



Model: AHC4524EHZ (FHP4524F)

Product Description

Type: Reciprocating
Application: HBP - High Back Pressure
Refrigerant: R-22
Voltage/Frequency: 208-220V ~ 60Hz
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	220V ~ 60HZ	22932	5779	6719	2426	9.45	2.38	2.77	5°C (41°F)	45°C (113°F)	32°C (90°F)	15°C (59°F)	45°C (113°F)

General

Evaporating Temp. Range: -15°C to 15°C (5°F to 59°F)
Motor Torque: N/A
Compressor Cooling: N/A

Mechanical

Weight: 35
Weight Unit of Measure: KG
Displacement (cc): 43.5
Oil Type: N/A
Viscosity (cSt): N/A
Oil Charge (cc): 0

Electrical

Voltage Range (50 Hz): N/A
Voltage Range (60 Hz): N/A
Locked Rotor Amps (LRA): 0
Rated Load Amps (RLA 50 Hz): 0
Rated Load Amps (RLA 60 Hz): 13.1
Max. Continuous Current (MCC in Amps): 0
Motor Resistance (Ohm) - Main: .84
Motor Resistance (Ohm) - Start: 3.54
Motor Type: N/A
Overload Type: N/A
Relay Type: N/A

Agency Approval

CE Listed



Tecumseh

Performance Data Sheet

AHC4524EHZ

General Information

Model	AHC4524EHZ	Refrigerant	R-22
Test Condition	Tecumseh Europe	Performance Test Voltage	220V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	Motor Type	N/A

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)							
		30	35	40	45	50	55	60	65
-6.7	Watts (Capacity)	5420	5060	4670	4280	3880	3470	3070	2660
	Watts (Power)	1830	1860	1900	1940	1990	2040	2080	2120
	Amps	9.32	9.40	9.50	9.62	9.74	9.87	10.0	10.1
-5	Watts (Capacity)	5860	5470	5060	4640	4220	3790	3370	2950
	Watts (Power)	1860	1910	1950	2010	2070	2120	2180	2230
	Amps	9.52	9.66	9.80	9.96	10.1	10.3	10.5	10.6
0	Watts (Capacity)	7280	6800	6320	5830	5340	4840	4350	3870
	Watts (Power)	1980	2050	2130	2210	2300	2390	2470	2550
	Amps	10.1	10.4	10.7	11.0	11.3	11.6	11.9	12.2
5	Watts (Capacity)	8910	8350	7780	7200	6630	6050	5490	4940
	Watts (Power)	2100	2200	2310	2420	2540	2650	2760	2870
	Amps	10.7	11.1	11.6	12.0	12.5	12.9	13.4	13.8
7.2	Watts (Capacity)	9690	9090	8480	7860	7250	6640	6040	5450
	Watts (Power)	2160	2270	2390	2510	2640	2770	2890	3020
	Amps	11.0	11.5	12.0	12.5	13.0	13.5	14.0	14.6
10	Watts (Capacity)	10800	10100	9420	8750	8090	7430	6780	6140
	Watts (Power)	2240	2360	2500	2630	2780	2920	3060	3200
	Amps	11.3	11.9	12.5	13.1	13.7	14.3	14.9	15.5
15	Watts (Capacity)	12800	12000	11300	10500	9720	8960	8210	7480
	Watts (Power)	2380	2530	2690	2860	3020	3190	3360	3520
	Amps	11.9	12.6	13.4	14.1	14.9	15.7	16.4	17.2

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	9.630000E+03	1.870000E+03	9.000000E+00	
C2	4.190000E+02	-9.160000E+00	-6.170000E-02	
C3	-5.950000E+01	-8.950000E+00	1.720000E-02	

C4	5.520000E+00	3.710000E-01	-1.090000E-03	
C5	-4.160000E+00	1.080000E+00	6.170000E-03	
C6	-7.920000E-01	5.230000E-01	8.280000E-04	
C7	-1.000000E-16	0.000000E+00	0.000000E+00	
C8	-4.190000E-02	-5.650000E-03	2.980000E-05	
C9	1.190000E-02	8.350000E-04	-4.910000E-06	
C10	5.300000E-03	-3.450000E-03	-5.080000E-06	

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

Te = Evaporator Temperature

Tc = Condensing Temperature