



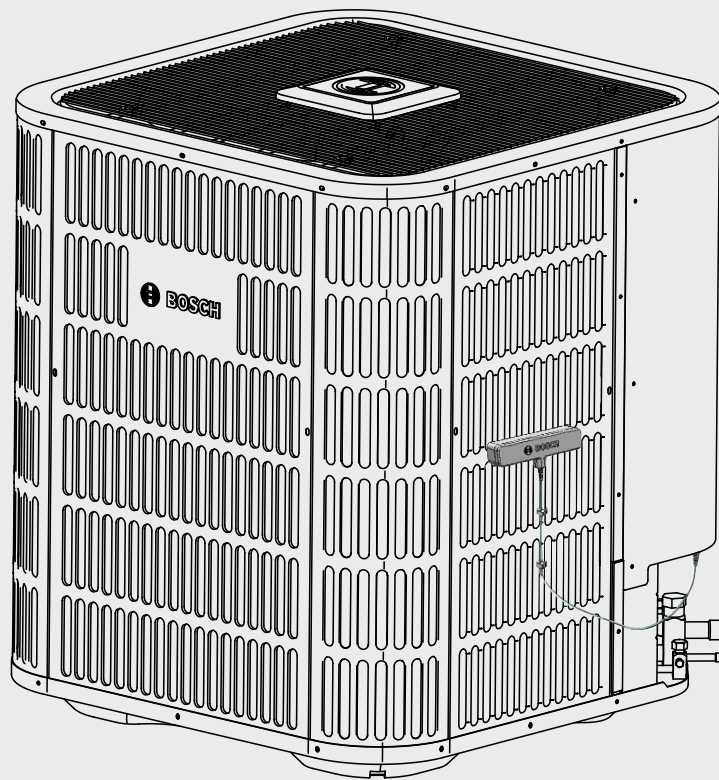
BOSCH

Product Specifications

Bosch IDS Heat Pump

Premium Connected Series Condensing Unit

2-3-4-5 Ton Capacity | R454B



BTC 762008301A / 08.2024



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1 Product Features

1.1 Features and Benefits

- Premium efficiency – Up to 20 SEER2
- Product designed to use R454B refrigerant
- Optional communication between Bosch BOVA20 and BIVA20 Air Handler unit
- Outdoor coil – copper tube with hydrophilic aluminum fins
- 10 speed ECM outdoor motor for quiet and efficient operation
- Inverter Drive Compressor (35%-138% speed in cooling, 34%-130% speed in heating), modulation in 1% increments
- Whisper Quiet operation
- 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

- 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 for full warranty terms and conditions.

** Warranty Labor Allowance Schedule details are available on <https://claims.bosch-homecomfort.us>

1.5 Bosch EasyAir App Features

- Simplifies unit installation with quick tips, live checkpoint data and refrigerant charging tools
- Enables in-app product registration and product warranty details
- Provides notifications, system data, fault code status/history, and diagnostic information when not on site
- Assists with on-site troubleshooting via guided workflows and access to live system data

Download the Bosch EasyAir app on your smartphone by searching for it in Google Play Store (for Android devices) or App Store (for iPhone). Alternatively, you can scan this QR code with your phone's camera:



Figure 1

Bosch EasyAir App is compatible with:

- Android 12.0 (Snow Cone) or later
- iOS 15.0 or later

2 Nomenclature

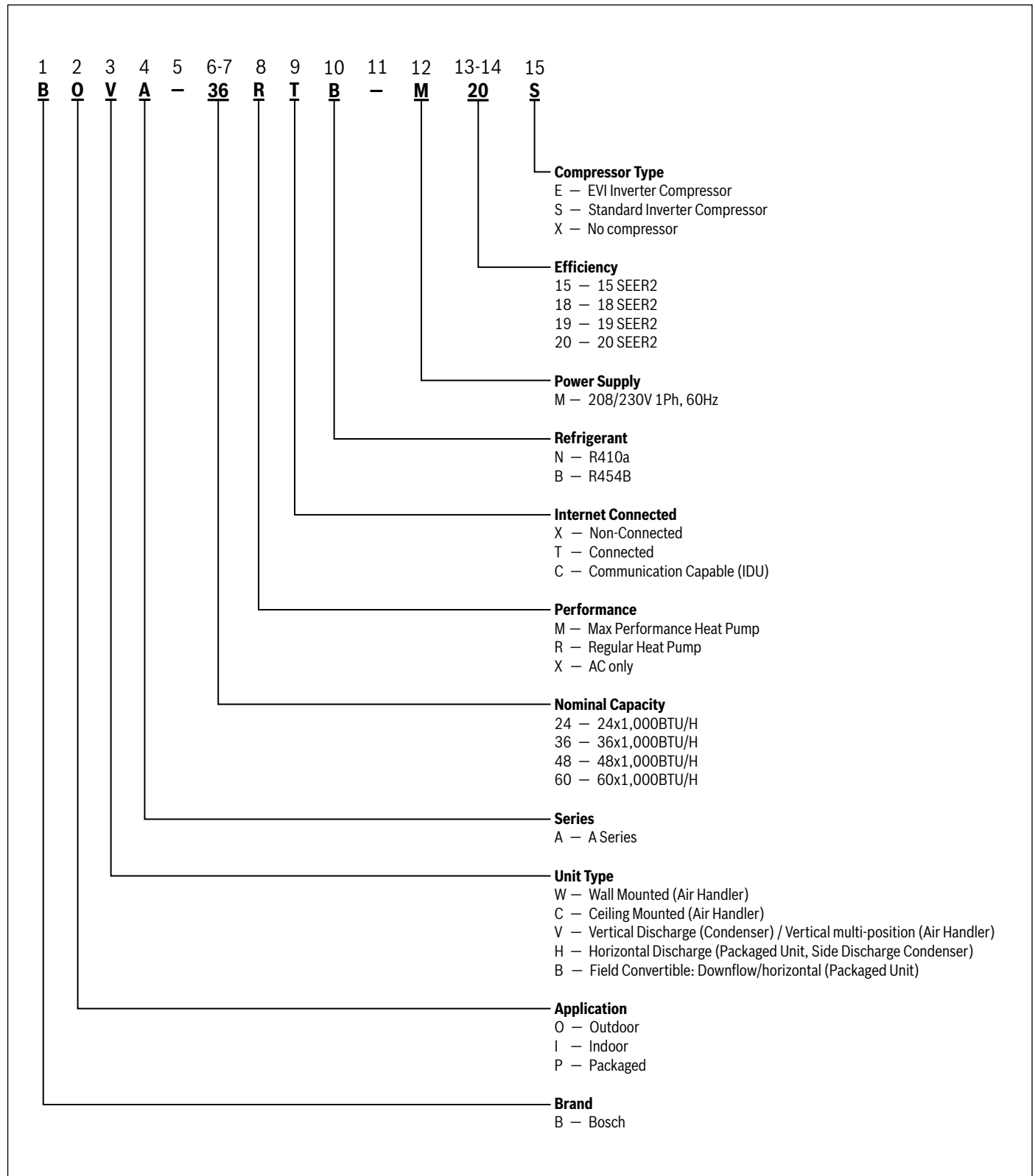


Figure 2

3 Product Specifications

	BOVA20-36	BOVA20-60
Cooling Capacity		
Nominal Cooling (BTU/h)	34,200	52,000
Nominal Heating (BTU/h)	34,200	55,000
Decibels([dB(A)])		
Max @ 100% load	75.7	78.3
Min @ min load	59.3	67.0
Compressor		
RLA	17	29
Condenser Fan Motor		
Horsepower (HP)	1/3	1/3
FLA	2.1	2.2
Refrigeration System		
Refrigerant Line Size¹		
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 (R454B)	6 lbs. 11 oz.	10 lbs. 3 oz.
Expansion Device	EEV	EEV
Maximum Line Length	150 FT	150 FT
Maximum Elevation Difference	50 FT	50 FT
Operating Range		
Cooling	15-125°F	
Heating	-4~86°F	
Electrical Data		
Voltage-Phase-Hz	208/230-1-60	208/230-1-60
Minimum Circuit Ampacity²	23.4	38.5
Max. Overcurrent Protection³	40	60
Max Fuse Size	30	45
Min/Max Volts	187/253	
Weight		
Net Weight (without packaging)	146	211
Gross Weight (including packaging)⁴	173	238
Dimensions		
Unit L x W x H (in.)	29-1/8×29-1/8×24-15/16	29-1/8×29-1/8×33-3/16
Outdoor Coil		
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

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

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

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

⁴ 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.

4 Extended Performance Data

4.1 Outdoor Unit (BOVA20) + Indoor Unit (BIVA20) – Cooling Mode

BOVA20-36 + BIVA20-24 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
500	15	TC	17.3	17.5	17.9	18.1	17.9	18.1	18.3	18.5	19.1	19.3	19.5	19.7	/	24.9	25.1	25.4
		S/T	0.9	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.6
		kW	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	/	1.2	1.2	1.2
	65	TC	17.4	17.6	18.1	18.3	18.1	18.3	18.5	18.7	19.3	19.5	19.7	19.8	/	25.1	25.3	25.6
		S/T	0.9	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.6
		kW	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	/	1.2	1.2	1.2
	75	TC	17.6	17.8	18.2	18.4	18.2	18.4	18.6	18.9	19.5	19.7	19.8	20.0	/	24.7	25.0	25.2
		S/T	0.9	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.6
		kW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	/	1.4	1.4	1.4
	85	TC	17.6	17.8	18.2	18.4	18.2	18.4	18.6	18.8	19.4	19.6	19.8	19.9	/	24.7	25.0	25.2
		S/T	0.9	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7
		kW	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	/	1.5	1.6	1.6
	95	TC	17.5	17.7	18.2	18.4	18.2	18.4	18.6	18.8	19.4	19.6	19.8	19.9	/	24.6	24.8	25.0
		S/T	0.9	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7
		kW	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	/	1.8	1.9	1.9
	105	TC	16.9	17.1	17.5	17.7	17.5	17.7	17.9	18.1	18.7	18.9	19.1	19.3	/	23.7	23.9	24.1
		S/T	0.9	1.0	1.0	1.0	0.6	0.8	1.0	1.0	0.4	0.6	0.8	0.9	/	0.4	0.5	0.7
		kW	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.9	/	2.2	2.3	2.3
	115	TC	16.6	16.8	17.2	17.4	17.2	17.4	17.6	17.8	18.4	18.6	18.8	19.0	/	23.5	23.7	23.9
		S/T	0.9	1.0	1.0	1.0	0.7	0.8	1.0	1.0	0.4	0.6	0.8	0.9	/	0.4	0.5	0.7
		kW	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.2	/	2.7	2.7	2.7
	125	TC	15.2	15.4	15.8	16.0	15.8	16.0	16.2	16.3	17.1	17.1	17.2	17.2	/	18.3	18.3	18.3
		S/T	0.9	1.0	1.0	1.0	0.6	0.8	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.8
		kW	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	/	2.2	2.2	2.2
600	15	TC	17.7	17.9	18.3	18.5	18.3	18.5	18.7	18.9	19.6	19.8	19.9	18.7	/	25.4	25.7	26.0
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.7	1.0	/	0.4	0.5	0.7
		kW	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	/	1.1	1.2	1.2
	65	TC	17.7	17.9	18.3	18.5	18.3	18.5	18.7	18.9	19.5	19.7	19.8	20.0	/	25.5	25.7	26.0
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7
		kW	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	/	1.1	1.2	1.2
	75	TC	17.9	18.1	18.5	18.7	18.5	18.7	18.9	19.1	19.7	19.8	20.0	20.2	/	25.1	25.4	25.6
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7
		kW	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	/	1.4	1.4	1.5
	85	TC	17.9	18.1	18.5	18.7	18.5	18.7	18.9	19.1	19.7	19.8	20.0	20.2	/	25.1	25.3	25.6
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7
		kW	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	/	1.6	1.6	1.6
	95	TC	17.8	18.0	18.4	18.6	18.4	18.6	18.8	19.0	19.6	19.8	19.9	20.2	/	25.0	25.2	25.4
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7
		kW	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	/	1.9	1.9	1.9
	105	TC	17.3	17.5	17.9	18.1	17.9	18.1	18.3	18.5	19.2	19.4	19.5	19.7	/	24.2	24.5	24.7
		S/T	1.0	1.0	1.0	1.0	0.7	0.9	1.0	1.0	0.4	0.6	0.8	0.9	/	0.4	0.6	0.7
		kW	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	/	2.3	2.3	2.3
	115	TC	17.0	17.2	17.6	17.8	17.6	17.8	18.0	18.2	18.9	19.1	19.2	19.4	/	24.0	24.2	24.5
		S/T	1.0	1.0	1.0	1.0	0.7	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.7
		kW	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	/	2.7	2.8	2.8
	125	TC	15.6	15.8	16.1	16.3	16.1	16.3	16.5	16.6	17.5	17.5	17.5	17.6	/	18.6	18.7	18.7
		S/T	1.0	1.0	1.0	1.0	0.7	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.8
		kW	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	/	2.2	2.2	2.2
700	15	TC	19.7	19.9	20.3	20.6	20.3	20.6	20.7	20.9	21.6	21.9	22.1	20.7	/	28.0	28.4	28.6
		S/T	0.96	0.99	0.99	0.99	0.64	0.9	0.97	0.99	0.39	0.58	0.75	0.99	/	0.39	0.53	0.66
		kW	0.99	1.0	1.01	1.01	1.01	1.02	1.04	1.05	1.04	1.05	1.06	1.08	/	1.33	1.34	1.35
	65	TC	19.6	19.8	20.2	20.4	20.2	20.4	20.6	20.8	21.5	21.7	21.9	22.2	/	27.7	28.0	28.2
		S/T	0.96	0.99	0.99	0.99	0.65	0.9	0.97	0.99	0.39	0.58	0.75	0.94	/	0.39	0.53	0.66
		kW	0.99	1.0	1.01	1.01	1.01	1.02	1.04	1.05	1.04	1.05	1.06	1.08	/	1.33	1.34	1.35
	75	TC	19.8	19.9	20.4	20.6	20.4	20.6	20.7	21.0	21.7	21.9	22.1	22.3	/	27.8	28.1	28.3
		S/T	0.96	0.99	0.99	0.99	0.64	0.9	0.97	0.99	0.39	0.58	0.75	0.94	/	0.39	0.53	0.66
		kW	1.14	1.15	1.16	1.16	1.16	1.19	1.2	1.21	1.21	1.22	1.23	1.25	/	1.53	1.56	1.58
	85	TC	19.8	19.9	20.4	20.6	20.4	20.6	20.7	21.0	21.6	21.9	22.1	22.3	/	27.6	27.7	28.0
		S/T	0.96	0.99	0.99	0.99	0.64	0.9	0.97	0.99	0.39	0.58	0.75	0.94	/	0.39	0.53	0.67
		kW	1.31	1.32	1.33	1.33	1.33	1.35	1.36	1.38	1.39	1.4	1.41	1.42	/	1.72	1.74	1.76
	95	TC	19.7	19.8	20.3	20.5	20.3	20.5	20.7	20.9	21.5	21.8	22.0	22.1	/	27.3	27.6	27.7
		S/T	0.96	0.99	0.99	0.99	0.64	0.9	0.97	0.99	0.39	0.58	0.74	0.95	/	0.39	0.53	0.67
		kW	1.58	1.6	1.61	1.61	1.61	1.63	1.64	1.66	1.67	1.68	1.69	1.7	/	2.07	2.11	2.12
	105	TC	18.9	19.2	19.5	19.7	19.5	19.7	19.9	20.2	20.8	21.0	21.2	21.4	/	26.4	26.7	26.9
		S/T	0.98	0.99	0.99	0.99	0.66	0.93	0.99	0.99	0.4	0.59	0.79	0.98	/	0.4	0.55	0.69
		kW	1.9	1.92	1.94	1.94	1.94	1.96	1.98	2.0	2.01	2.03	2.04	2.06	/	2.54	2.56	2.59
	115	TC	18.8	19.0	19.5	19.6	19.5	19.6	19.8	20.0	20.6	20.8	21.0	21.3	/	26.1	26.3	26.6
		S/T	0.98	0.99	0.99	0.99	0.66	0.93	0.99	0.99	0.4	0.59	0.79	0.99	/	0.4	0.56	0.7
		kW	2.26	2.28	2.3	2.3	2.3	2.33	2.35	2.37	2.39	2.41	2.43	2.45	/	3.04	3.08	3.11
	125	TC	15.8	16.0	16.4	16.5	16.4	16.5	16.7	16.9	17.7	17.8	17.8	17.8	/	18.9	19.0	19.0
		S/T	0.99	0.99	0.99	0.99	0.66	0.94	0.99	0.99	0.41	0.63	0.87	0.99	/	0.41	0.62	0.84
		kW	2.08	2.1	2.13	2.13	2.13	2.15	2.17	2.19	2.23	2.23	2.23	2.23	/	2.24	2.24	2.24

