

Type: Hermetic piston compressors

Producer: ACC

Series: HMBP

Model: ML40TB

General data

Refrigerant:	R404A
Discharge element:	C-V
Cooling:	F
Maximum ambient temperature [$^{\circ}\text{C}$]:	43

Compressor's data

Cylinder capacity [cm^3]:	4
Displacement [m^3/h]:	0,7
Weight [kg]:	10
Oil charge [cm^3]:	300
Oil type:	ISO VG 46 ESTER

Engine's data

Engine type:	CSIR
Power [KM]:	1/6
Starting element:	HST
Power supply:	220V 50Hz
Voltage range:	187-264
Locked rotor current [A]:	8,5
Running winding resistance (25°C) [Ω]:	12,13
Starting winding resistance (25°C) [Ω]:	48,84

Electrical data

Relays:	9660 A 118, MTRP 33
Shielding element:	MRP304AMN, T0071
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	

R404A/R507

Cooling capacity [W]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
40	186	242	307	380	461	550	647	753
45	168	218	276	342	416	499	589	688
50	151	194	245	304	372	447	531	623
55	-	-	214	266	327	396	473	558
60	-	-	-	228	282	344	415	493

Power input [W]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
40	181	198	215	231	248	265	282	298
45	184	203	222	241	260	279	298	317
50	187	208	229	250	272	293	314	335
55	-	-	237	260	283	307	330	353
60	-	-	-	270	295	320	346	371

Current [A]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
40	1.38	1.43	1.48	1.53	1.59	1.65	1.72	1.79
45	1.38	1.43	1.49	1.55	1.62	1.69	1.77	1.85
50	1.38	1.44	1.51	1.58	1.65	1.73	1.81	1.90
55	-	-	1.52	1.60	1.68	1.77	1.86	1.95
60	-	-	-	1.62	1.71	1.81	1.91	2.01

Mass flow [kg/s]

$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
40	11.70	17.73	25.01	33.54	43.31	54.34	66.61	80.13
45	10.24	16.12	23.25	31.63	41.25	52.13	64.25	77.62
50	8.78	14.51	21.49	29.72	39.19	49.92	61.89	75.11
55	-	-	19.73	27.81	37.13	47.71	59.53	72.60
60	-	-	-	25.90	35.07	45.50	57.17	70.09

C.O.P. [W/W]

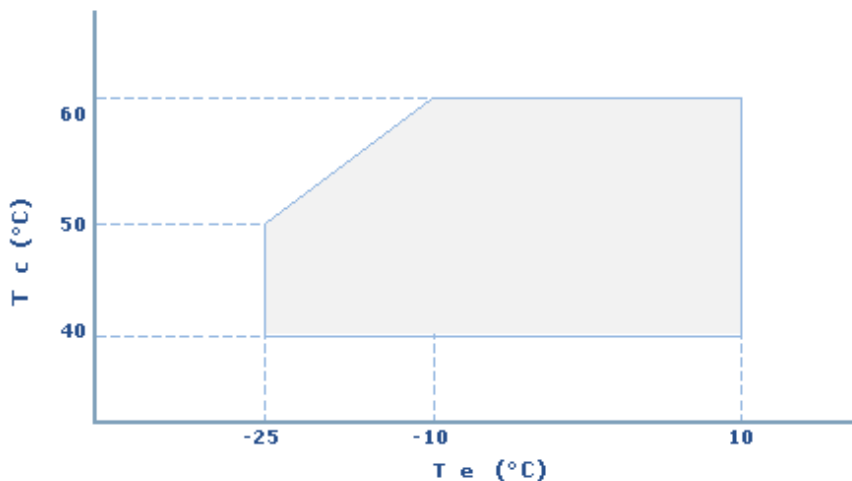
$t_c \setminus t_e$	-25	-20	-15	-10	-5	0	5	10
40	1.03	1.22	1.43	1.64	1.86	2.08	2.30	2.52
45	0.91	1.07	1.24	1.42	1.60	1.79	1.98	2.17
50	0.81	0.93	1.07	1.21	1.37	1.53	1.69	1.86
55	-	-	0.90	1.02	1.15	1.29	1.43	1.58
60	-	-	-	0.85	0.96	1.07	1.20	1.33

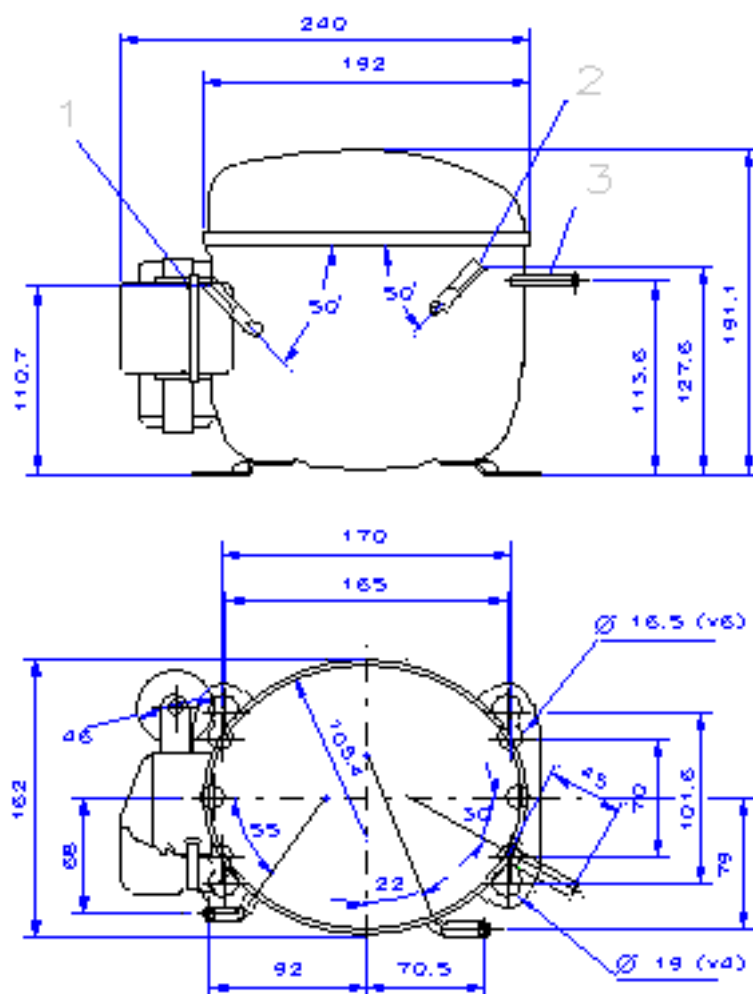
Operating conditions: ASHRAE

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Application range









CSIR

