

Technical Data Sheet

ENGINEERING
TOMORROW



Compressor model **GLY90RDa**
Voltage **115V 60Hz ~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	115V 60Hz
Evaporating Temp.	-25,0 °C to 10,0 °C	Stroke	19,62 mm	Voltage range	98-132 V
Expansion	Capillar/Valve	Net Weight	10,59 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	300 cm ³	Locked Rotor Amps (LRA)	29,00 A
Compatible refriger.	R1234yf			Max. Cont. Current (MCC)	8,00 A
				Main W. resist. at 25°C	1,46 Ω
				Start W. resist. at 25°C	7,21 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	900 kCal/h	874 W
COP	2,25 W/W	1,95 W/W
EER	1,94 kCal/Wh	1,68 kCal/Wh
Input Power	465 W	448 W
Current	5,12 A	4,98 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	115 V 60 Hz	115 V 60 Hz

ELECTRICAL COMPONENTS

Starting capacitor	200 µF 160 V			
Relay	Option 1			
Reference	2014 180.			
Pick-Up	16,70 A			
Drop-Out	14,00 A			
Protector	Option 1	Option 2		
Reference	MRA38152	T0260		
Current	27,50 A	22,00 A		
Time check	2,8-5,2 seg	7,5-14 seg		
Disc temp. (Open/Close)	105,00 / 52,00 °C	105,00 / 52,00 °C		

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ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	240	210	3,35	1,33	1,14
40	-20	322	236	3,50	1,59	1,37
40	-15	422	263	3,66	1,86	1,60
40	-10	540	292	3,85	2,15	1,85
40	-5	676	323	4,05	2,43	2,09
40	0	829	356	4,27	2,71	2,33
40	5	1.001	390	4,52	2,99	2,57
40	7,2	1.082	405	4,64	3,11	2,67
40	10	1.190	425	4,80	3,26	2,80

45	-25	222	211	3,36	1,23	1,05
45	-20	298	240	3,52	1,44	1,24
45	-15	391	270	3,71	1,68	1,45
45	-10	502	302	3,91	1,93	1,66
45	-5	631	336	4,14	2,19	1,88
45	0	778	371	4,39	2,44	2,10
45	5	943	408	4,66	2,69	2,31
45	7,2	1.021	425	4,79	2,79	2,40
45	10	1.126	447	4,97	2,93	2,52

50	-25	205	212	3,36	1,12	0,97
50	-20	273	244	3,55	1,30	1,12
50	-15	360	277	3,75	1,51	1,30
50	-10	465	312	3,97	1,73	1,49
50	-5	587	349	4,22	1,96	1,68
50	0	727	387	4,50	2,19	1,88
50	5	885	427	4,81	2,41	2,07
50	7,2	961	445	4,96	2,51	2,16
50	10	1.061	468	5,15	2,64	2,27

55	-25	187	213	3,37	1,02	0,88
55	-20	249	248	3,57	1,17	1,01
55	-15	329	284	3,79	1,35	1,16
55	-10	427	322	4,04	1,54	1,33
55	-5	543	362	4,32	1,75	1,50
55	0	676	403	4,62	1,95	1,68
55	5	828	446	4,96	2,16	1,86
55	7,2	900	465	5,12	2,25	1,94
55	10	997	490	5,33	2,37	2,03

60	-25	169	214	3,38	0,92	0,79
60	-20	225	252	3,59	1,04	0,89
60	-15	298	291	3,84	1,19	1,02
60	-10	389	332	4,11	1,36	1,17
60	-5	498	374	4,41	1,55	1,33
60	0	625	419	4,74	1,74	1,49
60	5	770	464	5,11	1,93	1,66
60	7,2	839	485	5,29	2,01	1,73
60	10	933	512	5,52	2,12	1,82

65	-25	152	215	3,38	0,82	0,71
65	-20	200	256	3,62	0,91	0,78
65	-15	267	298	3,88	1,04	0,90
65	-10	352	342	4,18	1,20	1,03
65	-5	454	387	4,50	1,36	1,17
65	0	574	434	4,87	1,54	1,32
65	5	712	483	5,27	1,71	1,47
65	7,2	779	505	5,46	1,79	1,54
65	10	868	533	5,72	1,89	1,63

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-25	259	211	3,36	1,22	1,06
40	-20	348	237	3,51	1,47	1,27
40	-15	456	265	3,67	1,72	1,49
40	-10	584	294	3,86	1,98	1,71
40	-5	730	325	4,06	2,24	1,94
40	0	894	358	4,29	2,50	2,16
40	5	1.078	392	4,54	2,75	2,38
40	7,2	1.164	408	4,66	2,86	2,47
40	10	1.280	428	4,82	2,99	2,58

45	-25	238	212	3,37	1,12	0,97
45	-20	320	241	3,53	1,33	1,15
45	-15	420	272	3,71	1,55	1,34
45	-10	540	304	3,92	1,78	1,53
45	-5	678	338	4,15	2,01	1,73
45	0	834	374	4,40	2,23	1,93
45	5	1.010	411	4,68	2,46	2,12
45	7,2	1.093	428	4,82	2,56	2,21
45	10	1.204	450	4,99	2,68	2,31