BOVA20-36 + BIVA20-24 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
800	15	TC	21.5	21.8	22.3	22.5	22.3	22.5	22.8	23.0	23.8	24.0	24.3	22.6	/	30.7	31.0	31.3
		S/T	1.0	1.0	1.0	1.0	0.7	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.5	0.7
		kW	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	/	1.2	1.3	1.3
	65	TC	21.6	21.8	22.3	22.6	22.3	22.6	22.8	23.1	23.9	24.1	24.3	24.6	/	30.2	30.5	30.8
		S/T	1.0	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	0.9	/	0.4	0.5	0.7
		kW	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	/	1.5	1.6	1.6
	75	TC	21.7	22.0	22.5	22.7	22.5	22.7	23.1	23.3	24.2	24.5	24.6	24.6	/	30.9	31.1	31.4
		S/T	1.0	1.0	1.0	1.0	0.7	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.5	0.7
		kW	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	/	1.8	1.8	1.8
	85	TC	21.6	21.8	22.3	22.6	22.3	22.6	22.8	23.2	24.2	24.3	24.4	24.6	/	30.5	30.8	31.0
		S/T	1.0	1.0	1.0	1.0	0.7	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.5	0.7
		kW	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	/	1.9	1.9	2.0
	95	TC	21.4	21.7	22.2	22.4	22.2	22.4	22.6	23.0	23.8	24.0	24.2	24.4	/	30.2	30.4	30.6
		S/T	1.0	1.0	1.0	1.0	0.7	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.5	0.7
		kW	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	/	2.3	2.3	2.3
	105	TC	20.4	20.7	21.2	21.4	21.2	21.4	21.7	21.9	22.6	22.8	23.0	23.3	/	28.5	28.7	29.0
		S/T	1.0	1.0	1.0	1.0	0.7	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.7
		kW	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.3	2.3	/	2.8	2.9	2.9
	115	TC	20.3	20.5	21.0	21.2	21.0	21.2	21.5	21.7	22.5	22.6	22.8	23.0	/	27.4	27.4	27.3
		S/T	1.0	1.0	1.0	1.0	0.7	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.7
		kW	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.7	2.7	2.7	/	3.2	3.2	3.2
	125	TC	16.0	16.2	16.5	16.7	16.5	16.7	16.8	17.0	17.9	18.0	18.0	18.0	/	19.2	19.2	19.2
		S/T	1.0	1.0	1.0	1.0	0.7	0.9	1.0	1.0	0.4	0.7	0.9	1.0	/	0.4	0.7	0.9
		kW	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	/	2.3	2.3	2.3
900	15	TC	25.1	25.4	26.0	26.3	26.0	26.3	26.6	26.8	27.7	27.9	28.2	28.5	/	35.1	35.4	35.6
		S/T	0.98	0.99	0.99	0.99	0.66	0.9	0.97	0.99	0.39	0.59	0.8	0.99	/	0.38	0.55	0.7
		kW	1.12	1.13	1.14	1.14	1.14	1.15	1.17	1.18	1.18	1.19	1.21	1.22	/	1.72	1.75	1.77
	65	TC	25.2	25.5	26.1	26.4	26.1	26.4	26.7	26.9	27.7	27.9	28.2	28.5	/	35.1	35.4	35.6
		S/T	0.98	0.99	0.99	0.99	0.66	0.9	0.97	0.99	0.39	0.59	0.8	0.99	/	0.38	0.55	0.7
		kW	1.44	1.45	1.47	1.47	1.47	1.48	1.5	1.51	1.51	1.52	1.54	1.55	/	2.05	2.08	2.1
	75	TC	25.55	25.86	26.46	26.77	26.46	26.77	26.97	27.27	28.08	28.38	28.58	28.89	/	35.45	35.75	35.96
		S/T	0.97	0.99	0.99	0.99	0.66	0.9	0.97	0.99	0.39	0.59	0.8	0.99	/	0.38	0.55	0.7
		kW	1.65	1.66	1.68	1.68	1.68	1.7	1.71	1.74	1.74	1.76	1.78	1.79	/	2.19	2.22	2.24
	85	TC	25.15	25.45	26.06	26.36	26.06	26.36	26.66	26.97	27.78	27.98	28.18	28.38	/	34.85	35.15	35.45
		S/T	0.97	0.99	0.99	0.99	0.66	0.9	0.97	0.99	0.39	0.59	0.8	0.99	/	0.38	0.55	0.7
		kW	1.81	1.83	1.85	1.85	1.85	1.86	1.88	1.9	1.92	1.94	1.95	1.96	/	2.42	2.44	2.48
	95	TC	24.85	25.15	25.76	26.06	25.76	26.06	26.36	26.56	27.47	27.67	27.98	28.08	/	33.53	33.73	33.73
		S/T	0.97	0.99	0.99	0.99	0.66	0.9	0.97	0.99	0.39	0.59	0.81	0.99	/	0.38	0.56	0.72
		kW	2.15	2.17	2.19	2.19	2.19	2.21	2.24	2.26	2.26	2.29	2.31	2.33	/	2.8	2.8	2.8
	105	TC	23.7	24.0	24.6	24.9	24.6	24.9	25.1	25.4	26.2	26.4	26.6	26.9	/	30.7	30.9	31.0
		S/T	0.98	0.99	0.99	0.99	0.68	0.93	0.99	0.99	0.4	0.61	0.84	0.99	/	0.4	0.59	0.77
		kW	2.58	2.61	2.63	2.63	2.63	2.67	2.7	2.72	2.73	2.75	2.77	2.8	/	3.16	3.16	3.16
	115	TC	23.3	23.6	24.2	24.4	24.2	24.4	24.7	25.0	25.8	26.0	26.2	26.4	/	28.2	28.3	28.5
		S/T	0.99	0.99	0.99	0.99	0.69	0.93	0.99	0.99	0.4	0.62	0.84	0.99	/	0.4	0.6	0.81
		kW	3.05	3.09	3.12	3.12	3.12	3.15	3.18	3.22	3.23	3.25	3.29	3.31	/	3.36	3.37	3.37
	125	TC	16.1	16.3	16.6	16.8	16.6	16.8	17.0	17.2	18.1	18.1	18.1	18.2	/	19.4	19.4	19.4
		S/T	0.99	0.99	0.99	0.99	0.72	0.93	0.99	0.99	0.41	0.72	0.89	0.99	/	0.42	0.72	0.99
		kW	2.24	2.28	2.3	2.3	2.3	2.32	2.34	2.37	2.42	2.42	2.42	2.42	/	2.43	2.43	2.43

