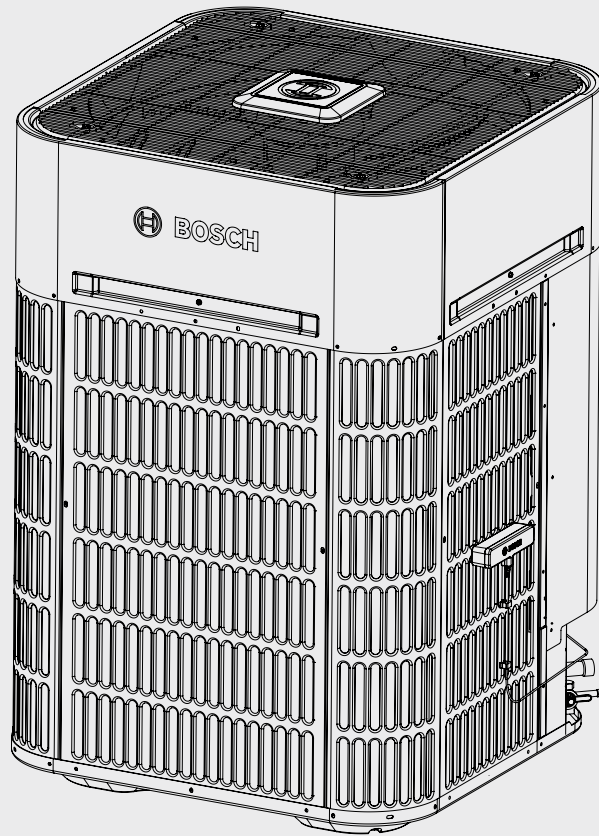




Product Specifications

Bosch IDS Heat Pump Ultra Series Condensing Unit

3 - 5 Ton Capacity | R-454B



BTC 762008303 B / 01.2026



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1 Product Features

1.1 Features and Benefits

- Premium efficiency- Up to 19 SEER2 and 10 HSPF2 (Region IV), 8.5 HSPF2 (Region V)
- Operation down to -13°F
- Capable of providing 100% heating capacity at 5°F outdoor temperature
- Fully Communicating system when paired with an IDS Ultra Air Handler, a BGH96 RevC/BGH97 Furnace, or an IDS Communication Accessory Kit
- Outdoor coil – copper tube with hydrophilic aluminum fins
- 10 speed ECM outdoor motor for quiet and efficient operation
- EVI Inverter Drive Compressor
- Whisper Quiet operation – as low as 39.9 dB(A)
- Small footprint – 29-1/8" (W) x 29-1/8" (D)
- Easy to install – compatible with most standard 24 VAC heat pump thermostats
- Compatible with Bosch BCC 100 Wi-Fi thermostat for optimized temperature control

1.2 Standard Features

- R-454B LGWP Refrigerant
- Vapor Injection Technology
- Intelligent Oil Return Technology
- Inverter Driven Rotary Compressor
- Comes with Built-in Crankcase Heater and Base Pan Heater
- 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.boschhomecomfort.us>

2 Nomenclature

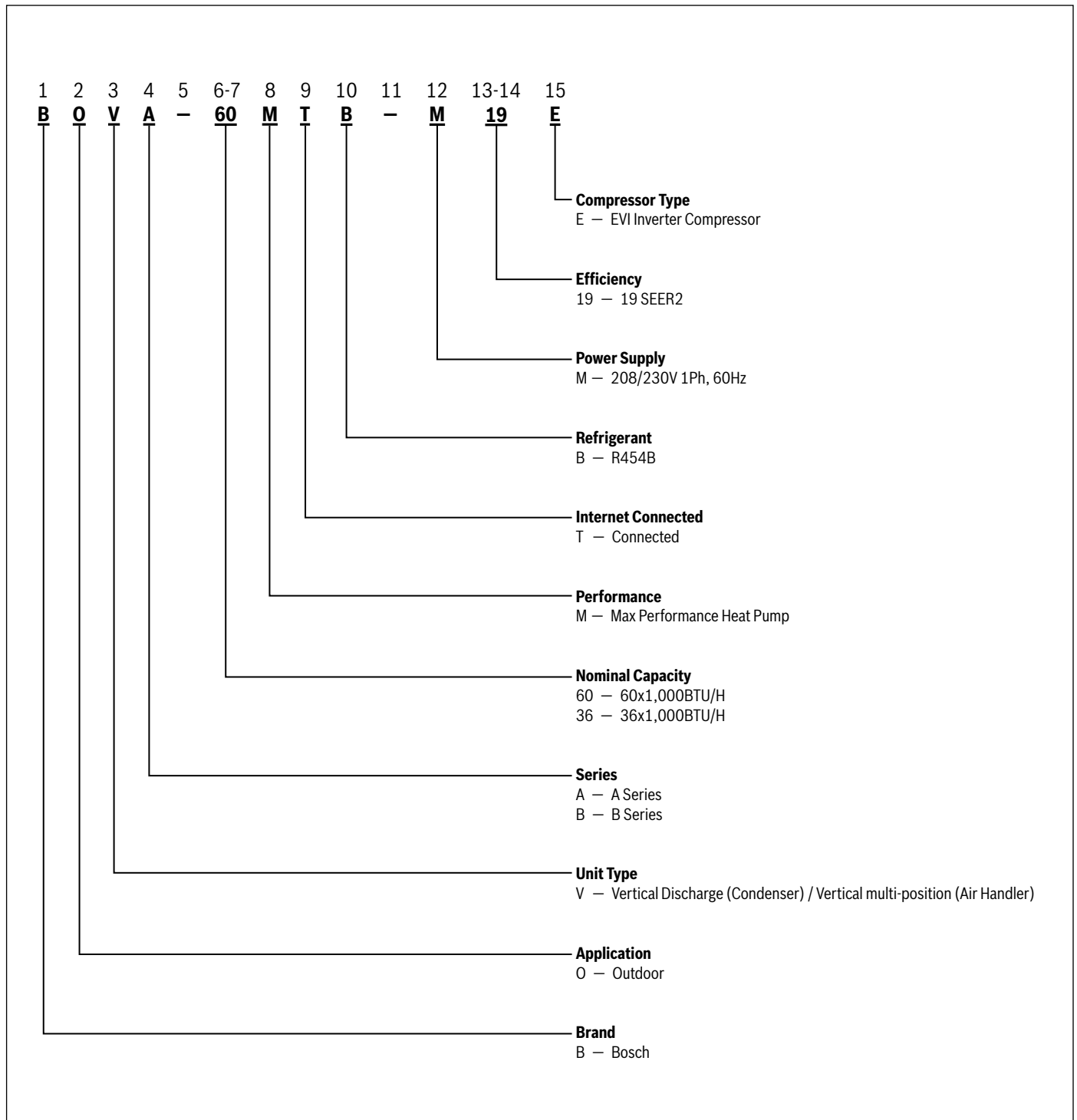


Figure 1

3 Product Specifications

	BOVB19-36	BOVB19-60
Cooling Capacity		
Nominal Cooling (BTU/h)	36,400	53,500
Nominal Heating (BTU/h)	36,600	55,000
Decibels([dB(A)])		
Max @ 100% load	70	79
Min @ min load	63	60
Compressor		
RLA	29.2	
Condenser Fan Motor		
Horsepower (HP)	1/3	
FLA	3.0	
Refrigeration System		
Refrigerant Line Size ¹		
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, oz)	8 lbs. 6 oz.	10 lbs. 14 oz.
Expansion Device	EEV	
Maximum Line Length	150 FT	
Maximum Elevation Difference	50 FT	
Operating Range		
Cooling	15 - 125 F	
Heating	-13 - 86 F	
Electrical Data		
Voltage-Phase-Hz	208/230-1-60	
Minimum Circuit Ampacity ²	29.8	39.5
Max. Overcurrent Protection ³	51.3	68.7
Max Fuse Size	35	50
Min/Max Volts	187V/253V	
Weight		
Net Weight (without packaging)	223	246
Gross Weight (including packaging) ⁴	260	280
Dimensions		
Unit L x W x H (in.)	29-1/8 x 29-1/8 x 43-5/16	
Outdoor Coil		
Net face area - sq.ft. Outer Coil	18.4	18.4
Tube diameter-in.	9/32" (7mm)	9/32" (7mm)
No.of rows	2	3
Fins per inch	19.5	19.5

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 25' 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 3 Ton IDS Ultra Series – Cooling Mode

