

Model: VSC5532BNA

Product Description

Type:	Scroll Compressors
Application:	HBP/AC - Air Conditioning
ProductDescription:	R-410A
Voltage/Frequency:	208-230V ~ 60Hz
Version:	N/A



Product Specifications

Performance

		Refrigeration Capacity			Input Power	(E) Efficiency			EVAP TEMP	Condition	AMBIENT TEMP	RETURN GAS	LIQUID TEMP
Condition	Test Voltage	(R) Btu/h	(R) kcal/h	(R) W	(I) W	(E) Btu/Wh	(E) kcal/Wh	W/W					
ARI (R-410A)	230V ~ 60HZ	32001	8064	9376	3106	10.3	2.59	3.01	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:	-31.6°C to 12.7°C (-25°F to 55°F)
Motor Torque:	Low Start Torque (LST)
Compressor Cooling:	Fan

Mechanical

Weight:	68
Weight Unit of Measure:	LB
Displacement (cc):	30.6
Oil Type:	Polyvinylether
Viscosity (cSt):	32
Oil Charge (cc):	1060

Electrical

Voltage Range (50 Hz):	
Voltage Range (60 Hz):	197-254
Locked Rotor Amps (LRA):	87.5
Rated Load Amps (RLA 50 Hz):	0
Rated Load Amps (RLA 60 Hz):	16
Max. Continuous Current (MCC in Amps):	0
Motor Resistance (Ohm) - Main:	.67

Motor Resistance (Ohm) - Start:	1.66
MotorType:	PSC
Overload Type:	
Relay Type:	

Agency Approval

UL Recognized



Performance Data Sheet

VSC5532BNA

General

Model	VSC5532BNA	Unit of Measure	Fahrenheit
Condition	ARI	Voltage/Frequency	230V ~ 60HZ
RETURN GAS	18.3°C (65°F) RETURN GAS	MotorType	PSC

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)								
		80	90	100	110	120	130	140	150
-15	Btu/h	10100	8690						
	Watts	1760	1920						
	Amps	7.76	8.83						
	Lb/h	123	111						
-10	Btu/h	12300	10800	9520					
	Watts	1790	1950	2170					
	Amps	7.76	8.80	10.0					
	Lb/h	148	137	127					
-5	Btu/h	14400	13000	11700	10300				
	Watts	1800	1970	2190	2470				
	Amps	7.74	8.78	9.95	11.3				
	Lb/h	172	163	154	144				
0	Btu/h	16700	15200	13900	12500	11000			
	Watts	1800	1980	2200	2480	2830			
	Amps	7.72	8.74	9.90	11.2	12.8			
	Lb/h	198	189	181	172	161			
5	Btu/h	19000	17500	16100	14700	13100	11400		
	Watts	1800	1980	2210	2490	2830	3240		
	Amps	7.70	8.71	9.85	11.2	12.7	14.6		
	Lb/h	224	216	209	201	190	176		
10	Btu/h	21400	19900	18400	17000	15300	13500	11300	
	Watts	1790	1980	2210	2500	2830	3240	3710	
	Amps	7.66	8.66	9.79	11.1	12.6	14.5	16.6	
	Lb/h	251	244	237	230	221	207	187	
15	Btu/h	24000	22400	20900	19300	17600	15700	13400	
	Watts	1770	1970	2210	2490	2830	3230	3700	
	Amps	7.61	8.61	9.74	11.0	12.6	14.4	16.5	
	Lb/h	279	272	267	261	252	239	220	
20	Btu/h	26800	25100	23500	21800	20000	18000	15600	12900
	Watts	1740	1950	2200	2480	2820	3220	3670	4210
	Amps	7.55	8.56	9.68	11.0	12.5	14.2	16.4	18.9
	Lb/h	309	303	298	293	285	272	254	228
25	Btu/h	29700	27900	26200	24500	22600	20400	18000	15000
	Watts	1720	1930	2180	2470	2810	3200	3650	4170
	Amps	7.48	8.49	9.61	10.9	12.4	14.1	16.2	18.7

	Lb/h	341	335	331	326	319	307	290	264
30	Btu/h	32900	31000	29200	27300	25300	23000	20400	17400
	Watts	1680	1910	2160	2460	2790	3180	3620	4130
	Amps	7.39	8.41	9.54	10.8	12.3	14.1	16.1	18.6
	Lb/h	375	370	366	362	355	344	327	302
35	Btu/h	36300	34300	32400	30400	28200	25800	23000	19800
	Watts	1640	1880	2140	2440	2770	3160	3590	4100
	Amps	7.29	8.33	9.46	10.7	12.2	14.0	16.0	18.4
	Lb/h	411	407	403	399	393	382	366	342
40	Btu/h	40000	37900	35800	33700	31400	28800	25900	22500
	Watts	1600	1850	2120	2420	2750	3130	3560	4060
	Amps	7.17	8.23	9.37	10.7	12.1	13.9	15.9	18.3
	Lb/h	451	447	444	440	434	424	408	384
45	Btu/h	43900	41700	39500	37200	34700	32000	28900	25300
	Watts	1560	1810	2090	2390	2730	3110	3530	4020
	Amps	7.04	8.12	9.27	10.6	12.1	13.8	15.8	18.2
	Lb/h	494	490	487	483	478	468	452	429
50	Btu/h	48300	45900	43500	41000	38400	35500	32200	28400
	Watts	1510	1780	2060	2370	2710	3080	3500	3980
	Amps	6.89	7.99	9.17	10.5	12.0	13.7	15.7	18.1
	Lb/h	541	537	534	530	525	515	499	477
55	Btu/h	52900	50400	47800	45200	42400	39300	35800	31800
	Watts	1460	1740	2030	2340	2680	3060	3470	3940
	Amps	6.72	7.85	9.05	10.4	11.9	13.6	15.6	18.0
	Lb/h	591	587	584	581	575	566	550	528

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.234618E+04	1.235540E+03	-1.981953E+00	5.058142E+02
C2	4.513071E+02	-3.451914E+01	-3.093062E-02	3.914937E+00
C3	-5.914261E+02	6.424921E+00	2.034427E-01	-8.584683E+00
C4	3.829402E+00	-2.140015E-01	-7.747224E-04	2.827945E-02
C5	5.934862E-01	6.870362E-01	8.076896E-04	1.161897E-02
C6	4.644377E+00	-9.000911E-02	-1.746353E-03	8.238567E-02
C7	3.626700E-02	8.048881E-04	-1.276248E-06	4.388313E-04
C8	-2.640234E-02	7.342304E-04	7.501233E-06	-1.908059E-04
C9	-6.794133E-03	-3.201267E-03	-6.002558E-06	4.181010E-05
C10	-1.578138E-02	1.225630E-03	9.000331E-06	-2.901164E-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