

# Bosch BOVA 2.0 Split System Heat Pump

Condensing Units Up to 20.5 SEER

2-3-4-5 Ton Capacity

R410A



# BOSCH

## Product Specifications





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## 1 Product Features

### 1.1 Features and Benefits

- ▶ Premium efficiency – Up to 20.5 SEER and 20 SEER2
- ▶ Outdoor coil – copper tube with hydrophilic aluminum fins
- ▶ 10 speed ECM outdoor motor for quiet and efficient operation
- ▶ Inverter Drive Compressor (36%-130% speed), modulation in 1% increments
- ▶ Whisper Quiet operation – as low as 56 dB
- ▶ Small footprint – 29-1/8" (W) x 29-1/8" (D)
- ▶ Easy to install – compatible with most standard 24 VAC heat pump thermostats

### 1.2 Standard Features

- ▶ R-410A Chlorine-Free Refrigerant
- ▶ Intelligent Oil Return Technology
- ▶ Inverter Driven Rotary Compressor
- ▶ Crankcase Heater Standard
- ▶ Compressor Sound Blanket
- ▶ Multiple System Protection:
  - High pressure switch and low pressure transducer
  - Compressor liquid return protection
  - Compressor high or low compression ratio protection
  - Compressor high temperature protection
  - High / low voltage protection and over current protection
  - IPM and electronic control board high temperature protection
- ▶ Outdoor coil is capable of withstanding 1000 hour salt spray test according to ASTM B117 standard
- ▶ AHRI certified; ETL listed

### 1.3 Cabinet Features

- ▶ Baked-on powder paint finish
- ▶ Wind Load compliant per Florida Building Code - 2010
- ▶ Wire fan discharge grille
- ▶ Steel louver coil guard

### 1.4 Limited Warranty

For Products installed in a one or two family residential dwelling BTC warrants that all compressors and internal components incorporated into the Product at the time of shipment by BTC shall remain free from defects in workmanship and materials for ten (10) years\* from the Commencement Date. If the Warranty Registration process has been completed and BTC determines that the Product or any part of the Product has a defect in workmanship or materials, BTC shall pay labor charges associated with the repair or replacement of the part in accordance with the Warranty Labor Allowance Schedule\*\* for the period of ninety (90) days from the Commencement Date.

\* Please refer to [www.bosch-climate.us](http://www.bosch-climate.us) for full warranty terms and conditions.

\*\* Warranty Labor Allowance Schedule details are available on [www.boschprohvac.com](http://www.boschprohvac.com)

## 2 Nomenclature

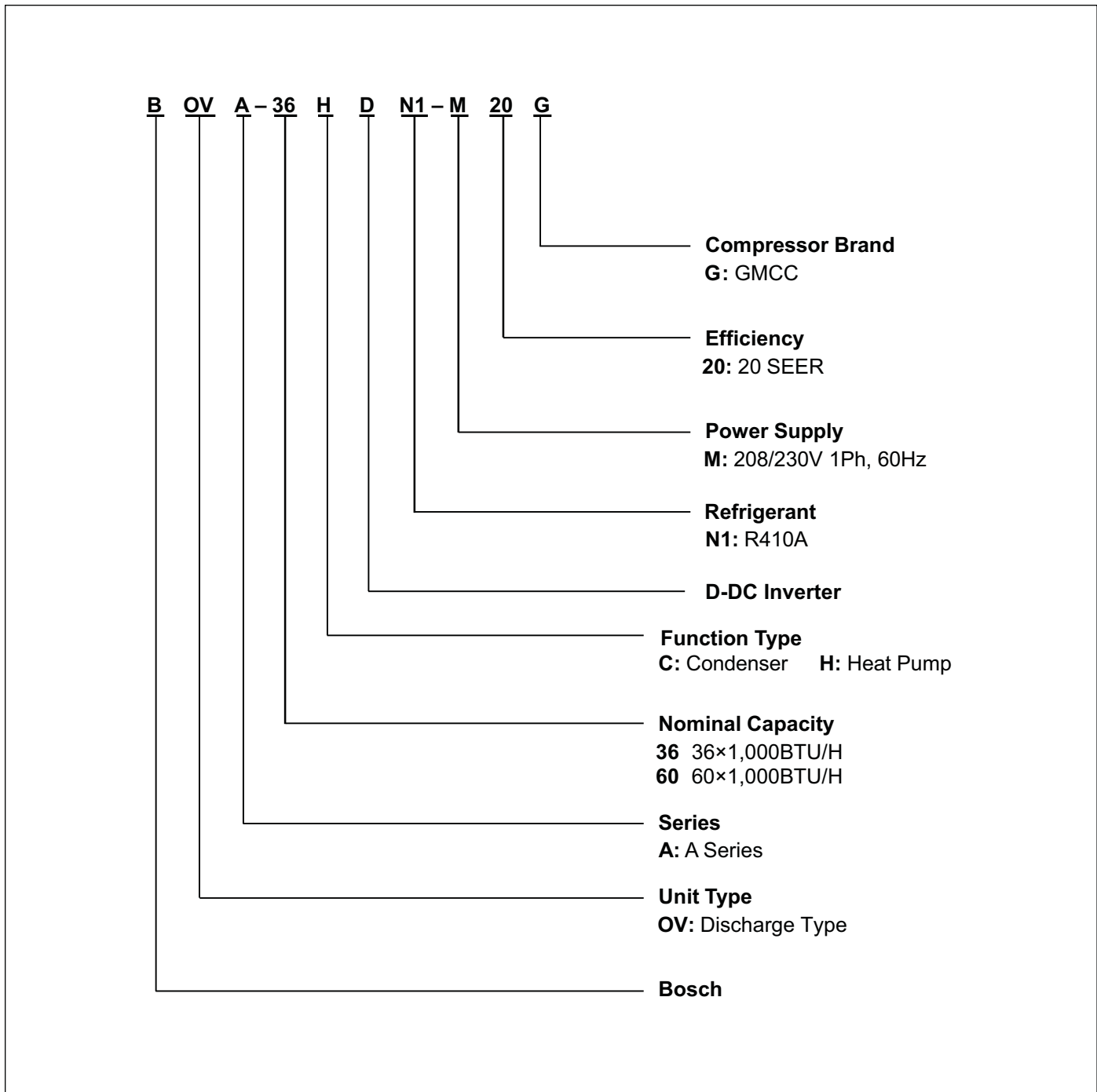


Figure 1

### 3 Product Specifications

	BOVA 36	BOVA 60
<b>Cooling Capacity</b>		
Nominal Cooling (BTU/h)	34,600	54,500
Nominal Heating (BTU/h)	34,200	56,000
<b>Decibels([dB(A)])</b>		
Max @ 100% load	77	79
Min @ min load	56	60
<b>Compressor</b>		
RLA	19	29
LRA	44	52
<b>Condenser Fan Motor</b>		
Horsepower (HP)	1/3	1/3
FLA	2.5	2.5
<b>Refrigeration System</b>		
Refrigerant Line Size <sup>1</sup>		
Liquid Line Size (OD)	3/8"	3/8"
Suction Line Size (OD)	3/4"	7/8"
Refrigerant Connection Size		
Liquid Valve Size (OD)	3/8"	3/8"
Suction Valve Size (OD)	3/4"	7/8"
Refrigerant Charge (R410-A, oz)	7 lbs. 9 oz.	11 lbs. 5 oz.
Expansion Device	EEV	EEV
Maximum Line Length	150 FT	150 FT
Maximum Elevation Difference	50 FT	50 FT
<b>Operating Range</b>		
Cooling	15-125°F	
Heating	-4~86°F	
<b>Electrical Data</b>		
Voltage-Phase-Hz	208/230-1-60	208/230-1-60
Minimum Circuit Ampacity <sup>2</sup>	26.3	38.8
Max. Overcurrent Protection <sup>3</sup>	45	60
Max Fuse Size	45	60
Min/Max Volts	172V/270V	
<b>Weight</b>		
Net Weight (without packaging)	150	220
Gross Weight (including packaging) <sup>4</sup>	180	253
<b>Dimensions</b>		
Unit L x W x H (in.)	29-1/8 x 29-1/8 x 24-15/16	29-1/8 x 29-1/8 x 33-3/16
<b>Outdoor Coil</b>		
Net face area - sq.ft. Outer Coil	13.6	18.4
Tube diameter-in.	9/32" (7mm)	9/32" (7mm)
No.of rows	2	2.8
Fins per inch	17	19

Table 1

<sup>1</sup> Tested and rated in accordance with AHRI Standard 210/240.

<sup>2</sup> Wire size should be determined in accordance with National Electrical Codes; extensive wire runs will require larger wire sizes.

<sup>3</sup> Must use time-delay fuses or HACR-type circuit breakers of the same size as noted.

<sup>4</sup> Weight values are estimated.



- Always check the rating plate for electrical data on the unit being installed.
- Unit is factory charged with refrigerant for 15' of 3/8" liquid line. System charge must be adjusted per Installation Instructions Final Charge Procedure.
- TXV is required at indoor unit to match our outdoor unit.



BOVA 36 + BVA 24 For Cooling																		
Indoor Airflow (CFM)	Outdoor DB (°F)	IWB (°F)	59				63				67				71			
		IDB (°F)	70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
860 (High Stage)	15	TC	22.2	22.5	23.0	23.2	23.0	23.2	23.5	23.7	24.5	24.7	25.0	23.3	/	31.6	31.9	32.2
		S/T	0.96	1.00	0.99	1.00	0.66	0.90	0.97	1.00	0.39	0.58	0.77	1.00	/	0.38	0.53	0.68
		KW	0.66	0.67	0.68	0.68	0.68	0.69	0.69	0.70	0.69	0.70	0.72	0.62	/	1.14	1.16	1.18
	65	TC	22.3	22.5	23.0	23.3	23.0	23.3	23.5	23.8	24.6	24.8	25.0	25.3	/	31.1	31.4	31.7
		S/T	0.96	1.00	1.00	1.00	0.66	0.90	0.97	1.00	0.39	0.58	0.77	0.95	/	0.39	0.54	0.68
		KW	0.99	1.00	1.01	1.01	1.01	1.02	1.04	1.05	1.04	1.06	1.07	1.08	/	1.41	1.43	1.45
	75	TC	22.0	22.3	22.8	23.0	22.8	23.0	23.3	23.5	24.4	24.7	24.8	24.8	/	31.2	31.4	31.7
		S/T	0.96	1.00	1.00	1.00	0.66	0.90	0.97	1.00	0.39	0.58	0.77	1.00	/	0.39	0.54	0.68
		KW	1.23	1.25	1.26	1.26	1.26	1.27	1.29	1.30	1.31	1.32	1.33	1.33	/	1.66	1.68	1.70
	85	TC	21.9	22.1	22.6	22.9	22.6	22.9	23.1	23.4	24.4	24.5	24.6	24.8	/	30.8	31.1	31.3
		S/T	0.96	1.00	1.00	1.00	0.66	0.90	0.97	1.00	0.39	0.59	0.78	1.00	/	0.39	0.54	0.69
		KW	1.36	1.38	1.39	1.39	1.39	1.41	1.42	1.44	1.46	1.46	1.46	1.48	/	1.81	1.83	1.85
	95	TC	21.7	22.0	22.5	22.7	22.5	22.7	22.9	23.2	24.0	24.2	24.4	24.6	/	30.5	30.7	30.9
		S/T	0.96	1.00	0.99	1.00	0.66	0.90	0.97	1.00	0.39	0.59	0.78	1.00	/	0.39	0.54	0.69
		KW	1.62	1.64	1.66	1.66	1.66	1.68	1.69	1.71	1.73	1.74	1.75	1.77	/	2.19	2.21	2.22
	105	TC	21.5	21.8	22.3	22.5	22.3	22.5	22.8	23.0	23.8	24.0	24.2	24.5	/	30.0	30.2	30.5
		S/T	0.95	1.00	1.00	1.00	0.66	0.90	0.97	1.00	0.39	0.59	0.78	1.00	/	0.39	0.54	0.70
		KW	1.95	1.97	1.99	1.99	1.99	2.01	2.03	2.05	2.06	2.08	2.09	2.11	/	2.63	2.65	2.68
	115	TC	21.4	21.6	22.1	22.3	22.1	22.3	22.6	22.8	23.6	23.8	24.0	24.2	/	28.8	28.8	28.7
		S/T	0.95	1.00	1.00	1.00	0.66	0.90	0.97	1.00	0.39	0.59	0.79	0.99	/	0.39	0.55	0.72
		KW	2.31	2.33	2.36	2.36	2.36	2.38	2.41	2.43	2.44	2.46	2.48	2.50	/	3.00	3.00	3.00
	125	TC	16.8	17.0	17.4	17.6	17.4	17.6	17.7	17.9	18.8	18.9	18.9	18.9	/	20.1	20.1	20.1
		S/T	1.00	1.00	1.00	1.00	0.66	0.92	1.00	1.00	0.40	0.65	0.90	1.00	/	0.40	0.64	0.87
		KW	1.97	1.99	2.01	2.01	2.01	2.03	2.05	2.07	2.11	2.11	2.11	2.11	/	2.12	2.12	2.12
1080	15	TC	25.8	26.1	26.7	27.0	26.7	27.0	27.3	27.6	28.6	28.8	29.1	29.4	/	36.1	36.4	36.6
		S/T	0.98	1.00	1.00	1.00	0.67	0.90	0.97	1.00	0.39	0.60	0.80	0.99	/	0.38	0.55	0.71
		KW	1.04	1.05	1.06	1.06	1.06	1.07	1.08	1.09	1.09	1.10	1.12	1.13	/	1.59	1.62	1.64
	65	TC	25.9	26.2	26.8	27.1	26.8	27.1	27.4	27.7	28.6	28.8	29.1	29.4	/	36.1	36.4	36.6
		S/T	0.98	1.00	1.00	1.00	0.67	0.90	0.97	1.00	0.39	0.60	0.80	0.99	/	0.38	0.55	0.71
		KW	1.33	1.34	1.36	1.36	1.36	1.37	1.39	1.40	1.40	1.41	1.43	1.44	/	1.90	1.93	1.95
	75	TC	26.0	26.3	26.9	27.2	26.9	27.2	27.5	27.8	28.7	29.0	29.2	29.5	/	36.1	36.4	36.7
		S/T	0.97	1.00	1.00	0.99	0.67	0.90	0.97	1.00	0.39	0.59	0.80	1.00	/	0.38	0.55	0.71
		KW	1.56	1.57	1.59	1.59	1.59	1.61	1.62	1.64	1.64	1.66	1.68	1.69	/	2.07	2.10	2.12
	85	TC	25.6	25.9	26.5	26.8	26.5	26.8	27.1	27.4	28.3	28.6	28.8	29.0	/	35.5	35.8	36.1
		S/T	0.98	1.00	1.00	1.00	0.67	0.90	0.97	1.00	0.39	0.60	0.80	1.00	/	0.38	0.55	0.71
		KW	1.71	1.73	1.75	1.75	1.75	1.76	1.78	1.80	1.81	1.83	1.84	1.85	/	2.29	2.31	2.34
	95	TC	25.3	25.6	26.2	26.5	26.2	26.5	26.8	27.0	28.0	28.2	28.5	28.7	/	34.2	34.4	34.4
		S/T	0.97	1.00	0.99	0.99	0.67	0.90	0.97	1.00	0.39	0.60	0.81	0.99	/	0.38	0.56	0.73
		KW	2.03	2.05	2.07	2.07	2.07	2.09	2.12	2.14	2.14	2.16	2.18	2.20	/	2.65	2.65	2.65
	105	TC	24.9	25.2	25.8	26.1	25.8	26.1	26.3	26.6	27.6	27.8	28.0	28.3	/	32.2	32.4	32.5
		S/T	0.98	1.00	1.00	1.00	0.67	0.90	0.97	1.00	0.39	0.60	0.82	0.99	/	0.39	0.57	0.75
		KW	2.39	2.42	2.44	2.44	2.44	2.47	2.50	2.52	2.53	2.55	2.57	2.59	/	2.93	2.93	2.93
	115	TC	24.5	24.8	25.4	25.6	25.4	25.6	25.9	26.2	27.1	27.3	27.6	27.8	/	29.6	29.7	29.9
		S/T	0.97	1.00	1.00	0.99	0.68	0.90	0.97	1.00	0.39	0.61	0.82	1.00	/	0.39	0.59	0.79
		KW	2.83	2.86	2.89	2.89	2.89	2.92	2.95	2.98	2.99	3.01	3.05	3.07	/	3.11	3.12	3.12
	125	TC	16.9	17.1	17.5	17.7	17.5	17.7	17.9	18.1	19.0	19.0	19.0	19.1	/	20.3	20.3	20.3
		S/T	0.98	1.00	1.00	1.00	0.71	0.90	0.97	1.00	0.40	0.71	1.00	1.00	/	0.41	0.71	0.99
		KW	2.08	2.11	2.13	2.13	2.13	2.15	2.17	2.20	2.24	2.24	2.24	2.24	/	2.25	2.25	2.25

