

# Bosch BOVA Split System Heat Pump

Condensing Units Up to 18 SEER

2-3-4-5 Ton Capacity

R410A



**BOSCH**

## Product Specifications





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## 1 Product features

### 1.1 Standard features

- ▶ R-410A Chlorine-Free Refrigerant
- ▶ Load 25%-110%
- ▶ 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
- ▶ AHRI certified; ETL listed

### 1.2 Cabinet features

- ▶ Unique fan-blade design
- ▶ Baked-on powder paint finish
- ▶ Wind Load compliant per Florida Building Code - 2010
- ▶ Wire fan discharge grille
- ▶ Steel louver coil guard
- ▶ Can be connected with two-stage indoor unit

## 2 Nomenclature

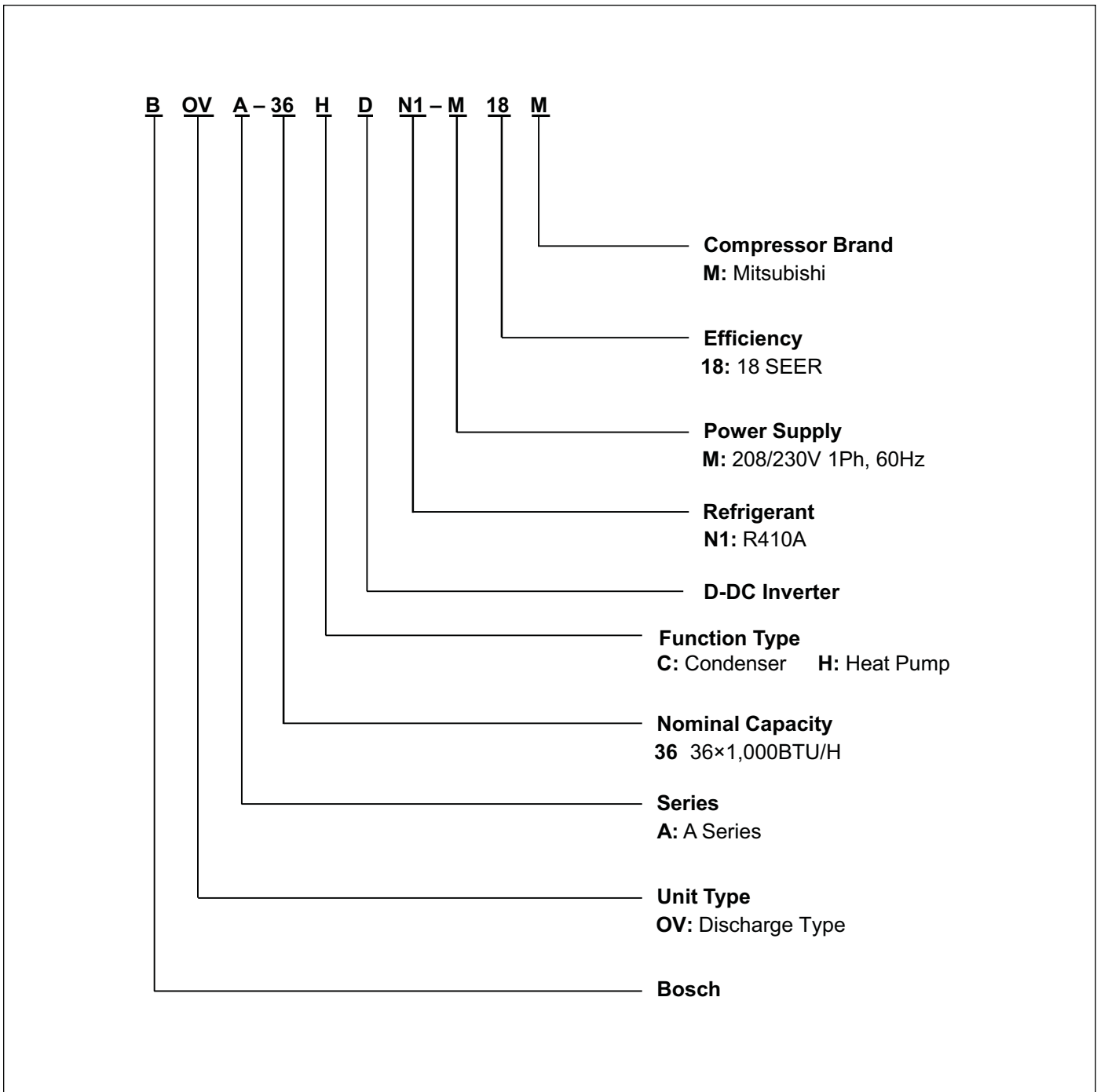


Figure 1

### 3 Product specifications

	BOVA 36	BOVA 60
<b>Cooling Capacity</b>		
Nominal Cooling (BTU/h)	34,600	57,000
Nominal Heating (BTU/h)	34,200	55,000
<b>Decibels([dB(A)])</b>		
Max.@100% load	77	79
Min.@min load	56	50
<b>Compressor</b>		
RLA	18.5	27.2
LRA	45	58.1
<b>Condenser Fan Motor</b>		
Horsepower (HP)	1/6	1/3
FLA	1.0	2.5
<b>Refrigeration System</b>		
Refrigerant Line Size <sup>1</sup>		
Liquid Line Size ("O.D.)	3/8"	3/8"
Suction Line Size ("O.D.)	3/4"	7/8"
Refrigerant Connection Size		
Liquid Valve Size ("O.D.)	3/8"	3/8"
Suction Line Size ("O.D.)	3/4"	7/8"
Refrigerant Charge(R-410A,oz)	121	163
Expansion Device	EEV	EEV
Maximum Line Length	100 FT	100 FT
Maximum Elevation Difference	50 FT	50 FT
<b>Charging Specifications</b>		
Subcooling at Service Valve	10°F (± 2°F)	8°F (± 2°F)
<b>Operating Range</b>		
Cooling	40°F-120°F	40°F-120°F
Heating	5°F-86°F	5°F-86°F
<b>Electrical Data</b>		
Voltage-Phase-Hz	208/230-1-60	208/230-1-60
Minimum Circuit Ampacity <sup>2</sup>	24.2	36.5
Max. Overcurrent Protection <sup>3</sup>	40	60
Min / Max Volts	187 / 253	187 / 253
<b>Weight</b>		
Equipment Weight (lbs)	157	205
Ship Weight (lbs) <sup>4</sup>	187	238

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.
- Installation of these units requires the specified TXV Kit to be installed on the indoor coil. THE SPECIFIED TXV IS DETERMINED BY THE OUTDOOR UNIT, NOT THE INDOOR COIL.

