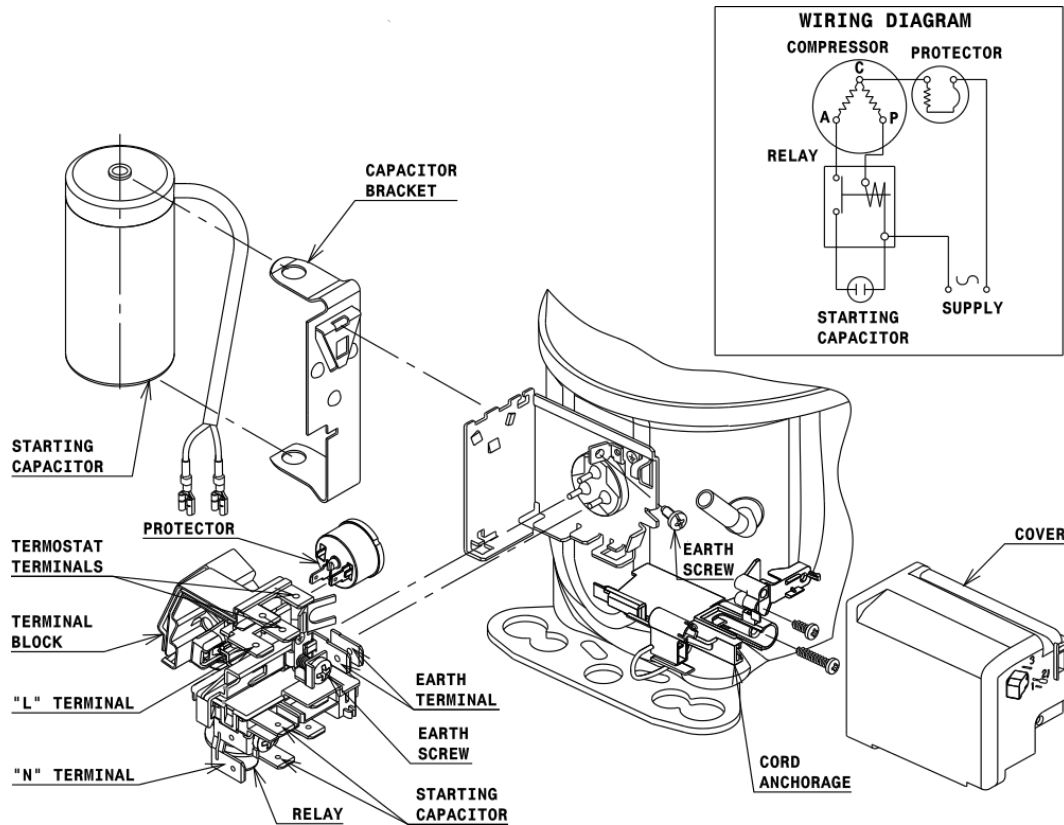


DESIGNATION INTERNAL DIAM.

DESIGNATION	INTERNAL DIAM.
1 Suction	8,1 mm
2 Service	8,1 mm
3 Discharge	6,5 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (L, P ranges)



FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

STANDARD

$\varnothing 16$ holes (170x70 net)



AMERICAN FEET

$\varnothing 19$ holes (165x101.6 net)



SNAP-ON

$\varnothing 16$ holes (170x70 net)



SOA

SOA R134a LMBP