Table 3

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

BOVA20-36 + BIVA20-36 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
750	15	TC	25.0	25.3	26.3	26.7	26.3	26.7	27.2	27.4	28.9	29.3	29.6	30.0	/	36.8	37.2	37.6
		S/T	0.8	0.9	0.9	1.0	0.6	0.8	0.9	0.9	0.4	0.5	0.7	0.8	/	0.3	0.5	0.6
		kW	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	/	1.7	1.7	1.7
	65	TC	24.3	24.7	25.4	25.9	25.4	25.9	26.4	26.8	28.2	28.6	28.8	29.2	/	36.2	36.6	37.4
		S/T	0.8	0.9	0.9	1.0	0.6	0.8	0.9	0.9	0.4	0.5	0.7	0.8	/	0.3	0.5	0.6
		kW	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	/	2.2	2.2	2.1
	75	TC	24.4	24.9	25.7	26.0	25.7	26.0	26.5	27.0	28.5	28.7	29.0	29.3	/	37.5	37.6	37.8
		S/T	0.8	0.9	0.9	1.0	0.6	0.8	0.8	0.9	0.4	0.5	0.7	0.8	/	0.3	0.5	0.6
		kW	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	/	2.3	2.3	2.3
	85	TC	23.6	24.0	24.9	25.2	24.9	25.2	25.6	26.0	27.5	27.8	28.1	28.3	/	34.6	34.9	35.2
		S/T	0.8	0.9	0.9	1.0	0.6	0.8	0.9	0.9	0.4	0.5	0.7	0.8	/	0.3	0.5	0.6
		kW	1.9	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.1	2.1	/	2.5	2.5	2.5
	95	TC	22.8	23.0	23.8	24.3	23.8	24.3	24.7	25.1	26.6	26.8	27.1	27.3	/	32.3	32.5	32.5
		S/T	0.8	0.9	0.9	1.0	0.6	0.8	0.9	0.9	0.4	0.5	0.7	0.8	/	0.3	0.5	0.6
		kW	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	/	2.8	2.8	2.8
	105	TC	20.4	20.8	21.5	21.9	21.5	21.9	22.2	22.6	24.0	24.2	24.4	24.7	/	26.7	27.0	26.7
		S/T	0.8	0.9	0.9	1.0	0.6	0.8	0.9	0.9	0.4	0.5	0.7	0.8	/	0.3	0.5	0.6
		kW	2.7	2.7	2.8	2.8	2.8	2.8	2.8	2.9	2.9	2.9	2.9	2.9	/	3.0	3.0	3.0
	115	TC	13.9	14.1	14.8	15.0	14.8	15.0	15.4	15.6	16.8	16.9	17.0	17.2	/	18.9	19.0	19.1
		S/T	0.8	0.9	0.9	1.0	0.6	0.8	0.9	0.9	0.4	0.5	0.7	0.9	/	0.3	0.5	0.6
		kW	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	/	2.7	2.7	2.7
	125	TC	5.9	6.0	6.4	6.6	6.4	6.6	6.9	7.1	8.0	8.0	8.1	8.1	/	9.4	9.4	9.4
		S/T	0.8	0.8	0.9	1.0	0.6	0.8	0.9	0.9	0.4	0.6	0.8	1.0	/	0.4	0.6	0.8
		kW	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	/	1.8	1.8	1.8
900	15	TC	26.3	26.7	27.5	27.9	27.5	27.9	28.3	28.7	30.0	30.3	30.7	30.9	/	37.3	37.7	38.1
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	0.9	0.4	0.5	0.7	0.9	/	0.3	0.5	0.6
		kW	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	/	1.7	1.7	1.8
	65	TC	25.6	26.1	26.8	27.1	26.8	27.1	27.6	28.0	29.3	29.6	29.9	30.2	/	36.8	37.1	37.9
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	0.9	0.4	0.5	0.7	0.9	/	0.3	0.5	0.6
		kW	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	2.0	/	2.3	2.3	2.2
	75	TC	25.7	26.2	27.0	27.3	27.0	27.3	27.7	28.1	29.5	29.7	30.1	30.4	/	38.0	38.2	38.3
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	0.9	0.4	0.5	0.7	0.9	/	0.3	0.5	0.6
		kW	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.0	2.0	2.0	/	2.5	2.5	2.5
	85	TC	25.1	25.4	26.2	26.6	26.2	26.6	26.9	27.3	28.8	29.0	29.2	29.4	/	35.3	35.5	35.8
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	0.9	0.4	0.5	0.7	0.9	/	0.3	0.5	0.6
		kW	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	/	2.7	2.7	2.7
	95	TC	24.2	24.5	25.2	25.6	25.2	25.6	26.1	26.4	27.8	28.0	28.2	28.6	/	33.1	33.3	33.3
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	0.9	0.4	0.5	0.7	0.9	/	0.3	0.5	0.6
		kW	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	2.6	/	3.0	3.0	3.0
	105	TC	22.1	22.4	23.1	23.5	23.1	23.5	23.8	24.1	25.5	25.7	25.8	26.1	/	28.1	28.3	28.1
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	0.9	0.4	0.5	0.7	0.9	/	0.4	0.5	0.6
		kW	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.1	3.1	/	3.2	3.2	3.1
	115	TC	16.0	16.2	16.7	17.0	16.7	17.0	17.3	17.5	18.7	18.8	18.9	19.1	/	20.6	20.7	20.8
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	0.9	0.4	0.5	0.7	0.9	/	0.4	0.5	0.7
		kW	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.7	2.7	/	2.8	2.8	2.8
	125	TC	8.4	8.6	9.0	9.1	9.0	9.1	9.3	9.5	10.4	10.4	10.5	10.5	/	11.7	11.7	11.7
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	0.9	0.4	0.6	0.9	1.0	/	0.4	0.6	0.9
		kW	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	/	1.9	1.9	1.9
1050	15	TC	29.2	29.6	30.5	30.8	30.5	30.8	31.3	31.6	32.9	33.2	33.7	34.0	/	40.4	40.6	41.0
		S/T	0.89	0.94	0.99	0.99	0.61	0.84	0.97	0.99	0.35	0.54	0.73	0.93	/	0.35	0.5	0.64
		kW	1.27	1.29	1.31	1.31	1.31	1.32	1.34	1.34	1.34	1.35	1.37	1.39	/	1.81	1.83	1.86
	65	TC	28.7	29.0	29.7	30.2	29.7	30.2	30.6	30.9	32.4	32.7	32.8	33.1	/	39.8	40.2	40.8
		S/T	0.89	0.94	0.99	0.99	0.59	0.84	0.97	0.99	0.35	0.54	0.72	0.91	/	0.35	0.5	0.65
		kW	1.9	1.92	1.94	1.94	1.94	1.97	1.99	2.0	2.0	2.02	2.05	2.07	/	2.42	2.44	2.31
	75	TC	28.8	29.1	30.0	30.3	30.0	30.3	30.7	31.1	32.6	32.7	33.0	33.3	/	40.9	41.1	41.3
		S/T	0.9	0.95	0.99	0.99	0.6	0.84	0.97	0.99	0.35	0.53	0.72	0.91	/	0.35	0.5	0.65
		kW	1.9	1.92	1.95	1.95	1.95	1.96	1.98	2.01	2.01	2.02	2.04	2.07	/	2.58	2.59	2.59
	85	TC	28.0	28.4	29.1	29.5	29.1	29.5	29.9	30.3	31.7	31.9	32.2	32.5	/	38.3	38.5	38.8
		S/T	0.9	0.95	0.99	0.99	0.6	0.85	0.97	0.99	0.35	0.54	0.73	0.93	/	0.35	0.5	0.65
		kW	2.15	2.16	2.19	2.19	2.19	2.22	2.23	2.26	2.27	2.29	2.3	2.32	/	2.76	2.79	2.8
	95	TC	27.1	27.5	28.2	28.7	28.2	28.7	29.0	29.3	30.7	30.9	31.2	31.5	/	36.2	36.4	36.4
		S/T	0.9	0.95	0.99	0.99	0.6	0.85	0.97	0.99	0.35	0.54	0.73	0.94	/	0.35	0.5	0.67
		kW	2.52	2.55	2.58	2.58	2.58	2.6	2.63	2.65	2.67	2.69	2.71	2.73	/	3.12	3.13	3.13
	105	TC	25.0	25.3	25.9	26.3	25.9	26.3	26.6	27.0	28.3	28.5	28.7	29.0	/	30.9	31.0	30.9
		S/T	0.89	0.94	0.99	0.99	0.6	0.85	0.97	0.99	0.35	0.54	0.75	0.95	/	0.35	0.51	0.68
		kW	3.0	3.03	3.07	3.07	3.07	3.1	3.13	3.16	3.18	3.21	3.23	3.25	/	3.34	3.36	3.31
	115	TC	18.8	19.0	19.6	19.9	19.6	19.9	20.1	20.3	21.6	21.7	21.8	21.9	/	23.5	23.6	23.6
		S/T	0.9	0.95	0.99	0.99	0.6	0.86	0.97	0.99	0.36	0.58	0.79	0.99	/	0.35	0.55	0.76
		kW	2.65	2.68	2.72	2.72	2.72	2.74	2.77	2.8	2.83	2.84	2.86	2.87	/	2.96	2.97	2.98
	125	TC	11.1	11.3	11.8	12.0	11.8	12.0	12.2	12.4	13.2	13.2	13.3	13.3	/	14.4	14.4	14.4
		S/T	0.9	0.95	0.99	0.99	0.69	0.99	0.97	0.99	0.37	0.69	0.99	0.99	/	0.38	0.68	0.99
		kW	1.89	1.91	1.93	1.93	1.93	1.95	1.97	1.99	2.03	2.03	2.03	2.03	/	2.04	2.04	2.04

BOVA20-36 + BIVA20-36 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
1200	15	TC	32.2	32.6	33.4	33.9	33.4	33.9	34.3	34.5	35.9	36.3	36.6	36.9	/	43.3	43.6	44.1
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.3	0.5	0.7
		kW	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.5	/	1.9	1.9	2.0
	65	TC	31.6	32.0	32.7	33.1	32.7	33.1	33.5	34.0	35.3	35.6	35.8	36.2	/	42.8	43.1	43.9
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.5	0.7
		kW	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.2	2.2	/	2.5	2.6	2.4
	75	TC	31.9	32.3	33.1	33.4	33.1	33.4	33.9	34.3	35.7	35.9	36.2	36.6	/	44.2	44.4	44.4
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.5	0.7
		kW	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.2	/	2.7	2.7	2.7
	85	TC	31.1	31.6	32.3	32.7	32.3	32.7	33.0	33.4	34.8	35.1	35.4	35.6	/	41.5	41.7	42.0
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.5	0.7
		kW	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	/	2.9	2.9	3.0
	95	TC	30.4	30.7	31.4	31.8	31.4	31.8	32.2	32.6	34.0	34.2	34.4	34.6	/	39.3	39.5	39.5
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.5	0.7
		kW	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.9	2.9	/	3.3	3.3	3.3
	105	TC	27.7	28.1	28.8	29.1	28.8	29.1	29.4	29.8	31.0	31.3	31.5	31.8	/	33.7	33.9	33.7
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.7
		kW	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.4	3.4	3.4	/	3.5	3.5	3.5
	115	TC	21.6	21.8	22.4	22.7	22.4	22.7	23.0	23.2	24.3	24.4	24.5	24.8	/	26.3	26.4	26.5
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.9	1.0	/	0.4	0.6	0.9
		kW	2.8	2.8	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	/	3.1	3.1	3.1
	125	TC	14.0	14.1	14.5	14.7	14.5	14.7	15.0	15.2	16.0	16.0	16.1	16.1	/	17.3	17.3	17.3
		S/T	0.9	1.0	1.0	1.0	0.8	1.0	1.0	1.0	0.4	0.8	1.0	1.0	/	0.4	0.7	1.0
		kW	2.0	2.0	2.0	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	/	2.1	2.1	2.1
1300	15	TC	35.2	35.6	36.4	36.8	36.4	36.8	37.2	37.6	38.9	39.2	39.6	40.0	/	46.3	46.6	47.0
		S/T	0.95	0.99	1.0	1.0	0.69	0.96	1.0	1.0	0.42	0.62	0.83	1.0	/	0.41	0.57	0.76
		kW	1.4	1.42	1.44	1.44	1.44	1.45	1.47	1.48	1.48	1.49	1.51	1.53	/	1.99	2.01	2.04
	65	TC	34.5	35.0	35.7	36.2	35.7	36.2	36.5	36.9	38.2	38.5	38.8	39.1	/	45.8	46.0	46.8
		S/T	0.95	0.99	1.0	1.0	0.69	0.95	1.0	1.0	0.42	0.63	0.83	1.0	/	0.41	0.59	0.76
		kW	2.09	2.11	2.13	2.13	2.13	2.16	2.18	2.2	2.2	2.22	2.25	2.27	/	2.65	2.67	2.54
	75	TC	34.95	35.45	36.26	36.56	36.26	36.56	36.97	37.37	38.78	39.09	39.39	39.69	/	47.37	47.57	47.67
		S/T	0.95	1.0	1.0	1.0	0.68	0.95	1.0	1.0	0.42	0.63	0.83	1.0	/	0.41	0.59	0.76
		kW	2.11	2.13	2.16	2.16	2.16	2.17	2.19	2.22	2.22	2.24	2.26	2.29	/	2.86	2.87	2.87
	85	TC	34.34	34.64	35.45	35.86	35.45	35.86	36.16	36.56	38.08	38.28	38.48	38.68	/	44.64	44.84	45.15
		S/T	0.95	1.0	1.0	1.0	0.69	0.96	1.0	1.0	0.42	0.63	0.85	1.0	/	0.42	0.6	0.78
		kW	2.38	2.4	2.43	2.43	2.43	2.46	2.48	2.5	2.51	2.53	2.55	2.57	/	3.06	3.09	3.11
	95	TC	33.43	33.73	34.54	34.85	34.54	34.85	35.35	35.65	37.07	37.27	37.47	37.88	/	42.42	42.62	42.62
		S/T	0.96	1.0	1.0	1.0	0.69	0.97	1.0	1.0	0.42	0.64	0.86	1.0	/	0.42	0.61	0.8
		kW	2.8	2.83	2.85	2.85	2.85	2.88	2.91	2.94	2.96	2.98	3.0	3.02	/	3.46	3.47	3.47
	105	TC	30.6	30.8	31.6	32.0	31.6	32.0	32.3	32.6	33.9	34.1	34.3	34.6	/	36.5	36.7	36.5
		S/T	0.96	1.0	1.0	1.0	0.7	0.97	1.0	1.0	0.42	0.64	0.87	1.0	/	0.42	0.63	0.85
		kW	3.33	3.36	3.4	3.4	3.4	3.44	3.47	3.51	3.53	3.56	3.58	3.61	/	3.7	3.72	3.66
	115	TC	24.4	24.7	25.2	25.5	25.2	25.5	25.8	26.0	27.1	27.2	27.3	27.5	/	29.1	29.2	29.3
		S/T	0.96	1.0	1.0	1.0	0.71	0.98	1.0	1.0	0.43	0.71	0.99	1.0	/	0.43	0.7	0.97
		kW	2.94	2.97	3.01	3.01	3.01	3.04	3.07	3.1	3.14	3.15	3.17	3.18	/	3.28	3.29	3.3
	125	TC	16.8	17.0	17.4	17.6	17.4	17.6	17.7	17.9	18.9	18.9	19.0	19.0	/	20.1	20.1	20.1
		S/T	0.96	1.0	1.0	1.0	0.85	0.99	1.0	1.0	0.44	0.86	1.0	1.0	/	0.46	0.76	1.0
		kW	2.09	2.12	2.14	2.14	2.14	2.16	2.18	2.21	2.25	2.25	2.25	2.25	/	2.26	2.26	2.26