		BOVB19-36 + BIVB19-36 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
800	15	TC	20.9	21.3	22.7	27.2	25.9	26.2	26.8	27.6	32.7	32.0	32.3	32.2	/	37.6	37.7	42.7
		S/T	0.83	0.99	1.00	1.00	0.60	0.77	0.93	1.00	0.41	0.55	0.69	0.82	/	0.40	0.52	0.60
		KW	1.16	1.23	1.34	1.46	1.29	1.34	1.43	1.54	1.32	1.59	1.64	1.61	/	1.77	1.81	2.24
	65	TC	16.3	18.1	21.3	25.0	20.4	20.7	21.5	25.0	28.2	28.7	28.8	28.6	/	38.0	37.9	38.0
		S/T	0.93	1.00	1.00	1.00	0.64	0.85	1.00	1.00	0.42	0.58	0.73	0.88	/	0.40	0.52	0.63
		KW	1.11	1.25	1.57	1.67	1.48	1.51	1.61	1.67	1.86	1.93	1.94	1.91	/	2.43	2.43	2.44
	75	TC	15.0	16.4	21.3	25.0	19.9	20.8	21.8	24.9	28.7	28.7	29.0	29.1	/	38.6	38.6	38.6
		S/T	0.97	1.00	1.00	1.00	0.64	0.85	0.99	1.00	0.42	0.58	0.73	0.87	/	0.40	0.52	0.63
		KW	1.22	1.32	1.53	1.68	1.39	1.48	1.60	1.68	2.00	2.00	1.93	1.95	/	2.41	2.42	2.42
	85	TC	14.9	16.8	21.3	25.5	20.1	20.4	21.6	25.4	28.7	28.6	28.3	28.7	/	37.0	37.0	37.6
		S/T	0.97	1.00	1.00	1.00	0.64	0.85	1.00	1.00	0.42	0.58	0.73	0.88	/	0.40	0.52	0.64
		KW	1.21	1.27	1.59	2.02	1.48	1.50	1.62	2.01	1.96	1.95	1.90	1.94	/	2.40	2.40	2.48
	95	TC	14.7	17.1	21.3	25.1	20.2	20.8	21.8	25.1	28.9	28.8	29.0	29.2	/	38.1	37.4	37.4
		S/T	0.98	1.00	1.00	1.00	0.64	0.85	1.00	1.00	0.42	0.58	0.73	0.87	/	0.40	0.52	0.64
		KW	1.22	1.30	1.56	1.82	1.50	1.53	1.61	1.82	2.12	2.12	2.14	2.16	/	2.95	2.85	2.85
	105	TC	14.0	17.2	21.3	25.1	20.7	21.0	21.4	25.5	29.1	28.9	29.0	29.2	/	37.5	37.4	37.3
		S/T	0.99	1.00	1.00	1.00	0.64	0.84	1.00	1.00	0.42	0.58	0.73	0.87	/	0.40	0.52	0.64
		KW	1.46	1.66	1.94	2.26	1.90	1.93	1.95	2.32	2.65	2.63	2.64	2.65	/	3.52	3.50	3.49
	115	TC	13.4	17.8	21.4	25.7	20.7	21.1	21.3	25.7	29.6	29.5	29.4	29.6	/	31.6	31.5	31.5
		S/T	1.00	1.00	1.00	1.00	0.64	0.84	1.00	1.00	0.42	0.57	0.73	0.87	/	0.41	0.55	0.69
		KW	1.74	2.09	2.34	2.78	2.30	2.33	2.33	2.78	3.18	3.17	3.16	3.18	/	3.28	3.27	3.27
	125	TC	13.4	17.8	20.9	23.4	20.3	20.6	22.0	23.4	23.7	23.6	23.7	23.7	/	25.5	25.6	25.6
		S/T	1.00	1.00	1.00	1.00	0.64	0.85	1.00	1.00	0.43	0.62	0.80	0.97	/	0.42	0.60	0.76
		KW	2.04	2.47	2.69	2.90	2.67	2.69	2.89	2.90	2.90	2.90	2.90	2.90	/	2.92	2.92	2.91
1000	15	TC	20.8	24.4	27.7	32.5	30.5	30.6	30.4	32.6	36.4	34.1	37.0	38.1	/	44.6	44.3	44.7
		S/T	0.91	1.00	1.00	1.00	0.60	0.77	0.95	1.00	0.41	0.57	0.70	0.84	/	0.40	0.52	0.63
		KW	1.20	1.23	1.60	1.82	1.53	1.56	1.63	1.84	1.79	1.89	1.90	2.05	/	2.40	2.37	2.43
	65	TC	16.2	20.7	25.0	29.7	23.8	24.2	24.9	30.1	34.3	34.6	35.3	35.5	/	43.5	43.6	43.3
		S/T	1.00	1.00	1.00	1.00	0.65	0.87	1.00	1.00	0.42	0.58	0.73	0.87	/	0.40	0.53	0.65
		KW	1.14	1.58	1.75	1.97	1.64	1.68	1.73	2.04	2.25	2.29	2.38	2.42	/	3.23	3.26	3.19
	75	TC	15.3	21.1	25.7	29.5	24.2	24.6	25.5	30.0	33.1	33.1	33.4	33.4	/	42.9	42.8	43.0
		S/T	1.00	1.00	1.00	1.00	0.64	0.86	1.00	1.00	0.42	0.58	0.74	0.90	/	0.40	0.53	0.65
		KW	1.29	1.61	1.77	2.07	1.70	1.75	1.75	2.14	2.50	2.49	2.53	2.53	/	2.96	2.93	2.96
	85	TC	15.5	20.8	25.1	29.7	23.4	23.6	25.1	29.6	32.9	32.9	33.2	33.3	/	42.1	42.0	42.3
		S/T	1.00	1.00	1.00	1.00	0.65	0.88	1.00	1.00	0.42	0.59	0.75	0.90	/	0.40	0.53	0.65
		KW	1.25	1.62	1.99	2.12	1.85	1.87	2.00	2.12	2.26	2.27	2.31	2.33	/	2.88	2.86	2.89
	95	TC	16.2	21.1	25.7	29.6	24.2	24.7	25.3	29.7	33.4	33.4	33.7	33.7	/	42.1	41.9	42.1
		S/T	1.00	1.00	1.00	1.00	0.64	0.86	1.00	1.00	0.42	0.58	0.74	0.89	/	0.40	0.53	0.66
		KW	1.35	1.64	1.96	2.24	1.84	1.89	1.92	2.26	2.59	2.58	2.61	2.61	/	3.38	3.36	3.37
	105	TC	15.8	20.6	25.4	30.0	24.3	24.6	25.3	30.0	33.5	33.4	33.5	33.5	/	39.0	39.0	39.0
		S/T	1.00	1.00	1.00	1.00	0.65	0.86	1.00	1.00	0.42	0.58	0.75	0.90	/	0.41	0.55	0.68
		KW	1.65	1.97	2.36	2.81	2.29	2.32	2.36	2.82	3.18	3.18	3.18	3.18	/	3.62	3.62	3.62
	115	TC	16.0	21.5	25.8	30.3	25.0	25.2	25.5	30.3	32.7	32.6	32.7	32.6	/	32.5	32.5	32.5
		S/T	1.00	1.00	1.00	1.00	0.64	0.85	1.00	1.00	0.42	0.59	0.75	0.91	/	0.42	0.58	0.74
		KW	2.01	2.45	2.87	3.36	2.79	2.81	2.81	3.35	3.53	3.53	3.53	3.53	/	3.34	3.34	3.34
	125	TC	16.3	20.3	23.2	24.7	22.4	22.4	23.2	24.7	24.1	24.2	24.2	24.7	/	26.1	26.1	26.1
		S/T	1.00	1.00	1.00	1.00	0.67	0.91	1.00	1.00	0.44	0.66	0.88	1.00	/	0.44	0.64	0.84
		KW	2.40	2.73	2.96	2.97	2.96	2.96	2.96	2.97	2.97	2.97	2.97	2.97	/	2.98	2.98	2.98
1100	15	TC	24.7	26.7	28.6	33.1	31.5	31.2	27.9	33.2	36.7	38.2	38.3	42.8	/	44.8	44.5	44.9
		S/T	0.88	1.00	1.00	1.00	0.62	0.80	1.00	1.00	0.42	0.57	0.73	0.82	/	0.40	0.53	0.66
		KW	1.24	1.49	1.66	1.77	1.60	1.57	1.54	1.77	1.74	2.00	2.00	2.32	/	2.34	2.29	2.35
	65	TC	17.8	22.3	27.6	32.1	25.2	25.7	27.9	32.1	37.3	35.6	36.1	36.7	/	43.6	44.0	44.4
		S/T	1.00	1.00	1.00	1.00	0.66	0.88	1.00	1.00	0.42	0.59	0.75	0.90	/	0.41	0.54	0.67
		KW	1.27	1.58	1.87	2.07	1.77	1.82	1.91	2.07	2.60	2.34	2.41	2.36	/	3.13	3.19	3.19
	75	TC	15.9	22.9	27.8	32.6	25.6	26.1	27.7	32.6	37.2	36.6	35.7	35.8	/	44.8	44.8	44.5
		S/T	1.00	1.00	1.00	1.00	0.66	0.88	1.00	1.00	0.42	0.59	0.75	0.91	/	0.41	0.54	0.67
		KW	1.33	1.66	1.89	2.42	1.74	1.78	1.87	2.42	2.37	2.29	2.83	2.83	/	3.11	3.11	3.04
	85	TC	16.9	22.7	27.6	32.1	25.0	25.4	27.7	32.2	35.0	34.7	35.2	35.4	/	43.9	44.0	44.3
		S/T	1.00	1.00	1.00	1.00	0.66	0.89	1.00	1.00	0.42	0.60	0.76	0.91	/	0.41	0.54	0.66
		KW	1.30	1.78	1.91	2.16	2.00	2.05	1.92	2.17	2.37	2.32	2.37	2.39	/	3.03	3.03	3.06
	95	TC	17.8	22.9	27.6	32.6	26.3	26.7	27.5	32.6	35.4	35.2	35.6	36.2	/	42.9	42.9	43.1
		S/T	1.00	1.00	1.00	1.00	0.65	0.87	1.00	1.00	0.42	0.59	0.75	0.90	/	0.41	0.55	0.68
		KW	1.42	1.73	2.07	2.50	1.99	2.02	2.06	2.50	2.79	2.79	2.81	2.89	/	3.38	3.37	3.37
	105	TC	17.8	22.9	28.0	32.9	26.2	26.5	27.7	32.9	34.9	34.9	35.0	35.0	/	39.7	39.7	39.8
		S/T	1.00	1.00	1.00	1.00	0.65	0.87	1.00	1.00	0.42	0.59	0.76	0.92	/	0.41	0.56	0.70
		KW	1.77	2.13	2.61	3.10	2.45	2.48	2.55	3.10	3.36	3.36	3.37	3.36	/	3.61	3.61	3.61
	115	TC	17.9	23.2	28.3	32.5	26.3	26.5	27.9	32.5	33.2	33.2	33.3	33.2	/	33.0	33.1	33.1
		S/T	1.00	1.00	1.00	1.00	0.65	0.87	1.00	1.00	0.42	0.61	0.78	0.95	/	0.43	0.60	0.77
		KW	2.14	2.59	3.10	3.52	2.89	2.91	3.04	3.51	3.52	3.52	3.52	3.52	/	3.33	3.33	3.33
	125	TC	17.9	22.3	23.9	25.5	22.7	22.8	23.9	25.5	24.5	24.5	24.5	25.4	/	26.4	26.5	26.5
		S/T	1.00	1.00	1.00	1.00	0.69	0.94	1.00	1.00	0.45	0.69	0.92	1.00	/	0.45	0.67	0.88
		KW	2.53	2.94	2.95	2.96	2.94	2.95	2.95	2.96	2.96	2.96	2.96	2.96	/	2.97	2.96	2.96

Table 2

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

BOVB19-36 + BIVB19-36 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	24.8	27.4	31.0	37.5	30.9	31.6	32.2	37.5	37.4	37.9	43.6	42.9	/	46.1	45.9	45.6
		S/T	0.91	1.00	1.00	1.00	0.63	0.82	0.98	1.00	0.41	0.58	0.70	0.85	/	0.40	0.54	0.67
	KW	1.37	1.72	1.65	2.16	1.61	1.73	1.83	2.16	1.95	2.04	2.52	2.38	/	2.66	2.62	2.55	
	65	TC	18.4	23.9	29.0	34.1	27.3	27.7	29.1	34.0	36.6	37.2	38.5	38.3	/	47.8	47.2	46.5
		S/T	1.00	1.00	1.00	1.00	0.65	0.88	1.00	1.00	0.42	0.59	0.75	0.91	/	0.40	0.54	0.67
	KW	1.44	1.75	2.17	2.29	1.97	2.02	2.17	2.27	2.58	2.52	2.71	2.68	/	2.83	2.76	2.80	
	75	TC	17.9	24.4	29.5	33.9	26.6	27.0	29.1	34.0	38.2	37.8	38.2	38.3	/	45.1	45.1	45.2
		S/T	1.00	1.00	1.00	1.00	0.66	0.89	1.00	1.00	0.42	0.59	0.75	0.91	/	0.40	0.55	0.68
	KW	1.48	1.82	2.19	2.68	1.95	2.00	2.14	2.69	2.56	2.51	2.56	2.56	/	3.21	3.21	3.21	
	85	TC	18.6	24.0	29.1	34.3	26.7	26.7	29.3	34.3	36.2	36.5	37.6	37.7	/	41.7	44.2	44.4
		S/T	1.00	1.00	1.00	1.00	0.66	0.89	1.00	1.00	0.42	0.60	0.76	0.92	/	0.41	0.55	0.67
	KW	1.54	2.03	2.17	2.42	1.95	1.95	2.19	2.43	2.50	2.53	2.65	2.66	/	2.90	3.15	3.09	
	95	TC	18.6	24.4	29.4	34.6	27.5	27.9	29.2	34.7	36.2	36.3	36.4	36.4	/	43.0	43.1	43.4
		S/T	1.00	1.00	1.00	1.00	0.65	0.88	1.00	1.00	0.42	0.59	0.77	0.93	/	0.41	0.56	0.69
	KW	1.57	1.96	2.34	2.79	2.20	2.23	2.31	2.81	3.01	3.01	3.01	3.01	/	3.47	3.47	3.47	
	105	TC	18.7	24.3	29.7	34.3	27.5	27.7	29.9	34.3	36.3	35.8	36.0	35.9	/	39.8	39.9	40.0
		S/T	1.00	1.00	1.00	1.00	0.65	0.88	1.00	1.00	0.42	0.60	0.77	0.94	/	0.41	0.57	0.72
	KW	1.94	2.39	2.90	3.35	2.68	2.71	2.92	3.35	3.56	3.56	3.58	3.57	/	3.70	3.70	3.70	
	115	TC	19.0	24.4	29.4	30.8	27.5	27.7	29.4	30.9	30.5	30.6	30.6	30.9	/	33.0	33.1	33.2
		S/T	1.00	1.00	1.00	1.00	0.65	0.88	1.00	1.00	0.43	0.64	0.85	1.00	/	0.43	0.62	0.80
	KW	2.34	2.82	3.32	3.41	3.13	3.16	3.32	3.41	3.41	3.41	3.41	3.41	/	3.42	3.42	3.42	
	125	TC	19.0	22.5	24.1	25.7	22.6	22.7	24.1	25.7	24.4	24.4	24.5	25.7	/	26.4	26.4	26.4
		S/T	1.00	1.00	1.00	1.00	0.71	0.97	1.00	1.00	0.45	0.71	0.95	1.00	/	0.45	0.69	0.91
	KW	2.76	3.04	3.04	3.05	3.04	3.04	3.04	3.05	3.05	3.05	3.05	3.05	/	3.05	3.05	3.05	
1350	15	TC	25.4	31.2	33.2	38.2	34.8	34.6	32.1	38.2	40.9	41.8	43.5	42.3	/	48.0	48.2	48.8
		S/T	0.94	1.00	1.00	1.00	0.61	0.82	1.00	1.00	0.41	0.58	0.74	0.90	/	0.40	0.55	0.69
	KW	1.51	2.63	2.02	2.24	1.85	1.80	1.83	2.24	2.13	2.22	2.49	2.30	/	3.05	3.07	3.21	
	65	TC	20.8	25.9	32.0	37.6	29.2	29.9	32.1	37.7	39.9	39.8	40.0	40.3	/	47.2	43.9	47.5
		S/T	1.00	1.00	1.00	1.00	0.66	0.89	1.00	1.00	0.42	0.60	0.77	0.93	/	0.40	0.55	0.69
	KW	1.81	2.06	2.28	2.68	2.13	2.22	2.31	2.69	3.14	3.12	2.94	2.99	/	2.81	3.44	2.89	
	75	TC	20.6	26.4	32.3	36.5	28.6	29.0	32.3	36.5	39.5	39.4	39.6	39.5	/	44.7	45.2	45.6
		S/T	1.00	1.00	1.00	1.00	0.67	0.91	1.00	1.00	0.42	0.60	0.78	0.94	/	0.41	0.55	0.69
	KW	1.74	2.04	2.62	3.05	2.17	2.23	2.61	3.06	2.79	2.75	2.75	2.75	/	3.18	3.08	3.08	
	85	TC	20.3	25.9	32.1	37.2	28.0	28.6	31.8	37.2	37.8	38.7	39.5	39.4	/	44.2	44.3	44.6
		S/T	1.00	1.00	1.00	1.00	0.67	0.91	1.00	1.00	0.42	0.60	0.78	0.94	/	0.41	0.55	0.69
	KW	1.76	1.97	2.39	2.69	2.14	2.21	2.34	2.69	2.72	2.81	2.89	2.89	/	3.17	3.17	3.17	
	95	TC	20.3	26.7	32.4	37.7	29.5	29.9	32.4	37.7	38.6	38.8	39.1	39.1	/	43.4	43.7	43.9
		S/T	1.00	1.00	1.00	1.00	0.66	0.89	1.00	1.00	0.42	0.60	0.78	0.95	/	0.41	0.57	0.72
	KW	1.75	2.23	2.69	3.19	2.44	2.48	2.70	3.18	3.26	3.26	3.28	3.29	/	3.54	3.54	3.54	
	105	TC	20.5	26.3	32.4	37.1	29.3	29.5	32.5	37.1	37.4	37.4	37.6	37.6	/	40.2	40.4	40.5
		S/T	1.00	1.00	1.00	1.00	0.66	0.90	1.00	1.00	0.42	0.61	0.80	0.97	/	0.42	0.59	0.76
	KW	2.15	2.64	3.27	3.75	2.95	2.96	3.28	3.75	3.75	3.75	3.75	3.75	/	3.78	3.78	3.77	
	115	TC	20.7	26.8	32.0	31.8	29.7	29.8	32.0	31.8	30.7	30.9	30.9	31.8	/	33.3	33.4	33.4
		S/T	1.00	1.00	1.00	1.00	0.66	0.90	1.00	1.00	0.43	0.66	0.89	1.00	/	0.43	0.65	0.85
	KW	2.56	3.16	3.67	3.49	3.48	3.50	3.67	3.48	3.48	3.48	3.48	3.48	/	3.49	3.49	3.49	
	125	TC	19.9	22.9	24.6	26.3	22.7	22.9	24.6	26.3	24.5	24.6	24.7	26.3	/	26.4	26.5	26.6
		S/T	1.00	1.00	1.00	1.00	0.74	1.00	1.00	1.00	0.45	0.74	0.99	1.00	/	0.46	0.73	0.97
	KW	2.89	3.11	3.12	3.12	3.11	3.11	3.11	3.12	3.12	3.12	3.12	3.12	/	3.12	3.12	3.12	

