

Type: Hermetic piston compressors

Producer: ACC

Series: HMBP

Model: L45AV

General data

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

Compressor's data

Cylinder capacity [cm^3]:	4,5
Displacement [m^3/h]:	0,8
Weight [kg]:	8,4
Oil charge [cm^3]:	300
Oil type:	ISO VG 46 MINERAL

Engine's data

Engine type:	RSIR
Power [KM]:	1/8
Starting element:	LST
Power supply:	200V 50Hz
Voltage range:	180-242
Locked rotor current [A]:	8,5
Running winding resistance (25°C) [Ω]:	16,62
Starting winding resistance (25°C) [Ω]:	40,48

Electrical data

Relays:	9660 B 108, MTRP 26
Shielding element:	MRP346HV, T0067
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	

R12

Cooling capacity [W]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	58	81	108	140	175	215
45	52	73	99	128	162	200
50	45	65	89	117	149	185
55	39	57	79	105	136	170
60	32	48	69	93	122	155

Power input [W]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	85	93	103	114	126	139
45	83	93	104	116	129	143
50	82	93	105	118	132	147
55	80	92	105	119	135	151
60	78	92	106	121	138	155

Current [A]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	0.76	0.79	0.82	0.86	0.90	0.94
45	0.76	0.79	0.83	0.87	0.91	0.96
50	0.76	0.80	0.84	0.88	0.93	0.98
55	0.76	0.80	0.84	0.89	0.94	1.00
60	0.76	0.80	0.85	0.90	0.96	1.02

Mass flow [kg/s]

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	-	-	-	-	-	-
45	-	-	-	-	-	-
50	-	-	-	-	-	-
55	-	-	-	-	-	-
60	-	-	-	-	-	-

C.O.P. [W/W]

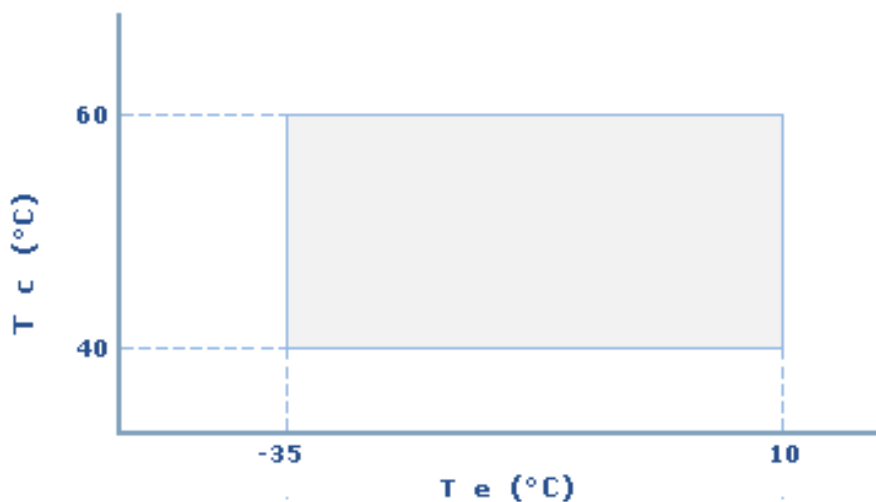
$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
40	0.69	0.87	1.05	1.23	1.39	1.55
45	0.62	0.79	0.95	1.11	1.26	1.40
50	0.56	0.70	0.85	0.99	1.13	1.26
55	0.49	0.62	0.75	0.88	1.01	1.13
60	0.41	0.53	0.65	0.77	0.89	1.00

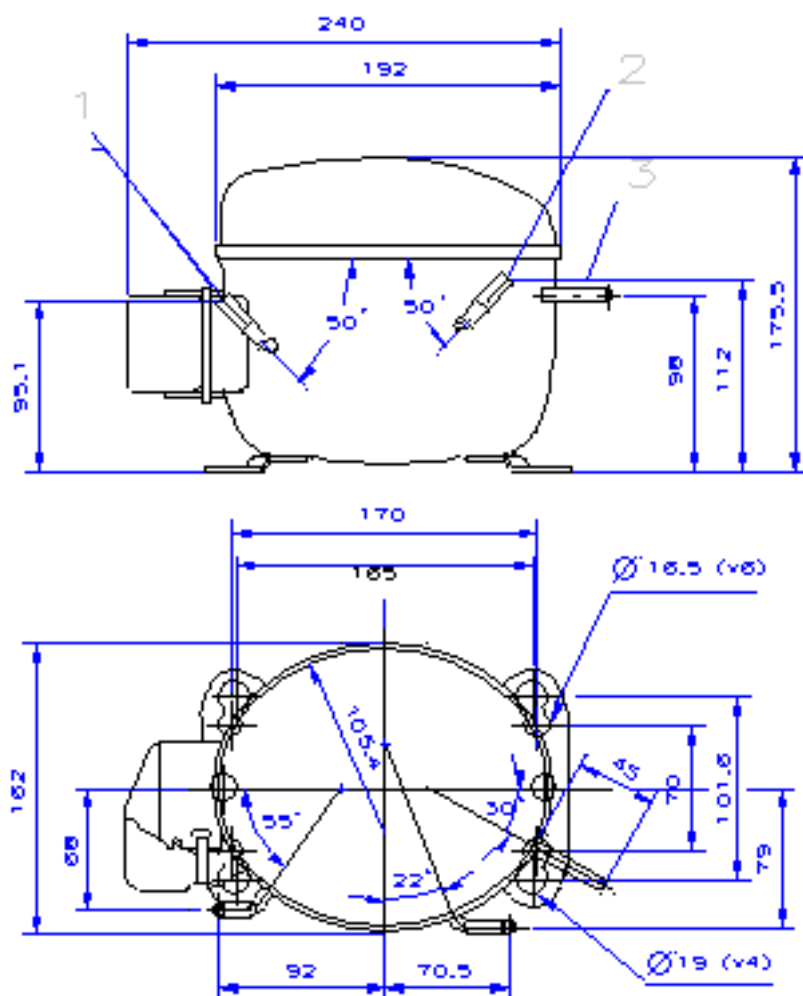
Operating conditions: ASHRAE

t_c - Condensing temperature [°C]

t_e - Evaporating temperature [°C]

Application range









RSIR