Table 3

TC refer to total capacity S/T: refer to the ratio of sensible heat and total capacity kW: refer to total input power



BOVA 36 + BVA 36 For Cooling																			
Indoor Airflow (CFM)	Outdoor DB (°F)	IWB (°F)	IDB (°F)	59				63				67				71			
				70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
650	15	TC	22.1	22.3	22.8	23.1	22.8	23.1	23.3	23.6	24.4	24.6	24.8	25.1	/	30.1	30.4	30.7	
		S/T	0.78	0.84	0.92	1.00	0.59	0.77	0.86	0.89	0.40	0.54	0.68	0.82	/	0.39	0.50	0.62	
		KW	0.84	0.85	0.87	0.87	0.87	0.88	0.89	0.90	0.89	0.90	0.92	0.93	/	1.22	1.24	1.25	
	65	TC	22.4	22.6	23.1	23.4	23.1	23.4	23.6	23.9	24.7	24.9	25.1	25.4	/	30.4	30.7	31.0	
		S/T	0.78	0.84	0.92	1.00	0.59	0.77	0.86	0.89	0.40	0.54	0.68	0.82	/	0.39	0.50	0.62	
		KW	0.94	0.95	0.97	0.97	0.97	0.98	0.99	1.00	0.99	1.00	1.02	1.03	/	1.32	1.34	1.35	
	75	TC	22.1	22.3	22.8	23.1	22.8	23.1	23.3	23.6	24.3	24.6	24.8	25.0	/	30.4	30.7	31.0	
		S/T	0.78	0.84	0.92	1.00	0.59	0.76	0.83	0.86	0.40	0.54	0.69	0.83	/	0.39	0.50	0.62	
		KW	1.18	1.19	1.21	1.21	1.21	1.22	1.23	1.25	1.24	1.26	1.27	1.29	/	1.57	1.58	1.60	
	85	TC	22.0	22.3	22.8	23.0	22.8	23.0	23.3	23.5	24.3	24.5	24.8	25.0	/	30.2	30.4	30.7	
		S/T	0.78	0.84	0.92	1.00	0.59	0.76	0.86	0.89	0.40	0.54	0.69	0.83	/	0.39	0.50	0.62	
		KW	1.32	1.34	1.35	1.35	1.35	1.36	1.38	1.39	1.39	1.41	1.42	1.43	/	1.73	1.75	1.76	
	95	TC	21.9	22.2	22.6	22.9	22.6	22.9	23.1	23.4	24.2	24.4	24.6	24.8	/	29.8	30.1	30.4	
		S/T	0.78	0.84	0.92	1.00	0.59	0.77	0.86	0.89	0.40	0.54	0.69	0.83	/	0.39	0.51	0.62	
		KW	1.60	1.62	1.63	1.63	1.63	1.65	1.67	1.68	1.69	1.70	1.72	1.73	/	2.10	2.12	2.15	
	105	TC	21.7	22.0	22.5	22.7	22.5	22.7	23.0	23.2	24.0	24.2	24.4	24.7	/	29.5	29.7	30.0	
		S/T	0.78	0.84	0.92	1.00	0.59	0.77	0.86	0.89	0.40	0.55	0.69	0.83	/	0.39	0.51	0.63	
		KW	1.92	1.94	1.96	1.96	1.96	1.98	2.00	2.02	2.03	2.04	2.06	2.08	/	2.55	2.57	2.60	
	115	TC	21.5	21.8	22.3	22.5	22.3	22.5	22.8	23.0	23.8	24.0	24.2	24.4	/	28.1	28.3	28.2	
		S/T	0.78	0.84	0.92	1.00	0.59	0.77	0.86	0.89	0.40	0.55	0.69	0.84	/	0.39	0.51	0.64	
		KW	2.28	2.31	2.33	2.33	2.33	2.36	2.38	2.41	2.41	2.44	2.46	2.48	/	2.87	2.87	2.87	
	125	TC	16.6	16.8	17.2	17.4	17.2	17.4	17.6	17.8	18.6	18.7	18.7	18.7	/	19.8	19.9	19.9	
		S/T	0.77	0.83	0.91	1.00	0.60	0.77	0.86	0.89	0.40	0.59	0.78	1.00	/	0.40	0.58	0.75	
		KW	1.87	1.90	1.92	1.92	1.92	1.94	1.96	1.98	2.02	2.02	2.02	2.02	/	2.02	2.02	2.02	
820 (Low Stage)	15	TC	24.4	24.7	25.2	25.5	25.2	25.5	25.8	26.1	27.0	27.2	27.5	27.7	/	33.4	33.7	34.0	
		S/T	0.81	0.87	0.95	1.00	0.61	0.79	0.89	0.92	0.40	0.56	0.71	0.87	/	0.39	0.52	0.64	
		KW	1.02	1.03	1.05	1.05	1.05	1.06	1.07	1.08	1.08	1.09	1.11	1.12	/	1.48	1.50	1.53	
	65	TC	24.7	25.0	25.5	25.8	25.5	25.8	26.1	26.4	27.3	27.5	27.8	28.0	/	33.7	34.0	34.3	
		S/T	0.81	0.87	0.95	1.00	0.61	0.79	0.89	0.92	0.40	0.56	0.71	0.87	/	0.39	0.52	0.64	
		KW	1.12	1.13	1.15	1.15	1.15	1.16	1.17	1.18	1.18	1.19	1.21	1.22	/	1.58	1.60	1.63	
	75	TC	24.5	24.8	25.4	25.6	25.4	25.6	25.9	26.2	27.1	27.3	27.6	27.8	/	33.7	34.0	34.3	
		S/T	0.81	0.87	0.95	1.00	0.61	0.78	0.89	0.92	0.40	0.56	0.71	0.87	/	0.39	0.52	0.64	
		KW	1.41	1.42	1.44	1.44	1.44	1.45	1.47	1.48	1.48	1.49	1.51	1.53	/	1.76	1.78	1.81	
	85	TC	24.5	24.8	25.3	25.6	25.3	25.6	25.9	26.1	27.1	27.3	27.5	27.8	/	33.3	33.6	33.8	
		S/T	0.81	0.87	0.95	1.00	0.61	0.78	0.89	0.92	0.40	0.56	0.72	0.87	/	0.39	0.52	0.65	
		KW	1.51	1.53	1.54	1.54	1.54	1.56	1.58	1.59	1.60	1.61	1.62	1.64	/	2.00	2.02	2.04	
	95	TC	24.3	24.6	25.1	25.4	25.1	25.4	25.7	25.9	26.8	27.1	27.3	27.5	/	32.8	33.1	33.3	
		S/T	0.81	0.87	0.95	1.00	0.61	0.78	0.89	0.92	0.40	0.56	0.71	0.88	/	0.39	0.52	0.65	
		KW	1.82	1.84	1.86	1.86	1.86	1.88	1.90	1.92	1.92	1.94	1.96	1.97	/	2.43	2.45	2.47	
	105	TC	24.0	24.3	24.8	25.1	24.8	25.1	25.4	25.7	26.6	26.8	27.0	27.2	/	32.3	32.5	32.7	
		S/T	0.81	0.87	0.95	1.00	0.61	0.79	0.89	0.92	0.40	0.56	0.72	0.88	/	0.39	0.52	0.66	
		KW	2.17	2.20	2.22	2.22	2.22	2.24	2.27	2.29	2.30	2.32	2.34	2.36	/	2.91	2.93	2.96	
	115	TC	23.7	24.0	24.5	24.8	24.5	24.8	25.0	25.3	26.2	26.4	26.6	26.8	/	29.3	28.8	29.0	
		S/T	0.81	0.87	0.95	1.00	0.61	0.79	0.89	0.92	0.40	0.56	0.73	0.89	/	0.39	0.54	0.69	
		KW	2.60	2.63	2.66	2.66	2.66	2.69	2.71	2.74	2.75	2.77	2.80	2.82	/	2.93	2.92	2.92	
	125	TC	16.9	17.1	17.5	17.7	17.5	17.7	17.9	18.1	19.0	19.0	19.0	19.1	/	20.2	20.2	20.3	
		S/T	0.81	0.87	0.95	1.00	0.61	0.79	0.89	0.92	0.40	0.64	0.88	1.00	/	0.41	0.63	0.85	
		KW	1.92	1.94	1.96	1.96	1.96	1.98	2.00	2.02	2.06	2.06	2.06	2.06	/	2.07	2.07	2.07	
1020	15	TC	29.0	29.3	29.9	30.3	29.9	30.3	30.6	30.9	31.9	32.3	32.6	32.9	/	39.4	39.8	40.1	
		S/T	0.88	0.92	1.00	1.00	0.63	0.83	0.95	1.00	0.39	0.57	0.74	0.91	/	0.39	0.53	0.66	
		KW	1.01	1.02	1.03	1.03	1.03	1.04	1.05	1.07	1.06	1.08	1.09	1.10	/	1.39	1.41	1.43	
	65	TC	29.4	29.7	30.3	30.7	30.3	30.7	31.0	31.3	32.4	32.7	33.0	33.2	/	39.5	39.8	40.1	
		S/T	0.88	0.92	1.00	1.00	0.61	0.83	0.95	1.00	0.39	0.57	0.73	0.90	/	0.39	0.53	0.67	
		KW	1.54	1.56	1.57	1.57	1.57	1.59	1.60	1.62	1.62	1.63	1.65	1.67	/	2.04	2.06	2.09	
	75	TC	29.4	29.8	30.4	30.7	30.4	30.7	31.1	31.4	32.5	32.8	33.1	33.3	/	39.1	39.4	39.7	
		S/T	0.89	0.93	0.99	1.00	0.62	0.83	0.95	1.00	0.39	0.56	0.73	0.90	/	0.39	0.53	0.67	
		KW	1.71	1.73	1.75	1.75	1.75	1.77	1.79	1.80	1.79	1.82	1.84	1.86	/	2.25	2.27	2.29	
	85	TC	29.0	29.3	29.9	30.3	29.9	30.3	30.6	30.9	32.0	32.3	32.6	32.8	/	38.4	38.7	38.9	
		S/T	0.89	0.93	1.00	1.00	0.62	0.84	0.95	1.00	0.39	0.57	0.74	0.91	/	0.39	0.53	0.67	
		KW	1.93	1.95	1.97	1.97	1.97	1.99	2.01	2.03	2.03	2.05	2.07	2.09	/	2.55	2.58	2.60	
	95	TC	28.5	28.8	29.4	29.8	29.4	29.8	30.1	30.4	31.5	31.8	32.0	32.3	/	37.5	37.8	38.0	
		S/T	0.89	0.93	1.00	1.00	0.62	0.84	0.95	1.00	0.39	0.57	0.74	0.92	/	0.39	0.53	0.68	
		KW	2.32	2.34	2.37	2.37	2.37	2.39	2.42	2.44	2.45	2.47	2.49	2.52	/	3.04	3.06	3.09	
	105	TC	27.9	28.3	28.9	29.2	28.9	29.2	29.5	29.8	30.9	31.2	31.4	31.6	/	36.2	36.3	36.5	
		S/T	0.88	0.92	1.00	1.00	0.62	0.84	0.95	1.00	0.39	0.57	0.75	0.93	/	0.39	0.54	0.69	
		KW	2.76	2.79	2.82	2.82	2.82	2.85	2.88	2.91	2.91	2.94	2.96	2.99	/	3.52	3.53	3.54	
	115	TC	25.0	25.3	25.9	26.1	25.9	26.1	26.4	26.7	27.8	28.0	28.1	28.3	/	30.1	30.3	30.4	
		S/T	0.89	0.93	1.00	1.00	0.62	0.85	0.95	1.00	0.40	0.60	0.79	0.99	/	0.39	0.58	0.76	
		KW	2.81	2.84	2.87	2.87	2.87	2.91	2.94	2.97	2.99	3.01							