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

4.2 4 Ton IDS Ultra Series - Cooling Mode

		BOVB19-60 + BIVB19-48 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	35.44	35.91	36.67	37.05	36.67	37.05	37.43	37.91	39.24	39.52	39.90	40.28	/	47.03	47.41	48.26
		S/T	0.68	0.73	0.81	0.99	0.61	0.80	0.84	0.90	0.42	0.56	0.72	0.87	/	0.40	0.53	0.64
		KW	1.57	1.59	1.60	1.60	1.60	1.62	1.64	1.65	1.64	1.68	1.70	1.72	/	2.29	2.32	2.32
	65	TC	35.53	35.91	36.77	37.15	36.77	37.15	37.53	37.91	39.33	39.62	40.00	40.38	/	47.12	47.50	48.36
		S/T	0.80	0.85	0.94	0.99	0.61	0.80	0.92	0.96	0.42	0.56	0.72	0.87	/	0.40	0.53	0.64
		KW	1.95	1.98	2.00	2.00	2.00	2.02	2.04	2.06	2.05	2.08	2.10	2.12	/	2.70	2.73	2.73
	75	TC	35.34	35.72	36.58	36.96	36.58	36.96	37.34	37.72	39.05	39.33	39.71	40.09	/	47.41	47.79	48.26
		S/T	0.80	0.85	0.94	0.99	0.61	0.80	0.93	0.97	0.42	0.56	0.73	0.87	/	0.40	0.53	0.64
		KW	2.10	2.12	2.14	2.14	2.14	2.17	2.19	2.21	2.21	2.22	2.25	2.28	/	2.54	2.57	2.59
	85	TC	34.96	35.34	36.20	36.58	36.20	36.58	36.96	37.34	38.67	39.05	39.33	39.71	/	46.65	47.03	47.41
		S/T	0.80	0.85	0.94	0.99	0.61	0.80	0.93	0.97	0.42	0.56	0.73	0.87	/	0.40	0.53	0.65
		KW	2.22	2.24	2.27	2.27	2.27	2.29	2.32	2.34	2.35	2.37	2.39	2.42	/	2.90	2.93	2.95
	95	TC	34.31	34.59	35.44	35.81	35.44	35.81	36.28	36.66	37.88	38.26	38.54	38.92	/	45.50	45.78	46.15
		S/T	0.81	0.86	0.94	0.99	0.61	0.80	0.93	0.97	0.41	0.56	0.73	0.89	/	0.40	0.53	0.65
		KW	2.69	2.72	2.74	2.74	2.74	2.77	2.80	2.83	2.83	2.86	2.89	2.91	/	3.29	3.32	3.35
	105	TC	31.45	31.83	32.57	32.85	32.57	32.85	33.22	33.59	34.80	35.08	35.36	35.64	/	41.60	41.97	42.16
		S/T	0.81	0.86	0.94	0.99	0.61	0.81	0.93	0.97	0.41	0.57	0.75	0.88	/	0.40	0.53	0.66
		KW	3.13	3.16	3.20	3.20	3.20	3.22	3.26	3.29	3.31	3.34	3.37	3.39	/	3.90	3.93	3.96
	115	TC	30.99	31.36	32.11	32.48	32.11	32.48	32.76	33.13	34.25	34.53	34.90	35.18	/	35.72	35.90	36.16
		S/T	0.81	0.86	0.94	0.99	0.61	0.81	0.96	0.99	0.41	0.57	0.73	0.89	/	0.41	0.54	0.69
		KW	3.93	3.97	4.01	4.01	4.01	4.06	4.10	4.14	4.15	4.19	4.23	4.26	/	4.32	4.33	4.33
	125	TC	24.38	24.57	25.22	25.50	25.22	25.50	25.78	26.06	27.36	27.45	27.45	27.55	/	29.13	29.13	29.22
		S/T	0.82	0.88	0.95	0.99	0.62	0.84	0.96	0.99	0.42	0.61	0.80	0.99	/	0.41	0.61	0.79
		KW	3.11	3.14	3.17	3.17	3.17	3.21	3.24	3.27	3.33	3.33	3.33	3.33	/	3.36	3.36	3.36
1350	15	TC	37.72	38.19	39.05	39.43	39.05	39.43	39.81	40.28	41.61	41.99	42.37	42.75	/	50.73	51.21	51.59
		S/T	0.72	0.76	0.85	0.99	0.61	0.82	0.84	0.90	0.41	0.58	0.75	0.90	/	0.40	0.53	0.66
		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	/	2.33	2.36	2.37
	65	TC	37.91	38.38	39.24	39.62	39.24	39.62	40.09	40.57	41.80	42.18	42.56	42.94	/	50.92	51.40	51.78
		S/T	0.84	0.90	0.97	0.99	0.61	0.82	0.94	0.99	0.41	0.58	0.75	0.90	/	0.40	0.53	0.66
		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	/	2.73	2.76	2.79
	75	TC	38.00	38.48	39.33	39.71	39.33	39.71	40.19	40.66	41.90	42.28	42.66	43.04	/	50.54	51.02	51.40
		S/T	0.83	0.89	0.96	0.99	0.61	0.82	0.94	0.99	0.41	0.58	0.75	0.90	/	0.40	0.53	0.66
		KW	2.29	2.31	2.34	2.34	2.34	2.36	2.39	2.41	2.41	2.43	2.46	2.49	/	2.91	2.94	2.97
	85	TC	37.53	38.00	38.86	39.33	38.86	39.33	39.71	40.09	41.52	41.80	42.18	42.47	/	49.88	50.26	50.54
		S/T	0.83	0.89	0.96	0.99	0.61	0.82	0.94	0.99	0.41	0.58	0.75	0.91	/	0.40	0.53	0.66
		KW	2.53	2.56	2.59	2.59	2.59	2.61	2.64	2.67	2.68	2.70	2.72	2.75	/	3.27	3.30	3.33
	95	TC	36.66	37.13	37.98	38.35	38.38	38.76	39.24	39.62	41.47	41.66	42.27	42.34	/	48.32	48.69	49.07
		S/T	0.83	0.89	0.96	0.99	0.61	0.82	0.94	0.99	0.41	0.58	0.75	0.91	/	0.40	0.54	0.68
		KW	3.07	3.10	3.14	3.14	3.14	3.17	3.20	3.24	3.24	3.27	3.30	3.33	/	3.69	3.73	3.76
	105	TC	33.59	34.06	34.71	35.08	34.71	35.08	35.55	35.83	37.22	37.50	37.69	37.97	/	44.11	44.30	44.58
		S/T	0.83	0.89	0.96	0.99	0.62	0.83	0.94	0.99	0.41	0.58	0.75	0.91	/	0.40	0.54	0.69
		KW	3.41	3.45	3.49	3.49	3.49	3.53	3.56	3.60	3.61	3.65	3.68	3.70	/	4.24	4.28	4.31
	115	TC	32.01	32.38	33.04	33.41	33.04	33.41	33.87	34.15	35.64	35.83	35.92	35.74	/	36.73	36.91	37.09
		S/T	0.84	0.90	0.97	0.99	0.62	0.83	0.94	0.99	0.41	0.58	0.74	0.94	/	0.41	0.56	0.73
		KW	4.03	4.07	4.12	4.12	4.12	4.16	4.21	4.25	4.33	4.34	4.34	4.33	/	4.38	4.38	4.38
	125	TC	24.57	24.94	25.50	25.87	25.50	25.87	26.06	26.24	27.64	27.64	27.73	27.73	/	29.31	29.41	29.41
		S/T	0.86	0.92	0.99	0.99	0.64	0.90	0.94	0.99	0.42	0.63	0.85	0.99	/	0.42	0.63	0.84
		KW	3.16	3.19	3.23	3.23	3.23	3.26	3.29	3.32	3.39	3.39	3.39	3.39	/	3.41	3.41	3.41
1550	15	TC	42.6	43.0	44.0	44.5	44.0	44.5	45.0	45.5	47.1	47.5	47.9	48.2	/	56.3	56.7	57.0
		S/T	0.74	0.80	0.89	0.99	0.62	0.84	0.90	0.94	0.41	0.58	0.75	0.92	/	0.40	0.54	0.68
		KW	1.95	1.97	1.99	1.99	1.99	2.01	2.03	2.05	2.02	2.06	2.11	2.15	/	2.54	2.57	2.59
	65	TC	44.6	45.0	46.1	46.5	46.1	46.5	47.1	47.5	49.4	49.7	50.1	50.3	/	58.4	58.8	59.1
		S/T	0.89	0.94	0.99	0.99	0.62	0.83	0.96	0.99	0.41	0.58	0.75	0.90	/	0.40	0.53	0.66
		KW	2.66	2.68	2.71	2.71	2.71	2.74	2.77	2.79	2.79	2.82	2.86	2.89	/	3.26	3.30	3.33
	75	TC	44.2	44.8	45.7	46.3	45.7	46.3	46.7	47.1	49.0	49.5	49.7	50.0	/	57.8	58.2	58.6
		S/T	0.89	0.94	0.99	0.99	0.62	0.83	0.96	0.99	0.41	0.58	0.75	0.91	/	0.40	0.54	0.68
		KW	2.78	2.81	2.84	2.84	2.84	2.87	2.90	2.93	2.94	2.96	2.99	3.02	/	3.47	3.50	3.54
	85	TC	43.4	43.9	44.9	45.4	44.9	45.4	45.9	46.4	48.1	48.5	48.9	49.2	/	56.4	56.9	57.2
		S/T	0.89	0.94	0.99	0.99	0.62	0.83	0.96	0.99	0.41	0.58	0.75	0.92	/	0.40	0.54	0.68
		KW	3.13	3.16	3.19	3.19	3.19	3.23	3.26	3.29	3.31	3.34	3.36	3.39	/	3.99	4.03	4.06
	95	TC	42.1	42.6	43.6	44.1	44.0	44.6	45.0	45.5	47.6	48.0	48.7	48.6	/	54.4	54.8	55.2
		S/T	0.89	0.94	0.99	0.99	0.62	0.84	0.96	0.99	0.41	0.58	0.76	0.92	/	0.40	0.54	0.69
		KW	3.72	3.76	3.80	3.80	3.80	3.85	3.89	3.93	3.94	3.97	4.00	4.03	/	4.42	4.45	4.52
	105	TC	38.7	39.1	40.1	40.5	40.1	40.5	40.9	41.4	43.0	43.3	43.6	43.8	/	48.8	49.4	50.0
		S/T	0.89	0.94	0.99	0.99	0.62	0.84	0.96	0.99	0.41	0.58	0.76	0.93	/	0.40	0.55	0.70
		KW	4.21	4.26	4.30	4.30	4.30	4.35	4.40	4.44	4.46	4.50	4.54	4.57	/	5.16	5.18	5.18
	115	TC	33.2	33.6	34.3	34.8	34.3	34.8	35.2	35.5	37.0	37.2	37.3	37.3	/	38.6	38.7	38.8

