

Technical Data Sheet

Compressor model **GL80ADa**
 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 8,10 cm³
 Diameter 24,29 mm
 Stroke 17,47 mm
 Net Weight 9,81 Kg
 Oil type ISO VG 32 ESTER
 Oil charge 345 cm³

MOTOR

Nominal Power 1/5 hp
 Voltage/Frequency 115V 60Hz
 Voltage range 98-132 V
 Type RSIR
 Phase number 1 PH
 Locked Rotor Amps (LRA) 27,30 A
 Max. Cont. Current (MCC) 4,50 A
 Main W. resist. at 25°C 1,78 Ω
 Start W. resist. at 25°C 4,59 Ω

NOMINAL PERFORMANCE

	ASHRAE	CECOMAF
Cooling Capacity	201 kCal/h	171 W
COP	1,13 W/W	0,87 W/W
EER	0,97 kCal/Wh	0,75 kCal/Wh
Input Power	207 W	196 W
Current	2,82 A	2,77 A

APPROVALS



TEST CYCLE CONDITIONS

	ASHRAE LBP (B)	CECOMAF LBP (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

Relay	Option 1			
Reference	PTC K115			
Voltage	100 - 115 V			
Resistance	4,70 Ω			
Protector	Option 1	Option 2	Option 3	
Reference	MRT52RZ	4TM774RFBZZ	T0315	
Current	24,00 A	19,50 A	22,00 A	
Time check	7,5-14 seg	5-15 seg	7,5-14 seg	
Disc temp. (Open/Close)	120,00 / 61,00 °C	130,00 / 61,00 °C	125,00 / 62,00 °C	

ASHRAE

Tc °C	Te °C	Cooling Capacity kCal/h	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	110	144	2,56	0,89	0,76
40	-30	152	165	2,63	1,07	0,92
40	-25	207	190	2,74	1,26	1,09
40	-23,3	228	199	2,78	1,33	1,14
40	-20	273	219	2,88	1,45	1,25
40	-15	350	251	3,07	1,62	1,40
40	-10	440	287	3,32	1,78	1,53

45	-35	103	143	2,56	0,84	0,72
45	-30	145	165	2,64	1,02	0,87
45	-25	198	192	2,75	1,20	1,03
45	-23,3	219	202	2,79	1,26	1,08
45	-20	263	222	2,90	1,38	1,18
45	-15	340	256	3,11	1,54	1,33
45	-10	429	294	3,38	1,70	1,46

50	-35	96	141	2,55	0,79	0,68
50	-30	137	166	2,64	0,96	0,82
50	-25	189	194	2,76	1,13	0,98
50	-23,3	210	204	2,81	1,19	1,03
50	-20	254	226	2,92	1,31	1,12
50	-15	330	262	3,14	1,47	1,26
50	-10	418	301	3,43	1,62	1,39

55	-35	89	140	2,55	0,74	0,64
55	-30	129	166	2,64	0,90	0,78
55	-25	181	196	2,77	1,07	0,92
55	-23,3	201	207	2,82	1,13	0,97
55	-20	244	230	2,94	1,24	1,06
55	-15	320	267	3,18	1,39	1,20
55	-10	407	308	3,49	1,54	1,32

60	-35	82	139	2,55	0,69	0,59
60	-30	121	166	2,64	0,85	0,73
60	-25	172	198	2,78	1,01	0,87
60	-23,3	192	210	2,83	1,07	0,92
60	-20	235	233	2,96	1,17	1,01
60	-15	310	272	3,22	1,32	1,14
60	-10	396	315	3,55	1,46	1,26

65	-35	75	137	2,54	0,64	0,55
65	-30	113	167	2,64	0,79	0,68
65	-25	164	200	2,79	0,95	0,82
65	-23,3	183	212	2,85	1,00	0,86
65	-20	226	237	2,99	1,11	0,95
65	-15	299	278	3,26	1,25	1,08
65	-10	385	322	3,61	1,39	1,20

