

## Model: AHC2490ZFZ (FH2511Z)

### Product Description

**Type:** Reciprocating  
**Application:** LBP - Low Back Pressure  
**Refrigerant:** R-404A  
**Voltage/Frequency:** 220-240V ~ 50Hz  
**Version:** N/A



### Product Specifications

#### Performance

Condition	Test Voltage	Refrigeration Capacity			Input Power	Efficiency			EVAP TEMP	COND TEMP	AMBIENT TEMP	RETURN GAS	LIQUID TEMP
		Btu/h	kcal/h	W	W	Btu/Wh	kcal/Wh	W/W					
EN12900	230V ~ 50HZ	4003	1009	1173	1534	2.61	.66	.76	-35°C (-31°F)	40°C (104°F)	32°C (90°F)	-25°C (-13°F)	40°C (104°F)

#### General

**Evaporating Temp. Range:** -40°C to -12.2°C (-40°F to 10°F)  
**Motor Torque:** High Start Torque (HST)  
**Compressor Cooling:** Fan

#### Mechanical

**Weight:** 38  
**Weight Unit of Measure:** KG  
**Displacement (cc):** 74.25  
**Oil Type:** Polyolester  
**Viscosity (cSt):** 32  
**Oil Charge (cc):** 1625

#### Electrical

**Voltage Range (50 Hz):** 198-253  
**Voltage Range (60 Hz):** N/A  
**Locked Rotor Amps (LRA):** 83  
**Rated Load Amps (RLA 50 Hz):** 11.2  
**Rated Load Amps (RLA 60 Hz):** 0  
**Max. Continuous Current (MCC in Amps):** 24  
**Motor Resistance (Ohm) - Main:** .7  
**Motor Resistance (Ohm) - Start:** 3.3  
**Motor Type:** CSR  
**Overload Type:** N/A  
**Relay Type:** N/A

#### Agency Approval

CCC Listed, CE Listed, GOST RUSSIA Listed, IRAM Listed, NF Listed, VDE Listed



# Tecumseh

## Performance Data Sheet

### AHC2490ZFZ

### General Information

<b>Model</b>	AHC2490ZFZ	<b>Refrigerant</b>	R-404A
<b>Test Condition</b>	EN12900	<b>Performance Test Voltage</b>	230V ~ 50HZ
<b>Return Gas</b>	20°C (68°F) RETURN GAS	<b>Motor Type</b>	CSR

### Performance Information

Evap Temp (°C)	Condensing Temperature (°C)				
		30	40	50	60
-40	Watts (Capacity)	1390	962	534	129
	Watts (Power)	1330	1240	1080	867
	Amps	8.23	8.03	7.58	6.90
-35	Watts (Capacity)	1990	1510	1020	538
	Watts (Power)	1580	1530	1420	1260
	Amps	8.95	8.90	8.61	8.07
-30	Watts (Capacity)	2700	2150	1580	1010
	Watts (Power)	1830	1830	1770	1650
	Amps	9.81	9.91	9.76	9.37
-25	Watts (Capacity)	3540	2900	2230	1550
	Watts (Power)	2080	2140	2130	2070
	Amps	10.8	11.0	11.0	10.8
-23.3	Watts (Capacity)	3860	3180	2470	1750
	Watts (Power)	2170	2240	2260	2210
	Amps	11.2	11.5	11.5	11.3
-20	Watts (Capacity)	4520	3770	2980	2180
	Watts (Power)	2340	2450	2500	2490
	Amps	11.9	12.3	12.5	12.4
-15	Watts (Capacity)	5640	4760	3840	2900
	Watts (Power)	2600	2770	2880	2930
	Amps	13.2	13.7	14.0	14.1
-10	Watts (Capacity)	6920	5900	4830	3730
	Watts (Power)	2860	3100	3270	3390
	Amps	14.6	15.3	15.7	15.9

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.340060E+04	1.856340E+03	1.331220E+01	
C2	4.475650E+02	1.231280E+01	2.548920E-01	
C3	-9.115610E+01	6.308490E+01	1.841280E-01	
C4	4.967970E+00	-1.526290E-02	2.660970E-03	
C5	-3.087170E+00	1.498700E+00	2.983290E-03	
C6	-8.448690E-01	-3.918780E-01	-1.212130E-03	
C7	1.635290E-02	2.284930E-03	0.000000E+00	
C8	-3.413020E-02	7.823590E-03	0.000000E+00	
C9	-8.471720E-03	-6.262190E-05	0.000000E+00	
C10	4.104790E-03	6.316320E-04	0.000000E+00	

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature