

Model: AJE4461YGZ (CAJ4461Y)
Product Description

Type: Reciprocating
Application: HBP - High Back Pressure
Refrigerant: R-134a
Voltage/Frequency: 208-220V ~ 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	220V ~ 50HZ	5123	1291	1501	607	8.44	2.13	2.47	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: High Start Torque (HST)
Compressor Cooling: Fan

Mechanical

Weight: 20
Weight Unit of Measure: KG
Displacement (cc): 18.3
Oil Type: Polyolester
Viscosity (cSt): 32
Oil Charge (cc): 887

Electrical

Voltage Range (50 Hz): 187-242
Voltage Range (60 Hz): N/A
Locked Rotor Amps (LRA): 22
Rated Load Amps (RLA 50 Hz): 4.4
Rated Load Amps (RLA 60 Hz): 4.4
Max. Continuous Current (MCC in Amps): 5.3
Motor Resistance (Ohm) - Main: 3.3
Motor Resistance (Ohm) - Start: 14
Motor Type: CSIR
Overload Type: N/A
Relay Type: N/A

Agency Approval

CE Listed, GOST RUSSIA Listed



Tecumseh

Performance Data Sheet

AJE4461YGZ

General Information

Model	AJE4461YGZ	Refrigerant	R-134a
Test Condition	EN12900	Performance Test Voltage	220V ~ 50HZ
Return Gas	20°C (68°F) RETURN GAS	Motor Type	CSIR

Performance Information

Evap Temp (°C)	Condensing Temperature (°C)				
		30	40	50	60
-6.7	Watts (Capacity)	1140	952	756	556
	Watts (Power)	451	476	484	477
	Amps	3.60	3.71	3.76	3.73
-5	Watts (Capacity)	1240	1040	834	624
	Watts (Power)	462	492	506	506
	Amps	3.63	3.77	3.83	3.82
0	Watts (Capacity)	1560	1330	1090	845
	Watts (Power)	493	538	570	590
	Amps	3.72	3.92	4.05	4.10
5	Watts (Capacity)	1940	1680	1390	1100
	Watts (Power)	520	581	631	671
	Amps	3.80	4.06	4.25	4.37
7.2	Watts (Capacity)	2130	1840	1540	1230
	Watts (Power)	531	599	657	706
	Amps	3.83	4.13	4.34	4.49
10	Watts (Capacity)	2380	2070	1740	1400
	Watts (Power)	545	621	690	749
	Amps	3.87	4.20	4.45	4.63
15	Watts (Capacity)	2890	2520	2140	1750
	Watts (Power)	567	660	746	826
	Amps	3.94	4.33	4.65	4.89

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.105876E+03	2.735922E+02	2.663090E+00	
C2	9.108188E+01	-9.659690E-01	-2.072920E-02	
C3	-1.291378E+01	9.493787E+00	4.637940E-02	

C4	1.413419E+00	-7.387733E-02	-1.537690E-04	
C5	-6.433247E-01	1.578609E-01	1.258030E-03	
C6	-2.078243E-01	-7.513620E-02	-3.738900E-04	
C7	6.912892E-03	5.762077E-04	0.000000E+00	
C8	-1.143432E-02	3.110190E-04	0.000000E+00	
C9	-1.332886E-03	2.210091E-03	0.000000E+00	
C10	1.212660E-03	7.877887E-05	0.000000E+00	

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

Te = Evaporator Temperature

Tc = Condensing Temperature