BOVA 36 + BVA 36 For Cooling																		
Indoor Airflow (CFM)	Outdoor DB (°F)	IWB (°F)	59				63				67				71			
		IDB (°F)	70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
1150 (High Stage)	15	TC	31.3	31.6	32.3	32.7	32.3	32.7	33.0	33.4	34.5	34.8	35.2	35.5	/	42.8	43.1	43.5
		S/T	0.89	0.94	1.00	1.00	0.64	0.86	0.96	1.00	0.39	0.58	0.76	0.94	/	0.38	0.54	0.68
		KW	1.16	1.18	1.19	1.19	1.19	1.20	1.21	1.23	1.22	1.24	1.25	1.27	/	1.64	1.66	1.68
	65	TC	31.6	31.9	32.7	33.0	32.7	33.0	33.4	33.7	35.0	35.2	35.5	35.8	/	42.2	42.5	42.8
		S/T	0.89	0.94	1.00	1.00	0.63	0.86	0.96	1.00	0.39	0.58	0.76	0.94	/	0.39	0.54	0.69
		KW	1.80	1.82	1.84	1.84	1.84	1.86	1.88	1.90	1.89	1.92	1.94	1.96	/	2.34	2.37	2.39
	75	TC	31.6	32.0	32.7	33.0	32.7	33.0	33.4	33.8	35.0	35.3	35.5	35.8	/	41.9	42.2	42.5
		S/T	0.90	0.94	1.00	1.00	0.62	0.85	0.96	1.00	0.39	0.58	0.76	0.94	/	0.39	0.54	0.69
		KW	1.97	1.99	2.01	2.01	2.01	2.03	2.05	2.07	2.07	2.09	2.12	2.14	/	2.46	2.49	2.51
	85	TC	31.1	31.4	32.1	32.5	32.1	32.5	32.8	33.2	34.4	34.7	34.9	35.2	/	40.8	41.1	41.4
		S/T	0.90	0.94	1.00	1.00	0.63	0.86	0.96	1.00	0.39	0.58	0.76	0.95	/	0.39	0.54	0.70
		KW	2.17	2.19	2.22	2.22	2.22	2.24	2.26	2.29	2.29	2.31	2.33	2.36	/	2.84	2.86	2.89
	95	TC	30.7	31.1	31.8	32.1	31.8	32.1	32.4	32.8	33.7	34.2	34.5	34.7	/	39.8	40.0	40.2
		S/T	0.90	0.94	0.99	1.00	0.63	0.87	0.96	1.00	0.39	0.58	0.76	1.00	/	0.39	0.55	0.71
		KW	2.58	2.61	2.64	2.64	2.64	2.66	2.69	2.72	2.73	2.75	2.78	2.80	/	3.34	3.37	3.39
	105	TC	29.9	30.3	31.0	31.3	31.0	31.3	31.6	32.0	33.0	33.4	33.6	33.9	/	36.9	36.9	37.1
		S/T	0.89	0.94	0.99	1.00	0.63	0.87	0.96	1.00	0.39	0.59	0.78	1.00	/	0.39	0.57	0.74
		KW	3.05	3.08	3.11	3.11	3.11	3.15	3.18	3.21	3.22	3.25	3.28	3.30	/	3.61	3.59	3.61
	115	TC	24.8	25.1	25.6	25.9	25.6	25.9	26.2	26.5	28.2	28.3	27.9	28.0	/	29.1	29.2	29.3
		S/T	0.90	0.94	1.00	1.00	0.64	0.88	0.96	1.00	0.40	0.62	0.86	1.00	/	0.40	0.62	0.84
		KW	2.86	2.89	2.92	2.92	2.92	2.95	2.98	3.01	3.06	3.08	3.07	3.09	/	3.12	3.13	3.14
	125	TC	17.2	17.4	17.8	18.0	17.8	18.0	18.2	18.4	19.3	19.3	19.3	19.4	/	20.6	20.6	20.6
		S/T	0.89	0.94	0.99	1.00	0.75	1.00	0.96	0.99	0.41	0.75	1.00	1.00	/	0.43	0.74	1.00
		KW	2.03	2.05	2.07	2.07	2.07	2.09	2.11	2.14	2.18	2.18	2.18	2.18	/	2.18	2.18	2.18
1350	15	TC	34.2	34.6	35.4	35.8	35.4	35.8	36.2	36.5	37.8	38.1	38.5	38.8	/	45.0	45.3	45.7
		S/T	0.89	0.93	1.00	1.00	0.64	0.89	1.00	1.00	0.39	0.58	0.78	1.00	/	0.38	0.54	0.70
		KW	1.41	1.43	1.45	1.45	1.45	1.46	1.48	1.49	1.49	1.50	1.52	1.54	/	2.01	2.03	2.06
	65	TC	33.6	34.0	34.7	35.1	34.7	35.1	35.5	35.9	37.2	37.5	37.7	38.0	/	44.5	44.8	45.5
		S/T	0.89	0.93	1.00	1.00	0.64	0.88	0.96	1.00	0.39	0.59	0.78	0.99	/	0.38	0.55	0.71
		KW	2.11	2.13	2.15	2.15	2.15	2.18	2.20	2.22	2.22	2.24	2.27	2.29	/	2.68	2.70	2.56
	75	TC	33.7	34.1	34.9	35.2	34.9	35.2	35.6	36.0	37.4	37.6	37.9	38.2	/	45.6	45.8	45.9
		S/T	0.89	0.94	1.00	1.00	0.63	0.88	0.96	1.00	0.39	0.59	0.78	1.00	/	0.38	0.55	0.71
		KW	2.17	2.19	2.22	2.22	2.22	2.24	2.26	2.29	2.29	2.31	2.33	2.36	/	2.95	2.96	2.96
	85	TC	33.0	33.4	34.1	34.5	34.1	34.5	34.8	35.2	36.6	36.8	37.1	37.3	/	43.0	43.2	43.5
		S/T	0.89	0.94	1.00	1.00	0.64	0.89	0.96	1.00	0.39	0.59	0.79	1.00	/	0.39	0.56	0.73
		KW	2.45	2.47	2.50	2.50	2.50	2.53	2.55	2.58	2.59	2.61	2.63	2.65	/	3.15	3.18	3.20
	95	TC	32.2	32.5	33.2	33.6	33.2	33.6	34.0	34.3	35.7	35.9	36.1	36.4	/	40.9	41.1	41.1
		S/T	0.90	0.94	1.00	1.00	0.64	0.90	0.96	1.00	0.39	0.60	0.80	1.00	/	0.39	0.57	0.75
		KW	2.88	2.91	2.94	2.94	2.94	2.97	3.00	3.03	3.05	3.07	3.09	3.11	/	3.56	3.57	3.57
	105	TC	31.3	31.6	32.3	32.7	32.3	32.7	33.0	33.4	34.7	34.9	35.1	35.4	/	37.4	37.6	37.4
		S/T	0.90	0.94	1.00	1.00	0.65	0.90	0.96	1.00	0.39	0.60	0.81	1.00	/	0.39	0.59	0.79
		KW	3.36	3.39	3.43	3.43	3.43	3.47	3.50	3.54	3.56	3.59	3.61	3.64	/	3.74	3.76	3.70
	115	TC	25.0	25.2	25.8	26.1	25.8	26.1	26.4	26.6	27.8	27.9	28.0	28.2	/	29.8	29.9	30.0
		S/T	0.90	0.94	1.00	1.00	0.66	1.00	0.96	1.00	0.40	0.66	0.93	1.00	/	0.40	0.65	0.90
		KW	2.97	3.00	3.04	3.04	3.04	3.07	3.10	3.13	3.17	3.18	3.20	3.21	/	3.31	3.32	3.33
	125	TC	17.2	17.4	17.8	18.0	17.8	18.0	18.2	18.4	19.3	19.3	19.4	19.4	/	20.6	20.6	20.6
		S/T	0.89	0.94	1.00	1.00	0.79	1.00	0.96	1.00	0.41	0.80	1.00	1.00	/	0.43	0.80	0.99
		KW	2.11	2.14	2.16	2.16	2.16	2.18	2.20	2.23	2.27	2.27	2.27	2.27	/	2.28	2.28	2.28

Table 5

TC refer to total capacity S/T: refer to the ratio of sensible heat and total capacity kW: refer to total input power

BOVA 60 +BVA 48 For Cooling																			
Indoor Airflow (CFM)	Outdoor DB (°F)	IWB (°F)	IDB (°F)	59				63				67				71			
				70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
1180 (Low Stage)	15	TC	39.0	39.4	40.3	40.7	40.3	40.7	41.2	41.6	43.0	43.4	43.8	44.1	/	52.2	52.6	53.6	
		S/T	0.84	0.89	0.96	1.00	0.59	0.79	0.91	0.95	0.40	0.55	0.69	0.84	/	0.39	0.51	0.63	
		kW	1.25	1.27	1.29	1.29	1.29	1.31	1.33	1.35	1.34	1.36	1.39	1.40	/	1.97	2.00	1.79	
	65	TC	38.9	39.3	40.2	40.6	40.2	40.6	41.1	41.5	42.9	43.3	43.7	44.0	/	52.1	52.5	53.5	
		S/T	0.84	0.89	0.96	1.00	0.59	0.79	0.91	0.95	0.40	0.55	0.69	0.84	/	0.39	0.51	0.63	
		kW	1.85	1.87	1.89	1.89	1.89	1.91	1.93	1.95	1.94	1.96	1.99	2.00	/	2.57	2.60	2.39	
	75	TC	38.6	39.1	39.9	40.4	39.9	40.4	40.8	41.2	42.6	43.0	43.4	43.8	/	51.6	52.2	52.6	
		S/T	0.84	0.89	0.96	1.00	0.59	0.79	0.91	0.95	0.40	0.55	0.69	0.84	/	0.39	0.51	0.63	
		kW	2.09	2.11	2.13	2.13	2.13	2.16	2.18	2.20	2.20	2.22	2.25	2.27	/	2.69	2.60	2.62	
	85	TC	38.2	38.6	39.5	39.9	39.5	39.9	40.3	40.7	42.6	42.8	42.9	43.3	/	51.0	51.4	51.8	
		S/T	0.84	0.89	0.96	1.00	0.59	0.79	0.91	0.95	0.40	0.55	0.70	0.85	/	0.39	0.51	0.63	
		kW	2.22	2.25	2.27	2.27	2.27	2.29	2.32	2.34	2.38	2.39	2.39	2.41	/	2.94	2.96	2.99	
	95	TC	37.8	38.2	39.1	39.5	39.1	39.5	39.9	40.4	41.7	42.2	42.5	42.8	/	50.2	50.6	50.9	
		S/T	0.84	0.89	0.96	1.00	0.60	0.79	0.91	0.95	0.40	0.55	0.70	0.85	/	0.39	0.51	0.64	
		kW	2.69	2.72	2.75	2.75	2.75	2.78	2.81	2.84	2.84	2.87	2.89	2.92	/	3.52	3.55	3.58	
	105	TC	37.4	37.8	38.6	39.0	38.6	39.0	39.5	39.9	41.3	41.6	42.0	42.3	/	49.3	49.6	49.9	
		S/T	0.84	0.89	0.96	1.00	0.60	0.79	0.91	0.95	0.39	0.55	0.70	0.86	/	0.39	0.51	0.64	
		kW	3.22	3.26	3.29	3.29	3.29	3.32	3.36	3.39	3.41	3.44	3.46	3.49	/	4.19	4.23	4.26	
	115	TC	36.8	37.2	38.1	38.5	38.1	38.5	38.9	39.3	40.7	41.0	41.4	41.7	/	44.9	45.1	45.4	
		S/T	0.84	0.89	0.96	1.00	0.60	0.80	0.91	0.95	0.40	0.55	0.71	0.86	/	0.39	0.53	0.67	
		kW	3.84	3.88	3.92	3.92	3.92	3.96	4.00	4.04	4.05	4.08	4.13	4.16	/	4.34	4.35	4.35	
	125	TC	29.5	29.9	30.5	30.8	30.5	30.8	31.2	31.5	33.0	33.1	33.2	33.2	/	35.1	35.2	35.3	
		S/T	0.86	0.91	0.98	1.00	0.60	0.81	0.92	0.96	0.40	0.59	0.79	1.00	/	0.39	0.58	0.76	
		kW	3.13	3.16	3.19	3.19	3.19	3.23	3.26	3.29	3.36	3.36	3.36	3.36	/	3.38	3.38	3.39	
1330	15	TC	40.9	41.4	42.3	42.8	42.3	42.8	43.2	43.7	45.1	45.6	46.0	46.4	/	55.3	55.7	56.2	
		S/T	0.89	0.93	1.00	1.00	0.61	0.82	0.95	1.00	0.39	0.55	0.71	0.87	/	0.38	0.52	0.64	
		kW	1.33	1.35	1.36	1.36	1.36	1.38	1.39	1.41	1.38	1.40	1.43	1.46	/	1.74	1.75	1.77	
	65	TC	40.6	41.0	41.9	42.4	41.9	42.4	42.9	43.3	45.3	45.4	45.6	46.0	/	55.3	55.7	56.2	
		S/T	0.89	0.93	1.00	1.00	0.60	0.81	0.95	1.00	0.39	0.55	0.71	0.87	/	0.38	0.52	0.64	
		kW	2.01	2.03	2.05	2.05	2.05	2.07	2.09	2.11	2.14	2.15	2.16	2.19	/	2.58	2.61	2.64	
	75	TC	40.8	41.2	42.1	42.6	42.1	42.6	43.1	43.5	45.0	45.4	45.8	46.2	/	55.0	55.4	55.8	
		S/T	0.89	0.93	1.00	1.00	0.60	0.81	0.95	1.00	0.39	0.55	0.71	0.87	/	0.38	0.52	0.65	
		kW	2.17	2.19	2.22	2.22	2.22	2.24	2.26	2.29	2.28	2.31	2.33	2.36	/	2.80	2.83	2.86	
	85	TC	40.2	40.7	41.6	42.0	41.6	42.0	42.5	42.9	44.4	44.8	45.2	45.6	/	54.1	54.5	54.9	
		S/T	0.89	0.93	1.00	1.00	0.60	0.81	0.95	1.00	0.39	0.56	0.72	0.88	/	0.38	0.52	0.65	
		kW	2.41	2.44	2.46	2.46	2.46	2.49	2.52	2.54	2.55	2.57	2.59	2.62	/	3.16	3.19	3.22	
	95	TC	39.7	40.2	41.1	41.5	41.1	41.5	42.0	42.4	43.9	44.3	44.6	45.0	/	53.0	53.4	53.8	
		S/T	0.89	0.93	1.00	1.00	0.61	0.81	0.95	1.00	0.39	0.56	0.72	0.88	/	0.38	0.52	0.66	
		kW	2.90	2.93	2.96	2.96	2.96	2.99	3.02	3.05	3.06	3.09	3.12	3.14	/	3.77	3.80	3.83	
	105	TC	39.1	39.6	40.5	40.9	40.5	40.9	41.3	41.8	43.3	43.6	44.0	44.3	/	51.9	52.3	52.6	
		S/T	0.89	0.93	1.00	1.00	0.61	0.82	0.95	1.00	0.39	0.56	0.73	0.89	/	0.38	0.52	0.66	
		kW	3.45	3.49	3.53	3.53	3.53	3.57	3.60	3.64	3.65	3.68	3.71	3.74	/	4.48	4.52	4.55	
	115	TC	38.3	38.8	39.6	40.0	39.6	40.0	40.5	40.9	42.6	42.9	43.1	43.0	/	45.3	45.5	45.7	
		S/T	0.89	0.93	1.00	1.00	0.61	0.83	0.95	1.00	0.39	0.56	0.73	0.90	/	0.39	0.55	0.71	
		kW	4.07	4.11	4.15	4.15	4.15	4.20	4.24	4.28	4.33	4.36	4.37	4.36	/	4.39	4.41	4.43	
	125	TC	29.7	30.0	30.7	31.1	30.7	31.1	31.4	31.7	33.3	33.3	33.4	33.5	/	35.4	35.5	35.5	
		S/T	0.90	0.94	1.00	1.00	0.63	0.86	0.96	1.00	0.40	0.62	0.83	1.00	/	0.40	0.60	0.81	
		kW	3.18	3.21	3.25	3.25	3.25	3.28	3.31	3.35	3.42	3.42	3.42	3.42	/	3.44	3.44	3.44	
1530 (High Stage)	15	TC	43.8	44.3	45.3	45.8	45.3	45.8	46.3	46.8	48.3	48.8	49.2	49.7	/	58.7	59.2	59.6	
		S/T	0.90	0.94	1.00	1.00	0.62	0.84	0.96	1.00	0.39	0.56	0.73	0.90	/	0.38	0.53	0.67	
		kW	1.65	1.67	1.68	1.68	1.68	1.70	1.72	1.74	1.70	1.74	1.77	1.80	/	2.14	2.16	2.18	
	65	TC	43.2	43.7	44.6	45.1	44.6	45.1	45.6	46.1	47.7	48.1	48.5	48.9	/	58.5	58.9	59.4	
		S/T	0.90	0.94	1.00	1.00	0.61	0.84	0.96	1.00	0.39	0.57	0.74	0.91	/	0.38	0.53	0.67	
		kW	2.30	2.33	2.35	2.35	2.35	2.37	2.40	2.42	2.41	2.44	2.47	2.50	/	2.92	2.95	2.98	
	75	TC	43.4	43.9	44.8	45.3	44.8	45.3	45.8	46.3	47.9	48.3	48.7	49.1	/	58.1	58.5	58.9	
		S/T	0.90	0.94	1.00	1.00	0.62	0.84	0.96	1.00	0.39	0.57	0.74	0.91	/	0.38	0.53	0.67	
		kW	2.44	2.47	2.50	2.50	2.50	2.52	2.55	2.58	2.57	2.60	2.63	2.65	/	3.11	3.13	3.16	
	85	TC	42.7	43.2	44.2	44.7	44.2	44.7	45.1	45.6	47.2	47.7	48.0	48.4	/	57.0	57.5	57.9	
		S/T	0.90	0.94	1.00	1.00	0.62	0.84	0.96	1.00	0.39	0.57	0.74	0.91	/	0.38	0.53	0.67	
		kW	2.67	2.70	2.73	2.73	2.73	2.76	2.78	2.81	2.82	2.85	2.87	2.90	/	3.47	3.50	3.52	
	95	TC	42.2	42.7	43.7	44.1	43.7	44.1	44.6	45.1	46.6	47.0	47.5	47.8	/	55.8	56.2	56.6	
		S/T	0.90	0.94	1.00	1.00	0.62	0.84	0.96	1.00	0.39	0.57	0.75	0.92	/	0.38	0.53	0.68	
		kW	3.18	3.21	3.25	3.25	3.25	3.28	3.32	3.35	3.37	3.39	3.42	3.45	/	4.12	4.16	4.19	
	105	TC	41.4	41.9	42.8	43.3	42.8	43.3	43.7	44.2	45.7	46.2	46.5	46.9	/	54.5	54.8	55.1	
		S/T	0.90	0.94	1.00	1.00	0.62	0.85	0.96	1.00	0.39	0.57	0.75	0.93	/	0.38	0.54	0.69	
		kW	3.77	3.81	3.85	3.85	3.85	3.89	3.93	3.97	3.98	4.02	4.05	4.08	/	4.87	4.90	4.93	
	115	TC	38.9	39.3	40.2	40.6	40.2	40.6	41.1	41.5	43.3	43.4	43.7	43.4	/	46.7	46.9	47.1	
		S/T	0.90	0.94	1.00	1.00	0.62	0.86	0.96	1.00	0.39	0.59	0.78	1.00	/	0.39	0.57	0.75	
		kW	4.19	4.23	4.28	4.28	4.28	4.32	4.37	4.41	4.49	4.							

BOVA 60 +BVA 48 For Cooling																		
Indoor Airflow (CFM)	Outdoor DB (°F)	IWB (°F)	59				63				67				71			
		IDB (°F)	70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
1760	15	TC	46.4	47.0	48.0	48.5	48.0	48.5	49.0	49.6	51.3	51.7	52.2	52.6	/	61.7	62.2	62.6
		S/T	0.90	0.94	1.00	1.00	0.63	0.87	0.96	1.00	0.39	0.57	0.75	0.93	/	0.38	0.53	0.69
		KW	2.01	2.03	2.05	2.05	2.05	2.07	2.09	2.11	2.08	2.12	2.16	2.20	/	2.61	2.63	2.66
	65	TC	45.5	46.0	47.0	47.5	47.0	47.5	48.0	48.5	50.4	50.7	51.1	52.3	/	61.3	61.7	62.7
		S/T	0.90	0.94	1.00	1.00	0.62	0.86	0.96	1.00	0.39	0.58	0.76	0.94	/	0.38	0.54	0.69
		KW	2.62	2.65	2.68	2.68	2.68	2.70	2.73	2.76	2.76	2.79	2.82	2.62	/	3.27	3.30	3.08
	75	TC	45.9	46.4	47.4	47.9	47.4	47.9	48.4	49.0	50.5	50.9	51.5	51.9	/	61.2	61.6	62.0
		S/T	0.90	0.94	1.00	1.00	0.63	0.86	0.96	1.00	0.39	0.58	0.76	0.94	/	0.38	0.54	0.69
		KW	2.62	2.65	2.68	2.68	2.68	2.71	2.74	2.76	2.89	2.92	2.82	2.85	/	3.32	3.34	3.37
	85	TC	45.0	45.5	46.5	47.0	46.5	47.0	47.5	48.0	49.8	50.2	50.5	50.9	/	59.7	60.1	60.5
		S/T	0.90	0.94	1.00	1.00	0.63	0.86	0.96	1.00	0.39	0.58	0.77	0.95	/	0.38	0.54	0.70
		KW	2.95	2.98	3.01	3.01	3.01	3.04	3.07	3.11	3.12	3.15	3.17	3.20	/	3.80	3.84	3.87
	95	TC	44.1	44.6	45.6	46.1	45.6	46.1	46.6	47.1	48.9	49.2	49.6	50.0	/	58.2	58.6	59.0
		S/T	0.90	0.94	1.00	1.00	0.63	0.87	0.96	1.00	0.39	0.58	0.77	1.00	/	0.38	0.55	0.71
		KW	3.48	3.52	3.56	3.56	3.56	3.59	3.63	3.67	3.69	3.72	3.74	3.78	/	4.49	4.53	4.56
	105	TC	43.2	43.7	44.7	45.1	44.7	45.1	45.6	46.1	47.9	48.2	48.5	48.9	/	56.5	56.5	56.7
		S/T	0.90	0.94	1.00	1.00	0.63	0.88	0.96	1.00	0.39	0.59	0.78	1.00	/	0.38	0.55	0.72
		KW	4.09	4.14	4.18	4.18	4.18	4.22	4.27	4.31	4.33	4.37	4.40	4.43	/	5.24	5.24	5.25
	115	TC	38.9	39.3	40.2	40.6	40.2	40.6	41.1	41.5	43.3	43.5	43.7	43.9	/	47.8	44.3	44.5
		S/T	0.90	0.94	1.00	1.00	0.64	0.89	0.96	1.00	0.39	0.61	0.83	1.00	/	0.39	0.61	0.82
		KW	4.26	4.31	4.35	4.35	4.35	4.40	4.45	4.49	4.61	4.63	4.58	4.60	/	3.61	3.61	3.62
	125	TC	29.9	30.2	30.9	31.3	30.9	31.3	31.6	31.9	33.5	33.6	33.6	33.7	/	35.7	35.8	35.8
		S/T	0.92	0.97	1.00	1.00	0.68	1.00	0.96	1.00	0.40	0.68	1.00	1.00	/	0.41	0.67	1.00
		KW	3.37	3.41	3.44	3.44	3.44	3.48	3.51	3.55	3.62	3.62	3.62	3.62	/	3.64	3.65	3.65
1900	15	TC	47.9	48.5	49.5	50.1	49.5	50.1	50.6	51.2	53.1	53.5	53.8	54.3	/	64.0	64.4	64.8
		S/T	0.91	0.96	1.00	1.00	0.64	0.88	0.96	1.00	0.39	0.58	0.78	0.99	/	0.38	0.54	0.71
		KW	2.59	2.62	2.65	2.65	2.65	2.68	2.70	2.73	2.74	2.77	2.79	2.82	/	3.23	3.26	3.29
	65	TC	47.9	48.5	49.5	50.1	49.5	50.1	50.6	51.2	53.1	53.5	53.8	54.3	/	64.0	64.4	64.8
		S/T	0.91	0.96	1.00	1.00	0.64	0.88	0.96	1.00	0.39	0.58	0.78	0.99	/	0.38	0.54	0.71
		KW	2.59	2.62	2.65	2.65	2.65	2.68	2.70	2.73	2.74	2.77	2.79	2.82	/	3.23	3.26	3.29
	75	TC	47.5	48.1	49.1	49.7	49.1	49.7	50.2	50.7	52.6	53.0	53.4	53.8	/	63.2	63.6	64.0
		S/T	0.92	0.97	0.99	1.00	0.64	0.89	0.96	1.00	0.39	0.59	0.78	0.99	/	0.38	0.55	0.71
		KW	2.79	2.82	2.85	2.85	2.85	2.88	2.91	2.94	2.95	2.98	3.00	3.03	/	3.52	3.55	3.58
	85	TC	46.7	47.2	48.2	48.8	48.2	48.8	49.3	49.8	51.6	52.0	52.4	52.8	/	61.6	62.0	62.4
		S/T	0.92	0.97	1.00	1.00	0.64	0.89	0.96	1.00	0.39	0.59	0.79	1.00	/	0.38	0.55	0.72
		KW	3.13	3.16	3.20	3.20	3.20	3.23	3.26	3.30	3.31	3.33	3.36	3.39	/	4.02	4.05	4.08
	95	TC	45.6	46.1	47.2	47.7	47.2	47.7	48.2	48.7	50.6	50.9	51.3	51.7	/	60.0	60.3	60.7
		S/T	0.91	0.97	1.00	1.00	0.64	0.90	0.96	1.00	0.39	0.59	0.80	1.00	/	0.38	0.56	0.73
		KW	3.67	3.71	3.75	3.75	3.75	3.79	3.83	3.87	3.89	3.92	3.95	3.98	/	4.72	4.76	4.79
	105	TC	44.6	45.1	46.1	46.6	46.1	46.6	47.1	47.6	49.4	49.7	50.1	50.4	/	57.2	57.5	57.3
		S/T	0.92	0.97	1.00	1.00	0.65	0.91	0.96	1.00	0.39	0.60	0.81	1.00	/	0.39	0.57	0.75
		KW	4.30	4.35	4.39	4.39	4.39	4.44	4.49	4.53	4.55	4.58	4.62	4.66	/	5.32	5.32	5.32
	115	TC	39.7	40.1	41.0	41.5	41.0	41.5	41.9	42.4	44.2	44.4	44.6	44.8	/	45.1	45.3	45.4
		S/T	0.91	0.97	1.00	1.00	0.65	0.92	0.96	1.00	0.39	0.63	0.86	1.00	/	0.39	0.61	0.82
		KW	4.33	4.38	4.43	4.43	4.43	4.47	4.52	4.57	4.65	4.66	4.66	4.66	/	4.70	4.70	4.71
	125	TC	30.0	30.3	31.0	31.3	31.0	31.3	31.7	32.0	33.6	33.7	33.7	33.8	/	35.9	35.9	36.0
		S/T	0.93	0.98	0.99	1.00	0.71	1.00	0.96	1.00	0.40	0.71	1.00	1.00	/	0.41	0.70	0.99
		KW	3.43	3.47	3.51	3.51	3.51	3.51	3.54	3.58	3.62	3.69	3.69	3.69	/	3.71	3.71	3.71

Table 7

TC refer to total capacity S/T: refer to the ratio of sensible heat and total capacity kW: refer to total input power