### 4 Expanded performance data

		24 AHU + BOVA 36 HP For Cooling																
Indoor Airflow (CFM)	Outdoor DB	IWB (°F)	59				63				67				71			
		IDB (°F)	70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
700	65	TC	17.2	17.3	17.3	17.4	20.3	20.4	20.5	20.7	23.4	23.5	23.6	23.7	/	27.4	27.5	27.6
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	/	0.37	0.52	0.67
		kW	0.81	0.81	0.81	0.81	0.86	0.86	0.86	0.86	1.02	1.02	1.02	1.02	/	1.21	1.21	1.21
	75	TC	17.2	17.3	17.3	17.4	20.3	20.4	20.5	20.7	23.4	23.5	23.6	23.7	/	27.4	27.5	27.6
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	/	0.37	0.52	0.67
		kW	0.97	0.97	0.97	0.97	1.04	1.04	1.04	1.04	1.26	1.26	1.26	1.26	/	1.48	1.48	1.48
	85	TC	17.2	17.3	17.3	17.4	20.3	20.4	20.5	20.7	23.4	23.5	23.6	23.7	/	27.4	27.5	27.6
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	/	0.37	0.52	0.67
		kW	1.15	1.15	1.15	1.15	1.30	1.30	1.30	1.30	1.52	1.52	1.52	1.52	/	1.83	1.83	1.83
	95	TC	17.2	17.3	17.3	17.4	20.3	20.4	20.5	20.7	23.4	23.5	23.6	23.7	/	27.4	27.5	27.6
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	/	0.37	0.52	0.67
		kW	1.28	1.28	1.28	1.28	1.56	1.56	1.56	1.56	1.83	1.83	1.83	1.83	/	2.22	2.22	2.22
105	TC	17.2	17.3	17.3	17.4	20.3	20.4	20.5	20.7	23.4	23.5	23.6	23.7	/	25.4	25.5	25.6	
	S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	/	0.38	0.53	0.68	
	kW	1.67	1.67	1.67	1.67	1.87	1.87	1.87	1.87	2.31	2.31	2.31	2.31	/	2.43	2.43	2.43	
115	TC	17.2	17.3	17.3	17.4	17.8	17.8	17.9	18.0	18.7	18.8	18.9	19.0	/	20.0	20.1	20.2	
	S/T	0.85	1.00	1.00	1.00	0.60	0.82	1.00	1.00	0.42	0.62	0.81	0.99	/	0.39	0.58	0.81	
	kW	1.88	1.88	1.88	1.88	1.92	1.92	1.92	1.92	1.98	1.98	1.98	1.98	/	2.05	2.05	2.05	
800	65	TC	17.5	17.5	17.6	17.7	20.7	20.8	20.9	21.0	23.8	23.9	24.0	24.1	/	27.8	28.0	28.1
		S/T	0.89	1.00	1.00	1.00	0.60	0.80	1.00	1.00	0.40	0.59	0.77	0.94	/	0.39	0.55	0.71
		kW	0.81	0.81	0.81	0.81	0.87	0.87	0.87	0.87	1.04	1.04	1.04	1.04	/	1.22	1.22	1.22
	75	TC	17.5	17.5	17.6	17.7	20.7	20.8	20.9	21.0	23.8	23.9	24.0	24.1	/	27.8	28.0	28.1
		S/T	0.89	1.00	1.00	1.00	0.60	0.80	1.00	1.00	0.40	0.59	0.77	0.94	/	0.39	0.55	0.71
		kW	0.98	0.98	0.98	0.98	1.05	1.05	1.05	1.05	1.28	1.28	1.28	1.28	/	1.50	1.50	1.50
	85	TC	17.5	17.5	17.6	17.7	20.7	20.8	20.9	21.0	23.8	23.9	24.0	24.1	/	27.8	28.0	28.1
		S/T	0.89	1.00	1.00	1.00	0.60	0.80	1.00	1.00	0.40	0.59	0.77	0.94	/	0.39	0.55	0.71
		kW	1.17	1.17	1.17	1.17	1.31	1.31	1.31	1.31	1.54	1.54	1.54	1.54	/	1.85	1.85	1.85
	95	TC	17.5	17.5	17.6	17.7	20.7	20.8	20.9	21.0	23.8	23.9	24.0	24.1	/	27.8	28.0	28.1
		S/T	0.89	1.00	1.00	1.00	0.60	0.80	1.00	1.00	0.40	0.59	0.77	0.94	/	0.39	0.55	0.71
		kW	1.30	1.30	1.30	1.30	1.57	1.57	1.57	1.57	1.85	1.85	1.85	1.85	/	2.25	2.25	2.25
105	TC	17.5	17.5	17.6	17.7	20.7	20.8	20.9	21.0	23.8	23.9	24.0	24.1	/	25.8	25.9	26.0	
	S/T	0.89	1.00	1.00	1.00	0.60	0.80	1.00	1.00	0.40	0.59	0.77	0.94	/	0.40	0.56	0.72	
	kW	1.68	1.68	1.68	1.68	1.89	1.89	1.89	1.89	2.33	2.33	2.33	2.33	/	2.46	2.46	2.46	
115	TC	17.5	17.5	17.6	17.7	18.1	18.1	18.2	18.3	19.0	19.1	19.2	19.3	/	20.3	20.4	20.5	
	S/T	0.89	1.00	1.00	1.00	0.63	0.87	1.00	1.00	0.44	0.65	0.85	1.00	/	0.41	0.61	0.86	
	kW	1.91	1.91	1.91	1.91	1.94	1.94	1.94	1.94	2.00	2.00	2.00	2.00	/	2.07	2.07	2.07	
900	65	TC	17.7	17.8	17.9	18.0	21.0	21.1	21.2	21.4	24.2	24.3	24.4	24.5	/	28.3	28.4	28.6
		S/T	0.93	1.00	1.00	1.00	0.62	0.83	1.00	1.00	0.42	0.61	0.80	0.98	/	0.41	0.57	0.73
		kW	0.82	0.82	0.82	0.82	0.88	0.88	0.88	0.88	1.05	1.05	1.05	1.05	/	1.23	1.23	1.23
	75	TC	17.7	17.8	17.9	18.0	21.0	21.1	21.2	21.4	24.2	24.3	24.4	24.5	/	28.3	28.4	28.6
		S/T	0.93	1.00	1.00	1.00	0.62	0.83	1.00	1.00	0.42	0.61	0.80	0.98	/	0.41	0.57	0.73
		kW	0.99	0.99	0.99	0.99	1.07	1.07	1.07	1.07	1.29	1.29	1.29	1.29	/	1.51	1.51	1.51
	85	TC	17.7	17.8	17.9	18.0	21.0	21.1	21.2	21.4	24.2	24.3	24.4	24.5	/	28.3	28.4	28.6
		S/T	0.93	1.00	1.00	1.00	0.62	0.83	1.00	1.00	0.42	0.61	0.80	0.98	/	0.41	0.57	0.73
		kW	1.18	1.18	1.18	1.18	1.33	1.33	1.33	1.33	1.55	1.55	1.55	1.55	/	1.87	1.87	1.87
	95	TC	17.7	17.8	17.9	18.0	21.0	21.1	21.2	21.4	24.2	24.3	24.4	24.5	/	28.3	28.4	28.6
		S/T	0.93	1.00	1.00	1.00	0.62	0.83	1.00	1.00	0.42	0.61	0.80	0.98	/	0.41	0.57	0.73
		kW	1.31	1.31	1.31	1.31	1.59	1.59	1.59	1.59	1.87	1.87	1.87	1.87	/	2.27	2.27	2.27
105	TC	17.7	17.8	17.9	18.0	21.0	21.1	21.2	21.4	24.2	24.3	24.4	24.5	/	26.2	26.4	26.5	
	S/T	0.93	1.00	1.00	1.00	0.62	0.83	1.00	1.00	0.42	0.61	0.80	0.98	/	0.42	0.58	0.75	
	kW	1.70	1.70	1.70	1.70	1.91	1.91	1.91	1.91	2.36	2.36	2.36	2.36	/	2.49	2.49	2.49	
115	TC	17.7	17.8	17.9	18.0	18.4	18.5	18.5	18.6	19.3	19.4	19.5	19.6	/	20.6	20.7	20.8	
	S/T	0.93	1.00	1.00	1.00	0.66	0.90	1.00	1.00	0.46	0.67	0.89	1.00	/	0.42	0.64	0.89	
	kW	1.93	1.93	1.93	1.93	1.96	1.96	1.96	1.96	2.02	2.02	2.02	2.02	/	2.09	2.09	2.09	

