

# Technical Data Sheet

Compressor model **GL90ADa**  
 Voltage **115V 60Hz ~1**  
 Refrigerant **R134a**

## APPLICATION

Application Low Back Pressure  
 Refrigerant R134a  
 Evaporating Temp. -35,0 °C to -10,0 °C  
 Expansion Capillar  
 Comp. Cooling Static  
 Max. ambient temp. 43,0 °C  
 Compatible refriger. R1234yf

## COMPRESSOR

Displacement 9,09 cm<sup>3</sup>  
 Diameter 24,29 mm  
 Stroke 19,62 mm  
 Net Weight 11,11 Kg  
 Oil type ISO VG 32 ESTER  
 Oil charge 445 cm<sup>3</sup>

## MOTOR

Nominal Power 1/4 hp  
 Voltage/Frequency 115V 60Hz  
 Voltage range 98-132 V  
 Type RSIR  
 Phase number 1 PH  
 Locked Rotor Amps (LRA) 32,60 A  
 Max. Cont. Current (MCC) 5,00 A  
 Main W. resist. at 25°C 1,50 Ω  
 Start W. resist. at 25°C 3,80 Ω

## NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	224 kCal/h	191 W
COP	1,14 W/W	0,88 W/W
EER	0,98 kCal/Wh	0,76 kCal/Wh
Input Power	228 W	217 W
Current	3,61 A	3,57 A

## APPROVALS



## TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (A)
Evaporating temp. (T <sub>e</sub> )	-23,3 °C	-25,0 °C
Condensing temp. (T <sub>c</sub> )	55,0 °C	55,0 °C
Liquid temp. (T <sub>liq.</sub> )	32,0 °C	55,0 °C
Ambient temp. (T <sub>amb.</sub> )	32,0 °C	32,0 °C
Suction temp. (T <sub>suction</sub> )	32,0 °C	32,0 °C
Voltage/Frequency	115 V 60 Hz	115 V 60 Hz

## ELECTRICAL COMPONENTS

Relay	Option 1			
Reference	PTC K115			
Voltage	100 - 115 V			
Resistance	4,70 Ω			
Protector	Option 1	Option 2	Option 3	
Reference	MRA38089	4TM801RFBZZ	T0216	
Current	39,50 A	24,50 A	25,50 A	
Time check	2,8-5,2 seg	5-15 seg	7,5-14 seg	
Disc temp. (Open/Close)	130,00 / 61,00 °C	130,00 / 61,00 °C	135,00 / 61,00 °C	

## ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	127	163	3,42	0,91	0,78
40	-30	173	185	3,47	1,09	0,94
40	-25	232	210	3,54	1,28	1,10
40	-23,3	255	220	3,58	1,35	1,16
40	-20	303	240	3,66	1,47	1,27
40	-15	387	272	3,82	1,65	1,42
40	-10	484	309	4,04	1,82	1,57

45	-35	119	162	3,41	0,86	0,74
45	-30	164	185	3,47	1,03	0,89
45	-25	222	212	3,55	1,21	1,04
45	-23,3	244	223	3,59	1,28	1,10
45	-20	292	243	3,68	1,40	1,20
45	-15	375	278	3,85	1,57	1,35
45	-10	471	316	4,09	1,73	1,49

50	-35	111	160	3,41	0,81	0,69
50	-30	155	186	3,47	0,97	0,84
50	-25	212	215	3,56	1,15	0,99
50	-23,3	234	225	3,60	1,21	1,04
50	-20	282	247	3,69	1,32	1,14
50	-15	364	284	3,89	1,49	1,28
50	-10	459	324	4,15	1,65	1,42

55	-35	103	159	3,41	0,75	0,65
55	-30	146	186	3,47	0,91	0,79
55	-25	202	217	3,57	1,08	0,93
55	-23,3	224	228	3,61	1,14	0,98
55	-20	271	251	3,71	1,25	1,08
55	-15	352	289	3,92	1,42	1,22
55	-10	446	331	4,20	1,57	1,35

60	-35	95	158	3,41	0,70	0,60
60	-30	137	186	3,47	0,86	0,74
60	-25	192	219	3,57	1,02	0,88
60	-23,3	214	231	3,62	1,08	0,93
60	-20	260	255	3,73	1,19	1,02
60	-15	340	295	3,95	1,34	1,15
60	-10	433	338	4,26	1,49	1,28