Table 5

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

BOVA20-60 + BIVA20-48 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
1200	15	TC	36.8	37.1	38.0	38.4	38.0	38.4	38.8	39.2	40.5	40.9	41.3	41.6	/	49.3	49.6	50.6
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	0.9	0.4	0.6	0.7	0.8	/	0.4	0.5	0.6
		kW	1.4	1.4	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	/	2.2	2.2	2.2
	65	TC	36.7	37.0	37.9	38.3	37.9	38.3	38.7	39.1	40.5	40.8	41.2	41.5	/	49.2	49.5	50.5
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	0.9	0.4	0.6	0.7	0.8	/	0.4	0.5	0.6
		kW	2.0	2.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	/	2.8	2.8	2.6
	75	TC	36.4	36.9	37.6	38.1	37.6	38.1	38.5	38.8	40.2	40.5	40.9	41.3	/	48.7	49.3	49.6
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	0.9	0.4	0.6	0.7	0.8	/	0.4	0.5	0.6
		kW	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	/	2.8	2.7	2.7
	85	TC	36.0	36.4	37.2	37.6	37.2	37.6	38.0	38.4	40.2	40.4	40.5	40.8	/	48.1	48.5	48.9
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	0.9	0.4	0.6	0.7	0.9	/	0.4	0.5	0.6
		kW	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.5	2.5	2.5	2.5	/	3.0	3.1	3.1
	95	TC	35.6	36.0	36.9	37.2	36.9	37.2	37.6	38.1	39.3	39.8	40.1	40.4	/	47.4	47.7	48.0
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	0.9	0.4	0.6	0.7	0.9	/	0.4	0.5	0.6
		kW	2.8	2.8	2.8	2.8	2.8	2.9	2.9	2.9	2.9	3.0	3.0	3.0	/	3.6	3.7	3.7
	105	TC	32.5	32.9	33.6	33.9	33.6	33.9	34.4	34.7	35.9	36.1	36.5	36.8	/	42.9	43.2	43.4
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	0.9	0.4	0.6	0.7	0.9	/	0.4	0.5	0.6
		kW	3.5	3.5	3.5	3.5	3.5	3.6	3.6	3.6	3.7	3.7	3.7	3.7	/	4.5	4.5	4.6
	115	TC	32.1	32.3	33.2	33.6	33.2	33.6	33.8	34.2	35.4	35.6	35.9	36.2	/	39.0	39.2	39.5
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	0.9	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7
		kW	4.1	4.2	4.2	4.2	4.2	4.3	4.3	4.3	4.4	4.4	4.4	4.5	/	4.7	4.7	4.7
	125	TC	25.6	26.0	26.5	26.8	26.5	26.8	27.1	27.4	28.6	28.7	28.8	28.8	/	30.5	30.6	30.7
		S/T	0.9	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.8
		kW	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.5	3.6	3.6	3.6	3.6	/	3.6	3.6	3.6
1350	15	TC	38.6	39.0	39.9	40.4	39.9	40.4	40.7	41.2	42.5	43.0	43.4	43.8	/	52.2	52.6	53.1
		S/T	0.9	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.6
		kW	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.6	/	2.2	2.2	2.2
	65	TC	38.3	38.7	39.5	40.0	39.5	40.0	40.5	40.8	42.7	42.8	43.0	43.4	/	52.2	52.6	53.1
		S/T	0.9	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.6
		kW	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.3	2.3	2.3	2.4	/	2.8	2.8	2.8
	75	TC	38.5	38.8	39.7	40.2	39.7	40.2	40.6	41.0	42.4	42.8	43.2	43.6	/	51.9	52.3	52.7
		S/T	0.9	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7
		kW	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	/	3.0	3.0	3.0
	85	TC	37.9	38.4	39.2	39.6	39.2	39.6	40.1	40.5	41.9	42.3	42.6	43.0	/	51.1	51.4	51.8
		S/T	0.9	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7
		kW	2.6	2.6	2.6	2.6	2.6	2.6	2.7	2.7	2.7	2.8	2.8	2.8	/	3.4	3.4	3.4
	95	TC	37.4	37.9	38.7	39.1	38.7	39.1	39.6	40.0	41.4	41.8	42.1	42.4	/	50.0	50.4	50.8
		S/T	0.9	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7
		kW	3.1	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.3	3.3	3.3	3.3	/	4.0	4.0	4.1
	105	TC	34.3	34.8	35.6	35.9	35.6	35.9	36.3	36.7	38.0	38.3	38.7	38.9	/	45.6	46.0	46.2
		S/T	0.9	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7
		kW	3.7	3.7	3.8	3.8	3.8	3.8	3.9	3.9	3.9	4.0	4.0	4.0	/	4.8	4.9	4.9
	115	TC	33.7	34.1	34.8	35.1	34.8	35.1	35.6	35.9	37.5	37.6	37.8	37.7	/	39.8	40.0	40.1
		S/T	0.9	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.6	0.7
		kW	4.4	4.4	4.5	4.5	4.5	4.5	4.6	4.6	4.7	4.7	4.7	4.7	/	4.7	4.7	4.8
	125	TC	26.1	26.4	27.0	27.3	27.0	27.3	27.6	27.8	29.2	29.2	29.3	29.4	/	31.1	31.2	31.2
		S/T	0.9	0.9	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.8
		kW	3.4	3.4	3.5	3.5	3.5	3.5	3.6	3.6	3.7	3.7	3.7	3.7	/	3.7	3.7	3.7
1550	15	TC	41.3	41.8	42.7	43.2	42.7	43.2	43.7	44.1	45.6	46.0	46.4	46.9	/	55.4	55.9	56.3
		S/T	0.9	0.93	0.99	0.99	0.62	0.84	0.95	0.99	0.4	0.56	0.72	0.9	/	0.39	0.52	0.66
		kW	1.77	1.79	1.8	1.8	1.8	1.83	1.85	1.87	1.83	1.87	1.9	1.93	/	2.3	2.32	2.34
	65	TC	40.7	41.2	42.1	42.5	42.1	42.5	43.0	43.5	45.0	45.4	45.8	46.1	/	55.2	55.6	56.1
		S/T	0.9	0.93	0.99	0.99	0.61	0.84	0.95	0.99	0.4	0.57	0.73	0.91	/	0.39	0.52	0.66
		kW	2.47	2.5	2.52	2.52	2.52	2.55	2.58	2.6	2.59	2.62	2.65	2.69	/	3.14	3.17	3.2
	75	TC	40.9	41.4	42.3	42.7	42.3	42.7	43.2	43.7	45.2	45.6	45.9	46.3	/	54.9	55.2	55.6
		S/T	0.9	0.93	0.99	0.99	0.62	0.84	0.95	0.99	0.4	0.57	0.73	0.91	/	0.39	0.52	0.66
		kW	2.54	2.58	2.61	2.61	2.61	2.63	2.66	2.69	2.68	2.71	2.74	2.76	/	3.24	3.26	3.3
	85	TC	40.3	40.7	41.7	42.2	41.7	42.2	42.5	43.0	44.5	45.0	45.3	45.7	/	53.8	54.3	54.7
		S/T	0.9	0.93	0.99	0.99	0.62	0.84	0.95	0.99	0.4	0.57	0.73	0.91	/	0.39	0.52	0.66
		kW	2.78	2.82	2.85	2.85	2.85	2.88	2.9	2.93	2.94	2.97	2.99	3.02	/	3.62	3.65	3.67
	95	TC	39.8	40.3	41.2	41.6	41.2	41.6	42.1	42.5	44.0	44.3	44.8	45.1	/	52.7	53.1	53.4
		S/T	0.9	0.93	0.99	0.99	0.62	0.84	0.95	0.99	0.4	0.57	0.74	0.92	/	0.39	0.52	0.67
		kW	3.32	3.35	3.39	3.39	3.39	3.42	3.46	3.49	3.51	3.54	3.57	3.6	/	4.3	4.34	4.37
	105	TC	36.3	36.8	37.6	38.0	37.6	38.0	38.4	38.8	40.1	40.6	40.9	41.2	/	47.9	48.1	48.4
		S/T	0.9	0.93	0.99	0.99	0.62	0.85	0.95	0.99	0.4	0.57	0.74	0.92	/	0.39	0.53	0.68
		kW	4.05	4.09	4.14	4.14	4.14	4.18	4.22	4.26	4.28	4.32	4.35	4.38	/	5.23	5.26	5.3
	115	TC	34.1	34.5	35.3	35.7	35.3	35.7	36.1	36.4	38.0	38.1	38.3	38.2	/	41.1	41.2	41.3
		S/T	0.9	0.93	0.99	0.99	0.62	0.86	0.95	0.99	0.4	0.59	0.78	0.99	/	0.4	0.57	0.74
		kW	4.5	4.54	4.6	4.6	4.6	4.64	4.69	4.74	4.82	4.81	4.83	4.78	/	4.96	4.98	5.0
	125	TC	26.3	26.5	27.1	27.4	27.1	27.4	27.7	28.0	29.4	29.4	29.5	29.5	/	31.3	31.4	31.4
		S/T	0.91	0.95	0.99	0.99	0.65	0.92	0.95	0.99	0.4	0.65	0.9	0.98	/	0.4	0.64	0.87
		kW	3.5	3.53	3.58	3.58	3.58	3.61	3.65	3.68	3.76	3.76	3.76	3.77	/	3.79	3.79	3.79

BOVA20-60 + BIVA20-48 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
1750	15	TC	43.8	44.3	45.3	45.8	45.3	45.8	46.2	46.8	48.4	48.8	49.3	49.6	/	58.3	58.6	59.0
		S/T	0.9	0.9	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	0.9	/	0.4	0.5	0.7
		kW	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.3	2.2	2.3	2.3	2.4	/	2.8	2.8	2.9
	65	TC	42.9	43.4	44.3	44.8	44.3	44.8	45.3	45.8	47.6	47.8	48.2	49.4	/	57.9	58.3	59.1
		S/T	0.9	0.9	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	0.9	/	0.4	0.5	0.7
		kW	2.8	2.8	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	2.8	/	3.5	3.5	3.3
	75	TC	43.5	44.0	44.9	45.4	44.9	45.4	45.9	46.4	47.9	48.2	48.8	49.2	/	58.1	58.5	58.8
		S/T	0.9	0.9	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	0.9	/	0.4	0.5	0.7
		kW	2.7	2.8	2.8	2.8	2.8	2.8	2.9	2.9	3.0	3.0	2.9	3.0	/	3.5	3.5	3.5
	85	TC	42.6	43.1	44.1	44.5	44.1	44.5	45.0	45.5	47.2	47.6	47.9	48.2	/	56.7	57.0	57.4
		S/T	0.9	0.9	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.5	0.7
		kW	3.1	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.3	3.3	3.3	3.3	/	4.0	4.0	4.0
	95	TC	41.8	42.3	43.2	43.7	43.2	43.7	44.2	44.6	46.3	46.6	47.0	47.4	/	55.2	55.6	56.0
		S/T	0.9	0.9	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.7
		kW	3.6	3.7	3.7	3.7	3.7	3.7	3.8	3.8	3.8	3.9	3.9	3.9	/	4.7	4.7	4.8
	105	TC	37.9	38.4	39.3	39.6	39.3	39.6	40.0	40.5	42.1	42.4	42.6	42.9	/	49.7	49.7	49.9
		S/T	0.9	0.9	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.7
		kW	4.4	4.4	4.5	4.5	4.5	4.5	4.6	4.6	4.7	4.7	4.7	4.8	/	5.4	5.4	5.4
	115	TC	34.1	34.5	35.3	35.7	35.3	35.7	36.1	36.4	38.0	38.2	38.4	38.6	/	42.0	38.9	39.1
		S/T	0.9	0.9	1.0	1.0	0.7	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.8
		kW	4.6	4.6	4.7	4.7	4.7	4.7	4.8	4.8	5.0	5.0	4.9	4.9	/	3.9	3.9	3.9
	125	TC	26.3	26.5	27.1	27.5	27.1	27.5	27.7	28.0	29.4	29.5	29.5	29.6	/	31.4	31.4	31.4
		S/T	0.9	1.0	1.0	1.0	0.7	1.0	1.0	1.0	0.4	0.7	1.0	1.0	/	0.4	0.7	1.0
		kW	3.6	3.7	3.7	3.7	3.7	3.7	3.8	3.8	3.9	3.9	3.9	3.9	/	3.9	3.9	3.9
1850	15	TC	45.2	45.8	46.7	47.3	46.7	47.3	47.7	48.3	50.1	50.5	50.8	51.3	/	60.3	60.7	61.1
		S/T	0.92	0.96	1.0	1.0	0.65	0.89	0.96	1.0	0.4	0.59	0.79	0.99	/	0.39	0.54	0.71
		kW	2.75	2.79	2.82	2.82	2.82	2.85	2.87	2.9	2.91	2.95	2.97	3.0	/	3.44	3.47	3.5
	65	TC	45.2	45.8	46.7	47.3	46.7	47.3	47.7	48.3	50.1	50.5	50.8	51.3	/	60.3	60.7	61.1
		S/T	0.92	0.96	1.0	1.0	0.65	0.89	0.96	1.0	0.4	0.59	0.79	0.99	/	0.39	0.54	0.71
		kW	2.75	2.79	2.82	2.82	2.82	2.85	2.87	2.9	2.91	2.95	2.97	3.0	/	3.44	3.47	3.5
	75	TC	45.25	45.85	46.76	47.37	46.76	47.37	47.87	48.28	50.1	50.5	50.9	51.31	/	60.2	60.6	60.9
		S/T	0.93	0.97	0.99	1.0	0.65	0.9	0.96	1.0	0.4	0.6	0.79	0.99	/	0.39	0.56	0.71
		kW	2.91	2.94	2.97	2.97	2.97	3.0	3.03	3.07	3.08	3.11	3.13	3.16	/	3.67	3.7	3.73
	85	TC	44.54	44.95	45.96	46.46	45.96	46.46	46.97	47.47	49.19	49.59	50.0	50.3	/	58.78	59.09	59.39
		S/T	0.93	0.97	1.0	1.0	0.65	0.9	0.96	1.0	0.4	0.6	0.8	1.0	/	0.39	0.56	0.72
		kW	3.26	3.3	3.34	3.34	3.34	3.37	3.4	3.44	3.45	3.47	3.5	3.54	/	4.19	4.22	4.25
	95	TC	43.43	43.94	44.95	45.45	44.95	45.45	45.96	46.36	48.18	48.48	48.88	49.29	/	57.27	57.47	57.87
		S/T	0.92	0.97	1.0	1.0	0.65	0.91	0.96	1.0	0.4	0.6	0.81	1.0	/	0.39	0.57	0.73
		kW	3.83	3.87	3.91	3.91	3.91	3.95	3.99	4.04	4.06	4.09	4.12	4.15	/	4.92	4.96	4.99
	105	TC	39.2	39.6	40.5	41.0	40.5	41.0	41.3	41.8	43.4	43.7	44.0	44.3	/	50.2	50.5	50.3
		S/T	0.93	0.97	1.0	1.0	0.66	0.92	0.96	1.0	0.4	0.61	0.82	1.0	/	0.4	0.58	0.75
		kW	4.62	4.67	4.72	4.72	4.72	4.77	4.82	4.87	4.89	4.92	4.96	5.01	/	5.51	5.51	5.54
	115	TC	34.9	35.2	36.0	36.4	36.0	36.4	36.8	37.3	38.8	39.0	39.2	39.4	/	39.6	39.8	39.9
		S/T	0.92	0.97	1.0	1.0	0.66	0.93	0.96	1.0	0.4	0.64	0.87	1.0	/	0.4	0.62	0.83
		kW	4.65	4.71	4.76	4.76	4.76	4.8	4.86	4.91	5.0	5.01	5.01	5.01	/	5.05	5.05	5.06
	125	TC	26.4	26.6	27.2	27.5	27.2	27.5	27.8	28.1	29.5	29.6	29.6	29.7	/	31.5	31.5	31.6
		S/T	0.93	0.98	0.99	1.0	0.71	1.0	0.96	1.0	0.4	0.71	1.0	1.0	/	0.41	0.7	0.99
		kW	3.68	3.73	3.77	3.77	3.77	3.8	3.85	3.89	3.96	3.96	3.96	3.96	/	3.99	3.99	3.99