Table 2

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

36 AHU + BOVA 36 HP For Cooling																		
Indoor Airflow (CFM)	Outdoor DB	IWB (°F)	59				63				67				71			
		IDB (°F)	70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
970	65	TC	24.7	24.8	24.9	25.0	29.2	29.4	29.5	29.7	33.6	33.7	33.9	34.1	/	39.3	39.5	39.7
		S/T	0.82	1.00	1.00	1.00	0.55	0.74	0.94	1.00	0.37	0.54	0.71	0.87	/	0.36	0.51	0.65
		kW	1.32	1.32	1.32	1.32	1.41	1.41	1.41	1.41	1.68	1.68	1.68	1.68	/	1.98	1.98	1.98
	75	TC	24.7	24.8	24.9	25.0	29.2	29.4	29.5	29.7	33.6	33.7	33.9	34.1	/	39.3	39.5	39.7
		S/T	0.82	1.00	1.00	1.00	0.55	0.74	0.94	1.00	0.37	0.54	0.71	0.87	/	0.36	0.51	0.65
		kW	1.59	1.59	1.59	1.59	1.71	1.71	1.71	1.71	2.07	2.07	2.07	2.07	/	2.43	2.43	2.43
	85	TC	24.7	24.8	24.9	25.0	29.2	29.4	29.5	29.7	33.6	33.7	33.9	34.1	/	39.3	39.5	39.7
		S/T	0.82	1.00	1.00	1.00	0.55	0.74	0.94	1.00	0.37	0.54	0.71	0.87	/	0.36	0.51	0.65
		kW	1.89	1.89	1.89	1.89	2.13	2.13	2.13	2.13	2.49	2.49	2.49	2.49	/	3.00	3.00	3.00
	95	TC	24.7	24.8	24.9	25.0	29.2	29.4	29.5	29.7	33.6	33.7	33.9	34.1	/	39.3	39.5	39.7
		S/T	0.82	1.00	1.00	1.00	0.55	0.74	0.94	1.00	0.37	0.54	0.71	0.87	/	0.36	0.51	0.65
		kW	2.10	2.10	2.10	2.10	2.55	2.55	2.55	2.55	3.00	3.00	3.00	3.00	/	3.65	3.65	3.65
	105	TC	24.7	24.8	24.9	25.0	29.2	29.4	29.5	29.7	33.6	33.7	33.9	34.1	/	36.4	36.6	36.8
		S/T	0.82	1.00	1.00	1.00	0.55	0.74	0.94	1.00	0.37	0.54	0.71	0.87	/	0.37	0.52	0.66
		kW	2.73	2.73	2.73	2.73	3.06	3.06	3.06	3.06	3.78	3.78	3.78	3.78	/	3.99	3.99	3.99
	115	TC	24.7	24.8	24.9	25.0	25.5	25.6	25.8	25.9	26.8	27.0	27.1	27.3	/	28.7	28.8	29.0
		S/T	0.82	1.00	1.00	1.00	0.58	0.80	0.99	1.00	0.41	0.60	0.79	0.96	/	0.38	0.56	0.79
		kW	3.09	3.09	3.09	3.09	3.15	3.15	3.15	3.15	3.24	3.24	3.24	3.24	/	3.36	3.36	3.36
1120	65	TC	25.2	25.3	25.4	25.5	29.8	30.0	30.1	30.3	34.3	34.4	34.6	34.8	/	40.1	40.3	40.5
		S/T	0.87	1.00	1.00	1.00	0.59	0.78	0.99	1.00	0.39	0.57	0.75	0.92	/	0.38	0.54	0.69
		kW	1.33	1.33	1.33	1.33	1.42	1.42	1.42	1.42	1.70	1.70	1.70	1.70	/	2.00	2.00	2.00
	75	TC	25.2	25.3	25.4	25.5	29.8	30.0	30.1	30.3	34.3	34.4	34.6	34.8	/	40.1	40.3	40.5
		S/T	0.87	1.00	1.00	1.00	0.59	0.78	0.99	1.00	0.39	0.57	0.75	0.92	/	0.38	0.54	0.69
		kW	1.61	1.61	1.61	1.61	1.73	1.73	1.73	1.73	2.09	2.09	2.09	2.09	/	2.45	2.45	2.45
	85	TC	25.2	25.3	25.4	25.5	29.8	30.0	30.1	30.3	34.3	34.4	34.6	34.8	/	40.1	40.3	40.5
		S/T	0.87	1.00	1.00	1.00	0.59	0.78	0.99	1.00	0.39	0.57	0.75	0.92	/	0.38	0.54	0.69
