

Model: AJE2433ZH



Product Description

Type:	Reciprocating Compressors
Application:	LBP - Low Back Pressure
ProductDescription:	R-404A
Voltage/Frequency:	208-220V ~ 60Hz
Version:	N/A

Product Specifications

Performance

Condition	Test Voltage	Refrigeration Capacity			Input Power (I) W	(E) Efficiency			EVAP TEMP	Condition	AMBIENT TEMP	RETURN GAS	LIQUID TEMP
		(R) Btu/h	(R) kcal/h	(R) W		(E) Btu/Wh	(E) kcal/Wh	W/W					
EN12900 (R-404A)	220V ~ 60HZ	1922	484	563	748	2.57	.65	.75	-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:	23
Weight Unit of Measure:	KG
Displacement (cc):	26.15
Oil Type:	Polyolester
Viscosity (cSt):	32
Oil Charge (cc):	782

Electrical

Voltage Range (50 Hz):	
Voltage Range (60 Hz):	187-242
Locked Rotor Amps (LRA):	37
Rated Load Amps (RLA 50 Hz):	4.8
Rated Load Amps (RLA 60 Hz):	4.8
Max. Continuous Current (MCC in Amps):	11.4
Motor Resistance (Ohm) - Main:	1.6

Motor Resistance (Ohm) - Start: 8.1
Motor Type: CSR
Overload Type:
Relay Type:

[Agency Approval](#)

CE Listed, SASO Listed, UL Recognized



Performance Data Sheet

AJE2433ZH

General

Model	AJE2433ZH	Unit of Measure	Celsius
Condition	EN12900	Voltage/Frequency	220V ~ 60HZ
RETURN GAS	20°C (68°F) RETURN GAS	MotorType	CSR

Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)								
		30	35	40	45	50	55	60	65
-40	Watts (Capacity)	665	581	499	419	341	266	193	123
	Watts (Power)	641	639	630	612	587	553	511	461
	Amps	2.99	2.96	2.91	2.83	2.72	2.58	2.41	2.21
-35	Watts (Capacity)	925	824	724	627	532	439	350	263
	Watts (Power)	734	745	748	743	730	709	679	642
	Amps	3.39	3.43	3.43	3.41	3.35	3.27	3.15	3.01
-30	Watts (Capacity)	1240	1110	992	872	755	640	529	420
	Watts (Power)	834	857	872	880	879	870	853	828
	Amps	3.84	3.93	3.99	4.02	4.02	3.99	3.93	3.85
-25	Watts (Capacity)	1610	1460	1310	1160	1020	874	736	601
	Watts (Power)	938	974	1000	1020	1030	1040	1030	1020
	Amps	4.32	4.47	4.58	4.67	4.73	4.75	4.75	4.72
-23.3	Watts (Capacity)	1750	1580	1430	1270	1110	962	814	668
	Watts (Power)	975	1010	1050	1070	1090	1090	1090	1090
	Amps	4.49	4.66	4.79	4.90	4.97	5.02	5.04	5.03
-20	Watts (Capacity)	2040	1850	1670	1500	1320	1150	977	810
	Watts (Power)	1050	1100	1140	1170	1190	1210	1220	1220
	Amps	4.84	5.04	5.21	5.35	5.47	5.55	5.60	5.63
-15	Watts (Capacity)	2540	2320	2100	1890	1670	1460	1260	1050
	Watts (Power)	1160	1220	1280	1320	1360	1380	1400	1420
	Amps	5.39	5.65	5.88	6.08	6.24	6.38	6.49	6.58
-10	Watts (Capacity)	3110	2850	2590	2330	2080	1830	1580	1340
	Watts (Power)	1280	1360	1420	1480	1530	1570	1600	1620
	Amps	5.98	6.30	6.58	6.83	7.06	7.25	7.42	7.56

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.693235E+03	7.846576E+02	4.104740E+00	
C2	2.215206E+02	1.188446E+01	6.918666E-02	
C3	-7.362381E+01	3.002449E+01	1.232839E-01	
C4	2.390447E+00	1.061903E-01	7.287340E-04	
C5	-2.178155E+00	4.950765E-01	2.237933E-03	
C6	1.023009E-02	-1.614506E-01	-5.886800E-04	
C7	7.315726E-03	0.000000E+00	0.000000E+00	
C8	-1.954020E-02	0.000000E+00	0.000000E+00	
C9	2.656750E-04	0.000000E+00	0.000000E+00	
C10	3.288600E-04	0.000000E+00	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