

Type: Hermetic piston compressors

Producer: ACC

Series: HMBP

Model: P12FW

General data

Refrigerant:	R12
Discharge element:	C-V
Cooling:	F
Maximum ambient temperature [$^{\circ}\text{C}$]:	43

Compressor's data

Cylinder capacity [cm^3]:	12
Displacement [m^3/h]:	2,1
Weight [kg]:	11,5
Oil charge [cm^3]:	530
Oil type:	ISO VG 46 MINERAL

Engine's data

Engine type:	CSIR
Power [KM]:	1/3
Starting element:	HST
Power supply:	220V 50Hz
Voltage range:	198-264
Locked rotor current [A]:	13,8
Running winding resistance (25°C) [Ω]:	6,88
Starting winding resistance (25°C) [Ω]:	26,97

Electrical data

Relays:	9660 A 145, MTRP 46
Shielding element:	MRT38AMK, T0168
Starting capacitor volume [μF]:	

Connections

	<u>millimeters</u>	<u>inches</u>
Suction/service tube:	8,1	
Service/suction tube:	8,2	
Discharge tube:	6,5	

R12**Cooling capacity [W]**

t_c \ t_e	-35	-30	-25	-20	-15	-10
40	135	199	272	352	440	536
45	116	177	245	321	406	498
50	97	154	218	291	371	459
55	79	131	192	260	337	421
60	60	109	165	230	302	383

Power input [W]

t_c \ t_e	-35	-30	-25	-20	-15	-10
40	234	259	285	310	335	360
45	220	250	279	309	338	368
50	206	240	274	308	342	376
55	192	230	269	307	346	384
60	178	221	264	307	349	392

Current [A]

t_c \ t_e	-35	-30	-25	-20	-15	-10
40	1.75	1.81	1.89	2.00	2.12	2.28
45	1.78	1.84	1.92	2.02	2.15	2.30
50	1.80	1.86	1.94	2.05	2.17	2.33
55	1.83	1.89	1.97	2.07	2.20	2.35
60	1.86	1.91	1.99	2.10	2.22	2.37

Mass flow [kg/s]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	1.50	1.72	2.09	2.61	3.27	4.08
45	1.39	1.61	1.97	2.47	3.13	3.93
50	1.29	1.49	1.84	2.34	2.99	3.78
55	1.18	1.38	1.72	2.21	2.84	3.63
60	1.07	1.26	1.59	2.07	2.70	3.48

C.O.P. [W/W]

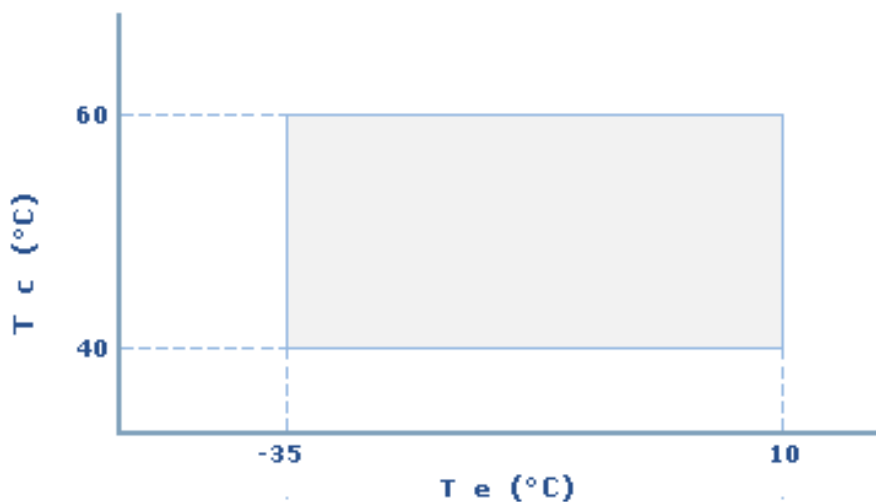
$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	0.58	0.77	0.95	1.14	1.31	1.49
45	0.53	0.71	0.88	1.04	1.20	1.35
50	0.47	0.64	0.80	0.94	1.08	1.22
55	0.41	0.57	0.71	0.85	0.97	1.10
60	0.34	0.49	0.63	0.75	0.87	0.98

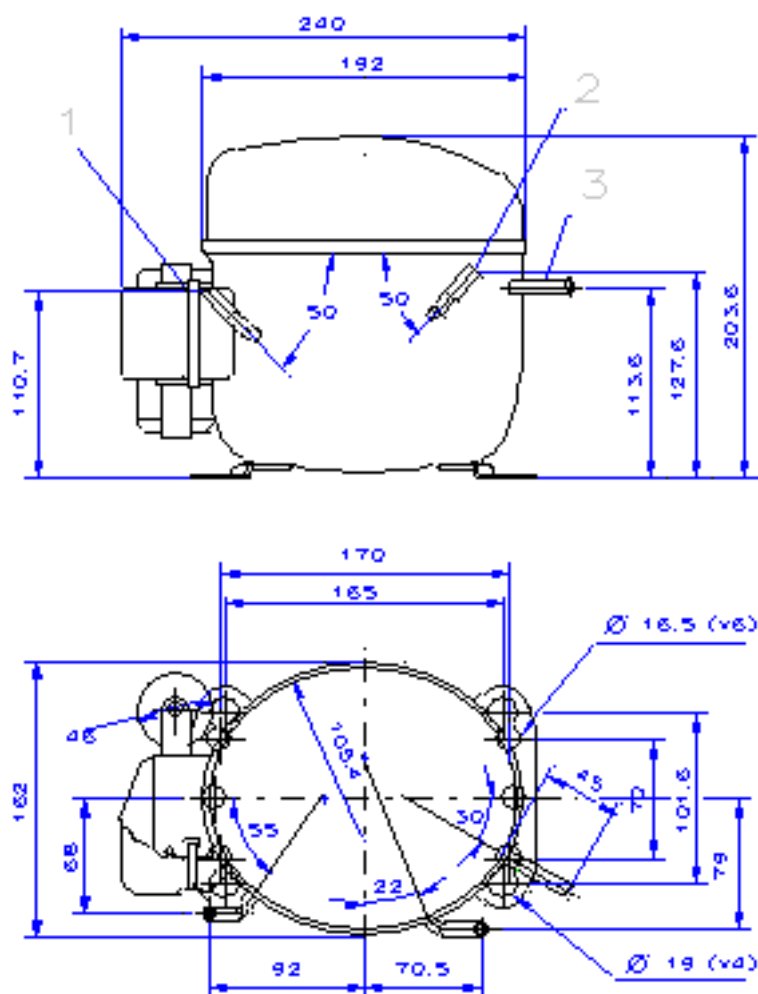
Operating conditions: ASHRAE

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Application range









CSIR