BOVB19-60 + BIVB19-48 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	
1700	15	TC	45.2	45.8	46.8	47.2	46.8	47.2	47.8	48.3	50.1	50.4	50.9	51.2	/	59.5	59.9	60.3	
		S/T	0.76	0.82	1.00	1.00	0.64	0.87	0.93	0.97	0.41	0.60	0.78	0.96	/	0.40	0.56	0.71	
		KW	2.37	2.40	2.43	2.43	2.43	2.46	2.48	2.51	2.46	2.51	2.56	2.61	/	3.10	3.13	3.15	
	65	TC	47.3	47.9	49.0	49.5	49.0	49.5	50.1	50.5	52.5	52.9	53.3	53.5	/	61.6	62.0	62.4	
		S/T	0.91	0.95	1.00	1.00	0.63	0.86	0.98	1.00	0.41	0.59	0.77	0.94	/	0.40	0.55	0.70	
		KW	3.00	3.03	3.07	3.07	3.07	3.11	3.14	3.17	3.17	3.20	3.23	3.26	/	3.66	3.69	3.74	
	75	TC	47.3	47.7	48.8	49.3	48.8	49.3	49.8	50.4	52.3	52.6	53.0	53.3	/	61.1	61.5	62.3	
		S/T	0.90	0.95	1.00	1.00	0.63	0.86	0.98	1.00	0.41	0.60	0.77	0.95	/	0.40	0.55	0.70	
		KW	3.10	3.13	3.17	3.17	3.17	3.20	3.23	3.27	3.28	3.31	3.33	3.36	/	3.84	3.88	3.89	
	85	TC	46.3	46.9	47.9	48.3	47.9	48.3	48.9	49.5	51.3	51.7	52.1	52.3	/	59.7	60.1	60.4	
		S/T	0.91	0.95	1.00	1.00	0.64	0.86	0.98	1.00	0.41	0.60	0.78	0.96	/	0.40	0.56	0.71	
		KW	3.44	3.48	3.51	3.51	3.51	3.55	3.59	3.62	3.64	3.66	3.70	3.73	/	4.36	4.40	4.43	
	95	TC	44.7	45.2	46.3	46.9	46.3	46.9	47.3	47.7	49.6	49.9	50.4	50.4	/	57.4	57.8	58.1	
		S/T	0.91	0.95	1.00	1.00	0.64	0.87	0.98	1.00	0.41	0.60	0.78	0.96	/	0.40	0.56	0.72	
		KW	4.04	4.09	4.13	4.13	4.13	4.18	4.22	4.26	4.28	4.32	4.35	4.38	/	4.83	4.87	4.90	
	105	TC	40.8	41.2	42.2	42.6	42.2	42.6	43.1	43.6	45.2	45.6	45.9	46.0	/	50.5	50.8	51.7	
		S/T	0.90	0.95	1.00	1.00	0.64	0.87	0.98	1.00	0.41	0.60	0.81	0.96	/	0.40	0.57	0.74	
		KW	4.57	4.62	4.68	4.68	4.68	4.73	4.77	4.82	4.85	4.89	4.92	4.95	/	5.26	5.30	5.26	
	115	TC	34.2	34.6	35.4	35.6	35.4	35.6	36.1	36.5	38.2	38.3	38.5	38.5	/	39.4	39.5	39.7	
		S/T	0.91	0.95	1.00	1.00	0.65	0.90	0.98	1.00	0.41	0.63	0.84	1.00	/	0.41	0.64	0.84	
		KW	4.48	4.52	4.57	4.57	4.57	4.62	4.66	4.71	4.77	4.79	4.81	4.82	/	4.95	4.96	4.97	
	125	TC	25.8	26.1	26.8	27.0	26.8	27.0	27.3	27.6	28.9	28.9	29.0	29.0	/	30.8	30.9	30.9	
		S/T	0.92	0.96	1.00	1.00	0.72	1.00	1.00	1.00	0.42	0.72	0.99	1.00	/	0.42	0.72	1.00	
		KW	3.45	3.49	3.53	3.53	3.53	3.57	3.60	3.64	3.71	3.71	3.71	3.71	/	3.73	3.73	3.73	
1850	15	TC	48.0	48.6	49.8	50.2	49.8	50.2	50.8	51.4	53.4	53.7	54.1	54.6	/	62.7	63.1	63.5	
		S/T	0.79	0.84	1.00	1.00	0.64	0.89	0.95	1.00	0.41	0.61	0.81	0.97	/	0.40	0.56	0.73	
		KW	2.80	2.83	2.87	2.87	2.87	2.90	2.93	2.96	2.91	2.97	3.02	3.07	/	3.66	3.69	3.72	
	65	TC	50.2	50.7	51.9	52.4	51.9	52.4	52.9	53.5	55.6	55.9	56.3	56.7	/	65.1	65.5	65.9	
		S/T	0.92	0.96	1.00	1.00	0.64	0.87	1.00	1.00	0.41	0.60	0.78	0.96	/	0.40	0.56	0.72	
		KW	3.31	3.34	3.38	3.38	3.38	3.42	3.45	3.49	3.49	3.52	3.55	3.59	/	4.02	4.05	4.08	
	75	TC	50.5	50.9	52.1	52.7	52.1	52.7	53.2	53.8	55.9	56.3	56.7	57.1	/	65.3	65.7	66.1	
		S/T	0.92	0.96	1.00	1.00	0.64	0.87	1.00	1.00	0.41	0.60	0.78	0.96	/	0.40	0.56	0.72	
		KW	3.29	3.33	3.36	3.36	3.36	3.40	3.43	3.47	3.49	3.51	3.54	3.58	/	4.09	4.12	4.15	
	85	TC	49.1	49.7	50.8	51.4	50.8	51.4	51.9	52.5	54.6	54.9	55.3	55.6	/	63.2	63.6	63.9	
		S/T	0.92	0.96	1.00	1.00	0.64	0.89	1.00	1.00	0.41	0.61	0.79	0.97	/	0.40	0.57	0.73	
		KW	3.76	3.80	3.84	3.84	3.84	3.88	3.92	3.96	3.98	4.01	4.05	4.08	/	4.75	4.78	4.81	
	95	TC	47.4	47.8	49.0	49.5	49.0	49.5	50.1	50.6	52.5	52.9	53.2	53.5	/	60.4	60.8	61.1	
		S/T	0.92	0.96	1.00	1.00	0.65	0.89	1.00	1.00	0.41	0.61	0.81	0.98	/	0.40	0.57	0.74	
		KW	4.40	4.45	4.49	4.49	4.49	4.55	4.60	4.64	4.67	4.70	4.74	4.77	/	5.23	5.25	5.29	
	105	TC	42.8	43.3	44.3	44.8	44.3	44.8	45.3	45.8	47.5	47.8	48.1	48.4	/	51.3	53.0	53.3	
		S/T	0.92	0.96	1.00	1.00	0.65	0.90	1.00	1.00	0.41	0.61	0.82	1.00	/	0.40	0.60	0.76	
		KW	4.91	4.96	5.01	5.01	5.01	5.06	5.12	5.17	5.21	5.24	5.28	5.31	/	5.36	5.38	5.40	
	115	TC	35.6	35.9	36.7	37.1	36.7	37.1	37.4	37.8	39.5	39.7	39.9	40.1	/	40.8	40.9	41.0	
		S/T	0.92	0.96	1.00	1.00	0.66	0.93	1.00	1.00	0.41	0.65	0.88	1.00	/	0.41	0.65	0.89	
		KW	4.73	4.78	4.84	4.84	4.84	4.89	4.94	4.99	5.06	5.07	5.10	5.11	/	5.21	5.20	5.22	
	125	TC	26.3	26.6	27.3	27.5	27.3	27.5	27.8	28.1	29.4	29.4	29.5	29.5	/	31.4	31.5	31.6	
		S/T	0.93	0.97	1.00	1.00	0.74	1.00	1.00	1.00	0.42	0.74	0.99	1.00	/	0.43	0.75	1.00	
		KW	3.60	3.64	3.67	3.67	3.67	3.71	3.75	3.79	3.87	3.87	3.87	3.87	/	3.89	3.89	3.89	

