

Type: Hermetic piston compressors**Producer: ACC****Series: HMBP**

Model: GL90AN

General data

Refrigerant:	R134a
Discharge element:	C
Cooling:	S
Maximum ambient temperature [°C]:	43

Compressor's data

Cylinder capacity [cm ³]:	9,1
Displacement [m ³ /h]:	1,6
Weight [kg]:	10,8
Oil charge [cm ³]:	445
Oil type:	ISO VG 19 ESTER

Engine's data

Engine type:	RSIR
Power [KM]:	1/4
Starting element:	LST
Power supply:	220V 50Hz
Voltage range:	170-242
Locked rotor current [A]:	19,3
Running winding resistance (25°C) [Ω]:	5,3
Starting winding resistance (25°C) [Ω]:	8,51

Electrical data

Relays:	3003
Shielding element:	
Starting capacitor volume [μF]:	

Connections

	<u>millimeters</u>	<u>inches</u>
Suction tube:	6,5	
Service tube:	6,5	
Discharge tube:	4,9	

R134a

Cooling capacity [W]

t_c \ t_e	-35	-30	-25	-20	-15	-10
40	120	163	218	285	363	453
45	108	148	200	263	338	424
50	97	133	181	241	312	395
55	85	118	163	219	287	366
60	74	103	144	197	261	337

Power input [W]

t_c \ t_e	-35	-30	-25	-20	-15	-10
40	149	168	188	210	234	259
45	147	168	190	214	239	266
50	145	167	191	217	244	273
55	143	167	193	220	249	280
60	141	167	194	224	255	287

Current [A]

t_c \ t_e	-35	-30	-25	-20	-15	-10
40	1.77	1.80	1.84	1.90	1.96	2.04
45	1.77	1.80	1.85	1.91	1.97	2.05
50	1.77	1.81	1.85	1.91	1.98	2.07
55	1.77	1.81	1.86	1.92	2.00	2.08
60	1.77	1.81	1.87	1.93	2.01	2.09

Mass flow [kg/s]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	3.58	5.20	7.01	9.02	11.22	13.62
45	3.23	4.82	6.60	8.57	10.74	13.10
50	2.88	4.43	6.18	8.12	10.26	12.59
55	2.54	4.05	5.77	7.67	9.78	12.07
60	2.19	3.67	5.35	7.22	9.29	11.56

C.O.P. [W/W]

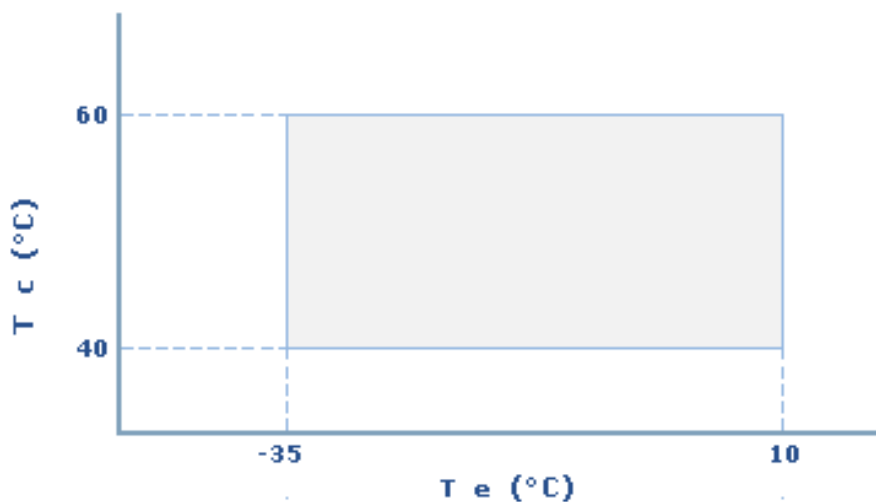
$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	0.80	0.97	1.16	1.35	1.55	1.75
45	0.74	0.88	1.05	1.23	1.41	1.59
50	0.67	0.80	0.95	1.11	1.28	1.45
55	0.60	0.71	0.84	0.99	1.15	1.31
60	0.52	0.62	0.74	0.88	1.03	1.17

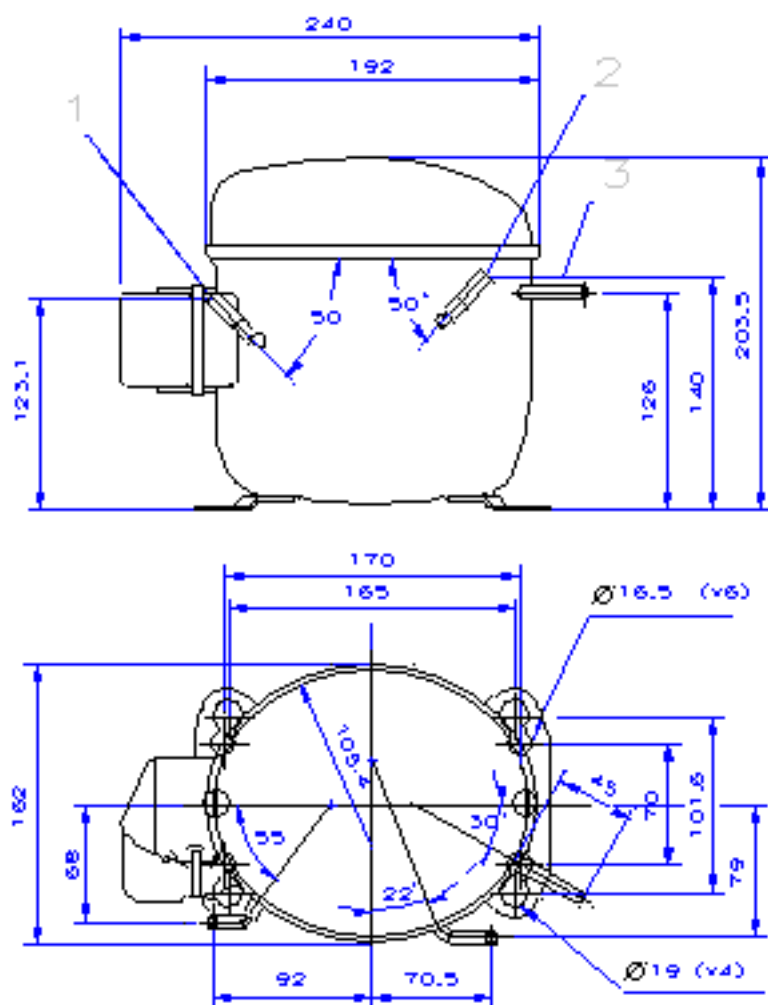
Operating conditions: ASHRAE

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Application range









RSIR