Table 7

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

BOVA20-60 + BIVA20-60 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	
1200	15	TC	37.3	37.8	38.6	39.0	38.6	39.0	39.4	39.9	41.3	41.6	42.0	42.4	/	49.5	49.9	50.8	
		S/T	0.7	0.7	0.8	1.0	0.6	0.8	0.8	0.9	0.4	0.6	0.7	0.9	/	0.4	0.5	0.6	
		kW	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.8	1.8	1.8	/	2.4	2.4	2.2	
		TC	37.4	37.8	38.7	39.1	38.7	39.1	39.5	39.9	41.4	41.7	42.1	42.5	/	49.6	50.0	50.9	
	65	S/T	0.8	0.9	0.9	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.6	
		kW	2.1	2.1	2.1	2.1	2.1	2.1	2.2	2.2	2.2	2.2	2.2	2.2	/	2.8	2.9	2.6	
		TC	37.2	37.6	38.5	38.9	38.5	38.9	39.3	39.7	41.1	41.4	41.8	42.2	/	49.9	50.3	50.8	
		S/T	0.8	0.9	0.9	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.6	
	75	kW	2.2	2.2	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	/	2.7	2.7	2.7	
		TC	36.8	37.2	38.1	38.5	38.1	38.5	38.9	39.3	40.7	41.1	41.4	41.8	/	49.1	49.5	49.9	
		S/T	0.8	0.9	0.9	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7	
		kW	2.3	2.4	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.5	2.5	/	3.1	3.1	3.1	
	95	TC	36.5	36.8	37.7	38.1	37.7	38.1	38.6	39.0	40.3	40.7	41.0	41.4	/	48.4	48.7	49.1	
		S/T	0.8	0.9	0.9	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7	
		kW	2.8	2.9	2.9	2.9	2.9	2.9	2.9	3.0	3.0	3.0	3.0	3.1	/	3.7	3.7	3.7	
		TC	33.5	33.9	34.7	34.9	34.7	34.9	35.3	35.7	37.0	37.3	37.6	37.9	/	44.3	44.6	44.8	
	105	S/T	0.8	0.9	0.9	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7	
		kW	3.5	3.5	3.6	3.6	3.6	3.6	3.6	3.7	3.7	3.7	3.7	3.8	/	4.5	4.5	4.6	
		TC	33.0	33.4	34.2	34.6	34.2	34.6	34.8	35.2	36.4	36.7	37.1	37.4	/	40.4	40.6	40.9	
		S/T	0.8	0.9	0.9	1.0	0.6	0.8	1.0	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7	
	115	kW	4.1	4.2	4.2	4.2	4.2	4.3	4.3	4.4	4.4	4.4	4.5	4.5	/	4.5	4.6	4.6	
		TC	25.9	26.1	26.8	27.1	26.8	27.1	27.4	27.7	29.1	29.2	29.2	29.3	/	31.0	31.0	31.1	
		S/T	0.8	0.9	1.0	1.0	0.6	0.8	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.8	
		kW	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.5	3.5	3.5	3.5	/	3.5	3.5	3.5	
125	TC	39.7	40.2	41.1	41.5	41.1	41.5	41.9	42.4	43.8	44.2	44.6	45.0	/	53.4	53.9	54.3		
	S/T	0.7	0.8	0.9	1.0	0.6	0.8	0.8	0.9	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7		
	kW	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	/	2.4	2.5	2.5		
	TC	39.9	40.4	41.3	41.7	41.3	41.7	42.2	42.7	44.0	44.4	44.8	45.2	/	53.6	54.1	54.5		
65	S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7		
	kW	2.3	2.3	2.3	2.3	2.3	2.3	2.4	2.4	2.4	2.4	2.4	2.5	/	2.9	2.9	2.9		
	TC	40.0	40.5	41.4	41.8	41.4	41.8	42.3	42.8	44.1	44.5	44.9	45.3	/	53.2	53.7	54.1		
	S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7		
75	kW	2.4	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.6	2.6	2.6	/	3.1	3.1	3.1		
	TC	39.5	40.0	40.9	41.4	40.9	41.4	41.8	42.2	43.7	44.0	44.4	44.7	/	52.5	52.9	53.2		
	S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7		
	kW	2.7	2.7	2.7	2.7	2.7	2.7	2.8	2.8	2.8	2.8	2.9	2.9	/	3.4	3.5	3.5		
95	TC	39.0	39.5	40.4	40.8	40.4	40.8	41.3	41.7	43.2	43.4	43.8	44.1	/	51.4	51.8	52.2		
	S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7		
	kW	3.2	3.2	3.3	3.3	3.3	3.3	3.3	3.4	3.4	3.4	3.4	3.5	/	4.1	4.1	4.2		
	TC	35.7	36.2	36.9	37.3	36.9	37.3	37.8	38.1	39.6	39.9	40.1	40.4	/	46.9	47.1	47.4		
105	S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.7	0.9	/	0.4	0.5	0.7		
	kW	3.8	3.8	3.9	3.9	3.9	3.9	4.0	4.0	4.0	4.1	4.1	4.1	/	4.9	4.9	5.0		
	TC	34.1	34.5	35.1	35.5	35.1	35.5	36.0	36.3	37.9	38.1	38.2	38.0	/	40.7	40.9	41.1		
	S/T	0.8	0.9	1.0	1.0	0.6	0.8	0.9	1.0	0.4	0.6	0.8	0.9	/	0.4	0.6	0.7		
115	kW	4.2	4.3	4.3	4.3	4.3	4.4	4.4	4.5	4.6	4.6	4.6	4.6	/	4.6	4.6	4.6		
	TC	26.1	26.5	27.1	27.5	27.1	27.5	27.7	27.9	29.4	29.4	29.5	29.5	/	31.2	31.3	31.3		
	S/T	0.9	0.9	1.0	1.0	0.6	0.9	0.9	1.0	0.4	0.6	0.9	1.0	/	0.4	0.6	0.8		
	kW	3.3	3.4	3.4	3.4	3.4	3.4	3.5	3.5	3.6	3.6	3.6	3.6	/	3.6	3.6	3.6		
1550	15	TC	43.7	44.2	45.2	45.7	45.2	45.7	46.2	46.7	48.4	48.8	49.2	49.6	/	57.9	58.3	58.7	
		S/T	0.74	0.8	0.89	0.99	0.62	0.84	0.9	0.94	0.41	0.57	0.74	0.91	/	0.4	0.53	0.68	
		kW	1.97	1.99	2.01	2.01	2.01	2.04	2.06	2.08	2.05	2.09	2.13	2.17	/	2.57	2.61	2.63	
		TC	45.8	46.2	47.3	47.8	47.3	47.8	48.4	48.8	50.7	51.0	51.4	51.8	/	60.1	60.5	60.8	
	65	S/T	0.89	0.94	0.99	0.99	0.62	0.83	0.96	0.99	0.41	0.57	0.73	0.89	/	0.4	0.52	0.66	
		kW	2.69	2.71	2.74	2.74	2.74	2.77	2.81	2.83	2.83	2.86	2.89	2.92	/	3.3	3.34	3.38	
		TC	45.4	46.0	46.9	47.5	46.9	47.5	48.0	48.4	50.3	50.8	51.0	51.4	/	59.5	59.9	60.3	
		S/T	0.89	0.94	0.99	0.99	0.62	0.83	0.96	0.99	0.41	0.57	0.73	0.9	/	0.4	0.53	0.68	
	75	kW	2.82	2.85	2.88	2.88	2.88	2.91	2.94	2.97	2.98	3.0	3.03	3.05	/	3.51	3.54	3.58	
		TC	44.6	45.1	46.1	46.6	46.1	46.6	47.1	47.6	49.4	49.8	50.2	50.6	/	58.0	58.5	58.9	
		S/T	0.89	0.94	0.99	0.99	0.62	0.83	0.96	0.99	0.41	0.57	0.73	0.91	/	0.4	0.53	0.68	
		kW	3.16	3.2	3.23	3.23	3.23	3.27	3.3	3.33	3.35	3.38	3.4	3.43	/	4.03	4.08	4.11	
	95	TC	43.7	44.2	45.2	45.8	45.2	45.8	46.2	46.7	48.4	48.8	49.2	49.5	/	56.6	57.0	57.4	
		S/T	0.89	0.94	0.99	0.99	0.62	0.84	0.96	0.99	0.41	0.57	0.74	0.91	/	0.4	0.53	0.69	
		kW	3.75	3.79	3.83	3.83	3.83	3.87	3.91	3.95	3.96	3.99	4.02	4.06	/	4.77	4.8	4.83	
		TC	40.2	40.6	41.6	42.0	41.6	42.0	42.5	43.0	44.6	44.9	45.2	45.5	/	51.8	52.0	52.0	
	105	S/T	0.89	0.94	0.99	0.99	0.62	0.84	0.96	0.99	0.41	0.58	0.74	0.93	/	0.4	0.54	0.7	
		kW	4.5	4.55	4.6	4.6	4.6	4.65	4.7	4.74	4.76	4.81	4.85	4.88	/	5.7	5.72	5.72	
		TC	34.5	34.9	35.6	36.1	35.6	36.1	36.5	36.8	38.4	38.6	38.7	38.8	/	40.1	40.2	40.4	
		S/T	0.89	0.94	0.99	0.99	0.63	0.85	0.96	0.99	0.41	0.61	0.81	0.99	/	0.41	0.6	0.79	
	115	kW	4.44	4.49	4.53	4.53	4.53	4.59	4.63	4.68	4.73	4.75	4.77	4.66	/	4.81	4.83	4.84	
		TC	26.7	27.0	27.7	27.9	27.7	27.9	28.2	28.5	29.9	29.9	30.0	30.0	/	31.8	31.9	32.0	
		S/T	0.9	0.94	0.99	0.99	0.68	0.95	0.96	0.99	0.42	0.68	0.94	0.99	/	0.42	0.66	0.91	
		kW	3.41	3.45	3.49	3.49	3.49	3.49	3.52	3.56	3.59	3.67	3.67	3.67	/	3.69	3.69	3.69	

BOVA20-60 + BIVA20-60 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	15	TC	46.4	47.0	48.1	48.5	48.1	48.5	49.1	49.6	51.4	51.8	52.3	52.7	/	61.2	61.6	62.0
		S/T	0.8	0.8	1.0	1.0	0.6	0.9	0.9	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.7
		kW	2.4	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.5	2.6	2.6	2.7	/	3.2	3.2	3.2
	65	TC	48.6	49.2	50.3	50.8	50.3	50.8	51.4	51.9	53.9	54.3	54.7	55.1	/	63.4	63.8	64.2
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	0.9	/	0.4	0.5	0.7
		kW	3.1	3.1	3.1	3.1	3.1	3.2	3.2	3.2	3.2	3.3	3.3	3.3	/	3.7	3.8	3.8
	75	TC	48.5	48.9	50.1	50.7	50.1	50.7	51.2	51.8	53.7	54.1	54.5	54.9	/	62.9	63.3	64.1
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	0.9	/	0.4	0.5	0.7
		kW	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.4	3.4	3.4	/	3.9	4.0	3.9
	85	TC	47.5	48.1	49.1	49.6	49.1	49.6	50.3	50.9	52.7	53.1	53.5	53.8	/	61.4	61.8	62.1
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.7
		kW	3.5	3.6	3.6	3.6	3.6	3.6	3.7	3.7	3.7	3.7	3.8	3.8	/	4.5	4.5	4.5
	95	TC	46.4	46.9	48.0	48.6	48.0	48.6	49.0	49.5	51.5	51.8	52.3	52.5	/	59.7	60.1	60.4
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.7
		kW	4.1	4.2	4.2	4.2	4.2	4.3	4.3	4.4	4.4	4.4	4.4	4.5	/	5.2	5.3	5.3
	105	TC	42.3	42.8	43.8	44.2	43.8	44.2	44.7	45.2	46.9	47.3	47.6	47.8	/	52.5	52.8	52.7
		S/T	0.9	1.0	1.0	1.0	0.6	0.9	1.0	1.0	0.4	0.6	0.8	1.0	/	0.4	0.6	0.7
		kW	4.9	5.0	5.0	5.0	5.0	5.1	5.2	5.2	5.2	5.3	5.3	5.3	/	5.9	5.9	5.9
	115	TC	35.5	35.9	36.7	37.0	36.7	37.0	37.5	37.9	39.6	39.8	40.0	40.0	/	41.0	41.1	41.3
		S/T	0.9	1.0	1.0	1.0	0.7	0.9	1.0	1.0	0.4	0.6	0.9	1.0	/	0.4	0.6	0.8
		kW	4.6	4.6	4.7	4.7	4.7	4.7	4.8	4.8	4.9	4.9	4.9	4.9	/	5.1	5.1	5.1
	125	TC	26.8	27.1	27.8	28.0	27.8	28.0	28.3	28.6	30.0	30.0	30.1	30.2	/	32.0	32.1	32.1
		S/T	0.9	1.0	1.0	1.0	0.7	1.0	1.0	1.0	0.4	0.7	1.0	1.0	/	0.4	0.7	1.0
		kW	3.5	3.6	3.6	3.6	3.6	3.6	3.7	3.7	3.8	3.8	3.8	3.8	/	3.8	3.8	3.8
1850	15	TC	48.6	49.2	50.4	50.8	50.4	50.8	51.4	52.0	54.0	54.4	54.8	55.3	/	63.5	63.9	64.3
		S/T	0.79	0.84	1.0	1.0	0.64	0.89	0.95	1.0	0.41	0.6	0.79	0.96	/	0.4	0.55	0.73
		kW	2.81	2.84	2.87	2.87	2.87	2.9	2.94	2.97	2.91	2.98	3.03	3.08	/	3.67	3.7	3.73
	65	TC	50.8	51.3	52.5	53.0	52.5	53.0	53.5	54.1	56.3	56.6	57.0	57.4	/	65.9	66.3	66.7
		S/T	0.92	0.96	1.0	1.0	0.64	0.87	1.0	1.0	0.41	0.59	0.76	0.95	/	0.4	0.55	0.72
		kW	3.32	3.35	3.38	3.38	3.38	3.43	3.46	3.5	3.53	3.56	3.6	3.6	/	4.03	4.06	4.09
	75	TC	51.11	51.51	52.72	53.33	52.72	53.33	53.83	54.44	56.56	56.96	57.37	57.77	/	66.05	66.46	66.86
		S/T	0.92	0.96	1.0	1.0	0.64	0.87	1.0	1.0	0.41	0.59	0.76	0.95	/	0.4	0.55	0.72
		kW	3.3	3.34	3.37	3.37	3.37	3.41	3.44	3.48	3.5	3.52	3.55	3.58	/	4.1	4.13	4.16
	85	TC	49.69	50.3	51.41	52.02	51.41	52.02	52.52	53.13	55.25	55.55	55.95	56.26	/	63.93	64.34	64.64
		S/T	0.92	0.96	1.0	1.0	0.64	0.89	1.0	1.0	0.41	0.6	0.77	0.96	/	0.4	0.56	0.73
		kW	3.77	3.81	3.85	3.85	3.85	3.89	3.93	3.97	3.99	4.02	4.06	4.09	/	4.76	4.79	4.82
	95	TC	48.48	48.88	50.1	50.6	50.1	50.6	51.21	51.71	53.73	54.14	54.44	54.74	/	61.81	62.22	62.52
		S/T	0.92	0.96	1.0	1.0	0.65	0.89	1.0	1.0	0.41	0.6	0.79	0.97	/	0.4	0.56	0.74
		kW	4.41	4.46	4.51	4.51	4.51	4.56	4.61	4.65	4.68	4.71	4.75	4.78	/	5.53	5.56	5.6
	105	TC	43.8	44.3	45.3	45.8	45.3	45.8	46.3	46.8	48.6	48.9	49.2	49.5	/	53.5	52.6	52.9
		S/T	0.92	0.96	1.0	1.0	0.65	0.9	1.0	1.0	0.41	0.61	0.8	1.0	/	0.4	0.59	0.76
		kW	5.24	5.3	5.36	5.36	5.36	5.41	5.47	5.53	5.57	5.6	5.64	5.67	/	6.04	5.94	5.98
	115	TC	36.4	36.7	37.5	38.0	37.5	38.0	38.3	38.7	40.4	40.6	40.8	41.0	/	41.7	41.8	41.9
		S/T	0.92	0.96	1.0	1.0	0.66	0.93	1.0	1.0	0.41	0.65	0.89	1.0	/	0.41	0.64	0.89
		kW	4.74	4.79	4.85	4.85	4.85	4.9	4.95	5.0	5.08	5.09	5.11	5.12	/	5.22	4.91	4.92
	125	TC	26.9	27.2	27.9	28.1	27.9	28.1	28.4	28.7	30.1	30.1	30.2	30.2	/	32.1	32.2	32.3
		S/T	0.93	0.97	1.0	1.0	0.74	1.0	1.0	1.0	0.42	0.74	1.0	1.0	/	0.43	0.74	1.0
		kW	3.6	3.65	3.68	3.68	3.68	3.72	3.76	3.8	3.88	3.88	3.88	3.88	/	3.9	3.9	3.9