50	-25	218	213	3,37	1,02	0,88
50	-20	292	245	3,55	1,19	1,03
50	-15	384	279	3,76	1,38	1,19
50	-10	496	314	3,99	1,58	1,36
50	-5	626	351	4,24	1,78	1,54
50	0	774	389	4,52	1,99	1,72
50	5	942	430	4,83	2,19	1,89
50	7,2	1.022	448	4,98	2,28	1,97
50	10	1.129	472	5,17	2,39	2,07

55	-25	198	214	3,38	0,92	0,80
55	-20	264	249	3,58	1,06	0,91
55	-15	348	286	3,80	1,22	1,05
55	-10	452	324	4,05	1,39	1,20
55	-5	574	364	4,33	1,58	1,36
55	0	715	405	4,64	1,76	1,52
55	5	874	448	4,98	1,95	1,68
55	7,2	951	468	5,15	2,03	1,75
55	10	1.053	493	5,36	2,13	1,84

60	-25	178	215	3,38	0,83	0,71
60	-20	236	253	3,60	0,93	0,80
60	-15	312	293	3,85	1,07	0,92
60	-10	408	334	4,12	1,22	1,06
60	-5	522	377	4,43	1,39	1,20
60	0	655	421	4,76	1,55	1,34
60	5	807	467	5,14	1,73	1,49
60	7,2	879	488	5,32	1,80	1,56
60	10	977	515	5,55	1,90	1,64

65	-25	157	216	3,39	0,73	0,63
65	-20	207	257	3,62	0,81	0,70
65	-15	276	299	3,89	0,92	0,80
65	-10	364	344	4,19	1,06	0,91
65	-5	470	389	4,52	1,21	1,04
65	0	595	437	4,89	1,36	1,18
65	5	739	486	5,30	1,52	1,31
65	7,2	808	508	5,49	1,59	1,37
65	10	901	537	5,75	1,68	1,45

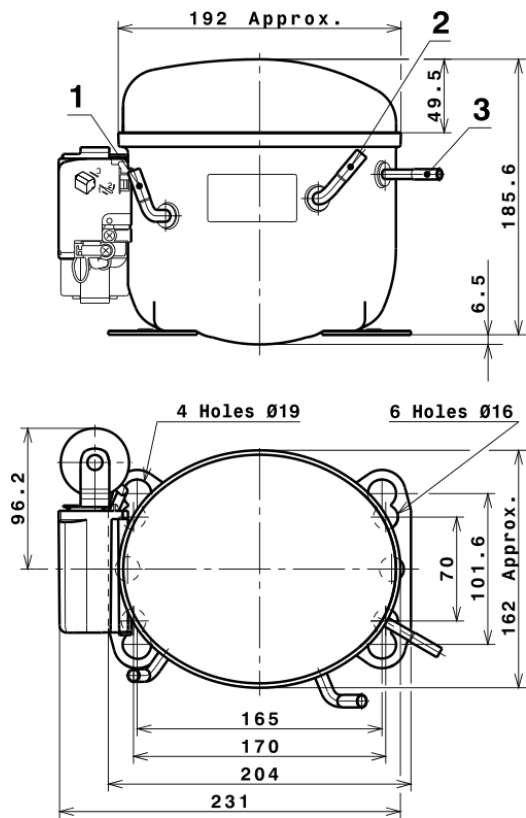
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.377,9380743059	236,6348654200	3,2690694392	23,010803005504
2	47,6287592930	2,0778913368	0,0127584799	0,89329104431937
3	-12,3771309198	3,2592375982	0,0265532974	-0,083994214857782
4	0,3692124791	0,0366489939	0,0006233442	0,010653508694683
5	-0,3312109930	0,1221479909	0,0010161951	-0,0016081483163704