CECOMAF

Tc °C	Te °C	Cooling Capacity W	Consumption W	Current A	COP W/W	EER kCal/Wh
40	-35	120	144	2,56	0,83	0,72
40	-30	169	165	2,63	1,03	0,89
40	-25	230	190	2,74	1,21	1,05
40	-23,3	253	199	2,78	1,27	1,10
40	-20	302	219	2,88	1,38	1,19
40	-15	385	251	3,07	1,53	1,33
40	-10	479	287	3,32	1,67	1,44

45	-35	108	143	2,56	0,76	0,65
45	-30	154	165	2,64	0,93	0,80
45	-25	210	192	2,75	1,10	0,95
45	-23,3	232	202	2,79	1,15	0,99
45	-20	278	222	2,90	1,25	1,08
45	-15	357	256	3,11	1,39	1,20
45	-10	447	294	3,38	1,52	1,31

50	-35	96	141	2,55	0,68	0,59
50	-30	138	166	2,64	0,83	0,72
50	-25	191	194	2,76	0,98	0,85
50	-23,3	211	204	2,81	1,03	0,89
50	-20	254	226	2,92	1,13	0,97
50	-15	329	262	3,14	1,26	1,09
50	-10	415	301	3,43	1,38	1,19

55	-35	84	140	2,55	0,60	0,52
55	-30	122	166	2,64	0,73	0,63
55	-25	171	196	2,77	0,87	0,75
55	-23,3	190	207	2,82	0,92	0,79
55	-20	231	230	2,94	1,00	0,87
55	-15	302	267	3,18	1,13	0,98
55	-10	384	308	3,49	1,25	1,08

60	-35	72	139	2,55	0,52	0,45
60	-30	106	166	2,64	0,64	0,55
60	-25	151	198	2,78	0,76	0,66
60	-23,3	169	210	2,83	0,80	0,70
60	-20	207	233	2,96	0,89	0,77
60	-15	274	272	3,22	1,01	0,87
60	-10	352	315	3,55	1,12	0,97

65	-35	60	137	2,54	0,44	0,38
65	-30	90	167	2,64	0,54	0,47
65	-25	131	200	2,79	0,66	0,57
65	-23,3	147	212	2,85	0,70	0,60
65	-20	183	237	2,99	0,77	0,67
65	-15	246	278	3,26	0,89	0,77
65	-10	320	322	3,61	0,99	0,86

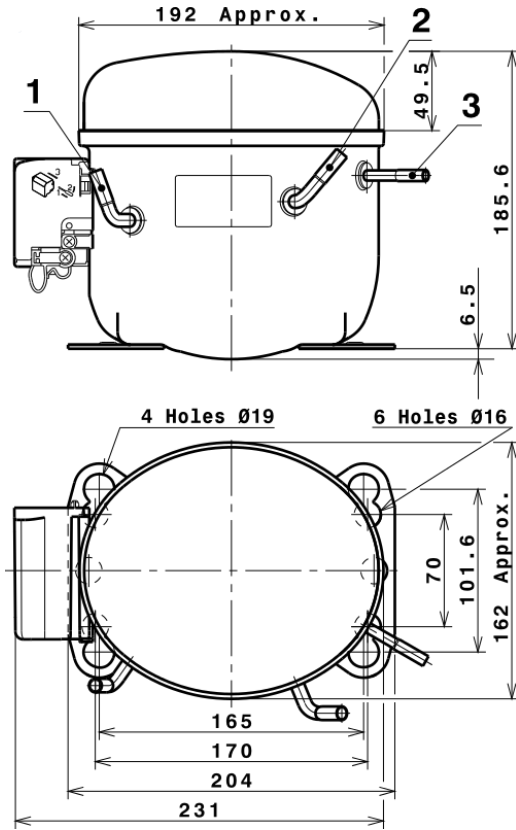
EN12900

X	Cooling Capacity (W)	Consumption (W)	Current (A)	Mass Flow (kg/h)
1	1.014,3669904625	295,0333203544	3,4398781844	18,105387373469
2	30,4685780023	6,6256806291	0,0642282734	0,61111494189387
3	-8,1437300950	2,1157968340	0,0165862309	-0,060346121752172
4	0,2165780396	0,0774350552	0,0011546300	0,0058537690299569
5	-0,1644278774	0,0682342170	0,0004983934	-0,00078720822624885

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

