

# Technical Data Sheet

Compressor model **GLY12RGb**  
 Voltage **200-220/220-230V 50/60Hz ~1**  
 Refrigerant **R134a**

## APPLICATION

Application High Back Pressure  
 Refrigerant R134a  
 Evaporating Temp. -15,0 °C to 10,0 °C  
 Expansion Capillar/Valve  
 Comp. Cooling Fan cooled  
 Max. ambient temp. 43,0 °C  
 Compatible refriger. R1234yf

## COMPRESSOR

Displacement 10,70 cm<sup>3</sup>  
 Diameter 25,40 mm  
 Stroke 21,12 mm  
 Net Weight 10,53 Kg  
 Oil type ISO VG 32 ESTER  
 Oil charge 345 cm<sup>3</sup>

## MOTOR

Nominal Power 3/8 hp  
 Voltage/Frequency 220-230V 60Hz  
 Voltage range 187-244 V  
 Type CSR  
 Phase number 1 PH  
 Locked Rotor Amps (LRA) 17,00 A  
 Max. Cont. Current (MCC) 4,20 A  
 Main W. resist. at 25°C 6,30 Ω  
 Start W. resist. at 25°C 17,00 Ω

## NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	1.038 kCal/h	1.007 W
COP	2,40 W/W	2,07 W/W
EER	2,06 kCal/Wh	1,78 kCal/Wh
Input Power	504 W	488 W
Current	2,43 A	2,36 A

## APPROVALS



## TEST CYCLE CONDITIONS

	ASHRAE HBP (D)	CECOMAF HBP (C)
Evaporating temp. (T <sub>e</sub> )	7,2 °C	5,0 °C
Condensing temp. (T <sub>c</sub> )	55,0 °C	55,0 °C
Liquid temp. (T <sub>liq.</sub> )	46,0 °C	55,0 °C
Ambient temp. (T <sub>amb.</sub> )	35,0 °C	32,0 °C
Suction temp. (T <sub>suction</sub> )	35,0 °C	32,0 °C
Voltage/Frequency	230 V 60 Hz	230 V 60 Hz

## ELECTRICAL COMPONENTS

Starting capacitor	47- 56 µF 330 V		
Run capacitor	6 µF 400 V		
Relay	Option 1	Option 2	
Reference	2014 138. + NTC15î©	QLZ-6.1A	
Pick-Up	6.1 A	6.1 A	
Drop-Out	5.2 A	5.2 A	
Protector	Option 1		
Reference	T0266		
Current	11,00 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	-15	470	302	1,67	1,81	1,56
40	-10	604	336	1,79	2,09	1,80
40	-5	759	370	1,91	2,39	2,05
40	0	937	405	2,04	2,69	2,31
40	5	1.136	440	2,18	3,00	2,58
40	7,2	1.231	456	2,24	3,14	2,70
40	10	1.358	476	2,32	3,32	2,85

45	-15	441	306	1,68	1,68	1,44
45	-10	567	342	1,81	1,93	1,66
45	-5	714	379	1,95	2,19	1,88
45	0	884	417	2,09	2,47	2,12
45	5	1.075	455	2,23	2,75	2,36
45	7,2	1.167	472	2,30	2,87	2,47
45	10	1.289	494	2,39	3,04	2,61

50	-15	412	310	1,70	1,55	1,33
50	-10	530	349	1,83	1,76	1,52
50	-5	669	389	1,98	2,00	1,72
50	0	831	429	2,13	2,25	1,94
50	5	1.015	470	2,29	2,51	2,16
50	7,2	1.102	488	2,37	2,63	2,26
50	10	1.220	511	2,46	2,78	2,39

55	-15	383	314	1,71	1,42	1,22
55	-10	493	356	1,86	1,61	1,39
55	-5	624	398	2,02	1,82	1,57
55	0	778	441	2,18	2,05	1,76
55	5	954	485	2,35	2,29	1,97
55	7,2	1.038	504	2,43	2,40	2,06
55	10	1.151	529	2,53	2,53	2,18

60	-15	354	318	1,72	1,29	1,11
60	-10	456	362	1,88	1,46	1,26
60	-5	579	407	2,05	1,65	1,42
60	0	725	453	2,23	1,86	1,60
60	5	893	499	2,41	2,08	1,79
60	7,2	974	520	2,50	2,18	1,87
60	10	1.083	546	2,60	2,30	1,98

65	-15	325	322	1,74	1,17	1,01
65	-10	419	369	1,91	1,32	1,13
65	-5	534	417	2,09	1,49	1,28
65	0	672	465	2,27	1,68	1,45
65	5	832	514	2,47	1,88	1,62
65	7,2	909	536	2,56	1,97	1,70
65	10	1.014	564	2,68	2,09	1,80

## CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-15	506	304	1,67	1,67	1,44
40	-10	651	337	1,79	1,93	1,67
40	-5	819	372	1,92	2,20	1,90
40	0	1.009	407	2,05	2,48	2,14
40	5	1.223	443	2,19	2,76	2,39
40	7,2	1.325	459	2,25	2,89	2,49
40	10	1.460	479	2,33	3,05	2,63

