

**Type: Hermetic piston compressors**  
**Producer: ACC**  
**Series: HMBP**

## **Model: L88AV**

### **General data**

Refrigerant:	R12
Discharge element:	C
Cooling:	S
Maximum ambient temperature [°C]:	43

### **Compressor's data**

Cylinder capacity [cm <sup>3</sup> ]:	8,9
Displacement [m <sup>3</sup> /h]:	1,5
Weight [kg]:	10,8
Oil charge [cm <sup>3</sup> ]:	600
Oil type:	ISO VG 46 MINERAL

### **Engine's data**

Engine type:	RSIR
Power [KM]:	1/4
Starting element:	LST
Power supply:	220V 50Hz
Voltage range:	198-264
Locked rotor current [A]:	10,9
Running winding resistance (25°C) [Ω]:	10,09
Starting winding resistance (25°C) [Ω]:	22,64

### **Electrical data**

Relays:	3003
Shielding element:	T0082
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]**

<b>t<sub>c</sub> \ t<sub>e</sub></b>	<b>-35</b>	<b>-30</b>	<b>-25</b>	<b>-20</b>	<b>-15</b>	<b>-10</b>
<b>40</b>	105	153	207	267	333	405
<b>45</b>	93	138	188	245	307	375
<b>50</b>	81	122	169	222	281	346
<b>55</b>	69	106	150	200	255	316
<b>60</b>	57	91	131	177	229	287

**Power input [W]**

<b>t<sub>c</sub> \ t<sub>e</sub></b>	<b>-35</b>	<b>-30</b>	<b>-25</b>	<b>-20</b>	<b>-15</b>	<b>-10</b>
<b>40</b>	125	151	174	196	215	232
<b>45</b>	120	149	175	199	221	241
<b>50</b>	115	146	176	203	227	250
<b>55</b>	110	144	176	206	234	259
<b>60</b>	105	142	177	209	240	268

**Current [A]**

<b>t<sub>c</sub> \ t<sub>e</sub></b>	<b>-35</b>	<b>-30</b>	<b>-25</b>	<b>-20</b>	<b>-15</b>	<b>-10</b>
<b>40</b>	0.92	0.98	1.05	1.14	1.23	1.33
<b>45</b>	0.91	0.98	1.06	1.15	1.25	1.37
<b>50</b>	0.89	0.97	1.06	1.16	1.28	1.41
<b>55</b>	0.88	0.97	1.07	1.18	1.30	1.44
<b>60</b>	0.87	0.96	1.07	1.19	1.33	1.48

**Mass flow [kg/s]**

$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
<b>40</b>	1.92	2.61	3.48	4.52	5.74	7.14
<b>45</b>	1.80	2.48	3.34	4.37	5.58	6.96
<b>50</b>	1.69	2.35	3.20	4.22	5.42	6.79
<b>55</b>	1.57	2.23	3.06	4.07	5.25	6.62
<b>60</b>	1.45	2.10	2.92	3.92	5.09	6.44

