PT. POLARIN XININDO
Pergudangan Duta Niaga No. 9BL/BK
Jl. Halim Perdana Kusuma
Jurumudi Baru, Benda – Tangerang 15124
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Technical Data Sheet

Model: AVA5555EXG

Product Description

Type: Reciprocating
Application: HBP/AC - Air Conditioning
Refrigerant: R-22
Voltage/Frequency: 460V 3~ 60Hz 380-420V 3~ 50Hz
Version: N/A

Product Specifications

Performance

		Refrigeration Capacity			Input Power	Efficiency			EVAP TEMP	COND TEMP	AMBIENT TEMP	RETURN GAS	LIQUID TEMP
Condition	Test Voltage	Btu/h	kcal/h	W	W	Btu/Wh	kcal/Wh	W/W					
ASHRAE	460V 3~ 60HZ	55000	13860	16115	5400	10.19	2.57	2.98	7.2°C (45°F)	54°C (130°F)	35°C (95°F)	35°C (95°F)	46°C (115°F)
ASHRAE	380V 3~ 50HZ	45500	11466	13332	4400	10.34	2.61	3.03	7.2°C (45°F)	54°C (130°F)	35°C (95°F)	35°C (95°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: 82
Weight Unit of Measure: LB
Displacement (cc): 91.035
Oil Type: Synthetic Alkylate
Viscosity (cSt): 32
Oil Charge (cc): 1624

Electrical

Voltage Range (50 Hz): 342-462
Voltage Range (60 Hz): 414-506
Locked Rotor Amps (LRA): 55
Rated Load Amps (RLA 50 Hz): 0
Rated Load Amps (RLA 60 Hz): 7.8
Max. Continuous Current (MCC in Amps): 13.4
Motor Resistance (Ohm) - Main: 2.84
Motor Resistance (Ohm) - Start: N/A
Motor Type: 3PH
Overload Type: N/A
Relay Type: N/A

Agency Approval

Performance Data Sheet

AVA5555EXG

General Information

Model	AVA5555EXG	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	460V 3~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	16600	15000					
	Watts	2060	2090					
	Amps	3.66	3.74					
	Lb/h	214	201					
-10	Btu/h	19000	17300	15600				
	Watts	2200	2280	2320				
	Amps	3.97	4.07	4.13				
	Lb/h	244	231	216				
-5	Btu/h	22000	20100	18300	16400			
	Watts	2340	2460	2550	2600			
	Amps	4.25	4.38	4.47	4.51			
	Lb/h	280	267	252	236			
0	Btu/h	25400	23400	21400	19300	17300		
	Watts	2470	2640	2770	2860	2920		
	Amps	4.51	4.67	4.79	4.86	4.89		
	Lb/h	322	308	293	276	258		
5	Btu/h	29300	27100	24900	22700	20400		
	Watts	2610	2810	2980	3110	3210		
	Amps	4.75	4.93	5.08	5.19	5.26		
	Lb/h	368	354	339	322	303		
10	Btu/h	33600	31300	28800	26400	23900	21500	19000
	Watts	2740	2980	3180	3350	3490	3600	3690
	Amps	4.96	5.17	5.35	5.50	5.61	5.68	5.72
	Lb/h	420	406	389	372	353	332	310
15	Btu/h	38500	35900	33200	30500	27800	25100	22400
	Watts	2860	3140	3370	3580	3760	3910	4040
	Amps	5.15	5.39	5.60	5.78	5.93	6.05	6.13
	Lb/h	478	462	445	427	407	386	363
20	Btu/h	43800	40900	38000	35000	32100	29100	26200
	Watts	2990	3290	3560	3800	4020	4200	4370
	Amps	5.32	5.59	5.83	6.05	6.23	6.39	6.52
	Lb/h	540	524	506	487	466	444	420

25	Btu/h	49600	46400	43200	39900	36700	33500	30200
	Watts	3110	3440	3740	4010	4260	4480	4680
	Amps	5.47	5.76	6.04	6.29	6.51	6.72	6.89
	Lb/h	608	590	571	551	529	506	481
30	Btu/h	55800	52300	48800	45200	41700	38100	34600
	Watts	3220	3580	3900	4200	4480	4740	4970
	Amps	5.60	5.92	6.22	6.51	6.77	7.02	7.24
	Lb/h	680	662	641	620	597	572	546
35	Btu/h	62600	58700	54800	50900	47000	43100	39200
	Watts	3330	3710	4060	4390	4690	4980	5240
	Amps	5.70	6.05	6.39	6.71	7.01	7.30	7.57
	Lb/h	758	738	716	693	669	642	614
40	Btu/h	69700	65500	61200	57000	52700	48400	44200
	Watts	3440	3830	4200	4550	4890	5200	5490
	Amps	5.79	6.16	6.53	6.88	7.23	7.56	7.88
	Lb/h	840	818	795	771	744	717	687
45	Btu/h	77400	72700	68100	63400	58800	54100	49500
	Watts	3540	3950	4340	4710	5060	5400	5720
	Amps	5.85	6.26	6.65	7.04	7.43	7.80	8.17
	Lb/h	927	903	878	852	824	795	764
50	Btu/h	85400	80400	75300	70200	65100	60100	55000
	Watts	3640	4060	4470	4850	5230	5580	5930
	Amps	5.90	6.33	6.76	7.18	7.60	8.02	8.43
	Lb/h	1020	993	966	938	908	877	844
55	Btu/h	94000	88500	82900	77400	71900	66400	60900
	Watts	3730	4160	4580	4980	5370	5750	6120
	Amps	5.93	6.38	6.84	7.30	7.76	8.22	8.68
	Lb/h	1110	1090	1060	1030	996	962	927

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.867745E+04	-3.497764E+02	1.796701E+00	3.965083E+02
C2	1.027063E+03	-2.142367E+01	3.567836E-02	9.289205E+00
C3	-1.267171E+02	5.332405E+01	4.904223E-02	-6.501538E-01
C4	1.376804E+01	3.642439E-01	-4.688357E-04	1.341283E-01
C5	-3.847569E+00	4.524148E-01	-1.460951E-04	-5.109795E-03
C6	-6.206326E-01	-2.415473E-01	-1.800954E-04	-2.358716E-03
C7	-3.712045E-03	-3.872329E-04	5.731644E-07	-1.250158E-04
C8	-5.237411E-02	-5.256810E-03	2.827622E-08	-3.194841E-04
C9	1.913900E-03	1.920819E-03	4.020293E-06	-1.061244E-05
C10	1.577078E-03	1.993641E-04	-1.124999E-07	-1.523024E-05

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

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