45	-15	473	308	1,69	1,54	1,33
45	-10	608	344	1,82	1,77	1,53
45	-5	766	381	1,95	2,01	1,73
45	0	947	419	2,10	2,26	1,95
45	5	1.151	458	2,25	2,51	2,17
45	7,2	1.249	475	2,31	2,63	2,27
45	10	1.379	497	2,40	2,77	2,40

50	-15	439	312	1,70	1,41	1,22
50	-10	564	351	1,84	1,61	1,39
50	-5	713	391	1,99	1,82	1,58
50	0	885	431	2,14	2,05	1,77
50	5	1.079	473	2,30	2,28	1,97
50	7,2	1.172	491	2,38	2,39	2,06
50	10	1.297	515	2,47	2,52	2,18

55	-15	405	316	1,72	1,28	1,11
55	-10	521	358	1,87	1,46	1,26
55	-5	660	400	2,02	1,65	1,42
55	0	822	444	2,19	1,85	1,60
55	5	1.007	488	2,36	2,07	1,78
55	7,2	1.096	507	2,44	2,16	1,87
55	10	1.216	532	2,55	2,28	1,97

60	-15	371	320	1,73	1,16	1,00
60	-10	478	364	1,89	1,31	1,13
60	-5	607	410	2,06	1,48	1,28
60	0	760	456	2,24	1,67	1,44
60	5	936	503	2,42	1,86	1,61
60	7,2	1.020	523	2,51	1,95	1,68
60	10	1.134	550	2,62	2,06	1,78

65	-15	338	324	1,74	1,04	0,90
65	-10	435	371	1,92	1,17	1,01
65	-5	554	419	2,10	1,32	1,14
65	0	697	468	2,29	1,49	1,29
65	5	864	517	2,48	1,67	1,44
65	7,2	944	539	2,58	1,75	1,51
65	10	1.053	568	2,69	1,85	1,60

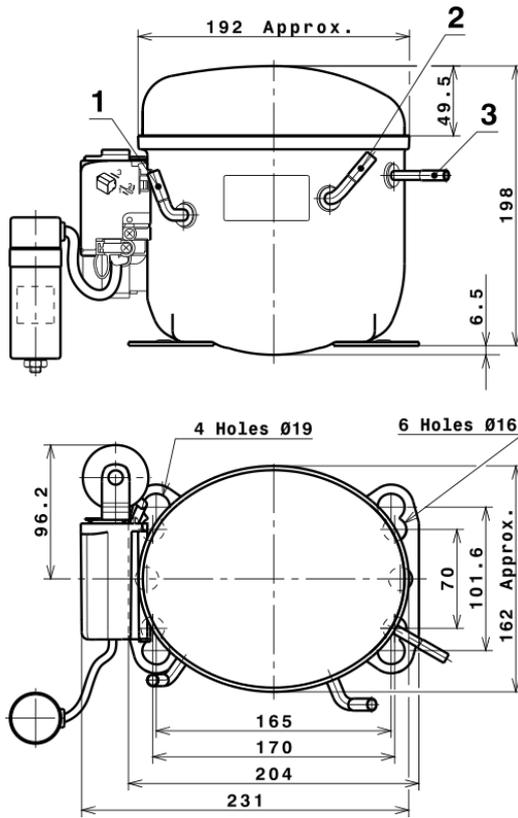
## EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.512,9714113452	317,4632499386	1,6868676242	25,170844211235
2	56,1548248797	2,9133852640	0,0097170956	1,0009212300448
3	-12,9277502686	2,5041075759	0,0099720660	-0,074288798022426
4	0,4563960962	0,0180176130	0,0001830871	0,0138316338944
5	-0,4027952394	0,1120631848	0,0004710755	-0,0012049397472755