		kW	1.91	1.91	1.91	1.91	2.15	2.15	2.15	2.15	2.51	2.51	2.51	2.51	/	3.03	3.03	3.03
	95	TC	25.2	25.3	25.4	25.5	29.8	30.0	30.1	30.3	34.3	34.4	34.6	34.8	/	40.1	40.3	40.5
		S/T	0.87	1.00	1.00	1.00	0.59	0.78	0.99	1.00	0.39	0.57	0.75	0.92	/	0.38	0.54	0.69
		kW	2.12	2.12	2.12	2.12	2.58	2.58	2.58	2.58	3.03	3.03	3.03	3.03	/	3.68	3.68	3.68
	105	TC	25.2	25.3	25.4	25.5	29.8	30.0	30.1	30.3	34.3	34.4	34.6	34.8	/	37.2	37.4	37.6
		S/T	0.87	1.00	1.00	1.00	0.59	0.78	0.99	1.00	0.39	0.57	0.75	0.92	/	0.39	0.55	0.70
		kW	2.76	2.76	2.76	2.76	3.09	3.09	3.09	3.09	3.82	3.82	3.82	3.82	/	4.03	4.03	4.03
	115	TC	25.2	25.3	25.4	25.5	26.0	26.2	26.3	26.4	27.4	27.5	27.7	27.8	/	29.3	29.4	29.6
		S/T	0.87	1.00	1.00	1.00	0.62	0.84	1.00	1.00	0.43	0.63	0.83	1.00	/	0.40	0.60	0.83
		kW	3.12	3.12	3.12	3.12	3.18	3.18	3.18	3.18	3.27	3.27	3.27	3.27	/	3.39	3.39	3.39
1270	65	TC	25.7	25.9	26.0	26.1	30.5	30.7	30.8	31.0	35.0	35.2	35.4	35.6	/	41.0	41.3	41.5
		S/T	0.90	1.00	1.00	1.00	0.61	0.81	1.00	1.00	0.41	0.59	0.78	0.95	/	0.40	0.56	0.72
		kW	1.34	1.34	1.34	1.34	1.43	1.43	1.43	1.43	1.71	1.71	1.71	1.71	/	2.01	2.01	2.01
	75	TC	25.7	25.9	26.0	26.1	30.5	30.7	30.8	31.0	35.0	35.2	35.4	35.6	/	41.0	41.3	41.5
		S/T	0.90	1.00	1.00	1.00	0.61	0.81	1.00	1.00	0.41	0.59	0.78	0.95	/	0.40	0.56	0.72
		kW	1.62	1.62	1.62	1.62	1.74	1.74	1.74	1.74	2.10	2.10	2.10	2.10	/	2.47	2.47	2.47
	85	TC	25.7	25.9	26.0	26.1	30.5	30.7	30.8	31.0	35.0	35.2	35.4	35.6	/	41.0	41.3	41.5
		S/T	0.90	1.00	1.00	1.00	0.61	0.81	1.00	1.00	0.41	0.59	0.78	0.95	/	0.40	0.56	0.72
		kW	1.92	1.92	1.92	1.92	2.17	2.17	2.17	2.17	2.53	2.53	2.53	2.53	/	3.05	3.05	3.05
	95	TC	25.7	25.9	26.0	26.1	30.5	30.7	30.8	31.0	35.0	35.2	35.4	35.6	/	41.0	41.3	41.5
		S/T	0.90	1.00	1.00	1.00	0.61	0.81	1.00	1.00	0.41	0.59	0.78	0.95	/	0.40	0.56	0.72
		kW	2.14	2.14	2.14	2.14	2.59	2.59	2.59	2.59	3.05	3.05	3.05	3.05	/	3.71	3.71	3.71
	105	TC	25.7	25.9	26.0	26.1	30.5	30.7	30.8	31.0	35.0	35.2	35.4	35.6	/	38.0	38.2	38.4
		S/T	0.90	1.00	1.00	1.00	0.61	0.81	1.00	1.00	0.41	0.59	0.78	0.95	/	0.41	0.57	0.73
		kW	2.78	2.78	2.78	2.78	3.11	3.11	3.11	3.11	3.84	3.84	3.84	3.84	/	4.06	4.06	4.06
	115	TC	25.7	25.9	26.0	26.1	26.6	26.8	26.9	27.0	28.0	28.2	28.3	28.5	/	29.9	30.1	30.2
		S/T	0.90	1.00	1.00	1.00	0.64	0.88	1.00	1.00	0.45	0.66	0.87	1.00	/	0.41	0.62	0.87
		kW	3.14	3.14	3.14	3.14	3.20	3.20	3.20	3.20	3.29	3.29	3.29	3.29	/	3.42	3.42	3.42