Table 9

TC refers to total capacity in kBTU/hr 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 (BIVA20) - Heating Mode

BOVA20-36 + BIVA20-24 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
500	60	TC	25.7	25.7	25.7	25.7	25.7	25.6	27.0	26.8	26.8	26.1	24.5	23.6	23.5	20.1	19.2	18.3	16.7
		KW	1.0	1.3	1.4	1.6	1.7	1.9	1.9	2.1	2.3	2.3	2.6	2.5	2.5	2.4	2.3	2.3	2.2
	70	TC	19.1	19.1	19.1	19.1	19.0	19.0	20.0	20.0	19.9	19.9	19.1	19.1	18.2	15.9	15.2	14.9	14.2
		KW	0.9	1.2	1.3	1.4	1.5	1.6	1.6	1.8	1.9	2.0	1.9	2.1	2.2	2.4	2.5	2.4	2.4
	75	TC	15.8	15.8	15.7	15.7	15.6	15.6	16.4	16.4	16.4	16.4	15.7	15.7	15.7	14.4	14.4	14.4	14.1
		KW	0.8	0.9	1.0	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.7	1.8	2.0	2.2	2.3	2.5
	80	TC	12.4	12.4	12.4	12.4	12.4	12.4	13.0	12.9	12.9	12.9	12.9	12.4	12.4	11.5	11.5	11.4	11.4
		KW	0.7	0.8	0.9	0.9	1.0	1.1	1.1	1.2	1.3	1.2	1.3	1.4	1.5	1.6	1.8	1.9	2.0
600	60	TC	26.5	26.5	26.4	26.4	26.4	26.4	27.5	27.3	27.3	26.3	25.4	23.8	23.7	20.7	19.7	18.8	17.4
		KW	1.0	1.3	1.5	1.6	1.8	1.9	1.9	2.1	2.3	2.3	2.6	2.5	2.4	2.4	2.3	2.2	2.2
	70	TC	19.6	19.6	19.6	19.6	19.6	19.5	20.3	20.3	20.2	20.2	19.5	19.4	18.5	16.1	15.3	15.0	14.3
		KW	1.0	1.3	1.3	1.4	1.6	1.7	1.7	1.9	1.7	1.8	1.9	2.1	2.2	2.5	2.5	2.4	2.3
	75	TC	16.0	16.0	16.0	16.0	16.0	16.0	16.7	16.7	16.6	16.6	15.9	15.9	16.0	14.5	14.5	14.5	13.9
		KW	0.9	0.9	1.0	1.1	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.8	2.0	2.2	2.4	2.4
	80	TC	12.7	12.7	12.7	12.7	12.7	12.7	13.2	13.1	13.1	13.1	12.6	12.6	12.6	11.6	11.6	11.5	11.5
		KW	0.8	0.8	0.9	1.0	1.0	1.0	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.8	1.9	2.0
700	60	TC	29.3	29.3	29.3	29.3	29.3	29.2	29.1	29.1	27.2	26.0	25.8	24.1	22.6	20.8	19.9	19.0	17.6
		KW	1.2	1.5	1.7	1.8	2.0	2.1	2.2	2.4	2.4	2.3	2.5	2.5	2.4	2.3	2.3	2.2	2.2
	70	TC	21.8	21.8	21.8	21.8	21.8	21.7	21.7	21.7	21.6	21.6	21.3	21.3	20.4	19.2	18.3	17.5	16.9
		KW	1.0	1.1	1.2	1.3	1.4	1.6	1.6	1.8	1.9	2.0	2.2	2.3	2.5	2.5	2.4	2.3	2.3
	75	TC	17.8	17.8	17.8	17.8	17.8	17.8	17.8	17.7	17.7	17.7	17.6	17.6	17.5	17.5	16.7	16.1	15.3
		KW	0.8	1.1	1.2	1.3	1.4	1.5	1.5	1.6	1.6	1.7	1.8	1.9	2.0	2.2	2.4	2.4	2.4
	80	TC	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.0	14.0	14.0	14.0	13.9	13.8	13.8
		KW	0.9	1.0	1.1	1.2	1.2	1.1	1.1	1.2	1.3	1.4	1.4	1.5	1.7	1.8	1.9	2.1	2.2
800	60	TC	32.0	32.0	32.0	32.0	32.0	31.7	32.1	30.1	27.9	25.8	26.4	24.5	23.5	21.0	20.1	19.1	17.7
		KW	1.3	1.7	1.8	2.0	2.2	2.3	2.4	2.4	2.3	2.3	2.6	2.5	2.4	2.4	2.3	2.2	2.2
	70	TC	23.8	23.8	23.8	23.8	23.8	23.7	24.0	23.9	23.9	23.8	23.5	23.5	22.8	19.6	18.4	17.6	16.9
		KW	0.9	1.3	1.4	1.5	1.6	1.8	1.8	1.9	2.1	2.2	2.4	2.6	2.6	2.5	2.5	2.4	2.4
	75	TC	19.5	19.5	19.5	19.5	19.5	19.5	19.7	19.6	19.6	19.6	19.4	19.3	19.3	17.6	16.9	16.1	15.4
		KW	1.0	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.8	1.9	2.0	2.1	2.3	2.5	2.6	2.5	2.4
	80	TC	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.4	15.4	15.4	14.0	13.9	13.9	13.9
		KW	0.9	1.0	1.1	1.0	1.1	1.2	1.2	1.3	1.4	1.5	1.6	1.7	1.9	2.0	2.1	2.3	2.5
900	60	TC	34.7	34.7	34.3	34.5	32.9	32.1	32.3	30.7	28.1	26.4	25.9	24.5	23.2	22.5	21.5	20.5	19.0
		KW	1.8	2.2	2.3	2.6	2.7	2.6	2.5	2.4	2.4	2.3	2.6	2.6	2.5	2.4	2.4	2.3	2.3
	70	TC	27.3	27.3	27.3	27.3	27.3	27.2	27.6	27.3	26.8	26.0	25.6	23.9	23.8	23.5	22.4	21.4	19.7
		KW	1.5	1.6	1.8	1.9	2.1	2.2	2.2	2.4	2.6	2.5	2.8	2.8	2.7	2.6	2.6	2.5	2.4
	75	TC	22.5	22.5	22.5	22.5	22.4	22.4	22.7	22.6	22.6	22.5	22.5	22.5	21.9	20.3	18.6	17.0	15.8
		KW	1.1	1.3	1.4	1.6	1.7	1.9	1.9	2.0	2.2	2.3	2.5	2.7	2.8	2.7	2.7	2.6	2.5
	80	TC	17.9	17.9	17.9	17.9	17.9	17.9	18.1	18.1	18.1	18.1	18.0	18.0	17.8	17.8	17.8	16.8	15.6
		KW	1.1	1.3	1.4	1.5	1.6	1.7	1.7	1.8	1.8	1.9	2.0	2.2	2.3	2.5	2.7	2.7	2.6

Table 10

TC refers to total capacity in kBTU/hr

kW: refer to total input power

BOVA20-36 + BIVA20-36 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
750	60	TC	26.7	26.7	26.7	26.7	26.7	26.4	27.5	27.4	27.4	27.4	29.2	27.6	25.6	23.6	21.7	20.0	18.4
		kW	1.1	1.5	1.6	1.8	1.9	2.1	2.2	2.5	2.7	2.9	3.2	3.4	3.6	3.9	4.1	4.3	4.5
	70	TC	20.6	20.6	20.4	20.4	20.4	20.4	21.3	21.1	21.0	20.9	22.3	22.3	22.2	22.1	21.2	19.4	17.8
		kW	0.9	1.1	1.2	1.3	1.5	1.6	1.7	1.9	2.0	2.1	2.4	2.6	3.0	3.3	3.4	3.3	3.2
	75	TC	17.2	17.2	17.1	17.1	17.1	17.1	17.9	17.7	17.7	17.7	18.9	18.7	18.6	18.5	18.5	18.5	17.7
		kW	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.8	2.0	2.1	2.4	2.7	3.0	3.3	3.3
	80	TC	14.0	14.0	14.0	14.0	14.0	14.0	14.6	14.6	14.5	14.5	15.5	15.5	15.4	15.1	15.1	15.1	14.1
		kW	0.7	0.8	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	2.0	2.2	2.4	2.6	2.6
900	60	TC	32.0	32.0	32.0	31.7	31.7	31.6	31.2	31.5	30.6	28.8	29.6	27.7	25.4	24.1	22.3	20.5	19.0
		kW	1.5	1.8	1.9	2.1	2.3	2.5	2.6	2.9	2.9	2.8	3.2	3.0	3.1	3.6	3.5	3.4	3.3
	70	TC	24.5	24.5	24.5	24.5	24.5	24.5	24.9	24.7	24.7	24.7	24.8	23.9	23.6	23.0	21.1	20.0	18.5
		kW	1.1	1.3	1.5	1.6	1.7	1.9	2.0	2.1	2.4	2.5	2.8	3.0	3.4	3.4	3.3	3.2	3.1
	75	TC	20.6	20.6	20.6	20.6	20.6	20.5	20.9	20.6	20.7	20.6	21.2	21.2	21.2	21.6	21.5	19.6	18.1
		kW	1.0	1.1	1.2	1.3	1.4	1.5	1.7	1.8	2.0	2.1	2.3	2.5	2.8	3.2	3.5	3.4	3.3
	80	TC	16.9	16.9	16.9	16.9	16.9	16.8	17.2	17.1	17.0	17.0	17.5	17.5	17.3	17.7	17.7	17.8	17.8
		kW	0.9	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.9	2.0	2.3	2.6	2.8	3.1	3.4
1050	60	TC	37.7	37.7	37.0	34.7	32.9	32.2	33.0	33.1	31.9	30.8	29.2	28.3	26.0	24.4	23.7	22.7	22.7
		kW	1.6	2.2	2.3	2.2	2.2	2.1	2.1	2.2	2.1	2.1	2.4	2.4	2.7	2.7	2.6	2.6	2.5
	70	TC	27.8	27.8	27.7	27.7	27.7	27.6	30.2	29.8	27.1	25.8	25.2	24.3	23.8	23.0	21.0	19.6	19.0
		kW	1.1	1.5	1.6	1.8	1.9	2.1	2.3	2.5	2.4	2.3	2.6	2.6	2.8	3.0	2.9	2.7	2.6
	75	TC	22.9	22.9	22.8	22.8	22.5	22.5	24.5	26.5	26.4	24.7	24.1	22.2	22.3	20.4	19.7	19.2	18.4
		kW	0.9	1.2	1.3	1.4	1.5	1.7	1.8	2.2	2.5	2.4	2.8	2.7	2.9	3.1	3.0	2.8	2.7
	80	TC	17.9	17.9	17.9	17.9	17.9	17.9	19.4	20.7	20.7	20.8	20.3	20.3	22.0	20.1	18.4	17.3	16.8
		kW	0.6	0.9	1.0	1.1	1.2	1.3	1.5	1.7	1.9	2.1	2.4	2.6	3.1	3.1	3.1	2.9	2.8
1200	60	TC	40.8	40.7	40.1	37.6	35.9	33.7	33.5	32.9	32.1	30.6	29.4	29.0	28.3	25.1	23.6	22.6	22.1
		kW	1.9	2.4	2.5	2.4	2.4	2.4	2.3	2.4	2.4	2.3	2.6	2.5	2.8	2.9	2.8	2.7	2.6
	70	TC	30.7	30.7	30.7	30.7	30.7	30.6	32.1	31.5	28.9	26.9	27.6	25.6	26.6	24.7	23.3	21.1	19.4
		kW	1.3	1.7	1.8	2.0	2.2	2.3	2.5	2.7	2.6	2.5	2.8	2.7	3.0	3.2	3.1	2.9	2.8
	75	TC	25.8	25.8	25.7	25.7	25.3	25.3	26.5	28.2	28.2	26.5	27.2	25.3	25.1	23.1	21.3	19.2	17.8
		kW	1.1	1.4	1.5	1.6	1.7	1.9	2.1	2.4	2.7	2.6	3.0	2.9	3.2	3.3	3.2	3.1	2.9
	80	TC	20.8	20.8	20.7	20.7	20.7	20.7	21.6	22.6	22.6	22.6	23.3	23.3	24.8	22.8	21.1	18.8	17.3
		kW	0.9	1.1	1.2	1.3	1.4	1.6	1.7	1.9	2.1	2.3	2.5	2.7	3.3	3.4	3.3	3.1	3.1
1300	60	TC	44.8	44.7	44.0	41.6	39.7	37.4	35.9	34.4	31.8	29.8	30.4	28.5	29.0	27.7	26.2	24.2	22.5
		kW	2.1	2.7	2.8	2.7	2.7	2.6	2.5	2.6	2.6	2.5	2.8	2.8	3.1	3.1	3.0	3.0	2.9
	70	TC	34.4	34.4	34.3	34.3	34.3	34.2	34.5	33.6	31.1	29.1	29.7	27.8	28.5	27.3	25.9	23.6	22.0
		kW	1.6	1.9	2.0	2.2	2.4	2.6	2.7	2.9	2.8	2.7	3.1	3.0	3.3	3.4	3.3	3.2	3.1
	75	TC	29.3	29.3	29.2	29.2	28.9	28.9	29.1	30.4	30.3	28.8	29.4	27.4	27.0	25.7	23.9	21.7	20.3
		kW	1.3	1.6	1.7	1.9	2.0	2.1	2.2	2.6	2.9	2.8	3.2	3.1	3.4	3.5	3.4	3.3	3.2
	80	TC	24.1	24.1	24.0	24.0	24.0	24.0	24.1	24.8	24.8	24.9	25.5	25.5	26.7	25.3	23.6	21.3	19.8
		kW	1.1	1.4	1.4	1.6	1.7	1.8	1.9	2.1	2.3	2.5	2.8	3.0	3.6	3.6	3.5	3.4	3.3