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

4.3 5 Ton IDS Ultra Series - Cooling Mode

		BOVB19-60 + BVB19-60 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	37.30	37.80	38.60	39.00	38.60	39.00	39.40	39.90	41.30	41.60	42.00	42.40	/	49.50	49.90	50.80
		S/T	0.68	0.73	0.81	0.99	0.61	0.80	0.84	0.90	0.42	0.55	0.71	0.86	/	0.40	0.52	0.64
		KW	1.66	1.68	1.69	1.69	1.69	1.71	1.73	1.74	1.73	1.76	1.78	1.81	/	2.41	2.44	2.44
	65	TC	37.40	37.80	38.70	39.10	38.70	39.10	39.50	39.90	41.70	41.70	42.10	42.50	/	49.60	50.00	50.90
		S/T	0.80	0.85	0.94	0.99	0.61	0.80	0.92	0.96	0.42	0.55	0.71	0.86	/	0.40	0.52	0.64
		KW	2.05	2.09	2.11	2.11	2.11	2.13	2.15	2.17	2.16	2.19	2.22	2.24	/	2.84	2.87	2.87
	75	TC	37.20	37.60	38.50	38.90	38.50	38.90	39.30	39.70	41.10	41.40	41.80	42.20	/	49.90	50.30	50.80
		S/T	0.80	0.85	0.94	0.99	0.61	0.80	0.93	0.97	0.42	0.55	0.72	0.86	/	0.40	0.52	0.64
		KW	2.21	2.23	2.25	2.25	2.25	2.28	2.30	2.32	2.32	2.34	2.37	2.40	/	2.68	2.71	2.73
	85	TC	36.80	37.20	38.10	38.50	38.10	38.50	38.90	39.30	40.70	41.10	41.40	41.80	/	49.10	49.50	49.90
		S/T	0.80	0.85	0.94	0.99	0.61	0.80	0.93	0.97	0.42	0.55	0.72	0.86	/	0.40	0.52	0.65
		KW	2.34	2.36	2.39	2.39	2.39	2.41	2.44	2.46	2.47	2.49	2.51	2.54	/	3.05	3.08	3.10
	95	TC	36.50	36.80	37.70	38.10	37.70	38.10	38.60	39.00	40.30	40.70	41.00	41.40	/	48.40	48.70	49.10
		S/T	0.81	0.86	0.94	0.99	0.61	0.80	0.93	0.97	0.41	0.55	0.72	0.88	/	0.40	0.52	0.65
		KW	2.83	2.86	2.89	2.89	2.89	2.92	2.95	2.98	2.98	3.01	3.04	3.06	/	3.66	3.69	3.72
	105	TC	33.46	33.86	34.65	34.95	34.65	34.95	35.34	35.74	37.03	37.32	37.62	37.92	/	44.25	44.65	44.85
		S/T	0.81	0.86	0.94	0.99	0.61	0.81	0.93	0.97	0.41	0.57	0.74	0.88	/	0.40	0.52	0.66
		KW	3.48	3.51	3.55	3.55	3.55	3.58	3.62	3.66	3.68	3.71	3.74	3.77	/	4.48	4.51	4.55
	115	TC	32.97	33.36	34.16	34.55	34.16	34.55	34.85	35.24	36.43	36.73	37.13	37.42	/	38.00	38.19	38.47
		S/T	0.81	0.86	0.94	0.99	0.61	0.81	0.96	0.99	0.41	0.57	0.73	0.89	/	0.41	0.53	0.69
		KW	4.14	4.18	4.22	4.22	4.22	4.27	4.31	4.36	4.37	4.41	4.45	4.48	/	4.54	4.55	4.55
	125	TC	25.94	26.14	26.83	27.13	26.83	27.13	27.42	27.72	29.11	29.21	29.21	29.30	/	30.99	30.99	31.09
		S/T	0.82	0.88	0.95	0.99	0.62	0.84	0.96	0.99	0.42	0.61	0.80	0.99	/	0.41	0.60	0.79
		KW	3.27	3.30	3.33	3.33	3.33	3.37	3.41	3.45	3.51	3.51	3.51	3.51	/	3.54	3.54	3.54
1350	15	TC	39.70	40.20	41.10	41.50	41.10	41.50	41.90	42.40	43.80	44.20	44.60	45.00	/	53.40	53.90	54.30
		S/T	0.72	0.76	0.85	0.99	0.61	0.82	0.84	0.90	0.41	0.57	0.74	0.89	/	0.40	0.52	0.66
		KW	1.77	1.79	1.80	1.80	1.80	1.82	1.85	1.87	1.86	1.88	1.91	1.94	/	2.45	2.48	2.49
	65	TC	39.90	40.40	41.30	41.70	41.30	41.70	42.20	42.70	44.00	44.40	44.80	45.20	/	53.60	54.10	54.50
		S/T	0.84	0.90	0.97	0.99	0.61	0.82	0.94	0.99	0.41	0.57	0.74	0.89	/	0.40	0.52	0.66
		KW	2.27	2.30	2.32	2.32	2.32	2.34	2.36	2.39	2.38	2.40	2.44	2.47	/	2.87	2.90	2.93
	75	TC	40.00	40.50	41.40	41.80	41.40	41.80	42.30	42.80	44.10	44.50	44.90	45.30	/	53.20	53.70	54.10
		S/T	0.83	0.89	0.96	0.99	0.61	0.82	0.94	0.99	0.41	0.57	0.74	0.89	/	0.40	0.52	0.66
		KW	2.41	2.43	2.47	2.47	2.47	2.49	2.52	2.54	2.54	2.56	2.59	2.62	/	3.06	3.09	3.12
	85	TC	39.50	40.00	40.90	41.40	40.90	41.40	41.80	42.20	43.70	44.00	44.40	44.70	/	52.50	52.90	53.20
		S/T	0.83	0.89	0.96	0.99	0.61	0.82	0.94	0.99	0.41	0.57	0.74	0.90	/	0.40	0.52	0.66
		KW	2.66	2.69	2.73	2.73	2.73	2.75	2.78	2.81	2.82	2.84	2.86	2.89	/	3.45	3.48	3.51
	95	TC	39.00	39.50	40.40	40.80	40.40	40.80	41.30	41.70	43.20	43.40	43.80	44.10	/	51.40	51.80	52.20
		S/T	0.83	0.89	0.96	0.99	0.61	0.82	0.94	0.99	0.41	0.57	0.74	0.90	/	0.40	0.53	0.68
		KW	3.20	3.23	3.27	3.27	3.27	3.30	3.33	3.37	3.37	3.41	3.44	3.47	/	4.11	4.15	4.18
	105	TC	35.74	36.23	36.93	37.32	36.93	37.32	37.82	38.12	39.60	39.90	40.10	40.39	/	46.93	47.12	47.42
		S/T	0.83	0.89	0.96	0.99	0.62	0.83	0.94	0.99	0.41	0.58	0.74	0.91	/	0.40	0.53	0.69
		KW	3.79	3.83	3.88	3.88	3.88	3.92	3.96	4.00	4.01	4.05	4.08	4.12	/	4.88	4.92	4.95
	115	TC	34.06	34.45	35.15	35.54	35.15	35.54	36.04	36.33	37.92	38.12	38.21	38.02	/	39.08	39.27	39.46
		S/T	0.84	0.90	0.97	0.99	0.62	0.83	0.94	0.99	0.41	0.58	0.74	0.94	/	0.41	0.55	0.73
		KW	4.24	4.28	4.34	4.34	4.34	4.38	4.43	4.47	4.55	4.57	4.57	4.55	/	4.61	4.61	4.61
	125	TC	26.14	26.53	27.13	27.52	27.13	27.52	27.72	27.92	29.40	29.40	29.50	29.50	/	31.19	31.28	31.28
		S/T	0.86	0.92	0.99	0.99	0.64	0.90	0.94	0.99	0.42	0.63	0.85	0.99	/	0.42	0.62	0.84
		KW	3.32	3.35	3.40	3.40	3.40	3.43	3.47	3.50	3.57	3.57	3.57	3.57	/	3.59	3.59	3.59
1550	15	TC	44.79	45.31	46.33	46.84	46.33	46.84	47.36	47.87	49.61	50.02	50.43	50.74	/	59.23	59.64	60.05
		S/T	0.74	0.80	0.89	0.99	0.62	0.84	0.90	0.94	0.41	0.57	0.74	0.91	/	0.40	0.53	0.68
		KW	2.05	2.07	2.10	2.10	2.10	2.12	2.14	2.16	2.13	2.17	2.22	2.26	/	2.68	2.71	2.73
	65	TC	46.95	47.36	48.48	49.00	48.48	49.00	49.61	50.02	51.97	52.28	52.69	52.99	/	61.48	61.89	62.20
		S/T	0.89	0.94	0.99	0.99	0.62	0.83	0.96	0.99	0.41	0.57	0.74	0.89	/	0.40	0.52	0.66
		KW	2.80	2.82	2.85	2.85	2.85	2.89	2.92	2.94	2.94	2.97	3.01	3.04	/	3.43	3.48	3.51
	75	TC	46.54	47.15	48.07	48.69	48.07	48.69	49.20	49.61	51.56	52.07	52.28	52.58	/	60.87	61.28	61.69
		S/T	0.89	0.94	0.99	0.99	0.62	0.83	0.96	0.99	0.41	0.57	0.74	0.90	/	0.40	0.53	0.68
		KW	2.93	2.96	2.99	2.99	2.99	3.02	3.06	3.09	3.10	3.12	3.15	3.17	/	3.65	3.68	3.73
	85	TC	45.72	46.23	47.25	47.77	47.25	47.77	48.28	48.79	50.64	51.05	51.46	51.76	/	59.33	59.85	60.25
		S/T	0.89	0.94	0.99	0.99	0.62	0.83	0.96	0.99	0.41	0.57	0.74	0.91	/	0.40	0.53	0.68
		KW	3.29	3.32	3.35	3.35	3.35	3.40	3.43	3.46	3.48	3.51	3.54	3.57	/	4.20	4.24	4.27
	95	TC	44.79	45.31	46.33	46.95	46.33	46.95	47.36	47.87	49.61	50.02	50.43	50.64	/	57.90	58.31	58.72
		S/T	0.89	0.94	0.99	0.99	0.62	0.84	0.96	0.99	0.41	0.57	0.75	0.91	/	0.40	0.53	0.69
		KW	3.90	3.94	3.98	3.98	3.98	4.03	4.07	4.11	4.12	4.15	4.19	4.22	/	4.96	4.99	5.03
	105	TC	41.21	41.62	42.64	43.05	42.64	43.05	43.56	44.08	45.72	46.02	46.33	46.55	/	51.94	52.56	53.20
		S/T	0.89	0.94	0.99	0.99	0.62	0.84	0.96	0.99	0.41	0.58	0.75	0.93	/	0.40	0.54	0.70
		KW	4.68	4.74	4.78	4.78	4.78	4.83	4.89	4.93	4.95	5.00	5.04	5.07	/	5.93	5.95	5.95
	115	TC	35.36	35.77	36.49	37.00	36.49	37.00										

BOVB19-60 + BIVB19-60 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	
1700	15	TC	47.56	48.18	49.30	49.71	49.30	49.71	50.33	50.84	52.69	53.10	53.61	53.91	/	62.61	63.02	63.43	
		S/T	0.76	0.82	1.00	1.00	0.64	0.87	0.93	0.97	0.41	0.59	0.77	0.95	/	0.40	0.55	0.71	
		KW	2.50	2.53	2.55	2.55	2.55	2.59	2.61	2.64	2.59	2.64	2.69	2.75	/	3.26	3.29	3.31	
	65	TC	49.82	50.43	51.56	52.07	51.56	52.07	52.69	53.20	55.25	55.66	56.07	56.37	/	64.86	65.27	65.68	
		S/T	0.91	0.95	1.00	1.00	0.63	0.86	0.98	1.00	0.41	0.58	0.76	0.93	/	0.40	0.54	0.70	
		KW	3.16	3.19	3.23	3.23	3.23	3.27	3.30	3.34	3.34	3.37	3.40	3.43	/	3.86	3.89	3.93	
	75	TC	49.76	50.17	51.40	51.92	51.40	51.92	52.43	53.05	55.01	55.42	55.83	56.14	/	64.36	64.77	65.59	
		S/T	0.90	0.95	1.00	1.00	0.63	0.86	0.98	1.00	0.41	0.59	0.76	0.94	/	0.40	0.54	0.70	
		KW	3.26	3.29	3.33	3.33	3.33	3.36	3.40	3.44	3.45	3.48	3.50	3.53	/	4.04	4.08	4.08	
	85	TC	48.72	49.34	50.37	50.89	50.37	50.89	51.51	52.12	53.98	54.39	54.80	55.00	/	62.82	63.23	63.54	
		S/T	0.91	0.95	1.00	1.00	0.64	0.86	0.98	1.00	0.41	0.59	0.77	0.95	/	0.40	0.55	0.71	
		KW	3.62	3.66	3.69	3.69	3.69	3.73	3.78	3.81	3.83	3.85	3.89	3.92	/	4.59	4.63	4.66	
	95	TC	47.59	48.11	49.24	49.86	49.24	49.86	50.27	50.79	52.74	53.05	53.57	53.67	/	61.07	61.48	61.79	
		S/T	0.91	0.95	1.00	1.00	0.64	0.87	0.98	1.00	0.41	0.59	0.77	0.95	/	0.40	0.55	0.72	
		KW	4.25	4.30	4.35	4.35	4.35	4.40	4.44	4.48	4.50	4.55	4.58	4.61	/	5.37	5.41	5.44	
	105	TC	43.36	43.87	44.90	45.31	44.90	45.31	45.82	46.33	48.07	48.48	48.79	48.90	/	53.71	54.01	55.00	
		S/T	0.90	0.95	1.00	1.00	0.64	0.87	0.98	1.00	0.41	0.60	0.80	0.96	/	0.40	0.56	0.74	
		KW	5.08	5.13	5.20	5.20	5.20	5.25	5.30	5.36	5.39	5.43	5.47	5.50	/	6.05	6.09	6.09	
	115	TC	36.39	36.80	37.62	37.93	37.62	37.93	38.44	38.85	40.59	40.80	41.00	40.92	/	41.94	42.05	42.25	
		S/T	0.91	0.95	1.00	1.00	0.65	0.90	0.98	1.00	0.41	0.63	0.84	1.00	/	0.41	0.63	0.84	
		KW	4.71	4.76	4.81	4.81	4.81	4.86	4.91	4.96	5.02	5.05	5.07	5.08	/	5.21	5.22	5.23	
	125	TC	27.47	27.78	28.50	28.70	28.50	28.70	29.01	29.32	30.75	30.75	30.85	30.89	/	32.74	32.84	32.84	
		S/T	0.92	0.96	1.00	1.00	0.72	1.00	1.00	1.00	0.42	0.72	0.99	1.00	/	0.42	0.71	1.00	
		KW	3.64	3.67	3.71	3.71	3.71	3.76	3.79	3.83	3.91	3.91	3.91	3.91	/	3.93	3.93	3.93	
1850	15	TC	50.54	51.17	52.42	52.83	52.42	52.83	53.46	54.08	56.16	56.58	56.99	57.51	/	66.04	66.46	66.87	
		S/T	0.79	0.84	1.00	1.00	0.64	0.89	0.95	1.00	0.41	0.60	0.80	0.96	/	0.40	0.55	0.73	
		KW	2.95	2.98	3.02	3.02	3.02	3.05	3.08	3.11	3.06	3.13	3.18	3.24	/	3.85	3.88	3.92	
	65	TC	52.83	53.35	54.60	55.12	54.60	55.12	55.64	56.26	58.55	58.86	59.28	59.70	/	68.54	68.95	69.37	
		S/T	0.92	0.96	1.00	1.00	0.64	0.87	1.00	1.00	0.41	0.59	0.77	0.95	/	0.40	0.55	0.72	
		KW	3.49	3.52	3.55	3.55	3.55	3.60	3.63	3.67	3.67	3.71	3.74	3.78	/	4.23	4.27	4.30	
	75	TC	53.15	53.57	54.83	55.46	54.83	55.46	55.99	56.62	58.82	59.24	59.66	60.08	/	68.70	69.12	69.54	
		S/T	0.92	0.96	1.00	1.00	0.64	0.87	1.00	1.00	0.41	0.59	0.77	0.95	/	0.40	0.55	0.72	
		KW	3.46	3.51	3.54	3.54	3.54	3.58	3.61	3.66	3.68	3.70	3.73	3.76	/	4.30	4.33	4.37	
	85	TC	51.68	52.31	53.47	54.10	53.47	54.10	54.62	55.25	57.46	57.77	58.19	58.51	/	66.49	66.91	67.23	
		S/T	0.92	0.96	1.00	1.00	0.64	0.89	1.00	1.00	0.41	0.60	0.78	0.96	/	0.40	0.56	0.73	
		KW	3.96	4.00	4.04	4.04	4.04	4.09	4.13	4.17	4.19	4.23	4.26	4.29	/	5.00	5.03	5.06	
	95	TC	50.42	50.84	52.10	52.63	52.10	52.63	53.26	53.78	55.88	56.30	56.62	56.93	/	64.28	64.70	65.02	
		S/T	0.92	0.96	1.00	1.00	0.65	0.89	1.00	1.00	0.41	0.60	0.80	0.97	/	0.40	0.56	0.74	
		KW	4.63	4.69	4.73	4.73	4.73	4.78	4.84	4.88	4.91	4.95	4.99	5.02	/	5.81	5.84	5.88	
	105	TC	45.55	46.07	47.11	47.63	47.11	47.63	48.15	48.67	50.54	50.86	51.17	51.48	/	54.53	56.36	56.68	
		S/T	0.92	0.96	1.00	1.00	0.65	0.90	1.00	1.00	0.41	0.61	0.81	1.00	/	0.40	0.59	0.76	
		KW	5.45	5.51	5.57	5.57	5.57	5.63	5.69	5.74	5.79	5.82	5.86	5.90	/	6.17	6.18	6.21	
	115	TC	37.86	38.17	39.00	39.52	39.00	39.52	39.83	40.25	42.02	42.22	42.43	42.64	/	43.37	43.47	43.58	
		S/T	0.92	0.96	1.00	1.00	0.66	0.93	1.00	1.00	0.41	0.65	0.88	1.00	/	0.41	0.64	0.89	
		KW	4.98	5.03	5.09	5.09	5.09	5.14	5.20	5.25	5.33	5.34	5.36	5.37	/	5.48	5.49	5.49	
	125	TC	27.98	28.29	29.02	29.22	29.02	29.22	29.54	29.85	31.30	31.30	31.41	31.41	/	33.38	33.49	33.59	
		S/T	0.93	0.97	1.00	1.00	0.74	1.00	1.00	1.00	0.42	0.74	0.99	1.00	/	0.43	0.74	1.00	
		KW	3.78	3.83	3.86	3.86	3.86	3.90	3.95	3.99	4.07	4.07	4.07	4.07	/	4.09	4.09	4.09	