Table 3

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



48 AHU +BOVA 60 HP For Cooling																		
Indoor Airflow (CFM)	Outdoor DB	IWB (°F)	59				63				67				71			
		IDB (°F)	70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
1360	65	TC	33.7	33.8	34.0	34.2	39.9	40.1	40.3	40.5	45.8	46.1	46.3	46.5	/	53.7	54.0	54.2
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	/	0.37	0.52	0.67
		kW	1.64	1.64	1.64	1.64	1.75	1.75	1.75	1.75	2.08	2.08	2.08	2.08	/	2.46	2.46	2.46
	75	TC	33.7	33.8	34.0	34.2	39.9	40.1	40.3	40.5	45.8	46.1	46.3	46.5	/	53.7	54.0	54.2
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	/	0.37	0.52	0.67
		kW	1.97	1.97	1.97	1.97	2.12	2.12	2.12	2.12	2.57	2.57	2.57	2.57	/	3.01	3.01	3.01
	85	TC	33.7	33.8	34.0	34.2	39.9	40.1	40.3	40.5	45.8	46.1	46.3	46.5	/	53.7	54.0	54.2
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	/	0.37	0.52	0.67
		kW	2.34	2.34	2.34	2.34	2.64	2.64	2.64	2.64	3.09	3.09	3.09	3.09	/	3.72	3.72	3.72
	95	TC	33.7	33.8	34.0	34.2	39.9	40.1	40.3	40.5	45.8	46.1	46.3	46.5	/	53.7	54.0	54.2
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	/	0.37	0.52	0.67
		kW	2.60	2.60	2.60	2.60	3.16	3.16	3.16	3.16	3.72	3.72	3.72	3.72	/	4.52	4.52	4.52
	105	TC	33.7	33.8	34.0	34.2	39.9	40.1	40.3	40.5	45.8	46.1	46.3	46.5	/	49.8	50.0	50.3
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	/	0.38	0.53	0.68
		kW	3.39	3.39	3.39	3.39	3.79	3.79	3.79	3.79	4.69	4.69	4.69	4.69	/	4.95	4.95	4.95
	115	TC	33.7	33.8	34.0	34.2	34.8	35.0	35.2	35.4	36.7	36.9	37.0	37.2	/	39.2	39.4	39.6
		S/T	0.85	1.00	1.00	1.00	0.60	0.82	1.00	1.00	0.42	0.62	0.81	0.99	/	0.39	0.58	0.81
		kW	3.83	3.83	3.83	3.83	3.91	3.91	3.91	3.91	4.02	4.02	4.02	4.02	/	4.17	4.17	4.17
1560	65	TC	34.2	34.4	34.5	34.7	40.5	40.7	40.9	41.1	46.5	46.8	47.0	47.2	/	54.5	54.8	55.0
		S/T	0.88	1.00	1.00	1.00	0.59	0.79	1.00	1.00	0.40	0.58	0.76	0.93	/	0.39	0.54	0.70
		kW	1.65	1.65	1.65	1.65	1.77	1.77	1.77	1.77	2.11	2.11	2.11	2.11	/	2.48	2.48	2.48
	75	TC	34.2	34.4	34.5	34.7	40.5	40.7	40.9	41.1	46.5	46.8	47.0	47.2	/	54.5	54.8	55.0
		S/T	0.88	1.00	1.00	1.00	0.59	0.79	1.00	1.00	0.40	0.58	0.76	0.93	/	0.39	0.54	0.70
		kW	1.99	1.99	1.99	1.99	2.14	2.14	2.14	2.14	2.59	2.59	2.59	2.59	/	3.05	3.05	3.05
	85	TC	34.2	34.4	34.5	34.7	40.5	40.7	40.9	41.1	46.5	46.8	47.0	47.2	/	54.5	54.8	55.0
		S/T	0.88	1.00	1.00	1.00	0.59	0.79	1.00	1.00	0.40	0.58	0.76	0.93	/	0.39	0.54	0.70
		kW	2.37	2.37	2.37	2.37	2.67	2.67	2.67	2.67	3.12	3.12	3.12	3.12	/	3.76	3.76	3.76
	95	TC	34.2	34.4	34.5	34.7	40.5	40.7	40.9	41.1	46.5	46.8	47.0	47.2	/	54.5	54.8	55.0
		S/T	0.88	1.00	1.00	1.00	0.59	0.79	1.00	1.00	0.40	0.58	0.76	0.93	/	0.39	0.54	0.70
		kW	2.63	2.63	2.63	2.63	3.20	3.20	3.20	3.20	3.76	3.76	3.76	3.76	/	4.57	4.57	4.57
	105	TC	34.2	34.4	34.5	34.7	40.5	40.7	40.9	41.1	46.5	46.8	47.0	47.2	/	50.5	50.8	51.0
		S/T	0.88	1.00	1.00	1.00	0.59	0.79	1.00	1.00	0.40	0.58	0.76	0.93	/	0.40	0.55	0.71
		kW	3.42	3.42	3.42	3.42	3.84	3.84	3.84	3.84	4.74	4.74	4.74	4.74	/	5.00	5.00	5.00
	115	TC	34.2	34.4	34.5	34.7	35.4	35.5	35.7	35.9	37.2	37.4	37.6	37.8	/	39.8	40.0	40.1
		S/T	0.88	1.00	1.00	1.00	0.62	0.86	1.00	1.00	0.44	0.64	0.84	1.00	/	0.40	0.60	0.85
		kW	3.87	3.87	3.87	3.87	3.95	3.95	3.95	3.95	4.06	4.06	4.06	4.06	/	4.21	4.21	4.21
1760	65	TC	34.7	34.9	35.0	35.2	41.1	41.3	41.5	41.7	47.2	47.5	47.7	47.9	/	55.3	55.6	55.9
		S/T	0.92	1.00	1.00	1.00	0.62	0.82	1.00	1.00	0.41	0.60	0.79	0.96	/	0.40	0.56	0.73
		kW	1.67	1.67	1.67	1.67	1.79	1.79	1.79	1.79	2.13	2.13	2.13	2.13	/	2.51	2.51	2.51
	75	TC	34.7	34.9	35.0	35.2	41.1	41.3	41.5	41.7	47.2	47.5	47.7	47.9	/	55.3	55.6	55.9
		S/T	0.92	1.00	1.00	1.00	0.62	0.82	1.00	1.00	0.41	0.60	0.79	0.96	/	0.40	0.56	0.73
		kW	2.01	2.01	2.01	2.01	2.17	2.17	2.17	2.17	2.62	2.62	2.62	2.62	/	3.08	3.08	3.08
	85	TC	34.7	34.9	35.0	35.2	41.1	41.3	41.5	41.7	47.2	47.5	47.7	47.9	/	55.3	55.6	55.9
		S/T	0.92	1.00	1.00	1.00	0.62	0.82	1.00	1.00	0.41	0.60	0.79	0.96	/	0.40	0.56	0.73
		kW	2.39	2.39	2.39	2.39	2.70	2.70	2.70	2.70	3.15	3.15	3.15	3.15	/	3.80	3.80	3.80
	95	TC	34.7	34.9	35.0	35.2	41.1	41.3	41.5	41.7	47.2	47.5	47.7	47.9	/	55.3	55.6	55.9
		S/T	0.92	1.00	1.00	1.00	0.62	0.82	1.00	1.00	0.41	0.60	0.79	0.96	/	0.40	0.56	0.73
		kW	2.66	2.66	2.66	2.66	3.23	3.23	3.23	3.23	3.80	3.80	3.80	3.80	/	4.62	4.62	4.62
	105	TC	34.7	34.9	35.0	35.2	41.1	41.3	41.5	41.7	47.2	47.5	47.7	47.9	/	51.3	51.5	51.8
		S/T	0.92	1.00	1.00	1.00	0.62	0.82	1.00	1.00	0.41	0.60	0.79	0.96	/	0.41	0.58	0.74
		kW	3.46	3.46	3.46	3.46	3.88	3.88	3.88	3.88	4.79	4.79	4.79	4.79	/	5.05	5.05	5.05
	115	TC	34.7	34.9	35.0	35.2	35.9	36.1	36.3	36.4	37.8	38.0	38.2	38.4	/	40.3	40.5	40.7
		S/T	0.92	1.00	1.00	1.00	0.65	0.89	1.00	1.00	0.46	0.67	0.88	1.00	/	0.42	0.63	0.88
		kW	3.91	3.91	3.91	3.91	3.99	3.99	3.99	3.99	4.10	4.10	4.10	4.10	/	4.26	4.26	4.26