BOVA 60 +BVA 60 For Cooling																			
Indoor Airflow (CFM)	Outdoor DB (°F)	IWB (°F)	IDB (°F)	59				63				67				71			
				70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
1160	15	TC	39.1	39.6	40.4	40.9	40.4	40.9	41.3	41.8	43.2	43.6	44.0	44.4	/	51.9	52.3	53.3	
		S/T	0.65	0.70	0.78	1.00	0.59	0.77	0.81	0.86	0.40	0.54	0.68	0.83	/	0.38	0.51	0.62	
		kW	1.54	1.56	1.57	1.57	1.57	1.59	1.61	1.62	1.61	1.64	1.66	1.68	/	2.24	2.27	2.06	
	65	TC	39.2	39.6	40.5	41.0	40.5	41.0	41.4	41.8	43.3	43.7	44.1	44.5	/	52.0	52.4	53.4	
		S/T	0.77	0.82	0.90	1.00	0.59	0.77	0.88	0.93	0.40	0.54	0.68	0.83	/	0.38	0.51	0.62	
		kW	1.91	1.94	1.96	1.96	1.96	1.98	2.00	2.02	2.01	2.04	2.06	2.08	/	2.64	2.67	2.46	
	75	TC	39.0	39.4	40.3	40.7	40.3	40.7	41.2	41.6	43.0	43.4	43.8	44.2	/	52.3	52.7	53.2	
		S/T	0.77	0.82	0.90	1.00	0.59	0.77	0.89	0.94	0.40	0.54	0.69	0.83	/	0.38	0.51	0.62	
		kW	2.18	2.20	2.22	2.22	2.22	2.25	2.27	2.29	2.29	2.31	2.34	2.37	/	2.64	2.67	2.69	
	85	TC	38.6	39.0	39.9	40.3	39.9	40.3	40.7	41.2	42.6	43.0	43.3	43.8	/	51.5	51.9	52.3	
		S/T	0.77	0.82	0.90	1.00	0.59	0.77	0.89	0.94	0.40	0.54	0.69	0.83	/	0.38	0.51	0.63	
		kW	2.31	2.33	2.36	2.36	2.36	2.38	2.41	2.43	2.44	2.46	2.48	2.51	/	3.01	3.04	3.06	
	95	TC	38.2	38.6	39.5	39.9	39.5	39.9	40.4	40.8	42.2	42.6	42.9	43.3	/	50.7	51.1	51.5	
		S/T	0.78	0.83	0.91	1.00	0.59	0.77	0.89	0.94	0.39	0.54	0.69	0.84	/	0.38	0.51	0.63	
		kW	2.79	2.82	2.85	2.85	2.85	2.88	2.91	2.94	2.94	2.97	3.00	3.02	/	3.61	3.64	3.67	
	105	TC	37.7	38.1	39.0	39.4	39.0	39.4	39.8	40.2	41.7	42.0	42.3	42.7	/	49.8	50.2	50.5	
		S/T	0.78	0.83	0.91	1.00	0.59	0.78	0.89	0.94	0.39	0.55	0.70	0.84	/	0.38	0.51	0.64	
		kW	3.33	3.36	3.40	3.40	3.40	3.43	3.47	3.50	3.52	3.55	3.58	3.61	/	4.29	4.32	4.36	
	115	TC	37.2	37.6	38.4	38.8	38.4	38.8	39.3	39.7	41.1	41.4	41.8	42.1	/	45.5	45.7	46.0	
		S/T	0.78	0.83	0.91	1.00	0.59	0.78	0.93	0.98	0.39	0.55	0.70	0.85	/	0.39	0.52	0.66	
		kW	3.96	4.00	4.04	4.04	4.04	4.09	4.13	4.17	4.18	4.22	4.26	4.29	/	4.35	4.36	4.36	
	125	TC	29.2	29.5	30.2	30.5	30.2	30.5	30.8	31.2	32.7	32.8	32.8	32.9	/	34.8	34.8	34.9	
		S/T	0.79	0.84	0.92	1.00	0.60	0.81	0.93	0.98	0.40	0.59	0.78	1.00	/	0.39	0.58	0.76	
		kW	3.13	3.16	3.19	3.19	3.19	3.23	3.26	3.30	3.36	3.36	3.36	3.36	/	3.39	3.39	3.39	
1320 (Low Stage)	15	TC	41.6	42.1	43.0	43.5	43.0	43.5	43.9	44.4	46.0	46.4	46.8	47.2	/	56.0	56.5	56.9	
		S/T	0.69	0.74	0.82	1.00	0.59	0.79	0.81	0.86	0.39	0.55	0.70	0.85	/	0.38	0.51	0.64	
		kW	1.68	1.70	1.71	1.71	1.71	1.73	1.75	1.77	1.76	1.78	1.81	1.84	/	2.22	2.25	2.28	
	65	TC	41.8	42.3	43.2	43.7	43.2	43.7	44.2	44.7	46.2	46.6	47.0	47.4	/	56.2	56.7	57.1	
		S/T	0.81	0.86	0.94	1.00	0.59	0.79	0.90	0.95	0.39	0.55	0.70	0.85	/	0.38	0.51	0.64	
		kW	2.15	2.18	2.20	2.20	2.20	2.22	2.24	2.27	2.26	2.28	2.31	2.34	/	2.72	2.75	2.78	
	75	TC	41.9	42.4	43.4	43.8	43.4	43.8	44.3	44.8	46.3	46.7	47.1	47.5	/	55.8	56.3	56.7	
		S/T	0.80	0.85	0.93	1.00	0.59	0.79	0.90	0.95	0.39	0.55	0.70	0.85	/	0.38	0.51	0.64	
		kW	2.31	2.33	2.36	2.36	2.36	2.38	2.41	2.43	2.43	2.45	2.48	2.51	/	2.93	2.96	2.99	
	85	TC	41.4	41.9	42.8	43.3	42.8	43.3	43.8	44.2	45.8	46.2	46.6	46.9	/	55.0	55.4	55.8	
		S/T	0.80	0.85	0.93	1.00	0.59	0.79	0.90	0.95	0.39	0.55	0.71	0.86	/	0.38	0.51	0.64	
		kW	2.55	2.58	2.61	2.61	2.61	2.63	2.66	2.69	2.70	2.72	2.74	2.77	/	3.30	3.33	3.36	
	95	TC	40.9	41.4	42.3	42.7	42.3	42.7	43.2	43.7	45.2	45.5	46.0	46.3	/	53.9	54.3	54.7	
		S/T	0.80	0.85	0.93	1.00	0.59	0.79	0.90	0.95	0.39	0.55	0.70	0.86	/	0.38	0.52	0.65	
		kW	3.06	3.09	3.13	3.13	3.13	3.16	3.19	3.23	3.23	3.26	3.29	3.32	/	3.93	3.97	4.00	
	105	TC	40.2	40.7	41.6	42.0	41.6	42.0	42.5	42.9	44.5	44.9	45.2	45.5	/	52.8	53.1	53.4	
		S/T	0.80	0.85	0.93	1.00	0.60	0.80	0.90	0.95	0.39	0.56	0.71	0.87	/	0.38	0.52	0.66	
		kW	3.63	3.67	3.71	3.71	3.71	3.75	3.79	3.83	3.84	3.88	3.91	3.94	/	4.67	4.71	4.74	
	115	TC	38.3	38.7	39.6	40.0	39.6	40.0	40.5	40.9	42.6	42.9	43.0	42.8	/	45.8	46.0	46.2	
		S/T	0.81	0.86	0.94	1.00	0.60	0.80	0.90	0.95	0.39	0.56	0.73	0.90	/	0.39	0.54	0.70	
		kW	4.06	4.10	4.15	4.15	4.15	4.19	4.24	4.28	4.36	4.37	4.37	4.36	/	4.41	4.41	4.41	
	125	TC	29.5	29.9	30.5	30.9	30.5	30.9	31.2	31.5	33.1	33.1	33.2	33.3	/	35.2	35.3	35.3	
		S/T	0.83	0.88	0.96	1.00	0.62	0.86	0.91	0.96	0.40	0.61	0.83	1.00	/	0.40	0.60	0.81	
		kW	3.18	3.21	3.25	3.25	3.25	3.28	3.32	3.35	3.42	3.42	3.42	3.42	/	3.44	3.44	3.44	
1520	15	TC	45.9	46.4	47.4	47.9	47.4	47.9	48.5	49.0	50.7	51.2	51.6	52.0	/	60.6	61.1	61.5	
		S/T	0.72	0.77	0.85	1.00	0.60	0.81	0.86	0.91	0.39	0.55	0.72	0.87	/	0.38	0.52	0.65	
		kW	1.87	1.89	1.91	1.91	1.91	1.93	1.95	1.97	1.94	1.98	2.02	2.06	/	2.44	2.47	2.49	
	65	TC	48.0	48.5	49.6	50.1	49.6	50.1	50.7	51.2	53.1	53.5	53.9	54.3	/	62.9	63.4	63.8	
		S/T	0.85	0.90	0.98	1.00	0.60	0.80	0.93	0.98	0.39	0.55	0.70	0.85	/	0.38	0.51	0.64	
		kW	2.55	2.57	2.60	2.60	2.60	2.63	2.66	2.68	2.68	2.71	2.74	2.77	/	3.13	3.17	3.20	
	75	TC	47.6	48.2	49.2	49.8	49.2	49.8	50.3	50.8	52.7	53.2	53.5	53.9	/	62.3	62.7	63.1	
		S/T	0.85	0.90	0.98	1.00	0.60	0.80	0.93	0.98	0.39	0.55	0.70	0.86	/	0.38	0.52	0.65	
		kW	2.75	2.78	2.81	2.81	2.81	2.84	2.87	2.90	2.91	2.93	2.96	2.98	/	3.43	3.46	3.50	
	85	TC	46.8	47.3	48.4	48.9	48.4	48.9	49.4	49.9	51.8	52.2	52.6	53.0	/	60.8	61.3	61.7	
		S/T	0.85	0.90	0.98	1.00	0.60	0.80	0.93	0.98	0.39	0.55	0.71	0.87	/	0.38	0.52	0.65	
		kW	3.09	3.12	3.15	3.15	3.15	3.19	3.22	3.25	3.27	3.30	3.32	3.35	/	3.94	3.98	4.01	
	95	TC	45.9	46.4	47.4	48.0	47.4	48.0	48.5	49.0	50.8	51.2	51.6	51.9	/	59.3	59.7	60.1	
		S/T	0.85	0.90	0.98	1.00	0.60	0.81	0.93	0.98	0.39	0.55	0.72	0.87	/	0.38	0.52	0.66	
		kW	3.66	3.70	3.74	3.74	3.74	3.78	3.82	3.86	3.87	3.90	3.93	3.96	/	4.66	4.69	4.72	
	105	TC	44.8	45.3	46.3	46.8	46.3	46.8	47.4	47.9	49.7	50.0	50.4	50.7	/	57.7	57.9	57.9	
		S/T	0.85	0.90	0.98	1.00	0.60	0.81	0.93	0.98	0.39	0.56	0.72	0.89	/	0.38	0.53	0.67	
		kW	4.31	4.36	4.40	4.40	4.40	4.45	4.50	4.54	4.56	4.60	4.64	4.67	/	5.46	5.48	5.48	
	115	TC	38.4	38.9	39.7	40.2	39.7	40.2	40.6	41.0	42.8	43.0	43.2	43.3	/	44.7	44.8	45.0	
		S/T	0.85	0.90	0.98	1.00	0.61	0.82	0.93	0.98	0.39	0.59	0.78	1.00	/	0.39	0.58	0.76	
		kW	4.25	4.30	4.34	4.34	4.34	4.39	4.43	4.48	4.53	4.55							

BOVA 60 +BVA 60 For Cooling																		
Indoor Airflow (CFM)	Outdoor DB (°F)	IWB (°F)	59				63				67				71			
		IDB (°F)	70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
1750 (High Stage)	15	TC	48.7	49.3	50.4	50.9	50.4	50.9	51.5	52.0	53.9	54.3	54.8	55.2	/	64.2	64.6	65.0
		S/T	0.73	0.78	1.00	1.00	0.61	0.83	0.88	0.93	0.39	0.56	0.73	0.90	/	0.38	0.53	0.67
		KW	2.30	2.33	2.35	2.35	2.35	2.38	2.40	2.43	2.38	2.43	2.48	2.53	/	3.00	3.03	3.05
	65	TC	51.0	51.6	52.7	53.3	52.7	53.3	53.9	54.4	56.5	56.9	57.3	57.7	/	66.5	66.9	67.3
		S/T	0.86	0.91	1.00	1.00	0.60	0.82	0.94	0.99	0.39	0.55	0.72	0.88	/	0.38	0.52	0.66
		KW	2.91	2.94	2.97	2.97	2.97	3.01	3.04	3.07	3.07	3.10	3.13	3.16	/	3.55	3.58	3.62
	75	TC	50.6	51.1	52.3	52.8	52.3	52.8	53.4	54.0	56.0	56.4	56.8	57.2	/	65.7	66.1	66.9
		S/T	0.85	0.90	1.00	1.00	0.60	0.82	0.94	0.99	0.39	0.56	0.72	0.89	/	0.38	0.52	0.66
		KW	3.09	3.12	3.16	3.16	3.16	3.19	3.22	3.26	3.27	3.30	3.32	3.35	/	3.83	3.87	3.78
	85	TC	49.6	50.2	51.3	51.8	51.3	51.8	52.4	53.0	54.9	55.3	55.7	56.1	/	64.1	64.5	64.8
		S/T	0.86	0.91	1.00	1.00	0.61	0.82	0.94	0.99	0.39	0.56	0.73	0.90	/	0.38	0.53	0.67
		KW	3.43	3.47	3.50	3.50	3.50	3.54	3.58	3.61	3.63	3.65	3.69	3.72	/	4.35	4.39	4.42
	95	TC	48.5	49.0	50.1	50.7	50.1	50.7	51.2	51.7	53.7	54.0	54.5	54.7	/	62.2	62.6	62.9
		S/T	0.86	0.91	1.00	1.00	0.61	0.83	0.94	0.99	0.39	0.56	0.73	0.91	/	0.38	0.53	0.68
		KW	4.03	4.08	4.12	4.12	4.12	4.17	4.21	4.25	4.27	4.31	4.34	4.37	/	5.09	5.13	5.16
	105	TC	47.2	47.7	48.8	49.3	48.8	49.3	49.8	50.4	52.3	52.7	53.0	53.3	/	58.5	58.8	58.7
		S/T	0.85	0.90	1.00	1.00	0.61	0.83	0.94	0.99	0.39	0.57	0.75	0.92	/	0.38	0.54	0.71
		KW	4.72	4.77	4.83	4.83	4.83	4.88	4.93	4.98	5.01	5.05	5.08	5.11	/	5.62	5.66	5.62
	115	TC	39.6	40.0	40.9	41.3	40.9	41.3	41.8	42.2	44.1	44.3	44.5	44.6	/	45.7	45.8	46.0
		S/T	0.86	0.91	1.00	1.00	0.62	0.85	0.94	0.99	0.39	0.60	0.81	1.00	/	0.39	0.60	0.80
		KW	4.38	4.42	4.47	4.47	4.47	4.52	4.56	4.61	4.67	4.69	4.71	4.72	/	4.84	4.85	4.86
	125	TC	29.9	30.2	30.9	31.2	30.9	31.2	31.6	31.9	33.5	33.5	33.6	33.7	/	35.7	35.8	35.8
		S/T	0.87	0.92	1.00	1.00	0.68	1.00	0.95	1.00	0.40	0.68	1.00	1.00	/	0.40	0.67	0.99
		KW	3.38	3.41	3.45	3.45	3.45	3.49	3.52	3.56	3.63	3.63	3.63	3.63	/	3.65	3.65	3.65
1880	15	TC	51.0	51.6	52.8	53.3	52.8	53.3	53.9	54.5	56.6	57.0	57.4	57.9	/	66.6	67.0	67.4
		S/T	0.75	0.80	1.00	1.00	0.61	0.84	0.90	0.95	0.39	0.57	0.75	0.92	/	0.38	0.53	0.69
		KW	2.69	2.72	2.75	2.75	2.75	2.78	2.81	2.84	2.79	2.85	2.90	2.95	/	3.51	3.54	3.57
	65	TC	53.2	53.8	55.0	55.5	55.0	55.5	56.1	56.7	59.0	59.3	59.7	60.1	/	69.1	69.5	69.9
		S/T	0.87	0.92	1.00	1.00	0.61	0.83	0.95	1.00	0.39	0.56	0.73	0.90	/	0.38	0.53	0.68
		KW	3.18	3.21	3.24	3.24	3.24	3.28	3.31	3.35	3.35	3.38	3.41	3.45	/	3.86	3.89	3.92
	75	TC	53.0	53.5	54.7	55.3	54.7	55.3	55.9	56.5	58.7	59.1	59.5	59.9	/	68.6	69.0	69.4
		S/T	0.87	0.92	1.00	1.00	0.61	0.83	0.95	1.00	0.39	0.56	0.73	0.91	/	0.38	0.53	0.68
		KW	3.22	3.26	3.29	3.29	3.29	3.33	3.36	3.40	3.42	3.44	3.47	3.50	/	4.00	4.03	4.06
	85	TC	51.6	52.2	53.4	54.0	53.4	54.0	54.5	55.1	57.3	57.6	58.0	58.4	/	66.4	66.8	67.1
		S/T	0.87	0.92	1.00	1.00	0.61	0.84	0.95	1.00	0.39	0.57	0.74	0.92	/	0.38	0.54	0.69
		KW	3.68	3.72	3.76	3.76	3.76	3.80	3.84	3.88	3.90	3.93	3.96	3.99	/	4.65	4.68	4.71
	95	TC	50.3	50.8	52.0	52.5	52.0	52.5	53.1	53.7	55.8	56.2	56.5	56.8	/	64.2	64.6	64.9
		S/T	0.87	0.92	1.00	1.00	0.62	0.84	0.95	1.00	0.39	0.57	0.75	0.93	/	0.38	0.54	0.70
		KW	4.31	4.36	4.40	4.40	4.40	4.45	4.50	4.54	4.57	4.60	4.64	4.67	/	5.40	5.43	5.47
	105	TC	48.8	49.4	50.5	51.0	50.5	51.0	51.6	52.1	54.2	54.5	54.8	55.2	/	59.6	58.6	58.9
		S/T	0.87	0.92	1.00	1.00	0.62	0.85	0.95	1.00	0.39	0.58	0.76	0.95	/	0.38	0.56	0.73
		KW	5.02	5.07	5.13	5.13	5.13	5.18	5.24	5.29	5.33	5.36	5.40	5.43	/	5.78	5.69	5.72
	115	TC	40.5	40.9	41.8	42.3	41.8	42.3	42.7	43.2	45.1	45.3	45.5	45.7	/	46.4	46.6	46.7
		S/T	0.87	0.92	1.00	1.00	0.63	0.88	0.95	1.00	0.39	0.62	0.84	1.00	/	0.39	0.61	0.84
		KW	4.54	4.59	4.64	4.64	4.64	4.69	4.74	4.79	4.86	4.87	4.89	4.90	/	5.00	4.70	4.71
	125	TC	30.0	30.3	31.0	31.3	31.0	31.3	31.7	32.0	33.6	33.6	33.7	33.7	/	35.8	35.9	36.0
		S/T	0.88	0.93	0.99	1.00	0.71	1.00	0.96	1.00	0.40	0.70	0.99	1.00	/	0.41	0.70	0.99
		KW	3.45	3.49	3.52	3.52	3.52	3.56	3.60	3.64	3.71	3.71	3.71	3.71	/	3.73	3.73	3.73