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

4.4 3 Ton IDS Ultra Series – Heating Mode

BOVB19-36 + BIVB19-36 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	-10
800	60	TC	31.6	31.3	33.5	35.4	35.0	36.7	35.6	36.4	37.5	37.4	38.5	36.4	34.9	34.7	34.5	34.1	29.2	27.9
		KW	1.5	1.8	2.0	2.2	2.5	3.0	3.0	3.0	3.0	3.3	3.5	4.3	4.2	4.3	4.6	4.9	4.8	4.4
	70	TC	24.6	21.1	24.3	21.4	19.5	25.0	31.6	33.3	22.0	28.3	33.1	31.2	29.9	29.6	29.3	29.2	23.6	24.4
		KW	1.4	1.4	1.6	1.5	1.5	1.9	3.0	3.1	2.1	2.7	4.4	4.3	4.4	4.7	5.1	4.9	4.5	4.2
	75	TC	24.3	21.0	20.1	19.9	18.3	22.7	22.4	30.9	21.0	26.5	31.8	29.2	27.9	27.8	27.6	25.7	22.2	21.9
		KW	1.4	1.4	1.4	1.4	1.5	1.8	1.9	3.1	2.0	2.6	4.5	4.4	4.5	4.8	5.2	5.0	4.6	4.3
	80	TC	24.2	20.8	20.0	19.1	17.7	19.9	19.7	22.4	19.6	25.7	27.9	27.3	24.8	25.6	26.4	24.6	19.0	20.0
		KW	1.5	1.5	1.4	1.4	1.4	1.6	1.7	2.0	1.9	2.8	4.3	4.5	4.6	4.9	5.3	5.1	4.6	4.3
1000	60	TC	40.4	44.1	47.5	46.4	41.4	39.0	37.0	37.8	41.0	38.1	42.5	39.8	37.8	38.0	38.2	37.4	31.7	29.2
		KW	2.0	2.5	3.0	3.1	3.0	3.0	2.9	3.0	3.5	3.4	4.3	4.1	4.3	4.6	4.9	4.7	4.3	4.1
	70	TC	26.8	27.2	28.7	30.3	31.8	36.3	34.8	36.2	35.1	36.2	37.7	35.4	33.8	33.2	32.5	31.9	27.0	26.7
		KW	1.4	1.7	1.8	2.0	2.3	3.0	3.0	3.1	3.1	3.5	4.4	4.3	4.4	4.7	5.0	4.9	4.5	4.2
	75	TC	24.5	21.0	23.1	20.7	20.7	27.5	32.8	34.6	32.1	30.5	34.5	32.3	30.7	30.5	30.2	29.4	23.4	24.6
		KW	1.4	1.4	1.6	1.5	1.7	2.2	3.0	3.1	2.9	3.0	4.5	4.3	4.5	4.8	5.1	5.0	4.5	4.3
	80	TC	24.3	20.9	20.0	20.4	18.4	22.7	22.1	32.1	25.2	27.4	32.0	30.0	28.4	28.2	27.9	25.7	21.7	21.4
		KW	1.5	1.5	1.5	1.5	1.5	1.9	1.9	3.2	2.4	2.7	4.6	4.4	4.6	4.9	5.2	5.0	4.6	4.3
1100	60	TC	45.6	50.9	49.9	47.5	41.8	39.3	37.3	37.9	41.1	38.1	43.7	40.8	38.6	39.0	39.5	38.6	32.5	29.3
		KW	2.2	3.0	3.1	3.1	2.9	2.9	2.9	2.9	3.4	3.3	4.2	4.1	4.2	4.5	4.8	4.7	4.3	4.0
	70	TC	31.2	31.5	33.7	38.5	39.6	37.6	35.9	36.6	38.8	37.4	39.4	36.8	35.0	34.7	34.4	33.6	28.6	27.4
		KW	1.6	1.9	2.1	2.5	3.0	3.0	3.0	3.1	3.5	3.5	4.4	4.2	4.4	4.7	5.0	4.8	4.4	4.1
	75	TC	24.5	23.8	24.0	24.6	28.6	32.7	34.2	35.6	31.6	34.7	36.5	34.1	32.5	31.5	30.5	29.6	25.0	25.5
		KW	1.4	1.5	1.6	1.7	2.1	2.6	3.0	3.1	2.9	3.4	4.4	4.3	4.4	4.7	5.0	4.9	4.5	4.2
	80	TC	24.2	20.8	19.9	22.5	23.1	23.6	31.8	33.9	29.1	30.5	32.8	30.5	29.0	28.6	28.3	27.1	22.9	22.8
		KW	1.4	1.4	1.4	1.6	1.8	1.9	3.1	3.1	2.7	3.0	4.5	4.3	4.5	4.8	5.1	5.0	4.6	4.3
1200	60	TC	50.1	52.1	50.9	48.1	42.4	39.8	37.7	38.4	41.3	38.5	44.6	41.6	39.3	40.0	40.7	39.6	33.2	29.7
		KW	2.5	3.1	3.1	3.1	3.0	2.9	2.9	2.9	3.4	3.3	4.3	4.1	4.3	4.6	4.9	4.7	4.3	4.1
	70	TC	35.3	35.9	40.1	45.8	40.4	38.4	36.4	37.1	39.9	37.8	41.0	38.2	36.2	36.1	36.0	35.2	29.7	28.1
		KW	1.8	2.2	2.5	3.2	3.1	3.1	3.0	3.1	3.6	3.6	4.4	4.3	4.4	4.7	5.0	4.9	4.5	4.2
	75	TC	26.7	26.6	26.9	32.7	33.4	37.0	35.3	36.3	36.3	36.3	38.2	35.7	33.9	33.1	32.3	31.3	26.3	26.4
		KW	1.5	1.7	1.8	2.2	2.5	3.1	3.1	3.2	3.3	3.5	4.5	4.3	4.5	4.8	5.1	5.0	4.6	4.3
	80	TC	24.5	21.4	20.1	20.3	23.6	25.6	33.5	34.7	31.5	30.7	34.7	32.2	30.6	30.1	29.5	28.6	24.0	23.8
		KW	1.5	1.5	1.5	1.6	1.9	2.1	3.1	3.2	2.9	3.1	4.6	4.4	4.6	4.9	5.2	5.1	4.7	4.3
1350	60	TC	56.9	52.8	51.5	48.7	42.9	40.2	38.0	38.7	41.6	38.6	45.5	42.3	39.9	40.8	41.8	40.5	33.9	30.1
		KW	2.9	3.1	3.1	3.1	3.0	2.9	2.9	2.9	3.4	3.3	4.3	4.1	4.3	4.6	4.9	4.8	4.4	4.1
	70	TC	40.1	49.4	49.4	47.0	41.5	39.0	36.9	37.6	40.9	38.0	42.7	39.8	37.8	37.9	38.0	37.0	30.9	28.9
		KW	2.1	3.1	3.2	3.2	3.1	3.1	3.1	3.1	3.7	3.5	4.4	4.3	4.4	4.7	5.0	4.9	4.5	4.2
	75	TC	31.8	31.5	33.7	43.7	40.1	38.2	36.2	36.9	39.3	37.6	40.2	37.6	35.5	35.1	34.7	33.7	28.2	27.3
		KW	1.8	2.0	2.2	3.1	3.1	3.1	3.1	3.2	3.6	3.7	4.5	4.4	4.5	4.8	5.1	5.0	4.6	4.3
	80	TC	24.6	21.4	22.9	23.8	28.1	36.6	35.0	35.9	32.1	35.7	37.2	34.5	32.6	32.2	31.8	28.8	24.0	25.2
		KW	1.5	1.6	1.7	1.8	2.2	3.2	3.2	3.3	3.0	3.6	4.6	4.4	4.6	4.9	5.2	5.1	4.7	4.4