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

COMPRESSOR DIMENSIONS

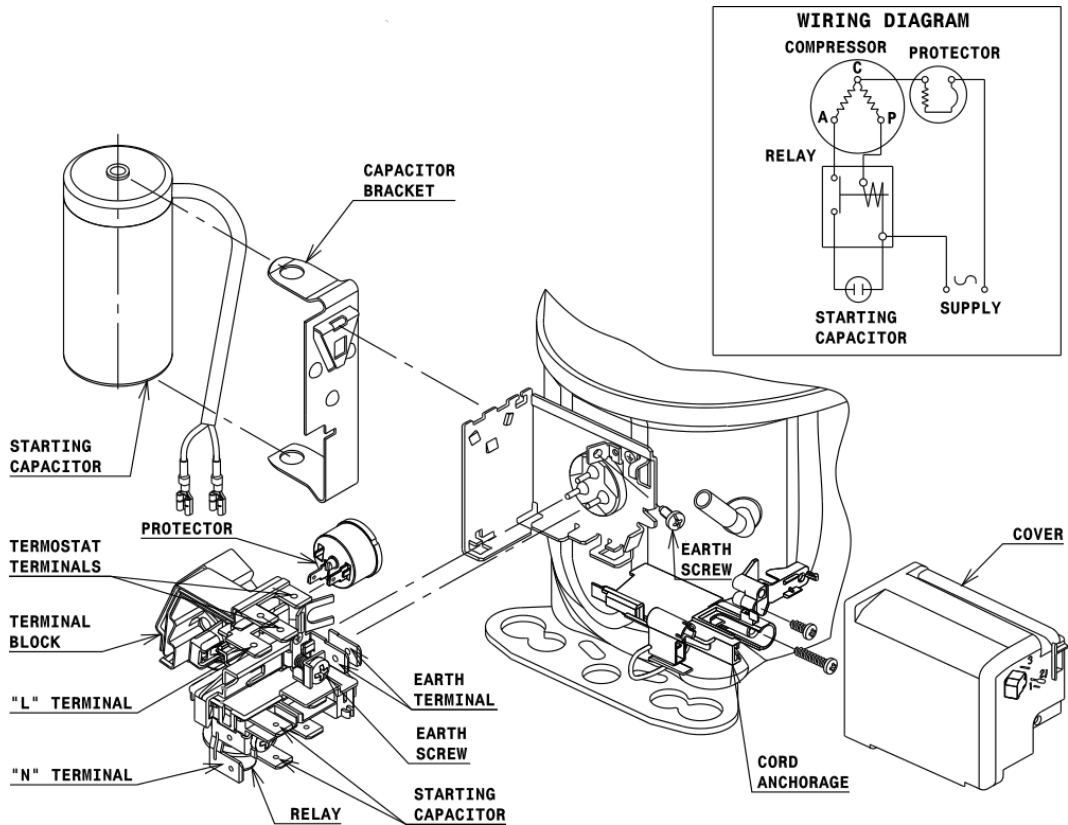


DESIGNATION INTERNAL DIAM.

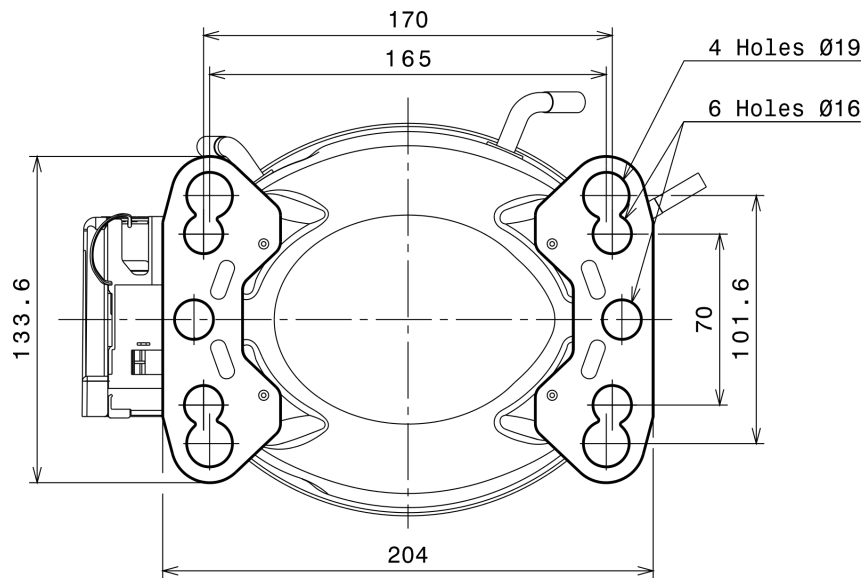
	DESIGNATION	INTERNAL DIAM.
1	Suction	6,5 mm
2	Service	6,5 mm
3	Discharge	4,9 mm

WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

CSIR CONNECTION (L, P ranges)



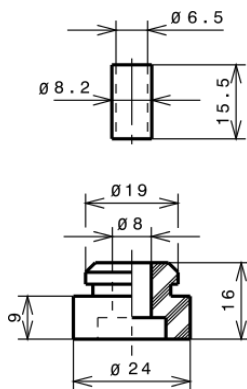
FIXINGS



SILENT BLOCKS (MOUNTING ACCESSORIES)

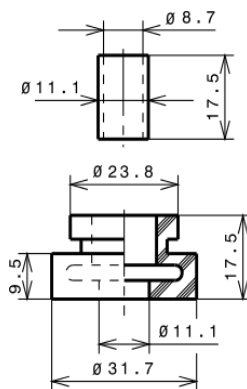
STANDARD

Ø16 holes (170x70 net)



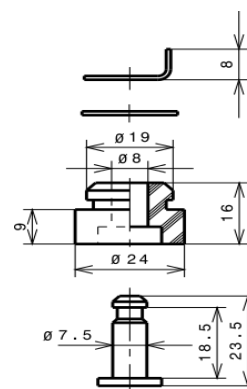
AMERICAN FEET

Ø19 holes (165x101.6 net)



SNAP-ON

Ø16 holes (170x70 net)



SOA

SOA R134a HMBP

