

Compressor

HBP R-290

Voltage Code : FZ

Refrigerant	Frequency	Nominal Cooling Capacity (*)		Sound Power ISO3745 / ISO 3743-1
		Watts	BTU/h	
R-290	50HZ	801	2731	

(\*) Operating conditions ARI 520-90 : Dew / T°Cond. 120°F / T°Evap 20°F / T°Evaporating 20°F / T°Superheat 32°F



### General

Compressor Type	Reciprocating
Displacement (cc)	10.3
Horse Power	1/3
Compressor Cooling	Fan
Evaporating Temp. Range	-15°C to 15°C (5°F to 59°F)
Expansion Device	Capil. Tube/Expans. Valve
Oil Type	P.O.E 32
Oil Charge (cc)	366

### Electrical

Motor Type	CSIR
Main Winding (Ohm)	6.7
Start Winding (Ohm)	19.31
Current RLA 50Hz (A)	3.14
Current LRA (A)	14.5
Start Capacitor	64-77 µF / 330 V
Overload	MRA58181-5587
- Time Check	6.5s - 15s / 11.5 A
- Open Temp / Close Temp	130 °C / 52 °C
Current Relay	9660D-3018-155
- Pick Up / Drop Out	8.5 A / 7.15 A

### Dimensions

Weight	10.7 kg (23 lb)
Length	251 mm (9.9 in)
Width	161 mm (6.3 in)
Height	207 mm (8.2 in)
Ø Suction Tube	3/8 in (9.52mm)
Ø Discharge Tube	1/4 in (6.35mm)

### Certificates



Note : Tecumseh reserves the right to change information contained in this document without notification.

Performances are given at rating conditions ARI 520-90  
 Conditions DEW

Evaporating : 20 °F  
 Superheat : 32 °F

## 50HZ R-290

Condensing	Evaporating (°F)	-15	-5	5	15	25	35	45	55
<b>90</b>	Refrig. Capacity (Btu/h)	1537	1892	2429	3128	3968	4928	5988	7128
	Power Input (W)	276	303	324	342	356	368	378	388
	Amps (A)	2.16	2.24	2.3	2.35	2.4	2.44	2.49	2.52
<b>105</b>	Refrig. Capacity (Btu/h)	1456	1722	2161	2755	3481	4319	5249	6251
	Power Input (W)	283	322	354	380	401	418	432	443
	Amps (A)	2.16	2.28	2.38	2.47	2.54	2.6	2.65	2.7
<b>120</b>	Refrig. Capacity (Btu/h)		1582	1935	2433	3057	3785	4596	5470
	Power Input (W)		331	377	415	446	472	492	508
	Amps (A)		2.29	2.44	2.58	2.69	2.79	2.87	2.94
<b>140</b>	Refrig. Capacity (Btu/h)			1610	2000	2504	3101	3771	4493
	Power Input (W)			395	454	504	546	581	609
	Amps (A)			2.48	2.71	2.9	3.07	3.21	3.33

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