Table 9

TC refer to total capacity S/T: refer to the ratio of sensible heat and total capacity kW: refer to total input power

4.2 Outdoor Unit (BOVA20) + Indoor Unit (BVA20) – Heating Mode

BOVA 36 + BVA 24 For Heating																				
Airflow (CFM)	ID (°F)	OD (°F)	86	72	67	62	57	52	47	42	37	32	27	22	17	12	7	2	-4	
620	60	TC	26.8	26.8	26.8	26.8	26.8	26.7	26.7	26.5	26.5	25.8	25.3	24.3	24.2	22.4	21.4	20.4	18.6	
		kW	0.90	1.20	1.31	1.44	1.59	1.71	1.86	2.00	2.21	2.26	2.57	2.48	2.41	2.33	2.25	2.19	2.13	
	70	TC	19.9	19.9	19.9	19.9	19.8	19.8	19.8	19.8	19.8	19.7	19.7	19.7	19.7	18.8	17.7	16.9	16.6	15.8
		kW	0.63	0.88	0.97	1.06	1.17	1.26	1.37	1.54	1.65	1.76	1.90	2.02	2.12	2.36	2.43	2.35	2.29	
	75	TC	16.4	16.4	16.3	16.3	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.1	16.1	16.1	15.7
		kW	0.61	0.73	0.81	0.88	0.96	1.06	1.16	1.25	1.37	1.48	1.57	1.70	1.81	1.92	2.09	2.28	2.28	2.38
	80	TC	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.7	12.7
		kW	0.50	0.59	0.66	0.72	0.80	0.86	0.94	1.00	1.14	1.20	1.29	1.37	1.46	1.59	1.70	1.80	1.80	1.95
660 (Low Stage)	60	TC	27.3	27.3	27.2	27.2	27.2	27.2	27.2	27.0	27.0	25.7	26.2	24.5	24.4	23.2	22.1	21.1	19.5	
		kW	0.90	1.21	1.31	1.44	1.60	1.71	1.86	2.02	2.23	2.22	2.52	2.44	2.36	2.29	2.22	2.15	2.10	
	70	TC	20.2	20.2	20.2	20.2	20.2	20.1	20.1	20.1	20.0	20.0	20.1	20.0	19.1	18.0	17.2	16.8	16.0	
		kW	0.64	0.89	0.96	1.05	1.16	1.25	1.37	1.53	1.65	1.76	1.88	2.03	2.20	2.38	2.39	2.31	2.25	
	75	TC	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.4	16.4	16.4	16.4	16.5	16.3	16.3	16.3	15.6	
		kW	0.51	0.73	0.79	0.87	0.97	1.05	1.15	1.24	1.36	1.48	1.56	1.70	1.81	1.93	2.10	2.30	2.34	
	80	TC	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.9	12.9
		kW	0.40	0.58	0.64	0.70	0.78	0.84	0.93	1.02	1.13	1.19	1.28	1.36	1.45	1.58	1.70	1.82	1.82	1.96
760	60	TC	29.9	29.9	29.9	29.9	29.9	29.8	29.7	29.7	27.8	26.0	26.6	24.8	24.7	23.4	22.3	21.3	19.7	
		kW	1.04	1.37	1.49	1.61	1.77	1.88	2.06	2.28	2.25	2.18	2.48	2.41	2.34	2.27	2.21	2.14	2.10	
	70	TC	22.2	22.2	22.2	22.2	22.2	22.1	22.1	22.1	22.0	22.0	22.0	22.0	21.0	19.8	18.9	18.5	17.6	
		kW	0.74	1.00	1.08	1.18	1.29	1.41	1.57	1.69	1.83	1.93	2.11	2.27	2.46	2.45	2.38	2.30	2.24	
	75	TC	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.1	18.1	18.1	18.1	18.1	18.0	18.0	18.0	17.1	15.8	
		kW	0.60	0.82	0.89	0.97	1.08	1.17	1.27	1.37	1.54	1.63	1.75	1.87	1.99	2.15	2.34	2.40	2.40	2.33
	80	TC	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.3	14.2	14.2
		kW	0.47	0.66	0.72	0.79	0.87	0.94	1.05	1.13	1.24	1.31	1.41	1.50	1.63	1.74	1.82	2.01	2.17	
860 (High Stage)	60	TC	32.7	32.7	32.7	32.7	32.7	32.4	32.4	30.4	28.2	26.1	26.9	25.0	24.8	23.5	22.5	21.4	19.9	
		kW	1.19	1.54	1.66	1.80	1.96	2.11	2.30	2.29	2.23	2.17	2.46	2.40	2.34	2.27	2.21	2.15	2.10	
	70	TC	24.3	24.3	24.3	24.3	24.3	24.2	24.2	24.1	24.1	24.0	24.0	24.0	22.9	21.6	20.6	19.7	18.2	
		kW	0.84	1.13	1.22	1.32	1.48	1.58	1.73	1.86	2.01	2.14	2.35	2.53	2.52	2.45	2.38	2.31	2.26	
	75	TC	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.8	19.8	19.8	19.8	19.7	19.7	19.7	19.0	17.4	16.1	
		kW	0.69	0.93	1.00	1.09	1.20	1.29	1.41	1.57	1.69	1.79	1.93	2.05	2.20	2.39	2.48	2.40	2.34	
	80	TC	15.8	15.8	15.8	15.8	15.8	15.8	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.7	15.6	15.6	15.6	
		kW	0.55	0.75	0.82	0.89	0.97	1.06	1.16	1.24	1.36	1.44	1.55	1.68	1.79	1.89	2.04	2.23	2.40	
1080	60	TC	39.0	39.0	38.9	38.8	38.0	35.8	34.0	31.3	28.7	27.8	27.3	25.8	26.4	25.0	23.9	22.8	21.1	
		kW	1.66	1.96	2.11	2.30	2.41	2.36	2.36	2.30	2.24	2.21	2.49	2.44	2.38	2.33	2.27	2.23	2.19	
	70	TC	29.1	29.1	29.1	29.1	29.1	29.0	29.0	28.7	28.2	27.4	27.0	25.2	26.2	24.7	23.6	22.5	20.8	
		kW	1.35	1.45	1.58	1.70	1.85	1.98	2.14	2.31	2.45	2.40	2.69	2.63	2.56	2.50	2.44	2.38	2.33	
	75	TC	24.0	24.0	24.0	24.0	23.9	23.9	23.9	23.8	23.8	23.7	23.7	23.7	23.1	21.4	19.6	17.9	16.6	
		kW	0.98	1.20	1.30	1.41	1.52	1.67	1.81	1.94	2.08	2.20	2.39	2.57	2.67	2.60	2.53	2.47	2.42	
	80	TC	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.0	18.8	18.8	18.8	18.8	17.7	16.4	
		kW	0.79	0.99	1.07	1.15	1.26	1.35	1.45	1.55	1.72	1.81	1.95	2.06	2.18	2.35	2.54	2.56	2.50	

Table 10

TC refer to total capacity S/T: refer to the ratio of sensible heat and total capacity kW: refer to total input power

BOVA 36+BVA 36 For Heating																				
Airflow (CFM)	ID (°F)	OD (°F)	86	72	67	62	57	52	47	42	37	32	27	22	17	12	7	2	-4	
650	60	TC	30.1	30.1	30.1	30.1	30.1	29.8	29.7	29.7	29.7	29.7	29.7	28.1	26.1	24.2	22.3	20.5	18.9	
		kW	1.08	1.43	1.58	1.71	1.86	1.98	2.16	2.39	2.62	2.82	3.10	3.04	2.92	2.82	2.72	2.62	2.54	
	70	TC	23.2	23.2	23.0	23.0	23.0	23.0	23.0	23.0	22.9	22.8	22.7	22.7	22.7	22.7	22.7	21.7	19.9	18.3
		kW	0.82	1.06	1.18	1.28	1.40	1.51	1.64	1.82	1.97	2.07	2.28	2.46	2.66	2.89	2.94	2.83	2.74	
	75	TC	19.4	19.4	19.3	19.3	19.3	19.3	19.3	19.3	19.2	19.2	19.2	19.2	19.0	19.0	19.0	19.0	19.0	18.1
		kW	0.73	0.90	0.98	1.07	1.18	1.28	1.39	1.50	1.64	1.78	1.93	2.03	2.19	2.38	2.59	2.84	2.86	
80	TC	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.7	15.7	15.7	15.7	15.7	15.5	15.5	15.5	14.5	
	kW	0.68	0.73	0.81	0.88	0.97	1.05	1.14	1.25	1.38	1.46	1.57	1.68	1.80	1.92	2.09	2.30	2.30		
820 (Low Stage)	60	TC	34.6	34.6	34.6	34.3	34.3	34.2	34.1	32.6	30.6	30.5	28.6	26.4	24.5	22.7	20.8	19.3		
		kW	1.42	1.71	1.86	1.99	2.18	2.36	2.57	2.85	2.87	2.78	3.05	2.95	2.85	2.76	2.67	2.59	2.52	
	70	TC	26.5	26.5	26.5	26.5	26.5	26.5	26.4	26.2	26.2	26.2	26.2	26.2	25.9	24.0	22.0	20.3	18.8	
		kW	1.02	1.28	1.40	1.53	1.65	1.80	1.95	2.09	2.30	2.46	2.69	2.91	3.09	2.99	2.88	2.79	2.71	
	75	TC	22.3	22.3	22.3	22.3	22.3	22.2	22.2	22.0	22.1	21.9	21.9	21.9	21.9	21.9	21.8	19.9	18.4	
		kW	0.96	1.08	1.17	1.27	1.39	1.49	1.62	1.73	1.94	2.03	2.22	2.39	2.58	2.80	3.01	2.91	2.82	
80	TC	18.3	18.3	18.3	18.3	18.3	18.2	18.2	18.2	18.1	18.1	18.1	18.1	17.9	17.9	17.9	18.0	18.0		
	kW	0.82	0.88	0.96	1.05	1.14	1.24	1.35	1.46	1.59	1.69	1.83	1.96	2.08	2.26	2.45	2.69	2.91		
1020	60	TC	41.3	41.0	41.0	40.9	40.9	40.8	39.3	36.1	33.4	31.0	31.1	29.2	27.9	26.1	24.2	22.6	21.1	
		kW	1.69	2.18	2.33	2.53	2.74	2.96	2.98	2.87	2.77	2.69	2.96	2.88	2.80	2.72	2.65	2.57	2.52	
	70	TC	31.7	31.7	31.7	31.7	31.6	31.3	31.2	31.2	31.2	30.5	30.5	28.4	27.5	25.6	23.8	22.3	20.7	
		kW	1.27	1.63	1.72	1.89	2.02	2.17	2.36	2.60	2.83	2.94	3.22	3.12	3.03	2.93	2.85	2.76	2.69	
	75	TC	26.7	26.7	26.6	26.6	26.6	26.6	26.6	26.2	26.2	26.2	26.2	26.2	26.1	24.2	22.3	20.4	18.9	
		kW	1.06	1.36	1.46	1.58	1.70	1.86	2.01	2.14	2.34	2.50	2.74	2.95	3.16	3.06	2.97	2.88	2.80	
80	TC	21.9	21.9	21.9	21.9	21.9	21.8	21.8	21.7	21.7	21.7	21.5	21.5	21.5	21.5	21.5	20.1	18.6		
	kW	0.86	1.13	1.20	1.30	1.41	1.51	1.64	1.76	1.95	2.07	2.20	2.37	2.56	2.76	3.01	3.00	2.92		
1150 (High Stage)	60	TC	45.9	45.8	45.8	45.7	44.5	42.0	39.8	36.7	33.9	31.7	31.6	29.3	28.5	26.6	24.7	23.1	21.5	
		kW	1.97	2.58	2.73	2.95	3.03	2.95	2.92	2.83	2.74	2.68	2.94	2.86	2.79	2.72	2.65	2.58	2.53	
	70	TC	35.6	35.5	35.3	35.0	35.0	35.0	34.8	34.7	33.1	31.0	30.9	28.9	28.2	26.0	24.1	22.6	21.0	
		kW	1.50	1.88	2.01	2.13	2.31	2.51	2.66	3.00	2.99	2.91	3.18	3.10	3.01	2.93	2.85	2.77	2.71	
	75	TC	29.9	29.9	29.8	29.6	29.8	29.7	29.3	29.3	29.4	29.4	29.4	28.5	26.5	24.6	22.6	20.6	19.2	
		kW	1.23	1.58	1.68	1.79	1.97	2.08	2.24	2.46	2.68	2.87	3.15	3.23	3.14	3.05	2.96	2.88	2.81	
80	TC	24.5	24.5	24.5	24.5	24.5	24.5	24.4	24.4	24.1	24.1	24.0	24.1	24.1	24.1	22.3	20.3	18.9		
	kW	1.01	1.30	1.38	1.50	1.61	1.73	1.86	2.05	2.17	2.32	2.52	2.72	2.92	3.16	3.09	2.99	2.92		
1350	60	TC	51.1	51.0	50.2	47.4	45.3	42.7	40.5	37.2	34.4	32.2	32.1	30.0	28.9	27.0	25.1	23.5	21.9	
		kW	2.38	3.03	3.10	3.03	3.01	2.94	2.92	2.83	2.76	2.70	2.96	2.89	2.83	2.77	2.70	2.64	2.59	
	70	TC	39.2	39.2	39.1	39.1	39.1	39.0	39.0	36.4	33.6	31.5	31.4	29.4	28.4	26.5	24.6	23.0	21.4	
		kW	1.74	2.16	2.30	2.50	2.70	2.91	3.14	3.09	3.00	2.93	3.20	3.12	3.04	2.97	2.90	2.82	2.77	
	75	TC	33.4	33.4	33.3	33.3	32.9	32.9	32.8	32.9	32.8	31.1	31.0	29.0	27.0	25.0	23.0	21.2	19.7	
		kW	1.47	1.84	1.95	2.12	2.22	2.40	2.60	2.85	3.09	3.06	3.34	3.25	3.17	3.09	3.01	2.93	2.87	
80	TC	27.5	27.5	27.4	27.4	27.4	27.4	27.3	26.9	26.9	27.0	26.9	26.9	26.6	24.7	22.7	20.8	19.3		
	kW	1.22	1.53	1.62	1.75	1.86	2.02	2.17	2.31	2.51	2.67	2.91	3.12	3.30	3.21	3.13	3.04	2.97		

Table 11

TC refer to total capacity S/T: refer to the ratio of sensible heat and total capacity kW: refer to total input power