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

## COMPRESSOR DIMENSIONS

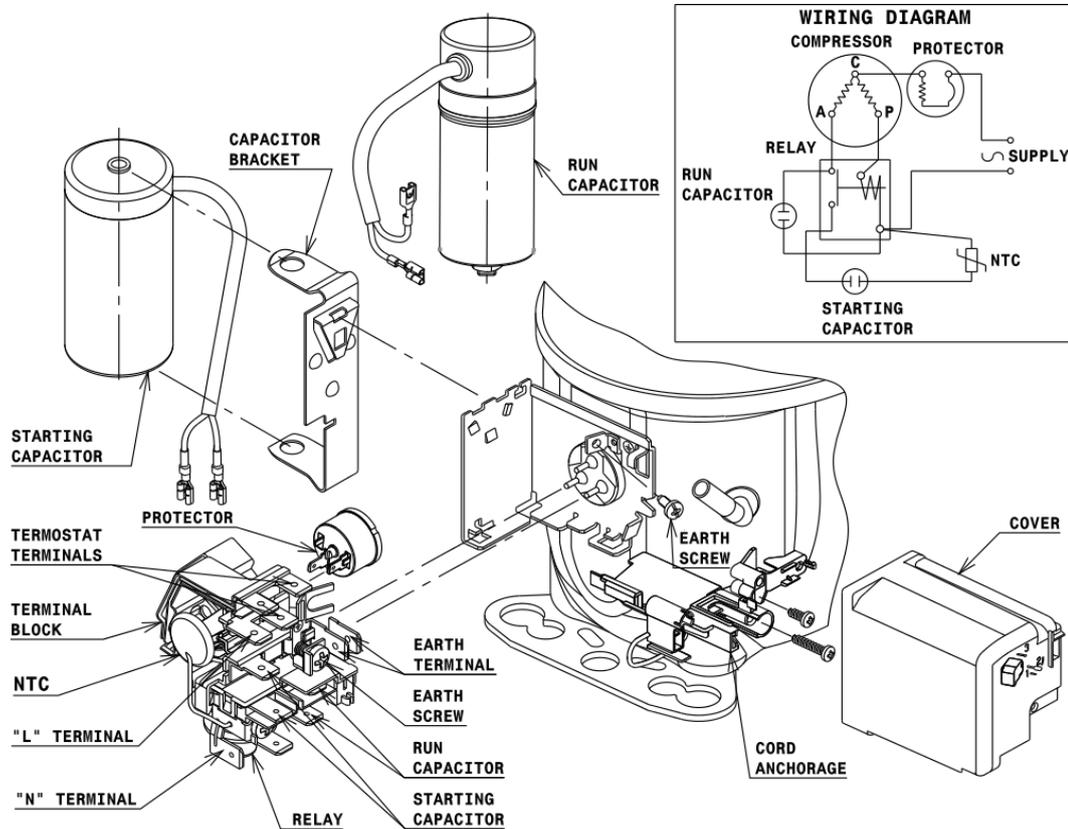


## DESIGNATION INTERNAL DIAM.

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

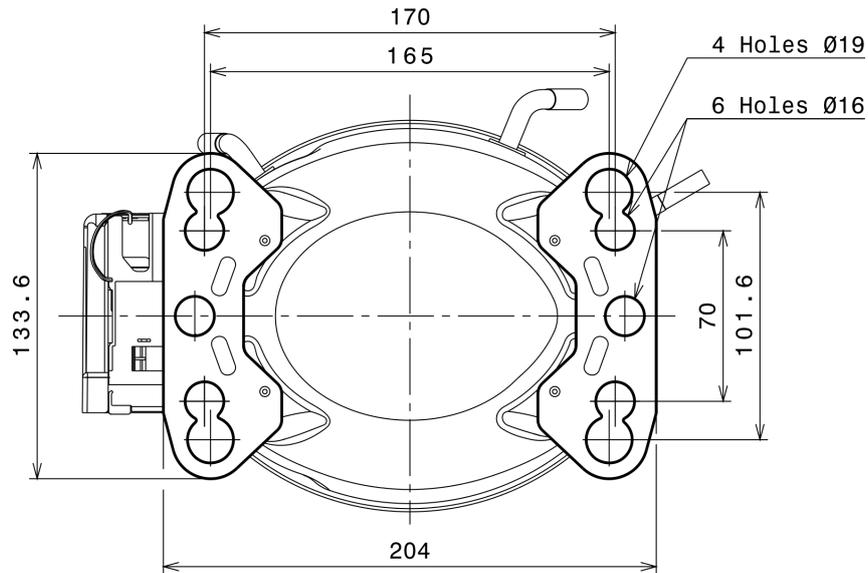
## WIRING DIAGRAMS AND ELECTRICAL ASSEMBLY

### CSR CONNECTION (CURRENT RELAY + NTC) (L, P ranges)



# Technical Data Sheet

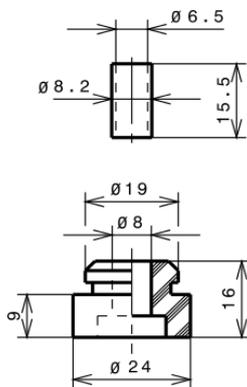
## FIXINGS



## SILENT BLOCKS (MOUNTING ACCESSORIES)

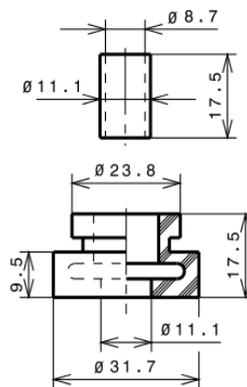
### STANDARD

Ø16 holes (170x70 net)



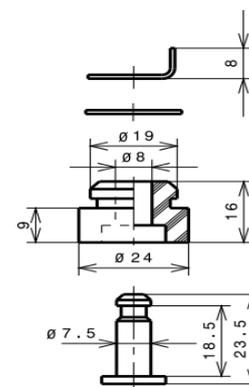
### AMERICAN FEET

Ø19 holes (165x101.6 net)



### SNAP-ON

Ø16 holes (170x70 net)



## SOA

SOA R134a HBP