65	-35	87	156	3,41	0,65	0,56
65	-30	128	187	3,47	0,80	0,69
65	-25	182	221	3,58	0,96	0,83
65	-23,3	204	233	3,63	1,01	0,87
65	-20	249	259	3,75	1,12	0,96
65	-15	329	300	3,99	1,27	1,09
65	-10	421	346	4,31	1,42	1,22

## CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	138	163	3,42	0,85	0,73
40	-30	192	185	3,47	1,04	0,90
40	-25	258	210	3,54	1,23	1,06
40	-23,3	283	220	3,58	1,29	1,11
40	-20	336	240	3,66	1,40	1,21
40	-15	425	272	3,82	1,56	1,35
40	-10	527	309	4,04	1,70	1,47

45	-35	125	162	3,41	0,77	0,67
45	-30	174	185	3,47	0,94	0,81
45	-25	236	212	3,55	1,11	0,96
45	-23,3	259	223	3,59	1,17	1,01
45	-20	309	243	3,68	1,27	1,10
45	-15	394	278	3,85	1,42	1,23
45	-10	491	316	4,09	1,55	1,34

50	-35	111	160	3,41	0,69	0,60
50	-30	156	186	3,47	0,84	0,73
50	-25	213	215	3,56	0,99	0,86
50	-23,3	235	225	3,60	1,05	0,90
50	-20	282	247	3,69	1,14	0,99
50	-15	363	284	3,89	1,28	1,11
50	-10	456	324	4,15	1,41	1,22

55	-35	97	159	3,41	0,61	0,53
55	-30	138	186	3,47	0,74	0,64
55	-25	191	217	3,57	0,88	0,76
55	-23,3	212	228	3,61	0,93	0,80
55	-20	256	251	3,71	1,02	0,88
55	-15	332	289	3,92	1,15	0,99
55	-10	420	331	4,20	1,27	1,10

60	-35	84	158	3,41	0,53	0,46
60	-30	120	186	3,47	0,64	0,56
60	-25	169	219	3,57	0,77	0,67
60	-23,3	188	231	3,62	0,81	0,70
60	-20	229	255	3,73	0,90	0,78
60	-15	301	295	3,95	1,02	0,88
60	-10	385	338	4,26	1,14	0,98

65	-35	70	156	3,41	0,45	0,39
65	-30	102	187	3,47	0,55	0,47
65	-25	146	221	3,58	0,66	0,57
65	-23,3	164	233	3,63	0,70	0,61
65	-20	202	259	3,75	0,78	0,67
65	-15	270	300	3,99	0,90	0,78
65	-10	350	346	4,31	1,01	0,87

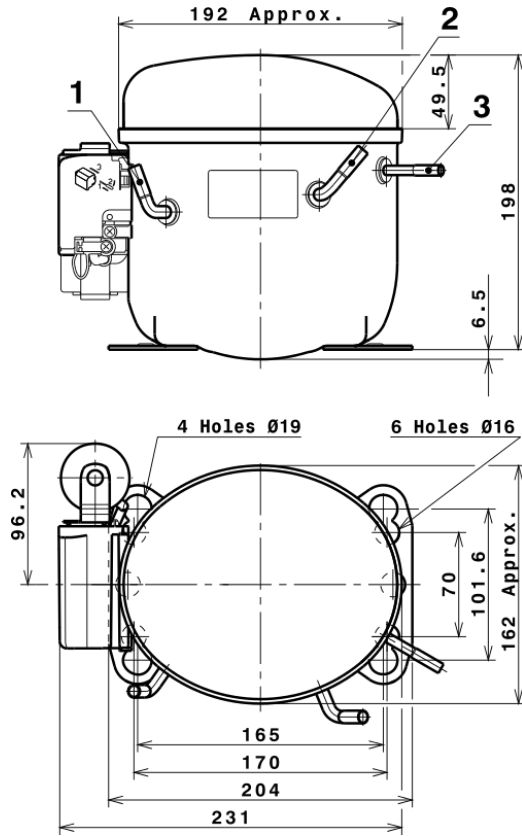
## EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.115,1946487078	314,7085864386	4,1449009851	19,935019781128
2	32,9801946888	6,6058240608	0,0604811283	0,66181352710837
3	-9,0577584352	2,2113604782	0,0155851027	-0,069597440351173
4	0,2324452278	0,0766500007	0,0011569567	0,0062866249705376
5	-0,1804254263	0,0709646068	0,0004604118	-0,0009176730317024

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

### RSIR CONNECTION (PTC) (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 LBP

