

Type: Hermetic piston compressors

Producer: ACC

Series: HMBP

Model: GD36AA

General data

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

Compressor's data

Cylinder capacity [cm^3]:	3,6
Displacement [m^3/h]:	0,6
Weight [kg]:	5,9
Oil charge [cm^3]:	200
Oil type:	ISO VG 15 ESTER

Engine's data

Engine type:	RSIR
Power [KM]:	1/12
Starting element:	LST
Power supply:	220V 50Hz
Voltage range:	187-264
Locked rotor current [A]:	8
Running winding resistance (25°C) [Ω]:	27,53
Starting winding resistance (25°C) [Ω]:	24,88

Electrical data

Relays:	3003
Shielding element:	T0321
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	44	64	87	114	145	179
45	39	57	79	104	132	164
50	33	50	70	93	120	150
55	28	43	61	83	107	136
60	23	36	52	72	95	122

Power input [W]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	62	70	79	89	100	113
45	61	69	79	91	103	117
50	59	69	80	92	106	120
55	58	69	81	94	108	124
60	57	68	81	96	111	128

Current [A]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	0.50	0.52	0.55	0.58	0.62	0.66
45	0.50	0.53	0.56	0.59	0.63	0.67
50	0.50	0.53	0.56	0.60	0.64	0.69
55	0.50	0.53	0.57	0.61	0.65	0.70
60	0.50	0.53	0.57	0.61	0.66	0.71

Mass flow [kg/s]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	0.90	1.29	1.77	2.34	2.99	3.73
45	0.82	1.20	1.67	2.22	2.85	3.58
50	0.75	1.11	1.56	2.10	2.72	3.43
55	0.67	1.02	1.46	1.98	2.58	3.27
60	0.60	0.93	1.35	1.86	2.45	3.12

C.O.P. [W/W]

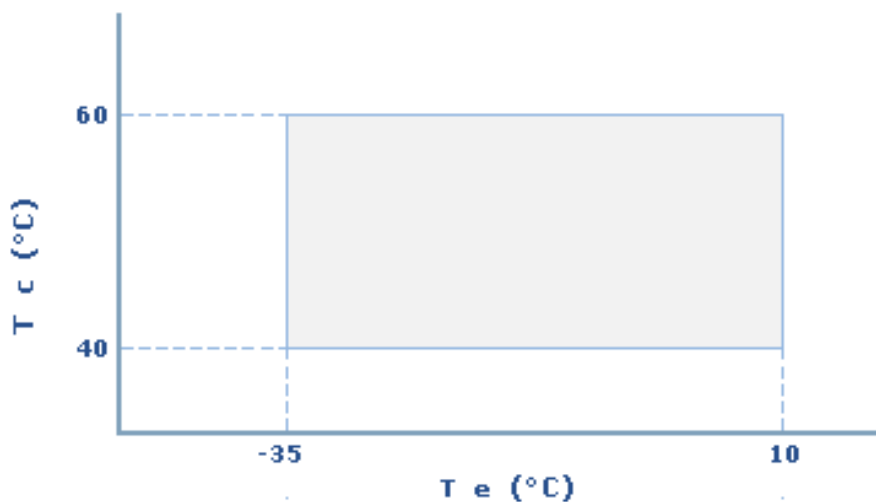
$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	0.70	0.91	1.11	1.29	1.44	1.58
45	0.63	0.82	0.99	1.15	1.28	1.41
50	0.56	0.72	0.87	1.01	1.13	1.25
55	0.49	0.63	0.76	0.88	0.99	1.10
60	0.41	0.53	0.64	0.75	0.86	0.95

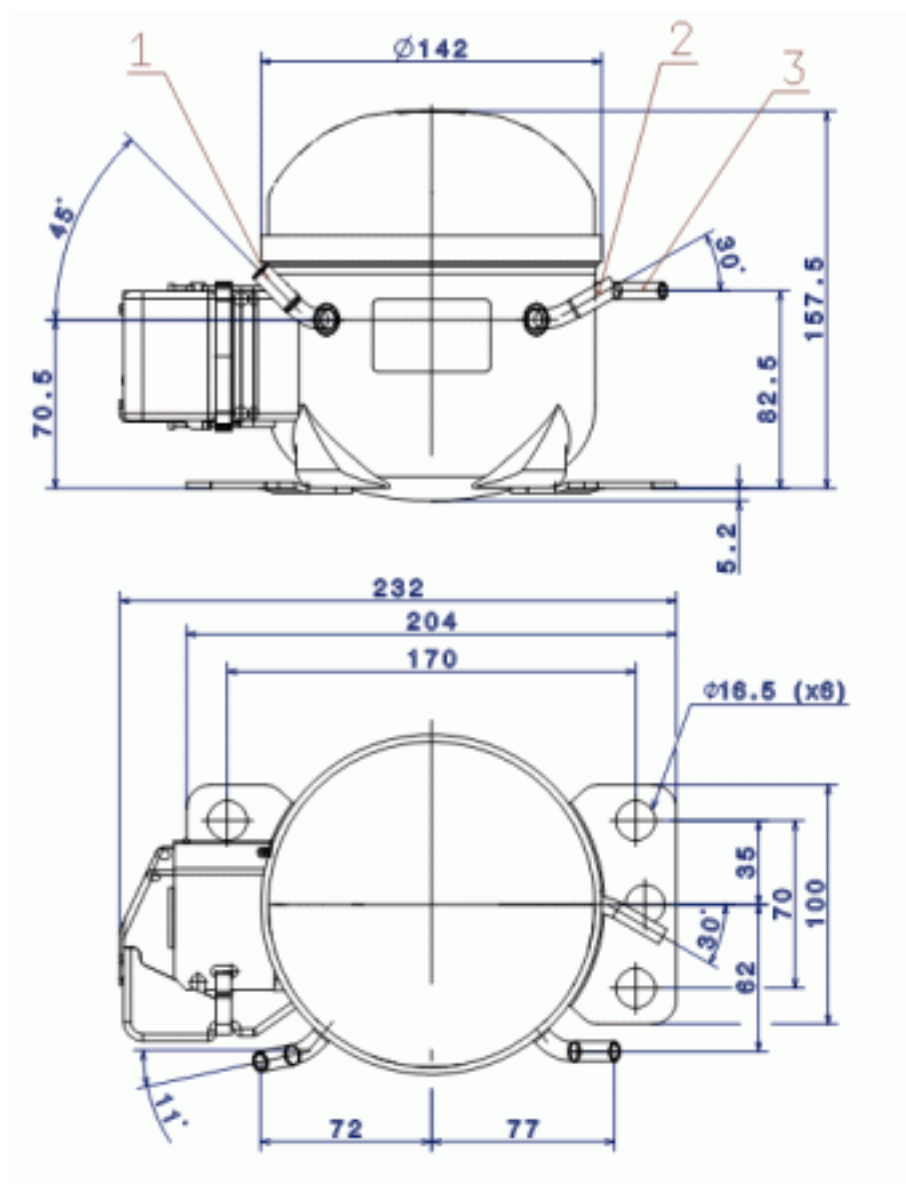
Operating conditions: ASHRAE

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Application range









R S I R