**C.O.P. [W/W]**

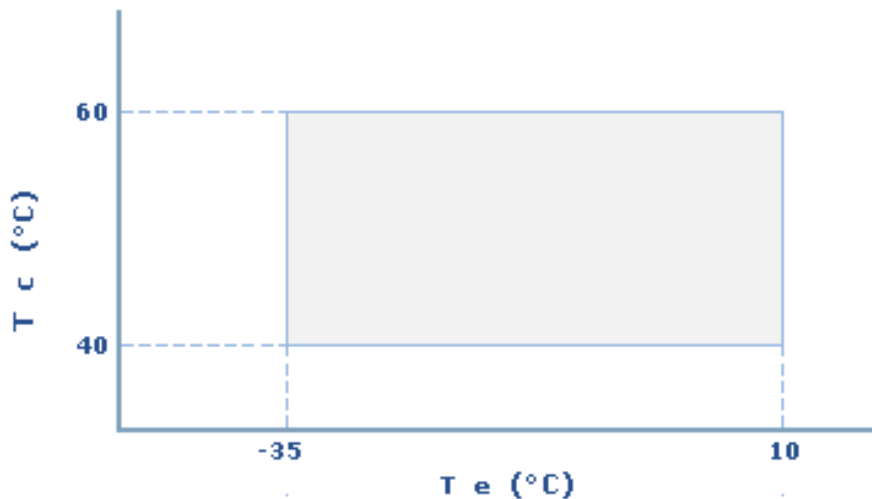
$t_c \setminus t_e$	-35	-30	-25	-20	-15	-10
<b>40</b>	0.84	1.01	1.19	1.36	1.55	1.75
<b>45</b>	0.77	0.93	1.07	1.23	1.39	1.56
<b>50</b>	0.70	0.83	0.96	1.10	1.24	1.38
<b>55</b>	0.63	0.74	0.85	0.97	1.09	1.22
<b>60</b>	0.54	0.64	0.74	0.85	0.96	1.07

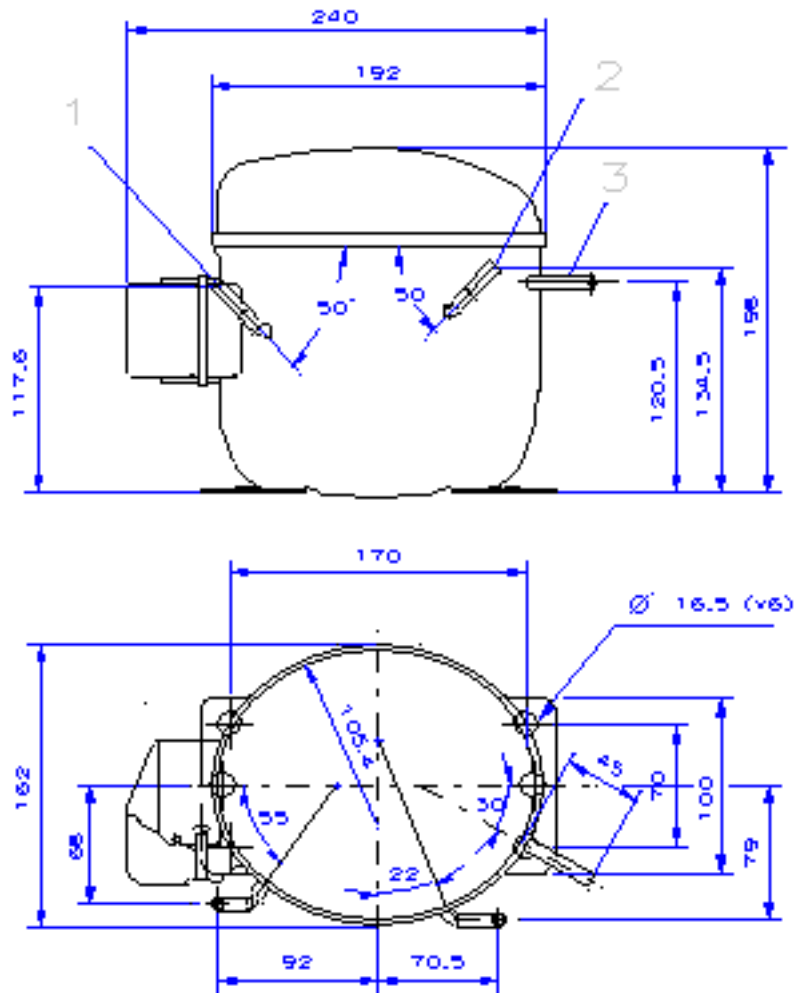
Operating conditions: ASHRAE

$t_c$  - Condensing temperature [°C]

$t_e$  - Evaporating temperature [°C]

**Application range**









# R S I R

