

Type: Hermetic piston compressors

Producer: ACC

Series: HMBP

Model: GD40AA

General data

Refrigerant:	R134a
Discharge element:	C
Cooling:	S
Maximum ambient temperature [$^{\circ}\text{C}$]:	43

Compressor's data

Cylinder capacity [cm^3]:	4
Displacement [m^3/h]:	0,7
Weight [kg]:	6,7
Oil charge [cm^3]:	200
Oil type:	ISO VG 19 ESTER

Engine's data

Engine type:	RSIR
Power [KM]:	1/10
Starting element:	LST
Power supply:	220V 50Hz
Voltage range:	187-264
Locked rotor current [A]:	8,5
Running winding resistance (25 $^{\circ}\text{C}$) [Ω]:	23,96
Starting winding resistance (25 $^{\circ}\text{C}$) [Ω]:	20,19

Electrical data

Relays:	3003
Shielding element:	T0366, AE47FU
Starting capacitor volume [μF]:	

Connections

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

R134a

Cooling capacity [W]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	52	74	100	130	164	202
45	46	66	90	118	150	187
50	40	58	80	106	136	171
55	34	50	70	94	122	155
60	28	42	60	82	108	139

Power input [W]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	70	78	88	99	112	127
45	68	78	89	101	115	131
50	67	77	89	103	119	136
55	65	77	90	105	122	140
60	63	76	91	107	125	144

Current [A]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	0.55	0.59	0.63	0.67	0.71	0.76
45	0.55	0.59	0.63	0.68	0.72	0.77
50	0.55	0.59	0.64	0.69	0.73	0.79
55	0.55	0.60	0.64	0.69	0.75	0.80
60	0.55	0.60	0.65	0.70	0.76	0.81

Mass flow [kg/s]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	1.62	1.98	2.49	3.14	3.94	4.88
45	1.53	1.88	2.37	3.00	3.78	4.71
50	1.44	1.77	2.24	2.86	3.63	4.54
55	1.35	1.66	2.12	2.72	3.47	4.36
60	1.26	1.55	2.00	2.58	3.32	4.19

C.O.P. [W/W]

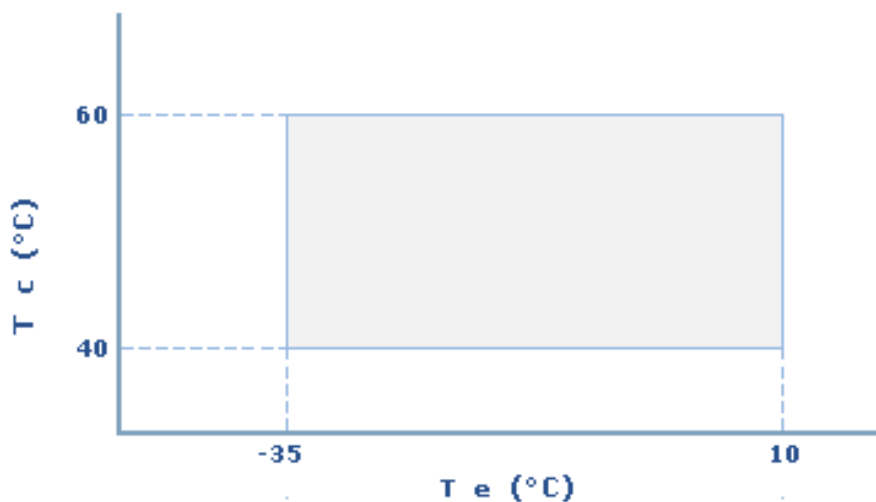
$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	0.75	0.95	1.14	1.31	1.46	1.59
45	0.68	0.85	1.01	1.16	1.30	1.42
50	0.60	0.75	0.89	1.03	1.15	1.26
55	0.52	0.65	0.77	0.89	1.00	1.10
60	0.44	0.55	0.66	0.76	0.87	0.96

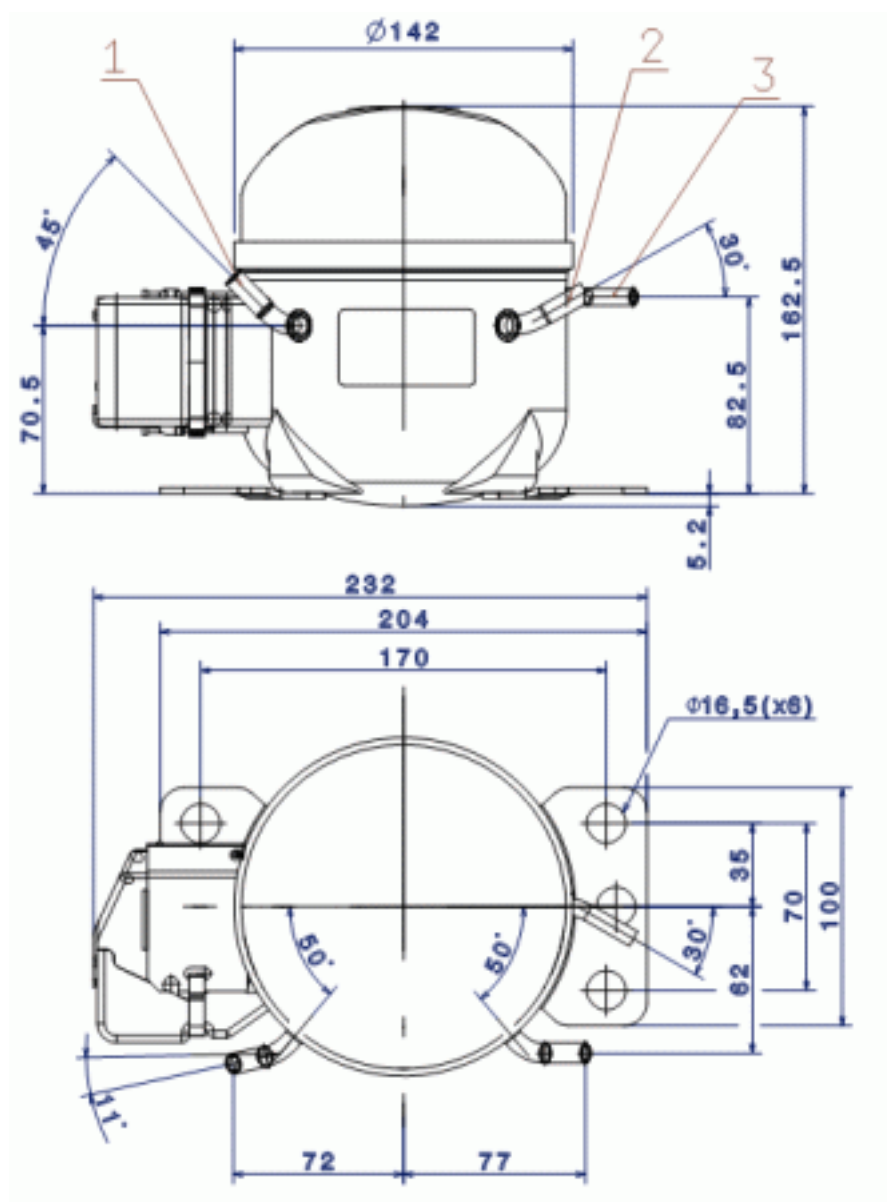
Operating conditions: ASHRAE

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Application range









RSIR