BOVA 60+BVA 48 For Heating																				
Airflow (CFM)	ID (°F)	OD (°F)	86	72	67	62	57	52	47	42	37	32	27	22	17	12	7	2	-4	
1180 (Low Stage)	60	TC	53.4	53.4	53.4	53.3	53.3	53.2	52.9	52.7	48.7	45.7	42.9	41.5	39.7	38.3	36.5	34.7	32.9	
		kW	2.11	2.57	2.81	3.05	3.31	3.57	3.86	4.21	4.04	3.91	4.11	4.50	4.50	4.38	4.31	4.23	4.07	
	70	TC	41.1	41.1	41.0	41.1	41.0	41.0	40.9	40.8	41.0	40.8	40.8	38.7	37.5	35.9	34.6	33.0	31.4	29.7
		kW	1.68	2.01	2.15	2.31	2.53	2.70	2.94	3.20	3.49	3.71	3.90	4.27	4.27	4.16	4.08	4.01	3.86	
	75	TC	34.7	34.7	34.6	34.6	34.6	34.6	34.6	34.5	34.4	34.6	34.6	34.6	34.4	34.3	34.2	32.5	30.6	28.4
		kW	1.46	1.75	1.85	1.99	2.15	2.29	2.45	2.70	2.93	3.13	3.40	3.62	3.90	4.22	4.47	4.30	4.16	
80	TC	28.6	28.6	28.5	28.5	28.5	28.5	28.4	28.4	28.5	28.5	28.5	28.5	28.5	28.2	28.2	28.2	27.9		
	kW	1.25	1.50	1.60	1.70	1.84	1.95	2.09	2.23	2.42	2.59	2.77	2.99	3.21	3.42	3.71	4.05	4.34		
1330	60	TC	57.3	57.3	57.2	57.1	57.1	56.8	56.9	53.3	49.2	46.1	43.8	42.4	40.6	39.2	37.4	35.5	33.7	
		kW	2.23	2.86	3.06	3.32	3.59	3.87	4.21	4.14	3.99	3.83	4.03	4.41	4.41	4.29	4.22	4.14	3.99	
	70	TC	44.1	44.0	44.0	44.0	43.9	43.8	43.7	43.7	43.7	43.7	43.7	41.6	40.2	38.5	37.2	35.4	33.7	31.9
		kW	1.75	2.19	2.32	2.52	2.71	2.92	3.17	3.46	3.75	4.04	4.24	4.65	4.65	4.53	4.45	4.36	4.20	
	75	TC	37.1	37.1	37.0	37.0	37.0	37.0	37.0	36.9	36.8	36.9	36.9	36.8	36.8	36.8	35.0	33.5	31.7	29.8
		kW	1.54	1.90	1.99	2.13	2.30	2.45	2.69	2.90	3.16	3.37	3.65	3.92	4.23	4.27	4.15	4.06	3.89	
80	TC	30.6	30.6	30.5	30.5	30.5	30.5	30.5	30.5	30.4	30.4	30.4	30.4	30.4	30.2	30.3	30.2	28.2		
	kW	1.36	1.63	1.72	1.82	1.97	2.08	2.23	2.39	2.62	2.77	3.00	3.21	3.43	3.69	4.01	4.40	4.33		
1530 (High Stage)	60	TC	63.0	63.0	63.0	62.8	62.7	62.0	58.8	53.7	49.9	46.6	44.3	42.9	41.0	39.6	37.8	35.9	34.0	
		kW	2.49	3.27	3.49	3.76	4.07	4.31	4.25	4.08	3.96	3.85	4.04	4.43	4.43	4.31	4.24	4.16	4.00	
	70	TC	48.6	48.6	48.5	48.4	48.4	48.3	48.2	48.2	48.2	45.6	43.3	42.0	40.1	38.8	36.9	35.1	33.3	
		kW	1.98	2.46	2.63	2.83	3.07	3.30	3.61	3.91	4.25	4.19	4.40	4.82	4.82	4.70	4.61	4.53	4.36	
	75	TC	40.9	40.9	40.8	40.8	40.6	40.7	40.7	40.6	40.7	40.6	40.6	40.6	40.1	38.1	36.5	34.5	32.5	
		kW	1.72	2.13	2.24	2.39	2.56	2.78	3.01	3.27	3.54	3.77	4.12	4.43	4.76	4.81	4.66	4.57	4.38	
80	TC	33.7	33.7	33.6	33.6	33.6	33.6	33.5	33.5	33.5	33.5	33.5	33.5	33.4	33.4	33.4	31.0	28.7		
	kW	1.52	1.83	1.92	2.04	2.19	2.33	2.49	2.72	2.93	3.12	3.38	3.60	3.85	4.16	4.53	4.63	4.67		
1760	60	TC	68.9	68.7	68.7	68.7	66.8	63.0	59.7	54.8	50.6	46.8	44.4	43.0	41.2	39.8	37.9	36.0	34.1	
		kW	2.89	3.70	3.95	4.28	4.40	4.29	4.24	4.10	3.97	3.87	4.06	4.45	4.45	4.33	4.25	4.18	4.02	
	70	TC	53.2	53.2	53.2	53.0	53.0	52.9	52.7	52.8	49.4	46.3	44.0	42.6	40.7	39.3	37.5	35.6	33.8	
		kW	2.24	2.77	2.98	3.21	3.47	3.72	4.00	4.39	4.33	4.22	4.43	4.85	4.85	4.72	4.64	4.55	4.39	
	75	TC	44.9	44.9	44.9	44.8	44.8	44.7	44.6	44.6	44.6	44.5	44.5	42.0	40.6	38.6	36.9	34.9	32.9	
		kW	1.95	2.39	2.53	2.72	2.92	3.13	3.38	3.67	3.97	4.25	4.65	4.93	4.78	4.83	4.69	4.59	4.40	
80	TC	37.1	37.0	36.9	36.9	36.9	36.9	36.8	36.7	36.8	36.8	36.7	36.7	36.7	36.7	34.5	31.6	29.3		
	kW	1.72	2.07	2.16	2.29	2.46	2.61	2.84	3.05	3.29	3.50	3.76	4.03	4.32	4.69	4.68	4.77	4.82		
1900	60	TC	74.0	74.0	74.0	70.9	67.5	63.6	59.9	54.7	50.5	47.7	45.3	43.9	42.0	40.6	38.6	36.7	34.8	
		kW	3.63	4.07	4.39	4.40	4.35	4.25	4.20	4.06	3.95	3.88	4.07	4.46	4.46	4.34	4.26	4.19	4.03	
	70	TC	57.5	57.5	57.5	57.4	57.4	56.9	56.9	54.0	49.9	46.7	44.3	42.9	41.1	39.7	37.8	35.9	34.1	
		kW	2.83	3.05	3.31	3.56	3.83	4.08	4.41	4.45	4.42	4.41	4.63	5.08	5.08	4.94	4.85	4.77	4.59	
	75	TC	48.7	48.7	48.7	48.6	48.6	48.5	48.3	48.2	48.2	47.1	46.0	43.0	40.9	38.8	37.2	35.1	33.1	
		kW	2.41	2.60	2.80	2.99	3.24	3.46	3.72	4.04	4.38	4.40	5.06	4.92	4.78	4.83	4.69	4.59	4.40	
80	TC	40.2	40.2	40.2	40.2	40.2	40.1	40.0	39.9	40.1	40.0	39.8	39.8	39.8	37.8	34.9	31.9	29.6		
	kW	1.96	2.24	2.37	2.52	2.69	2.90	3.11	3.36	3.63	3.82	4.15	4.45	4.79	4.83	4.68	4.78	4.82		

Table 12

TC refer to total capacity S/T: refer to the ratio of sensible heat and total capacity kW: refer to total input power

BOVA 60+BVA 60 For Heating																			
Airflow (CFM)	ID (°F)	OD (°F)	86	72	67	62	57	52	47	42	37	32	27	22	17	12	7	2	-4
1160	60	TC	56.7	56.7	56.7	56.6	56.6	56.3	56.1	56.1	55.5	51.9	49.3	45.1	42.3	40.2	40.3	36.3	33.2
		kW	2.20	2.58	2.83	3.09	3.36	3.59	3.92	4.34	4.71	4.56	5.30	5.49	5.30	5.11	4.93	4.74	4.60
	70	TC	42.7	42.7	42.6	42.6	42.5	42.5	42.4	42.3	42.3	42.1	40.0	37.5	35.0	34.1	33.3	32.6	30.2
		kW	1.81	1.95	2.10	2.26	2.44	2.64	2.90	3.17	3.42	3.68	3.79	3.90	3.94	3.87	3.80	3.72	3.68
	75	TC	35.4	35.4	35.4	35.3	35.3	35.3	35.2	35.1	35.1	35.1	35.0	34.8	34.8	33.1	31.7	29.9	28.2
		kW	1.60	1.66	1.78	1.91	2.07	2.21	2.38	2.57	2.85	3.05	3.33	3.52	3.79	3.79	3.64	3.53	3.45
	80	TC	28.4	28.4	28.4	28.4	28.4	28.3	28.3	28.2	28.1	28.1	28.1	28.1	28.1	28.0	27.9	27.9	27.9
		kW	1.34	1.42	1.51	1.61	1.72	1.83	1.99	2.12	2.30	2.44	2.64	2.82	3.03	3.24	3.51	3.83	4.16
1320 (Low Stage)	60	TC	62.2	62.2	62.2	61.8	61.6	61.5	61.4	60.8	56.1	52.5	49.8	45.5	43.2	42.5	39.9	36.7	34.1
		kW	2.34	2.93	3.20	3.44	3.74	4.04	4.40	4.80	4.62	4.48	5.58	5.40	5.22	5.05	4.88	4.71	4.56
	70	TC	46.8	46.8	46.8	46.8	46.7	46.7	46.6	46.4	46.2	46.2	43.9	41.1	38.4	37.4	36.5	34.2	31.9
		kW	1.74	2.16	2.33	2.52	2.74	2.98	3.24	3.54	3.83	4.13	4.57	4.94	5.39	5.47	5.28	5.09	4.94
	75	TC	38.8	38.8	38.8	38.8	38.7	38.7	38.6	38.6	38.6	38.6	38.2	38.3	38.3	37.2	35.9	33.6	31.2
		kW	1.61	1.84	1.97	2.12	2.28	2.44	2.62	2.92	3.17	3.39	3.66	3.94	4.25	5.47	5.28	5.09	4.94
	80	TC	31.2	31.2	31.2	31.2	31.2	31.1	31.2	31.2	31.1	31.1	31.1	31.1	31.1	30.8	30.7	30.7	30.7
		kW	1.42	1.55	1.66	1.77	1.90	2.04	2.18	2.34	2.54	2.70	2.94	3.14	3.33	3.60	3.91	4.30	4.65
1520	60	TC	69.0	69.0	68.5	68.5	68.4	68.3	67.4	61.6	56.6	53.0	52.2	52.7	49.1	45.6	42.1	38.7	36.0
		kW	2.64	3.45	3.65	3.98	4.30	4.67	4.92	4.73	4.56	4.44	5.30	5.34	5.18	5.02	4.86	4.70	4.57
	70	TC	52.0	52.0	52.0	52.0	52.0	51.9	51.5	51.5	51.4	51.4	48.9	45.8	42.7	41.6	40.6	38.0	36.0
		kW	1.99	2.50	2.68	2.91	3.16	3.40	3.63	4.03	4.39	4.76	4.90	5.04	5.09	4.99	4.91	4.80	4.76
	75	TC	43.2	43.2	43.2	43.1	43.1	43.1	43.0	42.9	42.8	42.6	42.6	42.6	42.6	40.5	38.8	36.7	34.5
		kW	1.71	2.12	2.24	2.40	2.58	2.78	3.04	3.32	3.56	3.82	4.19	4.51	4.90	4.90	4.71	4.56	4.46
	80	TC	34.8	34.8	34.8	34.8	34.7	34.7	34.7	34.4	34.7	34.7	34.7	34.7	34.2	34.2	34.2	34.2	33.9
		kW	1.48	1.78	1.88	2.00	2.16	2.29	2.46	2.64	2.88	3.10	3.36	3.53	3.80	4.10	4.47	4.92	5.36
1750 (High Stage)	60	TC	76.1	75.6	75.5	75.5	75.5	72.1	68.2	62.4	57.5	53.8	51.1	47.9	44.6	43.6	42.5	39.8	37.1
		kW	3.09	3.97	4.22	4.58	4.96	4.95	4.88	4.71	4.56	4.45	2.10	5.12	5.12	4.98	4.90	4.81	4.63
	70	TC	57.4	57.3	57.5	57.4	57.2	56.4	56.2	56.1	55.3	53.6	51.0	47.7	44.5	43.4	42.4	39.7	37.0
		kW	2.28	2.87	3.08	3.33	3.60	3.82	4.13	4.56	4.77	4.84	4.99	5.13	5.18	5.08	5.00	4.89	4.84
	75	TC	47.8	47.8	47.8	47.7	47.6	47.6	47.5	47.1	47.0	47.0	47.0	47.0	44.0	41.8	40.1	37.9	35.7
		kW	1.95	2.40	2.55	2.74	2.96	3.20	3.45	3.73	4.04	4.34	4.78	5.17	5.42	5.42	5.20	5.04	4.93
	80	TC	38.6	38.6	38.5	38.5	38.4	38.4	38.2	38.2	38.2	38.2	37.9	37.9	37.8	37.9	37.8	37.2	34.5
		kW	1.68	2.02	2.13	2.27	2.43	2.58	2.76	3.01	3.29	3.51	3.74	4.01	4.30	4.68	5.09	5.54	5.39
1880	60	TC	81.2	81.0	81.0	81.0	77.1	72.6	68.6	62.6	58.0	54.2	54.4	53.8	50.0	46.5	43.1	40.2	37.4
		kW	3.46	4.40	4.66	5.08	5.02	4.90	4.84	4.69	4.56	4.45	5.27	5.33	5.19	5.05	4.91	4.77	4.65
	70	TC	61.6	61.6	61.7	61.6	61.0	60.8	60.9	61.0	56.8	54.2	51.5	48.2	45.0	43.9	42.8	40.0	36.8
		kW	2.51	3.18	3.39	3.66	3.90	4.20	4.54	5.03	4.97	4.84	4.99	5.13	5.18	5.08	5.00	4.89	4.84
	75	TC	51.3	51.3	51.3	51.1	51.1	51.1	51.0	50.5	50.4	50.4	50.4	50.4	44.6	42.4	40.6	38.4	36.1
		kW	2.13	2.62	2.79	2.98	3.26	3.50	3.76	4.08	4.43	4.77	5.27	5.70	5.85	5.85	5.62	5.44	5.32
	80	TC	41.4	41.4	41.4	41.4	41.3	41.2	41.2	41.2	41.2	40.9	40.7	40.7	40.7	40.7	40.7	37.7	34.9
		kW	1.83	2.21	2.32	2.47	2.64	2.80	3.02	3.32	3.59	3.77	4.09	4.39	4.73	5.13	5.65	5.56	5.41

Table 13

TC refer to total capacity S/T: refer to the ratio of sensible heat and total capacity kW: refer to total input power