Table 4

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

60 AHU + BOVA 60 HP For Cooling																		
Indoor Airflow (CFM)	Outdoor DB	IWB (°F)	59				63				67				71			
		IDB (°F)	70	75	80	85	70	75	80	85	70	75	80	85	70	75	80	85
1500	65	TC	40.8	41.0	41.2	41.4	48.4	48.6	48.8	49.1	55.5	55.8	56.1	56.4	/	65.0	65.4	65.7
		S/T	0.81	1.00	1.00	1.00	0.55	0.73	0.93	1.00	0.36	0.53	0.70	0.85	/	0.36	0.50	0.64
		kW	2.22	2.22	2.22	2.22	2.37	2.37	2.37	2.37	2.83	2.83	2.83	2.83	/	3.33	3.33	3.33
	75	TC	40.8	41.0	41.2	41.4	48.4	48.6	48.8	49.1	55.5	55.8	56.1	56.4	/	65.0	65.4	65.7
		S/T	0.81	1.00	1.00	1.00	0.55	0.73	0.93	1.00	0.36	0.53	0.70	0.85	/	0.36	0.50	0.64
		kW	2.68	2.68	2.68	2.68	2.88	2.88	2.88	2.88	3.48	3.48	3.48	3.48	/	4.09	4.09	4.09
	85	TC	40.8	41.0	41.2	41.4	48.4	48.6	48.8	49.1	55.5	55.8	56.1	56.4	/	65.0	65.4	65.7
		S/T	0.81	1.00	1.00	1.00	0.55	0.73	0.93	1.00	0.36	0.53	0.70	0.85	/	0.36	0.50	0.64
		kW	3.18	3.18	3.18	3.18	3.59	3.59	3.59	3.59	4.19	4.19	4.19	4.19	/	5.05	5.05	5.05
	95	TC	40.8	41.0	41.2	41.4	48.4	48.6	48.8	49.1	55.5	55.8	56.1	56.4	/	65.0	65.4	65.7
		S/T	0.81	1.00	1.00	1.00	0.55	0.73	0.93	1.00	0.36	0.53	0.70	0.85	/	0.36	0.50	0.64
		kW	3.54	3.54	3.54	3.54	4.29	4.29	4.29	4.29	5.05	5.05	5.05	5.05	/	5.96	5.96	5.96
	105	TC	40.8	41.0	41.2	41.4	48.4	48.6	48.8	49.1	54.4	54.7	55.0	55.3	/	57.5	57.8	58.1
		S/T	0.81	1.00	1.00	1.00	0.55	0.73	0.93	1.00	0.36	0.53	0.70	0.85	/	0.36	0.51	0.66
		kW	4.28	4.28	4.28	4.28	5.21	5.21	5.21	5.21	5.86	5.86	5.86	5.86	/	5.98	5.98	5.98
	115	TC	40.8	41.0	40.4	41.4	42.2	42.4	42.6	42.8	44.4	44.7	44.9	45.1	/	46.9	47.1	47.4
		S/T	0.81	1.00	1.00	1.00	0.57	0.79	0.98	1.00	0.40	0.59	0.78	0.95	/	0.37	0.56	0.78
		kW	4.98	4.98	4.98	4.98	5.14	5.14	5.14	5.14	5.30	5.30	5.30	5.30	/	5.46	5.46	5.46
1700	65	TC	41.5	41.7	41.9	42.1	49.1	49.4	49.6	49.9	56.4	56.7	57.0	57.3	/	66.1	66.4	66.8
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	/	0.37	0.52	0.67
		kW	2.24	2.24	2.24	2.24	2.39	2.39	2.39	2.39	2.85	2.85	2.85	2.85	/	3.36	3.36	3.36
	75	TC	41.5	41.7	41.9	42.1	49.1	49.4	49.6	49.9	56.4	56.7	57.0	57.3	/	66.1	66.4	66.8
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	/	0.37	0.52	0.67
		kW	2.70	2.70	2.70	2.70	2.90	2.90	2.90	2.90	3.51	3.51	3.51	3.51	/	4.12	4.12	4.12
	85	TC	41.5	41.7	41.9	42.1	49.1	49.4	49.6	49.9	56.4	56.7	57.0	57.3	/	66.1	66.4	66.8
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	/	0.37	0.52	0.67
		kW	3.21	3.21	3.21	3.21	3.61	3.61	3.61	3.61	4.22	4.22	4.22	4.22	/	5.09	5.09	5.09
	95	TC	41.5	41.7	41.9	42.1	49.1	49.4	49.6	49.9	56.4	56.7	57.0	57.3	/	66.1	66.4	66.8
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	/	0.37	0.52	0.67
		kW	3.56	3.56	3.56	3.56	4.33	4.33	4.33	4.33	5.09	5.09	5.09	5.09	/	6.01	6.01	6.01
	105	TC	41.5	41.7	41.9	42.1	49.1	49.4	49.6	49.9	55.3	55.6	55.9	56.1	/	58.4	58.7	59.0
		S/T	0.85	1.00	1.00	1.00	0.57	0.76	0.97	1.00	0.38	0.55	0.73	0.89	/	0.38	0.53	0.68
		kW	4.31	4.31	4.31	4.31	5.25	5.25	5.25	5.25	5.90	5.90	5.90	5.90	/	6.02	6.02	6.02
	115	TC	41.5	41.7	41.0	42.1	42.9	43.1	43.3	43.5	45.1	45.4	45.6	45.8	/	47.6	47.9	48.1
		S/T	0.85	1.00	1.00	1.00	0.60	0.82	1.00	1.00	0.42	0.62	0.81	0.99	/	0.39	0.58	0.81
		kW	5.02	5.02	5.02	5.02	5.18	5.18	5.18	5.18	5.34	5.34	5.34	5.34	/	5.50	5.50	5.50
1900	65	TC	42.1	42.3	42.5	42.7	49.9	50.2	50.4	50.7	57.3	57.6	57.9	58.2	/	67.1	67.5	67.8
		S/T	0.88	1.00	1.00	1.00	0.59	0.79	1.00	1.00	0.40	0.58	0.76	0.93	/	0.39	0.54	0.70
		kW	2.26	2.26	2.26	2.26	2.42	2.42	2.42	2.42	2.88	2.88	2.88	2.88	/	3.39	3.39	3.39
