

**Model: RKA5490EXD**
**Product Description**

**Type:** Rotary Compressors  
**Application:** HBP/AC - Air Conditioning  
**ProductDescription:** R-22  
**Voltage/Frequency:** 208-230V ~ 60Hz 200V ~ 50Hz  
**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					
ARI (R-22)	230V ~ 60HZ	9100	2293	2666	840	10.83	2.73	3.17	7.2°C (45°F)	54°C (130°F)	35°C (95°F)	18.3°C (65°F)	46°C (115°F)

**General**

**Evaporating Temp. Range:** -23.3°C to 12.8°C (-10°F to 55°F)  
**Motor Torque:** Low Start Torque (LST)  
**Compressor Cooling:** Fan

**Mechanical**

**Weight:** 28  
**Weight Unit of Measure:** LB  
**Displacement (cc):** 12.865  
**Oil Type:** Synthetic Alkylate  
**Viscosity (cSt):** 53  
**Oil Charge (cc):** 356

**Electrical**

**Voltage Range (50 Hz):** 180-220  
**Voltage Range (60 Hz):** 197-254  
**Locked Rotor Amps (LRA):** 20  
**Rated Load Amps (RLA 50 Hz):** 0  
**Rated Load Amps (RLA 60 Hz):** 3.8  
**Max. Continuous Current (MCC in Amps):** 7  
**Motor Resistance (Ohm) - Main:** 3.65

Motor Resistance (Ohm) - Start: 4.23

Motor Type: PSC

Overload Type:

Relay Type:

[Agency Approval](#)

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	Lb/h	97.9	96.5	95.0	93.4	91.8	90.3	88.8	87.5
30	Btu/h	8860	8420	7980	7540	7110	6670	6240	5810
	Watts	479	537	595	656	718	784	852	923
	Amps	2.00	2.30	2.60	2.91	3.22	3.54	3.87	4.20
	Lb/h	108	107	105	103	102	100	98.5	97.0
35	Btu/h	9800	9330	8850	8380	7900	7420	6950	6480
	Watts	490	548	608	670	735	803	874	950
	Amps	2.05	2.35	2.67	2.98	3.31	3.63	3.97	4.31
	Lb/h	119	117	116	114	112	111	109	107
40	Btu/h	10800	10300	9780	9270	8750	8230	7720	7210
	Watts	501	560	620	684	751	822	896	975
	Amps	2.10	2.41	2.73	3.06	3.38	3.72	4.06	4.41
	Lb/h	130	129	127	125	124	122	120	118
45	Btu/h	11900	11300	10800	10200	9660	9100	8540	7980
	Watts	512	571	633	698	767	840	918	1000
	Amps	2.15	2.47	2.80	3.13	3.46	3.80	4.15	4.50
	Lb/h	142	141	139	137	136	134	132	130
50	Btu/h	13000	12400	11800	11200	10600	10000	9420	8810
	Watts	523	582	644	711	782	858	938	1020
	Amps	2.20	2.53	2.86	3.19	3.53	3.88	4.22	4.58
	Lb/h	155	153	152	150	148	146	144	143
55	Btu/h	14200	13600	12900	12300	11700	11000	10300	9690
	Watts	533	593	656	724	797	875	958	1050
	Amps	2.25	2.58	2.92	3.26	3.60	3.95	4.30	4.65
	Lb/h	168	167	165	163	161	160	158	156

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.829897E+03	-1.040663E+02	1.592617E-01	6.329015E+01
C2	1.302062E+02	4.124511E+00	-2.316019E-02	1.234797E+00
C3	-2.706863E+01	8.033223E+00	1.887386E-02	2.963267E-02
C4	1.573346E+00	1.506450E-02	2.293986E-04	1.334959E-02
C5	-2.314785E-01	-6.545582E-02	4.204066E-04	1.172965E-03
C6	-2.804545E-02	-2.462499E-02	1.190996E-06	-1.659149E-03
C7	-1.253288E-04	-2.608302E-05	-7.692386E-08	-1.538116E-05
C8	-3.321049E-03	-1.821895E-04	-2.491757E-06	1.835798E-05
C9	-1.374367E-03	5.266183E-04	-4.029859E-07	-1.542890E-05
C10	2.288251E-04	6.033798E-05	1.159497E-07	6.117048E-06

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

Te = Evaporator Temperature

Tc = Condensing Temperature