

Model: VSC5540BNA

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	41502	10458	12160	4029	10.29	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:	71
Weight Unit of Measure:	LB
Displacement (cc):	39.6
Oil Type:	Polyvinylether
Viscosity (cSt):	32
Oil Charge (cc):	1330

Electrical

Voltage Range (50 Hz):	
Voltage Range (60 Hz):	197-254
Locked Rotor Amps (LRA):	115
Rated Load Amps (RLA 50 Hz):	0
Rated Load Amps (RLA 60 Hz):	21
Max. Continuous Current (MCC in Amps):	0
Motor Resistance (Ohm) - Main:	.55

Motor Resistance (Ohm) - Start:	1.465
MotorType:	PSC
Overload Type:	
Relay Type:	

Agency Approval

UL Recognized



Performance Data Sheet

VSC5540BNA

General

Model	VSC5540BNA	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	13100	11300						
	Watts	2250	2460						
	Amps	10.5	12.0						
	Lb/h	159	143						
-10	Btu/h	15900	14100	12300					
	Watts	2280	2490	2780					
	Amps	10.5	11.9	13.6					
	Lb/h	191	177	164					
-5	Btu/h	18700	16900	15100	13400				
	Watts	2290	2520	2810	3180				
	Amps	10.5	11.9	13.5	15.4				
	Lb/h	224	211	199	187				
0	Btu/h	21600	19700	18000	16200	14200			
	Watts	2300	2530	2830	3200	3660			
	Amps	10.5	11.9	13.4	15.3	17.4			
	Lb/h	256	245	235	223	208			
5	Btu/h	24600	22700	20900	19000	17000	14700		
	Watts	2290	2530	2840	3210	3660	4210		
	Amps	10.4	11.8	13.4	15.2	17.3	19.8		
	Lb/h	290	280	271	261	247	228		
10	Btu/h	27800	25800	23900	22000	19900	17500	14700	
	Watts	2280	2530	2840	3210	3660	4200	4830	
	Amps	10.4	11.8	13.3	15.1	17.2	19.6	22.6	
	Lb/h	325	316	308	299	286	268	242	
15	Btu/h	31100	29100	27100	25100	22900	20400	17400	
	Watts	2260	2520	2830	3210	3660	4190	4810	
	Amps	10.3	11.7	13.2	15.0	17.0	19.5	22.4	
	Lb/h	361	353	346	338	327	310	285	
20	Btu/h	34700	32500	30400	28300	26000	23300	20300	16700
	Watts	2230	2500	2820	3200	3640	4170	4780	5490
	Amps	10.2	11.6	13.1	14.9	16.9	19.3	22.2	25.6
	Lb/h	400	393	386	379	369	353	329	296
25	Btu/h	38500	36200	34000	31700	29300	26500	23300	19500
	Watts	2190	2470	2800	3180	3630	4150	4750	5450
	Amps	10.1	11.5	13.0	14.8	16.8	19.2	22.0	25.4

	Lb/h	441	435	429	423	413	398	376	343
30	Btu/h	42600	40200	37800	35400	32800	29900	26500	22500
	Watts	2150	2440	2780	3160	3610	4120	4720	5400
	Amps	10.0	11.4	12.9	14.7	16.7	19.1	21.9	25.2
	Lb/h	486	479	474	469	460	446	424	392
35	Btu/h	47000	44500	42000	39400	36600	33500	29900	25700
	Watts	2100	2400	2750	3140	3580	4090	4680	5350
	Amps	9.89	11.3	12.8	14.6	16.6	18.9	21.7	25.0
	Lb/h	533	527	523	518	510	496	475	444
40	Btu/h	51800	49100	46400	43600	40700	37300	33500	29200
	Watts	2050	2360	2720	3110	3550	4060	4640	5300
	Amps	9.73	11.2	12.7	14.5	16.5	18.8	21.6	24.8
	Lb/h	585	579	575	570	563	549	529	498
45	Btu/h	56900	54100	51200	48200	45000	41500	37500	32900
	Watts	1990	2320	2680	3080	3530	4030	4600	5250
	Amps	9.55	11.0	12.6	14.3	16.4	18.7	21.4	24.7
	Lb/h	640	635	631	627	619	607	586	556
50	Btu/h	62500	59500	56400	53200	49800	46000	41800	36900
	Watts	1930	2270	2640	3050	3500	4000	4560	5200
	Amps	9.35	10.8	12.4	14.2	16.2	18.6	21.3	24.5
	Lb/h	701	695	692	687	680	668	648	618
55	Btu/h	68600	65300	62000	58600	54900	50900	46400	41300
	Watts	1860	2220	2610	3020	3460	3960	4520	5150
	Amps	9.12	10.7	12.3	14.1	16.1	18.5	21.2	24.4
	Lb/h	766	761	757	753	746	733	714	684

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	5.498846E+04	1.665582E+03	-2.688524E+00	6.569738E+02
C2	5.840800E+02	-4.417928E+01	-4.195747E-02	5.071043E+00
C3	-7.699294E+02	5.930451E+00	2.759705E-01	-1.117102E+01
C4	4.949762E+00	-2.781786E-01	-1.050913E-03	3.650257E-02
C5	7.831345E-01	8.831502E-01	1.095633E-03	1.506900E-02
C6	6.053640E+00	-1.030970E-01	-2.368932E-03	1.072189E-01
C7	4.696857E-02	9.794226E-04	-1.731233E-06	5.684132E-04
C8	-3.405546E-02	1.018450E-03	1.017544E-05	-2.455102E-04
C9	-8.859124E-03	-4.143557E-03	-8.142485E-06	5.441292E-05
C10	-2.055867E-02	1.599496E-03	1.220896E-05	-3.773344E-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