	75	TC	42.1	42.3	42.5	42.7	49.9	50.2	50.4	50.7	57.3	57.6	57.9	58.2	/	67.1	67.5	67.8
		S/T	0.88	1.00	1.00	1.00	0.59	0.79	1.00	1.00	0.40	0.58	0.76	0.93	/	0.39	0.54	0.70
		kW	2.72	2.72	2.72	2.72	2.93	2.93	2.93	2.93	3.55	3.55	3.55	3.55	/	4.16	4.16	4.16
	85	TC	42.1	42.3	42.5	42.7	49.9	50.2	50.4	50.7	57.3	57.6	57.9	58.2	/	67.1	67.5	67.8
		S/T	0.88	1.00	1.00	1.00	0.59	0.79	1.00	1.00	0.40	0.58	0.76	0.93	/	0.39	0.54	0.70
		kW	3.24	3.24	3.24	3.24	3.65	3.65	3.65	3.65	4.27	4.27	4.27	4.27	/	5.14	5.14	5.14
	95	TC	42.1	42.3	42.5	42.7	49.9	50.2	50.4	50.7	57.3	57.6	57.9	58.2	/	67.1	67.5	67.8
		S/T	0.88	1.00	1.00	1.00	0.59	0.79	1.00	1.00	0.40	0.58	0.76	0.93	/	0.39	0.54	0.70
		kW	3.60	3.60	3.60	3.60	4.37	4.37	4.37	4.37	5.14	5.14	5.14	5.14	/	6.07	6.07	6.07
	105	TC	42.1	42.3	42.5	42.7	49.9	50.2	50.4	50.7	56.2	56.5	56.7	57.0	/	59.3	59.6	59.9
		S/T	0.88	1.00	1.00	1.00	0.59	0.79	1.00	1.00	0.40	0.58	0.76	0.93	/	0.40	0.55	0.71
		kW	4.35	4.35	4.35	4.35	5.31	5.31	5.31	5.31	5.96	5.96	5.96	5.96	/	6.08	6.08	6.08
	115	TC	42.1	42.3	41.7	42.7	43.6	43.8	44.0	44.2	45.9	46.1	46.3	46.6	/	48.4	48.6	48.9
		S/T	0.88	1.00	1.00	1.00	0.62	0.86	1.00	1.00	0.44	0.64	0.84	1.00	/	0.40	0.60	0.85
		kW	5.07	5.07	5.07	5.07	5.24	5.24	5.24	5.24	5.40	5.40	5.40	5.40	/	5.56	5.56	5.56

Table 5

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

24 AHU + BOVA 36 HP For Heating																			
Airflow (CFM)	ID	OD	72	67	62	57	52	47	42	37	32	27	22	17	12	7	5		
700	60	TC	30.3	30.3	30.3	30.3	30.3	28.5	26.8	25.2	23.7	22.3	20.9	19.9	19.1	18.7	18.6		
		kW	1.66	1.80	1.94	2.06	2.26	2.28	2.37	2.35	2.33	2.28	2.25	2.23	2.29	2.39	2.44		
	70	TC	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	21.7	20.8	19.8	18.9	18.7	18.4	18.1	18.0	
		kW	1.37	1.47	1.56	1.67	1.80	1.92	2.11	2.11	2.19	2.24	2.23	2.28	2.39	2.48	2.53		
	75	TC	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.4	20.0	19.0	17.7	16.8	16.3	16.0	15.8		
		kW	1.25	1.33	1.41	1.50	1.59	1.71	1.86	1.99	2.12	2.16	2.15	2.14	2.20	2.27	2.31		
	80	TC	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	17.2	16.8	16.1	15.8	15.7	
		kW	1.12	1.19	1.26	1.33	1.42	1.50	1.63	1.74	1.86	1.99	2.12	2.18	2.26	2.35	2.37		
	800	60	TC	30.9	30.9	30.9	30.9	30.9	29.0	27.3	25.6	24.1	22.6	21.3	20.2	19.4	19.0	18.9	
			kW	1.67	1.80	1.94	2.06	2.26	2.28	2.34	2.32	2.29	2.25	2.22	2.20	2.26	2.36	2.41	
		70	TC	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	22.1	21.1	20.2	19.2	19.0	18.7	18.4	18.3
			kW	1.37	1.47	1.56	1.68	1.80	1.93	2.08	2.08	2.16	2.21	2.19	2.25	2.35	2.44	2.49	
75		TC	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.8	20.3	19.3	18.0	17.1	16.6	16.2	16.1		
		kW	1.25	1.33	1.41	1.50	1.60	1.71	1.84	1.96	2.09	2.13	2.12	2.11	2.17	2.24	2.27		
80		TC	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.1	16.4	16.1	15.9	
		kW	1.13	1.19	1.26	1.34	1.42	1.50	1.61	1.71	1.83	1.96	2.09	2.15	2.23	2.31	2.34		
900		60	TC	31.5	31.5	31.5	31.5	31.5	29.6	27.8	26.2	24.6	23.1	21.7	20.6	19.8	19.4	19.3	
			kW	1.63	1.76	1.89	2.01	2.21	2.23	2.32	2.30	2.27	2.23	2.20	2.18	2.24	2.34	2.39	
		70	TC	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	22.5	21.5	20.5	19.5	19.3	19.0	18.6	18.5
			kW	1.34	1.43	1.52	1.64	1.76	1.88	2.06	2.06	2.14	2.18	2.17	2.22	2.32	2.40	2.45	
	75	TC	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	20.8	19.7	18.3	17.4	16.9	16.6	16.4		
		kW	1.22	1.30	1.37	1.47	1.56	1.67	1.82	1.95	2.07	2.11	2.11	2.10	2.15	2.22	2.25		
	80	TC	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.4	16.7	16.4	16.3	
		kW	1.10	1.16	1.23	1.30	1.38	1.47	1.59	1.70	1.82	1.95	2.08	2.13	2.21	2.29	2.32		