Table 8

TC refers to total capacity in KBTU/hr kW: refer to total input power

4.5 4 Ton IDS Ultra Series – Heating Mode

BOVB19-60 + BIVB19-48 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	-10
1200	60	TC	42.4	43.2	44.2	42.9	42.2	41.2	44.4	44.9	44.8	44.7	45.9	44.8	43.5	41.6	39.9	36.8	33.3	30.6
		KW	2.1	2.5	2.7	2.9	3.2	3.4	3.7	4.2	4.5	4.3	4.5	5.2	5.0	5.2	5.0	4.9	4.4	4.4
	70	TC	33.9	34.6	35.4	34.4	35.1	35.9	35.0	35.3	36.4	36.2	37.2	37.2	36.6	35.3	34.1	33.1	30.3	27.8
		KW	1.8	1.9	2.0	2.1	2.3	2.5	2.7	3.0	3.3	3.5	3.6	3.8	3.8	4.2	4.1	4.1	3.5	3.5
	75	TC	28.0	28.6	29.3	28.4	29.1	29.7	29.0	29.3	30.2	30.2	32.5	34.5	32.7	34.3	32.4	30.3	28.3	26.0
		KW	1.5	1.6	1.7	1.8	2.0	2.1	2.2	2.5	2.7	2.9	3.2	3.4	3.7	4.2	3.9	3.9	3.3	3.3
	80	TC	22.5	23.0	23.6	22.9	23.4	23.9	23.3	23.6	24.2	24.2	26.6	27.9	26.4	29.0	28.6	28.3	27.3	25.1
		KW	1.3	1.4	1.5	1.5	1.6	1.7	1.9	2.0	2.2	2.3	2.5	2.8	3.0	3.5	3.8	4.2	4.0	4.0
1350	60	TC	45.9	46.9	48.1	47.1	46.3	45.8	48.3	49.9	47.9	46.6	47.8	45.6	45.6	45.9	44.1	41.0	37.7	31.4
		KW	2.2	2.8	3.1	3.3	3.6	3.9	4.2	4.6	4.4	4.3	4.6	4.9	4.6	5.0	5.0	5.1	4.5	4.5
	70	TC	36.7	37.5	38.5	37.7	38.6	39.8	38.8	38.8	39.8	39.8	41.4	40.2	41.8	40.5	40.4	38.1	35.3	29.4
		KW	1.7	2.1	2.2	2.4	2.6	2.9	3.1	3.4	3.6	3.9	4.3	4.7	4.7	5.2	5.5	5.5	4.8	4.8
	75	TC	30.4	31.1	31.8	31.2	31.9	32.9	32.1	32.3	33.3	33.3	35.8	36.1	36.3	38.4	38.7	36.6	33.6	28.8
		KW	1.5	1.8	1.9	2.0	2.2	2.4	2.5	2.8	3.0	3.2	3.5	3.8	4.7	5.2	5.4	5.4	4.8	4.8
	80	TC	24.4	24.9	25.6	25.1	25.7	26.4	25.9	26.0	26.7	26.7	28.8	31.1	29.2	33.2	33.9	32.5	32.0	26.7
		KW	1.5	1.7	1.8	1.9	2.1	2.2	2.4	2.6	2.9	3.1	3.3	3.5	4.0	4.7	4.8	4.6	4.5	4.5
1550	60	TC	54.1	54.7	54.8	54.7	54.5	53.1	53.9	53.7	51.7	50.9	50.8	49.0	47.2	47.6	47.5	44.9	41.2	34.7
		KW	2.4	3.2	3.4	3.8	3.7	3.7	4.0	4.3	4.2	4.1	4.3	4.7	5.1	4.8	4.9	4.9	4.3	4.3
	70	TC	43.3	43.7	43.8	43.7	45.4	46.1	46.9	46.1	45.5	45.0	45.1	43.3	44.2	45.2	44.3	41.3	36.2	32.3
		KW	1.5	2.1	2.3	2.6	2.8	3.1	3.4	3.7	4.0	4.2	4.3	4.5	5.1	6.1	6.0	5.7	5.1	5.1
	75	TC	34.7	35.1	35.1	34.9	36.6	37.4	37.8	36.9	39.4	41.3	39.1	39.1	38.9	39.9	41.1	39.2	35.3	31.5
		KW	1.2	1.6	1.8	2.0	2.2	2.4	2.7	2.9	3.5	4.2	4.6	5.1	5.5	6.2	6.0	5.8	5.1	5.1
	80	TC	26.4	26.7	26.7	26.7	27.9	28.4	30.1	28.8	30.8	31.9	32.7	33.5	33.9	38.0	39.4	37.5	34.0	30.5
		KW	1.1	1.5	1.7	1.9	2.1	2.3	2.5	2.7	3.3	3.9	4.4	4.8	5.6	6.0	5.9	5.7	5.0	5.0
1700	60	TC	58.6	59.2	59.3	60.3	57.4	55.8	55.8	55.1	52.9	52.1	52.1	50.1	52.0	52.7	51.3	47.9	42.8	35.7
		KW	2.6	3.4	3.7	4.1	4.1	3.9	3.9	3.8	3.8	4.4	4.5	4.7	5.1	5.9	5.8	5.6	5.2	5.2
	70	TC	46.9	47.3	47.4	48.3	47.8	48.5	49.1	48.1	48.7	49.1	48.7	48.6	48.8	49.4	50.2	46.5	41.4	34.8
		KW	1.8	2.4	2.6	2.8	3.1	3.3	3.6	4.0	4.2	4.8	4.8	4.9	5.6	6.6	6.8	6.7	6.1	6.0
	75	TC	38.4	38.8	38.8	39.3	39.3	40.1	40.4	41.2	42.7	45.3	47.1	47.2	46.0	47.6	46.9	44.3	39.4	33.1
		KW	1.5	1.9	2.1	2.3	2.5	2.7	3.0	3.2	3.7	4.9	4.9	5.0	5.7	6.7	6.8	6.6	6.0	5.9
	80	TC	30.2	30.5	30.5	31.1	31.0	31.5	31.8	32.9	34.2	36.0	36.8	40.4	41.6	43.9	44.9	43.6	37.9	31.9
		KW	1.3	1.6	1.7	1.8	2.0	2.7	2.9	3.2	3.6	5.0	5.0	5.1	5.8	6.8	6.7	6.5	6.0	6.0
1850	60	TC	64.2	64.9	65.0	64.9	61.7	58.9	57.7	55.7	54.7	53.5	54.7	56.6	55.5	55.4	52.8	49.9	44.5	38.7
		KW	3.0	3.8	4.0	4.3	4.3	4.2	4.1	4.1	4.1	4.2	4.6	4.8	5.2	5.8	5.9	5.6	5.3	5.3
	70	TC	51.4	51.9	52.0	51.9	51.4	51.2	51.3	51.7	52.8	52.1	50.9	51.5	51.3	52.2	52.0	49.1	42.9	36.1
		KW	2.1	2.7	2.9	3.1	3.3	3.6	3.9	4.4	4.4	4.5	4.9	5.0	5.7	6.4	6.6	6.5	5.9	5.9
	75	TC	42.8	43.2	43.2	43.1	43.1	43.1	43.0	44.0	46.8	48.4	49.6	50.5	49.2	50.4	47.9	45.1	42.0	35.3
		KW	1.8	2.2	2.4	2.5	2.8	3.0	3.2	3.5	4.0	4.6	4.9	5.1	5.9	6.6	6.7	6.3	6.0	6.0
	80	TC	34.5	34.9	34.9	34.9	34.8	34.7	34.7	35.9	38.3	39.3	40.2	43.5	43.2	47.0	46.3	44.4	40.5	34.1
		KW	1.6	1.9	2.0	2.1	2.2	2.9	3.1	3.5	3.9	4.7	5.0	5.2	6.0	6.7	6.6	6.5	6.1	6.1

Table 9

TC refers to total capacity in kBTU/hr kW: refer to total input power

4.6 5 Ton IDS Ultra Series – Heating Mode

BOVB19-60 + BIVB19-60 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	-10
1200	60	TC	44.1	45.0	46.1	45.2	44.4	43.4	46.7	47.2	47.2	47.0	48.4	47.1	45.8	43.8	42.5	39.6	35.8	33.2
		kW	2.2	2.6	2.9	3.1	3.4	3.6	3.9	4.4	4.8	4.5	4.8	5.6	5.4	5.6	5.5	5.4	4.8	4.7
	70	TC	35.3	36.0	36.9	36.2	37.0	37.8	36.8	37.2	38.3	38.1	39.2	39.2	38.5	37.1	36.3	35.6	32.6	30.2
		kW	1.8	2.0	2.1	2.3	2.5	2.7	2.9	3.2	3.5	3.8	3.8	4.1	4.1	4.6	4.5	4.4	3.8	3.8
	75	TC	29.2	29.8	30.5	29.9	30.6	31.2	30.5	30.8	31.7	31.7	34.2	36.3	34.4	36.1	34.5	32.5	30.4	28.2
		kW	1.6	1.7	1.8	1.9	2.1	2.2	2.4	2.6	2.9	3.1	3.4	3.7	3.9	4.5	4.3	4.2	3.6	3.6
	80	TC	23.4	23.9	24.5	24.1	24.7	25.1	24.6	24.8	25.5	25.5	28.0	29.4	27.8	30.5	30.4	30.4	29.3	27.2
		kW	1.4	1.4	1.5	1.6	1.7	1.8	2.0	2.2	2.3	2.5	2.7	2.9	3.1	3.8	4.2	4.5	4.3	4.3
1350	60	TC	48.3	49.3	50.6	49.6	48.7	48.2	50.8	52.5	50.4	49.0	50.3	48.0	48.0	48.3	46.9	44.0	40.5	34.1
		kW	2.4	3.0	3.2	3.5	3.8	4.2	4.4	4.9	4.7	4.5	4.9	5.2	4.9	5.4	5.5	5.5	4.8	4.8
	70	TC	38.7	39.5	40.5	39.7	40.6	41.9	40.9	40.8	41.8	41.8	43.6	42.3	44.0	42.6	43.0	41.0	37.9	31.9
		kW	1.8	2.2	2.3	2.5	2.8	3.1	3.3	3.6	3.9	4.2	4.6	5.0	5.0	5.7	6.0	5.9	5.2	5.2
	75	TC	32.0	32.7	33.5	32.9	33.6	34.7	33.8	34.0	35.0	35.0	37.7	38.0	38.2	40.4	41.2	39.3	36.1	31.2
		kW	1.6	1.9	2.0	2.1	2.3	2.5	2.6	3.0	3.2	3.4	3.7	4.0	5.0	5.6	5.9	5.9	5.2	5.2
	80	TC	25.7	26.3	26.9	26.4	27.1	27.8	27.3	27.4	28.1	28.1	30.4	32.8	30.8	34.9	36.1	34.9	34.4	28.9
		kW	1.5	1.8	1.9	2.0	2.2	2.4	2.5	2.8	3.0	3.3	3.5	3.8	4.2	5.1	5.3	5.0	4.9	4.9
1550	60	TC	57.6	58.2	58.3	58.2	58.0	56.4	57.4	57.6	55.1	54.4	54.6	51.6	49.7	50.1	50.5	47.7	44.3	37.6
		kW	2.5	3.4	3.6	4.0	4.0	3.9	4.2	4.6	4.4	4.3	4.6	5.0	5.5	5.2	5.4	5.3	4.7	4.7
	70	TC	46.1	46.5	46.6	46.5	48.3	49.1	49.9	48.6	47.9	47.3	47.5	45.6	46.6	47.6	47.1	43.9	38.9	35.1
		kW	1.6	2.3	2.4	2.7	2.9	3.2	3.6	3.9	4.3	4.5	4.6	4.8	5.5	6.7	6.6	6.2	5.5	5.5
	75	TC	36.9	37.3	37.3	37.1	39.0	39.8	40.2	38.9	41.5	43.5	41.1	41.1	40.9	42.0	43.7	41.7	37.9	34.2
		kW	1.3	1.7	1.9	2.1	2.3	2.6	2.8	3.0	3.7	4.4	4.9	5.4	5.9	6.7	6.6	6.3	5.6	5.6
	80	TC	28.1	28.4	28.4	28.4	29.7	30.2	31.9	30.3	32.4	33.6	34.4	35.3	35.7	40.0	41.9	39.9	36.5	33.1
		kW	1.2	1.6	1.8	2.0	2.2	2.5	2.7	2.9	3.5	4.2	4.6	5.1	6.0	6.6	6.5	6.2	5.5	5.5
1700	60	TC	63.0	63.6	63.7	64.9	61.7	60.0	60.0	58.6	56.3	55.4	55.4	53.3	55.3	56.1	53.4	49.9	46.5	38.8
		kW	2.8	3.7	3.9	4.4	4.4	4.2	4.2	4.0	4.1	4.6	4.8	5.0	5.4	6.4	6.3	6.0	5.6	5.6
	70	TC	50.4	50.9	51.0	51.9	51.4	52.2	52.8	51.2	51.8	52.2	51.8	51.6	51.9	52.5	52.2	48.4	44.9	37.8
		kW	2.0	2.6	2.8	3.1	3.3	3.6	3.9	4.3	4.5	5.1	5.1	5.2	6.0	7.1	7.4	7.2	6.7	6.5
	75	TC	41.3	41.7	41.7	42.3	42.3	43.1	43.5	43.8	45.5	48.2	50.1	50.2	48.9	50.6	48.9	46.2	42.7	36.0
		kW	1.6	2.1	2.2	2.4	2.7	2.9	3.2	3.4	3.9	5.2	5.2	5.3	6.1	7.3	7.4	7.1	6.5	6.4
	80	TC	32.4	32.8	32.8	33.4	33.3	33.9	34.2	35.0	36.4	38.3	39.1	42.9	44.2	46.7	46.8	45.4	41.1	34.6
		kW	1.3	1.7	1.8	2.0	2.1	2.9	3.1	3.4	3.9	5.3	5.3	5.4	6.2	7.4	7.3	7.0	6.5	6.5
1850	60	TC	69.1	69.8	69.9	69.8	66.4	63.4	62.1	59.9	58.8	57.5	58.8	60.9	59.7	59.6	57.4	54.8	48.8	42.5
		kW	3.2	4.0	4.3	4.7	4.6	4.5	4.4	4.4	4.4	4.5	5.0	5.1	5.6	6.3	6.5	6.1	5.8	5.8
	70	TC	55.2	55.8	55.9	55.8	55.3	55.1	55.2	55.6	56.8	56.0	54.7	55.4	55.1	56.1	56.5	53.9	47.1	39.6
		kW	2.3	2.9	3.1	3.4	3.6	3.8	4.2	4.7	4.8	4.8	5.2	5.4	6.2	7.0	7.3	7.1	6.4	6.4
	75	TC	46.0	46.5	46.5	46.3	46.3	46.3	46.2	47.3	50.3	52.1	53.3	54.3	50.9	54.2	52.0	49.5	46.1	38.8
		kW	2.0	2.4	2.6	2.7	3.0	3.2	3.4	3.8	4.3	4.9	5.3	5.5	6.3	7.2	7.4	6.9	6.6	6.6
	80	TC	37.1	37.5	37.5	37.5	37.4	37.3	37.3	38.6	41.2	42.3	43.3	46.8	46.4	50.5	50.3	48.7	44.5	37.4
		kW	1.7	2.0	2.1	2.3	2.4	3.1	3.4	3.7	4.2	5.0	5.4	5.6	6.4	7.3	7.3	7.1	6.7	6.7