## 5 AHRI 210/240 Performance Data

### 5.1 SEER Data

Outdoor Unit Model	Indoor Unit Model	Furnace Model	Cooling Capacity (BTU/h)			Heating Capacity			CFM
	Coils/Air Handlers		Total	EER <sup>2</sup>	SEER <sup>1</sup>	Hi	HSPF <sup>3</sup>	Low <sup>4</sup>	
BOVA-36HDN1-M20G	BVA-24WN1-M20	/	24000	14	20.5	24000	10.5	23000	860/680
BOVA-36HDN1-M20G	BVA-36WN1-M20	/	34600	12.5	20	34200	10.5	28000	1150/820
BOVA-60HDN1-M20G	BVA-48WN1-M20	/	47500	13.5	20	48000	10.5	40000	1530/1150
BOVA-60HDN1-M20G	BVA-60WN1-M20	/	54500	12.5	19	56000	10.5	44000	1750/1350
BOVA-36HDN1-M20G	BMAC2430ANTD	/	23400	11.8	16	23400	9.5	18000	750
BOVA-36HDN1-M20G	BMAC2430BNTD	/	23600	11.8	16	23800	9.5	18000	800
BOVA-36HDN1-M20G	BMAC3036ANTD	/	32000	10.8	16	33600	9.5	22000	900
BOVA-36HDN1-M20G	BMAC3036BNTD	/	32400	11.2	16	33800	9.5	23000	1000
BOVA-36HDN1-M20G	BMAC3036CNTD	/	32600	11.4	16	34000	9.5	23000	1050
BOVA-36HDN1-M20G	BMAC4248BNTF	/	33000	11.2	16	33800	9.5	24000	1000
BOVA-36HDN1-M20G	BMAC4248CNTF	/	33200	11.2	16	34200	9.5	24000	1050
BOVA-36HDN1-M20G	BMAC4248DNTF	/	33400	11.2	16	34200	9.5	24000	1100
BOVA-60HDN1-M20G	BMAC4248BNTF	/	43000	11.2	16	45500	9.5	31400	1200
BOVA-60HDN1-M20G	BMAC4248CNTF	/	44000	11.8	16	46500	9.5	32000	1350
BOVA-60HDN1-M20G	BMAC4248DNTF	/	45000	11.8	16	47500	9.5	32000	1450
BOVA-60HDN1-M20G	BMAC4860CNTF	/	55000	10.5	16	55500	9.5	38000	1350
BOVA-60HDN1-M20G	BMAC4860DNTF	/	56000	10.5	16	56000	9.5	39000	1500
BOVA-36HDN1-M20G	BMAC2430ANTD	BGH96M060B3A	24000	13	18.5	24000	10	18000	820/630
BOVA-36HDN1-M20G	BMAC2430ANTD	BGH96M080B3A	24000	13	18.5	24000	10	18000	800/580
BOVA-36HDN1-M20G	BMAC2430BNTD	BGH96M060B3A	24000	13.5	19	24000	10	19000	860/680
BOVA-36HDN1-M20G	BMAC2430BNTD	BGH96M080B3A	24000	13.5	19	24000	10	19000	840/630
BOVA-36HDN1-M20G	BMAC3036ANTD	BGH96M060B3A	32200	11.2	17	34000	10	25000	1050/800
BOVA-36HDN1-M20G	BMAC3036ANTD	BGH96M080B3A	32200	11.2	17	34000	10	25000	1020/800
BOVA-36HDN1-M20G	BMAC3036BNTD	BGH96M060B3A	33000	11.6	17.5	34200	10	25000	1100/850
BOVA-36HDN1-M20G	BMAC3036BNTD	BGH96M080B3A	33000	11.6	17.5	34200	10	25000	1070/850
BOVA-36HDN1-M20G	BMAC3036CNTD	BGH96M080C4A	33600	12	18	34200	10	25000	1050/820
BOVA-36HDN1-M20G	BMAC3036CNTD	BGH96M100C5A	33600	12	18	34200	10	25000	1150/750
BOVA-36HDN1-M20G	BMAC4248BNTF	BGH96M080B3A	33000	12.5	18.5	34200	10	26000	1000/850
BOVA-36HDN1-M20G	BMAC4248CNTF	BGH96M100C5A	33000	12.5	18.5	34200	10	26000	1100/800
BOVA-60HDN1-M20G	BMAC4248BNTF	BGH96M080B3A	43000	11.2	18	45000	9.5	34000	1250/1050
BOVA-60HDN1-M20G	BMAC4248CNTF	BGH96M080C4A	44000	12	18.5	46000	10	35000	1250/1050
BOVA-60HDN1-M20G	BMAC4248CNTF	BGH96M100C5A	45000	12.5	18.5	46500	10	35000	1450/1150
BOVA-60HDN1-M20G	BMAC4248DNTF	BGH96M100D5A	45500	12.5	18.5	47000	10	35000	1500/1200
BOVA-60HDN1-M20G	BMAC4248DNTF	BGH96M120D5A	45500	12.5	18.5	47000	10	35000	1500/1200
BOVA-60HDN1-M20G	BMAC4860CNTF	BGH96M100C5A	52000	12	18	53500	10	37000	1450/1150
BOVA-60HDN1-M20G	BMAC4860DNTF	BGH96M100D5A	52000	12.5	18.5	54000	10	38000	1500/1200
BOVA-60HDN1-M20G	BMAC4860DNTF	BGH96M120D5A	52000	12.5	18.5	54000	10	38000	1500/1200

Table 14

<sup>1</sup> Seasonal Energy Efficiency Ratio; Certified per AHRI 210/240

<sup>2</sup> Energy Efficiency Ratio; Certified per AHRI 210/240

<sup>3</sup> HSPF = Heating Seasonal Performance Factor; Certified per AHRI 210/240

<sup>4</sup> Jumper cut or dip switch off

Items in **bold** boxes meet the requirements for ENERGY STAR v5.0



Always check the rating plate for electrical data on the unit being installed. The above data are for reference only.

5.2 SEER2 Data

System Configuration	Outdoor Unit Model	Indoor Unit Model	Furnace Model	Cooling Capacity (BTU/h)			Heating Capacity			CFM
		Coils/Air Handlers		Total	EER <sup>2</sup>	SEER <sup>1</sup>	Hi	HSPF <sup>3</sup>	Low <sup>4</sup>	
BOVA 20 with BVA20	BOVA-36HDN1-M20G	BVA-24WN1-M20	/	24000	13	20	24000	9.5	22400	720/560
	BOVA-36HDN1-M20G	BVA-36WN1-M20	/	34200	12	19	34200	9.5	28000	1170/880
	BOVA-60HDN1-M20G	BVA-48WN1-M20	/	47000	12	18.5	48000	9.5	40000	1580/1100
	BOVA-60HDN1-M20G	BVA-60WN1-M20	/	52000	11.7	18	55000	9.5	43500	1720/1310
BOVA 20 with 96% Gas Furnace	BOVA-36HDN1-M20G	BMA*2430ANTD	BGH96M060B3B	23800	12	18	24000	9	19600	740/540
	BOVA-36HDN1-M20G	BMA*2430ANTD	BGH96M080B3B	23800	12	18	24000	9	19600	750/560
	BOVA-36HDN1-M20G	BMA*2430BNTD	BGH96M060B3B	24000	12	18.5	24000	9	20000	760/550
	BOVA-36HDN1-M20G	BMA*2430BNTD	BGH96M080B3B	24000	12	18.5	24000	9	20000	750/560
	BOVA-36HDN1-M20G	BMA*3036ANTD	BGH96M060B3B	32800	10.6	17.5	34000	9	25000	1090/840
	BOVA-36HDN1-M20G	BMA*3036ANTD	BGH96M080B3B	32800	10.6	17.5	34000	9	25000	1050/840
	BOVA-36HDN1-M20G	BMA*3036BNTD	BGH96M060B3B	33600	11	17.5	34200	9	25000	1120/870
	BOVA-36HDN1-M20G	BMA*3036BNTD	BGH96M080B3B	33600	11	17.5	34200	9	25000	1060/850
	BOVA-36HDN1-M20G	BMA*3036CNTD	BGH96M080C4B	33600	11	17.5	34200	9	25000	1100/870
	BOVA-36HDN1-M20G	BMA*3036CNTD	BGH96M100C5B	33200	11.2	17.5	34200	9	25000	1000/780
	BOVA-36HDN1-M20G	BMA*4248BNTF	BGH96M080B3B	33000	11.2	18.5	34200	9	25600	1100/880
	BOVA-36HDN1-M20G	BMA*4248CNTF	BGH96M100C5B	33000	12	18.5	34200	9	25600	1060/840
	BOVA-60HDN1-M20G	BMA*4248BNTF	BGH96M080B3B	42500	11.7	17	43500	8.8	35000	1120/880
	BOVA-60HDN1-M20G	BMA*4248CNTF	BGH96M080C4B	42500	11.7	17	44500	8.8	35000	1130/900
	BOVA-60HDN1-M20G	BMA*4248CNTF	BGH96M100C5B	45000	11.7	17.5	46500	8.8	35600	1370/1150
	BOVA-60HDN1-M20G	BMA*4248DNTF	BGH96M100D5B	45500	11.7	17.5	47000	9	35600	1480/1200
	BOVA-60HDN1-M20G	BMA*4248DNTF	BGH96M120D5B	45500	11.7	17.5	47000	9	35600	1480/1200
	BOVA-60HDN1-M20G	BMA*4860CNTF	BGH96M100C5B	51500	11.4	18	53500	8.5	38000	1370/1150
	BOVA-60HDN1-M20G	BMA*4860DNTF	BGH96M100D5B	52000	11.7	18	54000	8.5	38500	1460/1170
	BOVA-60HDN1-M20G	BMA*4860DNTF	BGH96M120D5B	52000	11.7	18	54000	8.5	38500	1460/1170

Table 15

<sup>1</sup> Seasonal Energy Efficiency Ratio; Certified per AHRI 210/240

<sup>2</sup> Energy Efficiency Ratio; Certified per AHRI 210/240

<sup>3</sup> HSPF = Heating Seasonal Performance Factor; Certified per AHRI 210/240

<sup>4</sup> Jumper cut or dip switch off

Items in **bold** boxes meet the requirements for ENERGY STAR v6.1

## 6 Suction Corrected Factor

Model Size		2 Ton	3 Ton	4 Ton	5 Ton
BOVA-Suction Line Connection Size		3/4	3/4	7/8	7/8
Suction Line Run - Feet		3/4 STD	3/4 STD	7/8 STD	7/8 STD
		5/8 OPT	5/8 OPT	3/4 OPT	3/4 OPT
25'	Standard	1	1	1	1
	Optional	1	0.99	0.99	0.98
50'	Standard	0.99	0.99	0.99	0.99
	Optional	0.99	0.98	0.98	0.97
100'	Standard	0.99	0.98	0.98	0.97
	Optional	0.98	0.95	0.97	0.95
150'	Standard	0.97	0.96	0.96	0.95
	Optional	0.96	0.93	0.95	0.93

Table 16

Std: Standard size

Opt: Optional size



Using suction line larger than shown in chart will result in poor oil return and is not recommended.

## 7 Sound Data

Model	Sound Power Level [dB(A)]	Full Octave Linear Sound Power Level dB -Center Frequency -Hz								Sound Power Level [dB(A)] with Sound Blanket
		100	125	250	500	1000	2000	4000	8000	
3 Ton	56 (Low)	26.1	28.9	37.5	44.4	48.1	42.5	47.1	40.7	Sound Blanket - Standard
	77 (High)	48.4	54.3	60.5	66.2	68.7	63.6	62.3	53.7	
5 Ton	60 (Low)	30.5	36.0	47.6	50.1	48.5	50.1	50.5	41.3	
	79 (High)	51.6	47.6	62.3	67.0	68.6	64.2	64.6	56.5	

Table 17 IDS Sound power level

## 8 Dimensions

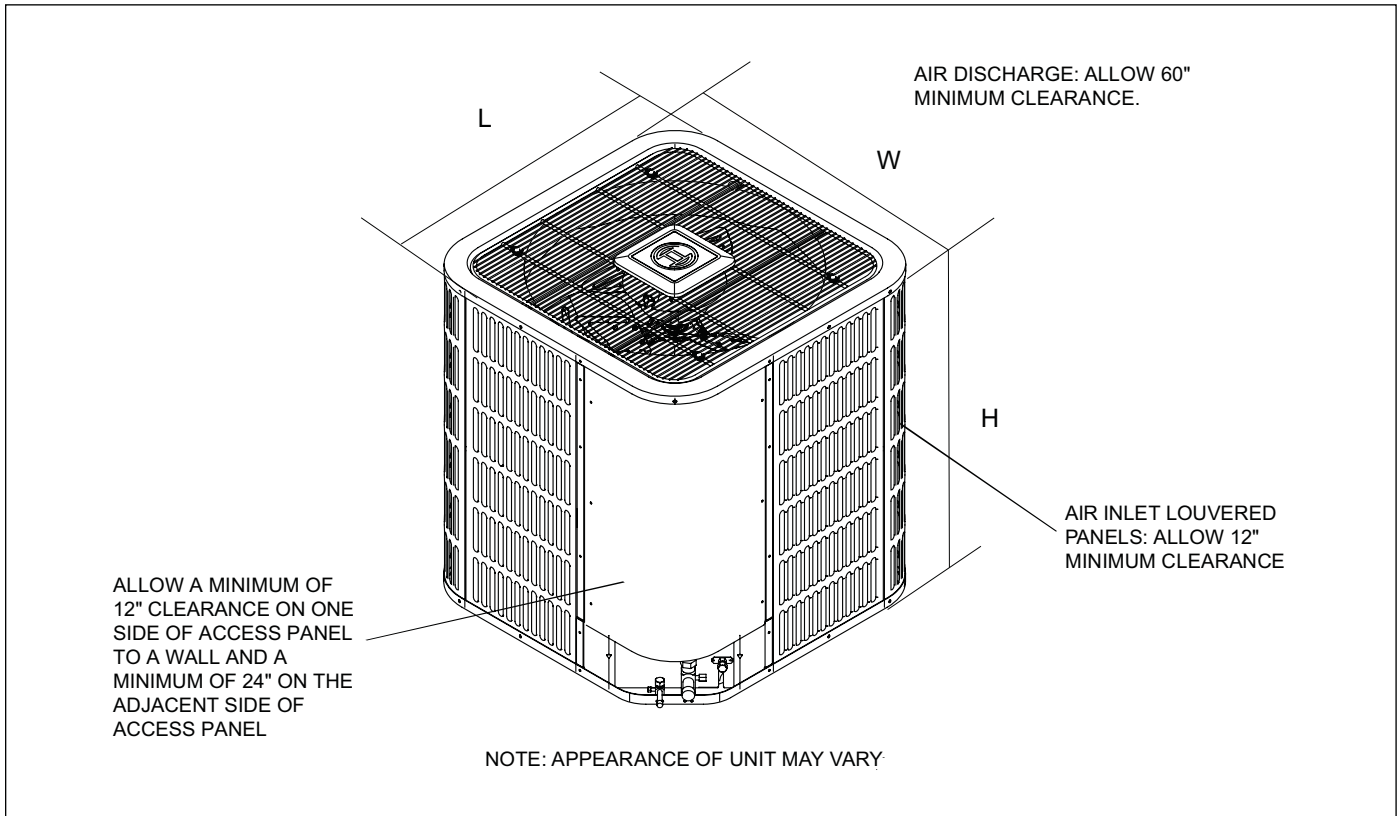


Figure 2

Model Size	Dimensions (Inches)		
	"H" in. [mm]	"W" in. [mm]	"L" in. [mm]
Heat Pump			
BOVA 36	24-15/16 [633]	29-1/8 [740]	29-1/8 [740]
BOVA 60	33-3/16 [843]	29-1/8 [740]	29-1/8 [740]

Table 18



**United States and Canada**

**Bosch Thermotechnology Corp.  
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Watertown, MA 02472**

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