Table 11

TC refers to total capacity in kBTU/hr

kW: refer to total input power

BOVA20-60 + BIVA20-48 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
1200	60	TC	49.1	49.1	49.1	49.0	49.0	48.9	49.2	49.0	45.3	42.5	38.7	37.5	35.8	31.4	29.9	28.5	27.0
		kW	2.1	2.6	2.8	3.1	3.3	3.6	3.7	4.1	3.9	3.8	4.0	4.4	4.4	4.5	4.4	4.3	4.2
	70	TC	37.8	37.8	37.7	37.8	37.7	37.7	38.0	37.9	38.1	37.9	34.9	33.8	32.4	28.4	27.1	25.7	24.4
		kW	1.7	2.0	2.2	2.3	2.6	2.7	2.9	3.1	3.4	3.6	3.8	4.2	4.2	4.2	4.2	4.1	3.9
	75	TC	31.9	31.9	31.8	31.8	31.8	31.8	32.1	32.0	32.2	32.2	31.2	31.0	31.0	28.0	26.7	25.1	23.3
		kW	1.5	1.8	1.9	2.0	2.2	2.3	2.4	2.6	2.8	3.0	3.3	3.5	3.8	4.3	4.6	4.4	4.2
	80	TC	26.3	26.3	26.2	26.2	26.2	26.2	26.4	26.4	26.5	26.5	25.7	25.7	25.7	23.1	23.1	23.1	22.9
		kW	1.3	1.5	1.6	1.7	1.9	2.0	2.0	2.2	2.3	2.5	2.7	2.9	3.1	3.5	3.8	4.1	4.4
1350	60	TC	52.7	52.7	52.6	52.5	52.5	52.3	52.9	49.6	45.8	42.9	39.5	38.3	36.6	33.3	31.8	30.2	28.6
		kW	2.3	2.9	3.1	3.4	3.6	3.9	4.1	4.0	3.9	3.7	3.9	4.3	4.3	4.4	4.3	4.2	4.1
	70	TC	40.6	40.5	40.5	40.5	40.4	40.3	40.7	40.6	40.6	40.6	37.5	36.3	34.7	31.6	30.1	28.6	27.1
		kW	1.8	2.2	2.3	2.5	2.7	2.9	3.1	3.4	3.6	3.9	4.2	4.6	4.6	4.6	4.5	4.4	4.3
	75	TC	34.1	34.1	34.0	34.0	34.0	34.0	34.3	34.2	34.3	34.3	33.2	33.2	33.2	29.8	28.5	26.9	25.3
		kW	1.6	1.9	2.0	2.2	2.3	2.5	2.6	2.8	3.1	3.3	3.6	3.8	4.1	4.4	4.2	4.1	4.0
	80	TC	28.2	28.2	28.1	28.1	28.1	28.1	28.4	28.4	28.3	28.3	27.4	27.4	27.4	25.7	25.8	25.7	24.0
		kW	1.4	1.6	1.7	1.8	2.0	2.1	2.2	2.3	2.5	2.7	2.9	3.1	3.4	3.8	4.1	4.5	4.4
1550	60	TC	58.0	58.0	58.0	57.8	57.7	57.0	54.7	49.9	46.4	43.3	41.2	39.9	38.1	36.6	34.6	33.0	31.8
		kW	2.5	3.3	3.5	3.8	4.1	4.4	4.1	4.0	3.8	3.7	4.0	4.3	4.3	4.4	4.3	4.2	4.1
	70	TC	44.7	44.7	44.6	44.5	44.5	44.4	44.8	44.8	44.8	42.4	40.3	39.1	37.3	36.1	34.3	32.6	31.0
		kW	2.0	2.5	2.7	2.9	3.1	3.3	3.5	3.8	4.1	4.1	4.3	4.7	4.7	4.6	4.5	4.4	4.3
	75	TC	37.6	37.6	37.5	37.5	37.4	37.4	37.9	37.8	37.9	37.8	37.8	37.8	37.3	35.4	33.9	32.6	30.7
		kW	1.7	2.2	2.3	2.4	2.6	2.8	2.9	3.2	3.4	3.7	4.0	4.3	4.7	4.7	4.6	4.5	4.3
	80	TC	31.0	31.0	30.9	30.9	30.9	30.9	31.2	31.2	31.2	31.2	31.2	31.2	31.1	31.1	31.1	28.8	26.7
		kW	1.5	1.8	1.9	2.1	2.2	2.4	2.4	2.6	2.8	3.0	3.3	3.5	3.8	4.1	4.4	4.5	4.6
1750	60	TC	64.1	63.9	63.9	63.9	62.1	58.6	55.2	50.7	46.8	43.3	43.1	41.7	41.6	38.9	35.7	34.1	32.9
		kW	2.9	3.7	4.0	4.3	4.4	4.3	4.1	3.9	3.8	3.7	4.0	4.4	4.4	4.4	4.3	4.3	4.1
	70	TC	49.5	49.5	49.5	49.3	49.3	49.2	48.7	48.8	45.7	42.8	42.7	41.3	40.3	37.6	34.7	32.9	31.3
		kW	2.3	2.8	3.0	3.2	3.5	3.8	3.8	4.2	4.2	4.1	4.3	4.8	4.8	4.8	4.7	4.6	4.5
	75	TC	41.8	41.8	41.8	41.7	41.7	41.6	41.3	41.3	41.3	41.2	43.2	40.7	39.4	35.7	34.1	32.3	30.4
		kW	2.0	2.4	2.6	2.7	2.9	3.2	3.2	3.5	3.8	4.1	4.6	4.8	4.7	4.9	4.8	4.7	4.5
	80	TC	34.5	34.4	34.3	34.3	34.3	34.3	34.0	33.9	34.0	34.0	35.6	35.6	35.6	33.9	31.9	29.2	27.1
		kW	1.7	2.1	2.2	2.3	2.5	2.6	2.7	2.9	3.2	3.4	3.7	3.9	4.2	4.8	4.8	4.9	4.9
1850	60	TC	69.6	69.6	69.6	66.6	63.5	59.8	55.7	50.9	47.0	44.4	44.4	43.0	42.0	39.6	38.5	36.9	35.0
		kW	3.7	4.1	4.4	4.4	4.4	4.3	4.1	3.9	3.8	3.8	4.0	4.4	4.4	4.4	4.3	4.3	4.1
	70	TC	54.1	54.1	54.1	54.0	54.0	53.5	52.9	50.2	46.4	43.4	43.4	42.0	40.3	38.9	37.0	35.2	33.4
		kW	2.9	3.1	3.3	3.6	3.9	4.1	4.3	4.3	4.3	4.3	4.5	5.0	5.0	4.8	4.8	4.7	4.5
	75	TC	45.8	45.8	45.8	45.7	45.7	45.6	44.9	44.8	44.8	43.8	45.1	42.1	40.1	38.0	36.5	34.4	32.4
		kW	2.4	2.6	2.8	3.0	3.3	3.5	3.6	3.9	4.2	4.3	5.0	4.8	4.7	4.7	4.6	4.5	4.3
	80	TC	37.8	37.8	37.8	37.8	37.8	37.7	37.2	37.1	37.3	37.2	39.0	39.0	39.0	37.0	34.2	31.3	29.0
		kW	2.0	2.3	2.4	2.5	2.7	2.9	3.0	3.3	3.5	3.7	4.1	4.4	4.7	4.7	4.6	4.7	4.7

Table 12

TC refers to total capacity in kBTU/hr

kW: refer to total input power

BOVA20-60 + BIVA20-60 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
1200	60	TC	51.9	51.9	51.9	51.8	51.8	51.5	47.7	46.3	44.9	44.8	47.0	44.9	38.0	36.2	35.1	32.7	29.9
		kW	2.2	2.6	2.9	3.1	3.4	3.6	3.9	4.4	4.7	4.5	4.7	5.3	4.7	4.8	4.6	4.4	4.3
	70	TC	39.1	39.1	39.0	39.0	38.9	38.9	36.1	36.5	36.5	36.3	38.1	37.3	35.0	30.7	30.0	29.4	27.2
		kW	1.8	2.0	2.1	2.3	2.5	2.7	2.9	3.2	3.4	3.7	3.8	3.9	3.6	3.7	3.6	3.5	3.5
	75	TC	32.3	32.3	32.3	32.2	32.2	32.2	29.9	30.2	30.2	30.2	33.2	34.6	31.3	29.8	28.5	26.9	25.4
		kW	1.6	1.7	1.8	1.9	2.1	2.2	2.4	2.6	2.9	3.1	3.3	3.5	3.5	3.6	3.4	3.3	3.3
	80	TC	26.0	26.0	26.0	26.0	26.0	25.9	24.1	24.3	24.3	24.3	27.2	28.0	25.3	25.2	25.1	25.1	25.1
		kW	1.4	1.4	1.5	1.6	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.8	2.8	3.1	3.3	3.6	3.9
1350	60	TC	56.9	56.9	56.9	56.5	56.3	56.2	52.2	51.5	48.0	45.3	46.9	45.8	39.3	38.2	35.9	33.1	30.7
		kW	2.4	3.0	3.2	3.5	3.8	4.1	4.4	4.8	4.6	4.5	4.8	5.1	4.7	4.8	4.6	4.4	4.3
	70	TC	42.8	42.8	42.8	42.8	42.7	42.7	39.7	40.0	39.8	39.8	42.4	40.3	40.0	33.7	32.9	30.8	28.7
		kW	1.8	2.2	2.3	2.5	2.8	3.0	3.2	3.5	3.8	4.1	4.5	4.9	4.9	5.2	5.0	4.8	4.7
	75	TC	35.5	35.5	35.5	35.5	35.4	35.4	32.8	33.4	33.4	33.4	36.6	36.2	34.7	33.5	32.3	30.2	28.1
		kW	1.6	1.9	2.0	2.1	2.3	2.5	2.6	2.9	3.1	3.4	3.6	3.9	3.9	5.2	5.0	4.8	4.7
	80	TC	28.5	28.5	28.5	28.5	28.5	28.4	26.5	26.9	26.8	26.8	29.5	31.2	28.0	27.6	27.6	26.2	26.0
		kW	1.4	1.6	1.7	1.8	1.9	2.1	2.2	2.3	2.5	2.7	2.9	3.1	3.0	3.4	3.7	4.1	4.4
1550	60	TC	63.1	62.9	62.9	62.9	60.5	59.0	54.6	53.8	51.7	49.0	48.6	46.4	42.0	39.6	37.3	34.2	32.8
		kW	2.5	3.4	3.6	4.0	3.9	3.8	3.8	3.5	3.4	3.3	4.0	4.0	4.6	4.6	4.4	4.3	4.2
	70	TC	46.5	46.5	46.6	46.5	46.0	45.8	42.3	45.3	41.8	39.4	42.3	41.0	40.5	37.6	34.4	31.0	28.0
		kW	1.6	2.3	2.4	2.7	2.9	3.2	3.5	3.8	3.8	3.7	3.7	3.9	4.6	4.8	4.7	4.5	4.4
	75	TC	37.3	37.3	37.3	37.1	37.1	37.1	34.1	36.3	36.2	36.2	36.7	37.0	34.6	33.2	31.9	29.4	27.3
		kW	1.3	1.7	1.9	2.1	2.3	2.5	2.8	3.0	3.3	3.6	4.0	4.4	5.2	5.6	5.4	5.1	4.9
	80	TC	28.4	28.4	28.4	28.4	28.3	28.2	27.7	28.3	28.3	28.0	30.7	31.7	31.0	31.6	32.0	28.9	27.3
		kW	1.0	1.4	1.5	1.6	1.8	1.9	2.1	2.3	2.5	2.7	2.9	3.2	4.1	4.7	5.3	5.1	5.0
1750	60	TC	68.5	68.3	68.3	68.3	64.8	60.7	57.7	55.2	54.1	50.2	48.8	49.3	43.4	40.9	38.2	34.9	32.9
		kW	2.8	3.7	3.9	4.3	4.3	4.2	4.1	3.9	3.8	3.7	4.3	4.4	4.9	5.0	4.8	4.6	4.5
	70	TC	50.9	50.9	51.0	50.9	50.4	50.2	50.8	51.2	49.8	47.3	47.0	43.6	40.7	38.4	38.1	34.7	32.5
		kW	2.0	2.6	2.8	3.0	3.2	3.5	3.8	4.2	4.2	4.1	4.1	4.2	4.9	5.1	5.1	4.8	4.7
	75	TC	41.7	41.7	41.7	41.5	41.5	41.5	41.8	43.8	43.7	43.7	45.5	45.9	38.4	37.0	35.7	33.1	31.0
		kW	1.6	2.1	2.2	2.4	2.7	2.9	3.1	3.4	3.7	4.0	4.3	4.7	5.6	6.0	5.7	5.4	5.2
	80	TC	32.8	32.8	32.8	32.8	32.7	32.6	32.9	35.0	35.0	34.7	35.5	36.2	34.7	35.4	35.8	32.6	29.8
		kW	1.3	1.7	1.8	1.9	2.1	2.2	2.4	2.7	2.9	3.1	3.3	3.5	4.4	5.1	5.7	5.5	5.3
1850	60	TC	73.6	73.4	73.4	73.4	69.9	65.8	62.1	59.2	54.8	51.3	52.8	52.4	45.8	43.1	40.5	37.2	34.6
		kW	3.2	4.0	4.3	4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.6	4.7	5.2	5.4	5.2	5.0	4.9
	70	TC	55.8	55.8	55.9	55.8	55.3	55.1	55.2	56.2	53.8	51.3	50.2	47.0	44.3	40.6	40.4	37.0	34.1
		kW	2.3	2.9	3.1	3.4	3.6	3.8	4.2	4.6	4.5	4.4	4.4	4.5	5.2	5.5	5.4	5.2	5.1
	75	TC	46.5	46.5	46.5	46.3	46.3	46.3	46.2	47.8	47.7	47.7	48.9	49.1	40.9	39.2	38.0	35.5	33.4
		kW	2.0	2.4	2.6	2.7	3.0	3.2	3.4	3.7	4.1	4.4	4.6	5.0	5.9	6.3	6.0	5.7	5.6
	80	TC	37.5	37.5	37.5	37.5	37.4	37.3	37.3	39.0	39.0	38.7	39.7	39.7	37.3	37.6	38.1	34.9	32.2
		kW	1.7	2.0	2.1	2.3	2.4	2.6	2.8	3.0	3.3	3.4	3.6	3.9	4.8	5.5	6.0	5.9	5.7

