

AKA4460YXD

General

Model	AKA4460YXD	Unit of Measure	Fahrenheit
Condition	ARI	Voltage/Frequency	230V ~ 60HZ
RETURN GAS	18.3°C (65°F) RETURN GAS	Motor Type	CSIR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
		100	110	120	130	140
20	Btu/h	3930	3490	2980	2450	1950
	Watts	587	595	597	595	590
	Amps	3.79	3.81	3.81	3.81	3.79
	Lb/h	55.8	52.3	47.2	41.3	35.1
25	Btu/h	4570	4090	3550	2980	2450
	Watts	612	630	643	650	656
	Amps	3.90	3.95	3.99	4.02	4.04
	Lb/h	65.2	61.6	56.4	50.4	44.4
30	Btu/h	5270	4750	4160	3560	2990
	Watts	635	663	684	702	716
	Amps	4.01	4.09	4.16	4.22	4.28
	Lb/h	75.5	71.7	66.4	60.4	54.5
35	Btu/h	6040	5460	4820	4180	3570
	Watts	656	693	723	749	771
	Amps	4.10	4.21	4.32	4.41	4.50
	Lb/h	86.9	82.8	77.4	71.3	65.4
40	Btu/h	6870	6230	5540	4840	4190
	Watts	675	720	759	792	822
	Amps	4.19	4.33	4.46	4.58	4.71
	Lb/h	99.4	95.0	89.4	83.2	77.3
45	Btu/h	7770	7060	6310	5560	4860
	Watts	695	747	793	833	870
	Amps	4.27	4.43	4.59	4.74	4.89
	Lb/h	113	108	102	96.2	90.2
50	Btu/h	8740	7960	7140	6320	5570
	Watts	714	773	825	872	915
	Amps	4.34	4.52	4.70	4.88	5.05
	Lb/h	128	123	117	110	104
55	Btu/h	9780	8920	8030	7150	6330
	Watts	734	799	857	910	958
	Amps	4.39	4.60	4.80	4.99	5.19
	Lb/h	144	139	132	126	119

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-1.117453E+04	2.357831E+02	3.004055E+00	-2.112553E+02
C2	1.720407E+02	-2.148091E+01	-5.679685E-02	2.313721E+00

C3	3.712478E+02	1.091853E+01	2.613279E-02	6.124657E+00
C4	2.162967E+00	3.561212E-02	5.345266E-04	1.862094E-02
C5	-1.461417E+00	3.269966E-01	6.907722E-04	-2.060957E-02
C6	-3.242028E+00	-1.156882E-01	-2.874413E-04	-4.945759E-02
C7	3.162061E-03	8.528666E-04	-1.826899E-06	1.014507E-04
C8	-1.190431E-02	-1.482436E-03	-5.043429E-06	-7.413518E-05
C9	5.421478E-03	-2.430268E-04	1.083085E-06	9.704577E-05
C10	8.379509E-03	2.786620E-04	5.914652E-07	1.193712E-04

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

AKA4460YXD

General

Model	AKA4460YXD	Unit of Measure	Fahrenheit
Condition	ARI (R-513A)	Voltage/Frequency	230V ~ 60HZ
RETURN GAS	18.3°C (65°F) RETURN GAS	Motor Type	CSIR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)					
		100	110	120	130	140
20	Btu/h	4110	3650	3120	2570	2040
	Watts	617	625	627	625	621
	Amps	3.87	3.89	3.89	3.89	3.87
	Lb/h	67.4	63.3	57.1	49.9	42.4
25	Btu/h	4780	4280	3710	3120	2570
	Watts	643	663	675	684	689
	Amps	3.98	4.04	4.08	4.11	4.13
	Lb/h	78.8	74.4	68.2	61.0	53.7
30	Btu/h	5520	4970	4350	3720	3130
	Watts	667	697	719	738	753
	Amps	4.09	4.18	4.25	4.31	4.37
	Lb/h	91.3	86.7	80.3	73.1	65.8
35	Btu/h	6320	5710	5050	4370	3740
	Watts	689	728	760	787	811
	Amps	4.19	4.30	4.41	4.50	4.60
	Lb/h	105	100	93.6	86.3	79.1
40	Btu/h	7190	6520	5790	5070	4390
	Watts	710	757	798	833	865
	Amps	4.28	4.42	4.55	4.68	4.81
	Lb/h	120	115	108	101	93.4
45	Btu/h	8130	7390	6600	5820	5090
	Watts	730	786	834	876	915
	Amps	4.36	4.53	4.69	4.84	4.99
	Lb/h	137	131	124	116	109
50	Btu/h	9150	8330	7470	6620	5830
	Watts	750	813	868	917	962
	Amps	4.43	4.62	4.80	4.98	5.16
	Lb/h	155	148	141	133	126
55	Btu/h	10200	9340	8400	7480	6630
	Watts	772	840	901	956	1010
	Amps	4.49	4.70	4.90	5.10	5.30
	Lb/h	174	168	160	152	144

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	-1.169388E+04	2.478774E+02	3.067298E+00	-2.554443E+02
C2	1.800365E+02	-2.258275E+01	-5.799257E-02	2.797690E+00

C3	3.885020E+02	1.147859E+01	2.668295E-02	7.405772E+00
C4	2.263493E+00	3.743881E-02	5.457798E-04	2.251595E-02
C5	-1.529338E+00	3.437696E-01	7.053148E-04	-2.492054E-02
C6	-3.392705E+00	-1.216223E-01	-2.934927E-04	-5.980280E-02
C7	3.309022E-03	8.966136E-04	-1.865360E-06	1.226715E-04
C8	-1.245758E-02	-1.558476E-03	-5.149606E-06	-8.964229E-05
C9	5.673448E-03	-2.554926E-04	1.105887E-06	1.173452E-04
C10	8.768957E-03	2.929557E-04	6.039171E-07	1.443405E-04

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

Model: AKA4460YXD

Product Description

Type:	Reciprocating Compressors
Application:	HBP - High Back Pressure
Refrigerant:	R-134a
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-513A)	230V ~ 60HZ	6229	1571	1826	889	7.01	1.77	2.05	7.2°C (45°F)	54°C (130°F)	35°C (95°F)	18.3°C (65°F)	46°C (115°F)
ARI (R-134a)	230V ~ 60HZ	6250	1575	1831	860	7.27	1.83	2.13	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:	-6.7°C to 12.8°C (20°F to 55°F)
Motor Torque:	High Start Torque (HST)
Compressor Cooling:	Fan

Mechanical

Weight:	41
Weight Unit of Measure:	LB
Displacement (cc):	18.584
Oil Type:	Polyolester
Viscosity (cSt):	32
Oil Charge (cc):	512

Electrical

Voltage Range (50 Hz):	180-220
Voltage Range (60 Hz):	187-254
Locked Rotor Amps (LRA):	23
Rated Load Amps (RLA 50 Hz):	0
Rated Load Amps (RLA 60 Hz):	4.8
Max. Continuous Current (MCC in Amps):	7.1

Motor Resistance (Ohm) - Main:	2.75
Motor Resistance (Ohm) - Start:	6.23
MotorType:	CSIR
Overload Type:	
Relay Type:	

Agency Approval

CE Listed, cURus Recognized