Table 10

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		
IDS Ultra Condenser and Air Handler	BOVB-36MTB-M19E	BIVB-36MCB-M19X	/	36400	12.00	19.00	1200/820	36600	10.00	36600	1270/970	*
	BOVB-60MTB-M19E	BIVB-48MCB-M19X	/	48500	12.00	19.00	1560/1240	48500	10.00	48500	1600/1240	*
	BOVB-60MTB-M19E	BIVB-60MCB-M19X	/	53500	11.70	19.00	1760/1270	55000	10.00	55000	1820/1270	*
IDS Ultra with BMAC Cased Coil	BOVB-36MTB-M19E	BMAC3036ABTA	/	32200	10.60	15.20	900/675	34800	9.00	34600	900/675	*
	BOVB-36MTB-M19E	BMAC3036BBTA	/	32200	11.00	15.20	1000/750	35000	9.00	34600	1000/750	*
	BOVB-36MTB-M19E	BMAC3036CBTA	/	32200	11.00	15.20	1050/787	35000	9.00	34600	1050/787	*
	BOVB-36MTB-M19E	BMAC4248BBTA	/	34000	11.20	16.00	1000/750	35200	9.00	34600	1000/750	*
	BOVB-36MTB-M19E	BMAC4248CBTA	/	34000	11.20	16.00	1000/750	35200	9.00	34800	1000/750	*
	BOVB-36MTB-M19E	BMAC4248DBTA	/	34000	11.20	16.00	1000/750	35200	9.00	34800	1000/750	*
	BOVB-60MTB-M19E	BMAC4248BBTA	/	42500	11.20	15.20	1150/1150	45500	8.50	45500	1150/1150	*
	BOVB-60MTB-M19E	BMAC4248CBTA	/	43500	11.70	15.20	1300/1300	46000	8.50	46000	1300/1300	*
	BOVB-60MTB-M19E	BMAC4248DBTA	/	43500	11.70	15.20	1300/1300	46000	8.50	46000	1300/1300	*
	BOVB-60MTB-M19E	BMAC4860CBTA	/	52000	11.20	15.20	1350/1350	55000	8.50	52000	1350/1350	*
BOVB-60MTB-M19E	BMAC4860DBTA	/	52000	11.20	15.20	1350/1350	55000	8.50	52000	1350/1350	*	
IDS Ultra with 96% Gas Furnace	BOVB-36MTB-M19E	BMAC3036ABTA	BGH96M060B3C	33400	11.00	17.00	1080/800	35000	9.00	34600	1080/800	*
	BOVB-36MTB-M19E	BMAC3036ABTA	BGH96M080B3C	33400	11.00	17.00	1080/800	35000	9.00	34600	1080/800	*
	BOVB-36MTB-M19E	BMAC3036BBTA	BGH96M060B3C	33800	11.20	17.50	1100/800	35200	9.00	34800	1100/800	*
	BOVB-36MTB-M19E	BMAC3036BBTA	BGH96M080B3C	34200	11.20	17.50	1100/800	35200	9.00	34800	1100/800	*
	BOVB-36MTB-M19E	BMAC3036CBTA	BGH96M080C4C	34200	11.20	17.50	1100/800	35200	9.00	34800	1100/800	*
	BOVB-36MTB-M19E	BMAC3036CBTA	BGH96M100C5C	34200	11.00	16.00	1150/1000	35600	9.50	35000	1150/1000	*
	BOVB-36MTB-M19E	BMAC4248BBTA	BGH96M080B3C	34200	11.70	18.00	1080/790	35400	9.00	34600	1080/790	*
	BOVB-36MTB-M19E	BMAC4248CBTA	BGH96M100C5C	34400	11.70	17.50	1180/1030	35600	9.00	35000	1180/1030	*
	BOVB-60MTB-M19E	BMAC4248BBTA	BGH96M080B3C	43000	11.70	16.00	1300/900	46000	9.50	46000	1300/900	*
	BOVB-60MTB-M19E	BMAC4248CBTA	BGH96M080C4C	43500	11.70	16.00	1300/900	46000	9.50	46000	1300/900	*
	BOVB-60MTB-M19E	BMAC4248CBTA	BGH96M100C5C	44000	11.70	16.50	1350/1150	47000	9.50	47000	1350/1150	*
	BOVB-60MTB-M19E	BMAC4248DBTA	BGH96M100D5C	44500	11.70	16.50	1500/1150	47000	9.50	47000	1500/1150	*
	BOVB-60MTB-M19E	BMAC4248DBTA	BGH96M120D5C	44500	11.70	17.00	1500/1150	47500	9.50	47500	1500/1150	*
	BOVB-60MTB-M19E	BMAC4860CBTA	BGH96M100C5C	52000	11.70	18.00	1350/1150	55000	9.50	52000	1350/1150	*
	BOVB-60MTB-M19E	BMAC4860DBTA	BGH96M100D5C	52000	11.70	18.00	1500/1150	55000	9.50	53000	1500/1150	*
BOVB-60MTB-M19E	BMAC4860DBTA	BGH96M120D5C	52500	11.70	18.00	1500/1150	55000	9.50	53000	1500/1150	*	
IDS Ultra with 97% Gas Furnace	BOVB-36MTB-M19E	BMAC3036ABTA	BGH97M060B3A	33400	11.00	17.00	1080/800	35000	9.00	34600	1080/800	*
	BOVB-36MTB-M19E	BMAC3036ABTA	BGH97M080B3A	33400	11.00	17.00	1080/800	35000	9.00	34600	1080/800	*
	BOVB-36MTB-M19E	BMAC3036BBTA	BGH97M060B3A	33800	11.20	17.50	1100/800	35200	9.00	34800	1100/800	*
	BOVB-36MTB-M19E	BMAC3036BBTA	BGH97M080B3A	34200	11.20	17.50	1100/800	35200	9.00	34800	1100/800	*
	BOVB-36MTB-M19E	BMAC3036CBTA	BGH97M080C4A	34200	11.20	17.50	1100/800	35200	9.00	34800	1100/800	*
	BOVB-36MTB-M19E	BMAC3036CBTA	BGH97M100C5A	34200	11.00	16.00	1150/1000	35600	9.50	35000	1150/1000	*
	BOVB-36MTB-M19E	BMAC4248BBTA	BGH97M080B3A	34200	11.70	18.00	1080/790	35400	9.00	34600	1080/790	*
	BOVB-36MTB-M19E	BMAC4248CBTA	BGH97M100C5A	34400	11.70	17.50	1180/1030	35600	9.00	35000	1180/1030	*
	BOVB-60MTB-M19E	BMAC4248BBTA	BGH97M080B3A	43000	11.70	16.00	1300/900	46000	9.50	46000	1300/900	*
	BOVB-60MTB-M19E	BMAC4248CBTA	BGH97M080C4A	43500	11.70	16.00	1300/900	46000	9.50	46000	1300/900	*
	BOVB-60MTB-M19E	BMAC4248CBTA	BGH97M100C5A	44000	11.70	16.50	1350/1150	47000	9.50	47000	1350/1150	*
	BOVB-60MTB-M19E	BMAC4248DBTA	BGH97M100D5A	44500	11.70	16.50	1500/1150	47000	9.50	47000	1500/1150	*
	BOVB-60MTB-M19E	BMAC4248DBTA	BGH97M120D5A	44500	11.70	17.00	1500/1150	47500	9.50	47500	1500/1150	*
	BOVB-60MTB-M19E	BMAC4860CBTA	BGH97M100C5A	52000	11.70	18.00	1350/1150	55000	9.50	52000	1350/1150	*
	BOVB-60MTB-M19E	BMAC4860DBTA	BGH97M100D5A	52000	11.70	18.00	1500/1150	55000	9.50	53000	1500/1150	*
BOVB-60MTB-M19E	BMAC4860DBTA	BGH97M120D5A	52500	11.70	18.00	1500/1150	55000	9.50	53000	1500/1150	*	

Table 11

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 (Region IV); 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	Unit Frequency	SoundPower Level[dB(A)]	Full Octave Linear Sound Power Level Db-Center Frequency-Hz							
			125	250	500	1000	2000	4000	8000	
3 Ton	Cooling	MAX	57.2	56.5	56.3	56.4	52.9	46.2	42.5	37.2
		RATED	54.7	55.1	55.1	53.6	49.6	44.0	39.6	34.9
		MIN	40.5	37.1	37.5	40.4	31.4	30.0	32.6	30.1
	Heating	MAX	60.1	61.1	59.6	57.8	55.1	50.8	48.8	41.7
		RATED	56.0	59.5	55.9	55.2	51.0	45.8	40.8	36.6
		MIN	39.9	34.3	36.7	37.7	32.9	31.3	32.5	30.7
5 Ton	Cooling	MAX	73.3	56.8	62.1	67.8	69.3	64.6	61.6	57.3
		RATED	73.0	56.7	62.8	68.9	68.2	63.7	59.4	55.1
		MIN	59.9	43.4	48.3	54.6	53.4	50.0	52.0	50.8
	Heating	MAX	76.6	56.7	64.8	69.7	71.0	67.0	69.0	68.9
		RATED	69.0	53.1	58.7	65.2	63.1	59.5	57.5	53.7
		MIN	64.8	48.8	56.1	60.4	59.4	55.7	52.3	47.1

Table 12 IDS Ultra Sound power level

7 Dimensions

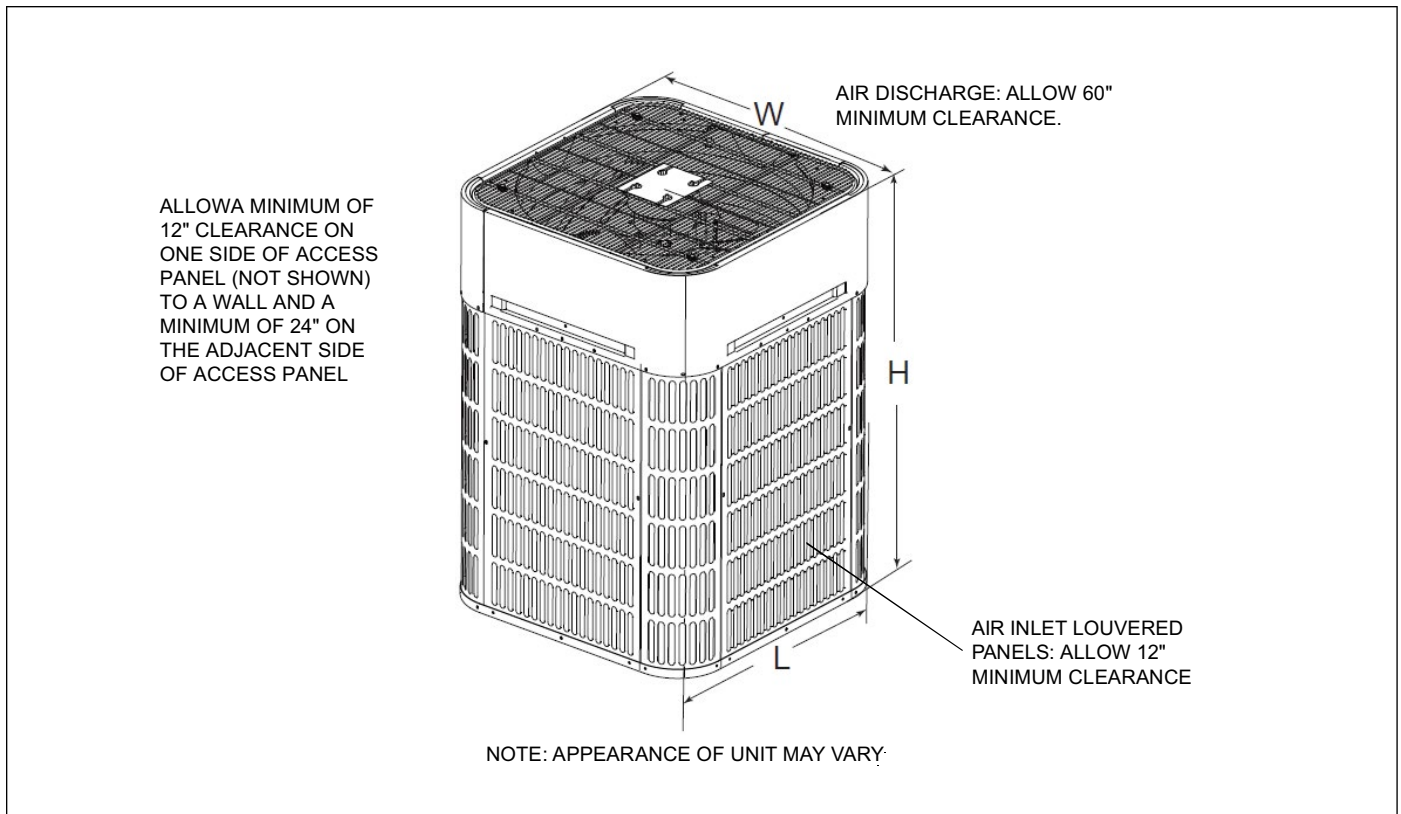


Figure 2

Model Size	Dimensions (Inches)		
	"H" in. [mm]	"W" in. [mm]	"L" in. [mm]
BOVB19-36	43-5/16 [1100]	29-1/8 [740]	29-1/8 [740]
BOVB19-60			

Table 13

Online Help Resources

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

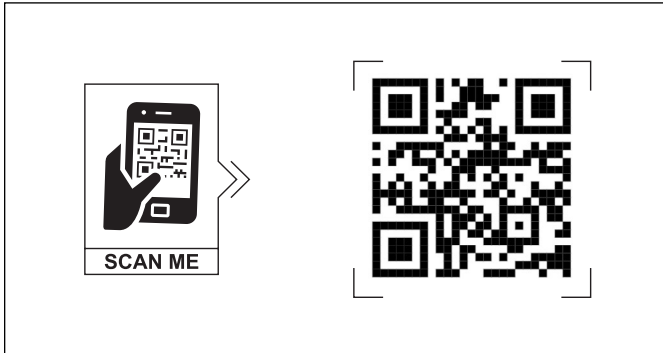


Figure 3

NOTES:

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

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

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engineering and technological advances.**