

Model: VSC5534BNA

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	34500	8694	10108	3382	10.19	2.57	2.98	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):	33.3
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):	105
Rated Load Amps (RLA 50 Hz):	0
Rated Load Amps (RLA 60 Hz):	21.5
Max. Continuous Current (MCC in Amps):	0
Motor Resistance (Ohm) - Main:	.532

Motor Resistance (Ohm) - Start:	1.395
MotorType:	PSC
Overload Type:	
Relay Type:	

Agency Approval

UL Recognized



Performance Data Sheet

VSC5534BNA

General

Model	VSC5534BNA	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	10900	9400						
	Watts	1890	2060						
	Amps	7.95	9.04						
	Lb/h	133	120						
-10	Btu/h	13300	11700	10300					
	Watts	1910	2090	2330					
	Amps	7.94	9.02	10.2					
	Lb/h	160	148	137					
-5	Btu/h	15600	14100	12600	11100				
	Watts	1920	2110	2360	2670				
	Amps	7.93	8.99	10.2	11.6				
	Lb/h	187	176	166	155				
0	Btu/h	18000	16500	15000	13500	11800			
	Watts	1930	2120	2370	2680	3070			
	Amps	7.91	8.96	10.1	11.5	13.1			
	Lb/h	214	204	196	186	173			
5	Btu/h	20600	19000	17400	15900	14200	12200		
	Watts	1920	2120	2380	2690	3070	3530		
	Amps	7.88	8.92	10.1	11.4	13.0	14.9		
	Lb/h	242	233	226	217	205	189		
10	Btu/h	23200	21500	19900	18300	16500	14500	12200	
	Watts	1910	2120	2380	2690	3070	3530	4060	
	Amps	7.85	8.87	10.0	11.4	13.0	14.8	17.0	
	Lb/h	271	263	257	249	238	223	201	
15	Btu/h	26000	24300	22600	20900	19000	16900	14500	
	Watts	1890	2110	2370	2690	3070	3520	4040	
	Amps	7.80	8.82	9.97	11.3	12.9	14.7	16.9	
	Lb/h	302	295	289	282	272	258	237	
20	Btu/h	29000	27100	25400	23600	21600	19400	16800	13800
	Watts	1870	2090	2360	2680	3060	3500	4020	4610
	Amps	7.73	8.76	9.91	11.2	12.8	14.6	16.8	19.3
	Lb/h	334	328	322	316	307	294	274	245
25	Btu/h	32100	30200	28400	26400	24400	22000	19300	16200
	Watts	1840	2070	2350	2670	3040	3480	3990	4580
	Amps	7.66	8.70	9.84	11.2	12.7	14.5	16.6	19.2

	Lb/h	369	363	358	352	344	331	312	284
30	Btu/h	35600	33500	31600	29500	27300	24800	22000	18700
	Watts	1800	2050	2330	2650	3030	3460	3960	4540
	Amps	7.57	8.62	9.77	11.1	12.6	14.4	16.5	19.0
	Lb/h	406	400	396	391	383	371	352	325
35	Btu/h	39300	37100	35000	32800	30400	27800	24800	21300
	Watts	1760	2020	2300	2630	3010	3440	3930	4490
	Amps	7.47	8.53	9.69	11.0	12.5	14.3	16.4	18.9
	Lb/h	445	440	436	431	424	412	394	368
40	Btu/h	43200	41000	38700	36400	33800	31000	27900	24200
	Watts	1710	1980	2280	2610	2980	3410	3900	4450
	Amps	7.35	8.43	9.60	10.9	12.4	14.2	16.3	18.7
	Lb/h	488	483	480	475	468	457	439	413
45	Btu/h	47600	45100	42700	40200	37500	34500	31100	27300
	Watts	1670	1940	2250	2580	2960	3380	3860	4410
	Amps	7.21	8.31	9.50	10.8	12.3	14.1	16.2	18.6
	Lb/h	535	530	526	522	515	504	487	462
50	Btu/h	52300	49600	47000	44300	41400	38300	34700	30600
	Watts	1610	1910	2220	2560	2930	3350	3830	4370
	Amps	7.06	8.19	9.39	10.7	12.3	14.0	16.1	18.5
	Lb/h	585	581	577	573	566	555	538	513
55	Btu/h	57300	54500	51700	48800	45700	42300	38500	34200
	Watts	1560	1860	2180	2530	2910	3330	3800	4320
	Amps	6.89	8.04	9.27	10.6	12.2	13.9	16.0	18.4
	Lb/h	640	635	631	627	621	610	593	568

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	4.535025E+04	1.404493E+03	-2.030123E+00	5.410491E+02
C2	4.917584E+02	-3.702911E+01	-3.168238E-02	4.247169E+00
C3	-6.250667E+02	4.740084E+00	2.083872E-01	-9.093088E+00
C4	4.199430E+00	-2.335883E-01	-7.935516E-04	3.122921E-02
C5	5.820280E-01	7.406043E-01	8.273200E-04	1.252387E-02
C6	4.876300E+00	-8.519434E-02	-1.788797E-03	8.721036E-02
C7	3.938035E-02	8.158084E-04	-1.307267E-06	4.761041E-04
C8	-2.926013E-02	8.615394E-04	7.683546E-06	-2.140534E-04
C9	-7.118727E-03	-3.477614E-03	-6.148447E-06	4.425805E-05
C10	-1.661809E-02	1.343732E-03	9.219078E-06	-3.080982E-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