Table 13

TC refers to total capacity in kBTU/hr

kW: refer to total input power

5 AHRI 210/240 Performance Data

5.1 SEER2 Data

System Configuration	Outdoor Unit Model	Indoor Unit Model	Furnace Model	Cooling Capacity (BTU/h)			Cooling CFM (High/Low)	Heating Capacity			Heating CFM (High/Low)	
		Coils/Air Handlers		Total	EER2 ²	SEER2 ¹		Hi	HSPF2 ³	Low ⁴		
BOVA20 with BIVA20	BOVA-36RTB-M20S	BIVA-24RCB-M20X	/	24000	13	20	810/620	24000	9.5	22400	850/710	*
	BOVA-36RTB-M20S	BIVA-36RCB-M20X	/	34200	12	19	1170/900	34200	9.5	28000	1300/1030	*
	BOVA-60RTB-M20S	BIVA-48RCB-M20X	/	47000	12	18.5	1580/1250	48000	9.5	40000	1680/1420	*
	BOVA-60RTB-M20S	BIVA-60RCB-M20X	/	52000	11.7	18	1760/1430	55000	9.5	44000	1800/1600	*
BOVA20 with 96% Gas Furnace	BOVA-36RTB-M20S	BMAC2430ABTA	BGH96M060B3C	23800	12	18	750/550	24000	9	19600	750/550	*
	BOVA-36RTB-M20S	BMAC2430ABTA	BGH96M080B3C	23800	12	18	750/550	24000	9	19600	750/550	*
	BOVA-36RTB-M20S	BMAC2430BBTA	BGH96M060B3C	24000	12	18.5	750/550	24000	9	20000	750/550	*
	BOVA-36RTB-M20S	BMAC2430BBTA	BGH96M080B3C	24000	12	18.5	750/550	24000	9	20000	750/550	*
	BOVA-36RTB-M20S	BMAC3036ABTA	BGH96M060B3C	32800	10.6	17.0	1100/800	34000	9	25000	1100/800	*
	BOVA-36RTB-M20S	BMAC3036ABTA	BGH96M080B3C	32800	10.6	17.0	1100/800	34000	9	25000	1100/800	*
	BOVA-36RTB-M20S	BMAC3036BBTA	BGH96M060B3C	33600	11	17.5	1100/800	34200	9	25000	1100/800	*
	BOVA-36RTB-M20S	BMAC3036BBTA	BGH96M080B3C	33600	11	17.5	1100/800	34200	9	25000	1100/800	*
	BOVA-36RTB-M20S	BMAC3036CBTA	BGH96M080C4C	33600	11	17.5	1100/800	34200	9	25000	1100/800	*
	BOVA-36RTB-M20S	BMAC3036CBTA	BGH96M100C5C	33200	11.0	17.5	1100/1000	34200	9	25000	1100/1000	*
	BOVA-36RTB-M20S	BMAC4248BBTA	BGH96M080B3C	33000	11.0	18.0	1100/800	34200	9	25200	1100/800	*
	BOVA-36RTB-M20S	BMAC4248CBTA	BGH96M100C5C	33000	12	18.0	1150/1000	34200	9	25600	1150/1000	*
	BOVA-60RTB-M20S	BMAC4248BBTA	BGH96M080B3C	42500	11.7	16	1300/900	43500	9	35000	1300/900	*
	BOVA-60RTB-M20S	BMAC4248CBTA	BGH96M080C4C	42500	11.7	16	1300/900	44500	9	35000	1300/900	*
	BOVA-60RTB-M20S	BMAC4248CBTA	BGH96M100C5C	44000	11.7	16.5	1350/1150	46500	9	35600	1350/1150	*
	BOVA-60RTB-M20S	BMAC4248DBTA	BGH96M100D5C	44500	11.7	16.5	1500/1150	47000	9	35600	1500/1150	*
	BOVA-60RTB-M20S	BMAC4248DBTA	BGH96M120D5C	44500	11.7	17.0	1500/1150	47000	9	35600	1500/1150	*
	BOVA-60RTB-M20S	BMAC4860CBTA	BGH96M100C5C	51500	11.4	18	1350/1150	53500	9	38000	1350/1150	*
	BOVA-60RTB-M20S	BMAC4860DBTA	BGH96M100D5C	51500	11.7	18	1500/1150	54000	9	38500	1500/1150	*
	BOVA-60RTB-M20S	BMAC4860DBTA	BGH96M120D5C	51500	11.7	18	1500/1150	54000	9	38500	1500/1150	*

Table 14

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

² Energy Efficiency Ratio; Certified per AHRI 210/240

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

⁴ Jumper cut or dip switch off

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

* Denotes combinations that meet ENERGY STAR v6.1 Cold Climate

6 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	10000	
3 Ton	53.4 (Low Cooling)	22.6	19.8	35.9	44.3	49.1	35.2	36.4	32.3	35.5	Sound Blanket - Standard
	73.8 (High Cooling)	45.1	52.4	59.8	65.5	64.1	59.9	55.1	49.9	49.0	
	55.3 (Low Heating)	30.8	31.1	37.9	46.9	43.1	45.4	40.0	38.0	40.3	
	74.1 (High Heating)	46.6	57.3	59.6	64.2	65.1	60.0	56.4	48.7	48.1	
5 Ton	62.0 (Low Cooling)	29.9	23.3	43.8	55.2	53.2	42.5	44.7	44.5	40.3	
	76.2 (High Cooling)	53.2	48.0	58.2	65.6	67.1	61.6	62.8	53.2	50.0	
	53.1 (Low Heating)	20.5	27.3	41.1	43.3	36.6	36.7	39.0	35.6	37.9	
	77.1 (High Heating)	54.5	49.6	56.9	67.9	67.2	62.1	63.5	54.0	49.3	

Table 15 IDS Sound power level

7 Dimensions

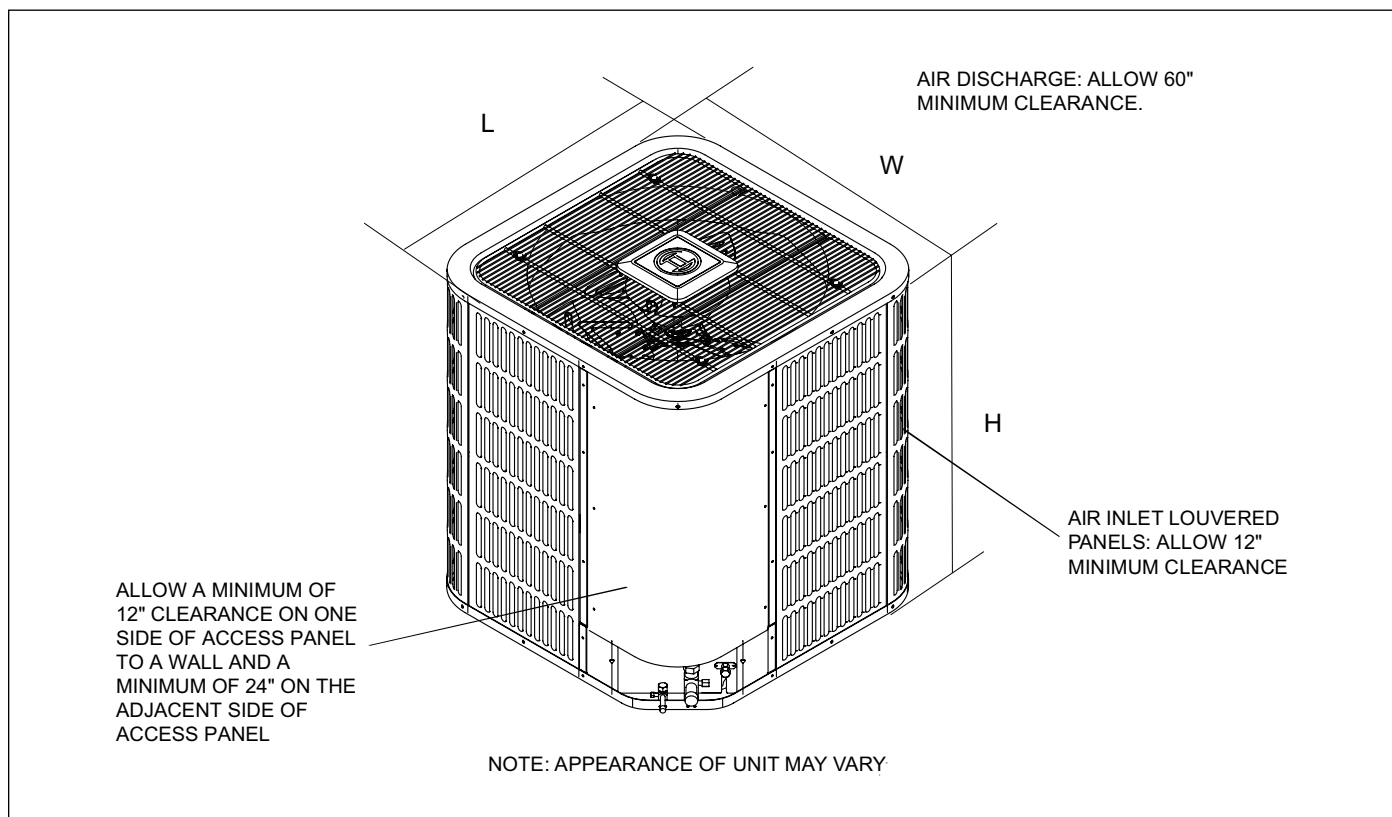


Figure 3

Model Size	Dimensions (Inches)		
	"H" in. [mm]	"W" in. [mm]	"L" in. [mm]
Heat Pump			
BOVA20-36	24-15/16 [633]	29-1/8 [740]	29-1/8 [740]
BOVA20-60	33-3/16 [843]	29-1/8 [740]	29-1/8 [740]

Table 16

Online Help Resources

Alternatively, please visit our Service & Support webpage to find FAQs, videos, service bulletins, and more; www.boschheatingcooling.com/service or use your cellphone to scan the code below.

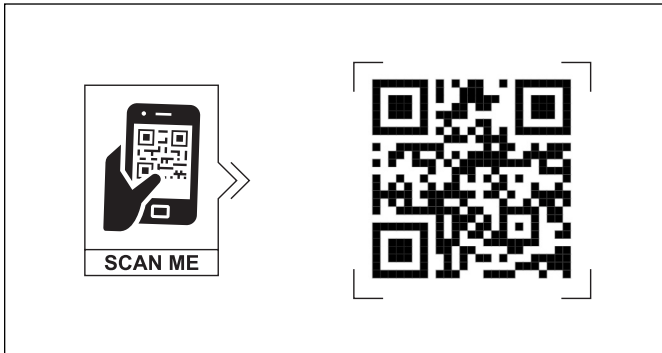


Figure 4

NOTES:

**United States and Canada
Bosch Thermotechnology Corp.
65 Grove St.
Watertown, MA 02472**

**Tel: 800-283-3787
www.bosch-homecomfort.us**

BTC 762008301 A / 08.2024

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make changes without notice due to continuing
engineering and technological advances.**