Table 6

36 AHU + BOVA 36 HP For Heating																			
Airflow (CFM)	ID	OD	72	67	62	57	52	47	42	37	32	27	22	17	12	7	5		
970	60	TC	43.5	43.5	43.5	43.5	43.5	40.8	38.4	36.1	33.9	31.9	30.0	28.5	27.3	26.8	26.6		
		kW	2.74	2.93	3.12	3.36	3.52	3.49	3.38	3.33	3.30	3.28	3.28	3.27	3.33	3.44	3.50		
	70	TC	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	30.5	28.6	26.6	24.7	23.7	23.0	22.2	22.0	
		kW	2.08	2.21	2.38	2.55	2.77	2.95	3.19	3.10	3.04	2.98	2.91	2.92	2.97	3.00	3.04		
	75	TC	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	28.5	27.1	25.2	23.9	23.2	22.8	22.6		
		kW	1.81	1.92	2.04	2.18	2.33	2.51	2.73	2.95	3.11	3.17	3.10	3.07	3.11	3.18	3.21		
	80	TC	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	23.8	22.8	22.4	22.2	
		kW	1.57	1.66	1.76	1.87	1.99	2.12	2.27	2.45	2.66	2.86	3.08	3.17	3.19	3.24	3.42		
	1120	60	TC	44.0	44.0	44.0	44.0	44.0	41.3	38.9	36.5	34.3	32.3	30.3	28.8	27.7	27.1	26.9	
			kW	2.73	2.92	3.11	3.35	3.51	3.48	3.36	3.31	3.28	3.25	3.24	3.23	3.26	3.38	3.44	
		70	TC	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	30.9	28.9	27.0	25.0	24.0	23.3	22.5	22.3
			kW	2.08	2.20	2.37	2.55	2.76	2.94	3.17	3.08	3.02	2.95	2.88	2.88	2.92	2.95	2.99	
75		TC	29.5	29.5	29.5	29.5	29.5	29.5	29.5	29.5	28.9	27.4	25.5	24.2	23.5	23.0	22.8		
		kW	1.80	1.92	2.04	2.18	2.32	2.50	2.72	2.93	3.09	3.14	3.06	3.03	3.05	3.12	3.15		
80		TC	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.1	23.1	22.7	22.5	
		kW	1.56	1.65	1.76	1.86	1.99	2.12	2.26	2.44	2.63	2.83	3.04	3.13	3.13	3.18	3.36		
1270		60	TC	44.5	44.5	44.5	44.5	44.5	41.8	39.3	36.9	34.7	32.6	30.7	29.2	28.0	27.4	27.2	
			kW	2.65	2.82	3.01	3.24	3.39	3.37	3.25	3.21	3.18	3.16	3.16	3.16	3.21	3.32	3.38	
		70	TC	34.6	34.6	34.6	34.6	34.6	34.6	34.6	34.6	31.2	29.3	27.3	25.3	24.3	23.6	22.8	22.6
			kW	2.01	2.13	2.29	2.46	2.67	2.85	3.08	2.99	2.93	2.87	2.81	2.82	2.87	2.90	2.94	
	75	TC	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.8	29.2	27.7	25.8	24.5	23.8	23.3	23.1		
		kW	1.74	1.85	1.97	2.11	2.24	2.42	2.63	2.85	3.00	3.06	2.99	2.96	3.00	3.06	3.10		
	80	TC	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	24.4	23.4	22.9	22.7	
		kW	1.51	1.60	1.70	1.80	1.92	2.05	2.19	2.36	2.56	2.76	2.97	3.06	3.07	3.12	3.30		

Table 7

48 AHU + BOVA 60 HP For Heating																		
Airflow (CFM)	ID	OD	72	67	62	57	52	47	42	37	32	27	22	17	12	7	5	
1360	60	TC	59.1	59.1	59.1	59.1	59.1	55.6	52.3	49.1	46.2	43.4	40.8	38.8	37.2	36.1	35.8	
		kW	3.34	3.58	3.84	4.25	4.69	4.56	4.47	4.39	4.32	4.23	4.13	4.00	3.86	3.58	3.54	
	70	TC	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	42.0	39.8	37.6	35.4	34.6	34.3	33.9	34.0
		kW	2.63	2.78	3.00	3.23	3.51	3.80	4.20	4.20	4.14	4.06	3.94	3.91	3.85	3.59	3.59	
	75	TC	39.6	39.6	39.6	39.6	39.6	39.6	39.6	39.6	38.8	36.9	34.3	32.6	31.6	31.3	31.2	
		kW	2.31	2.44	2.59	2.75	2.97	3.21	3.50	3.80	4.04	4.10	4.02	3.86	3.71	3.45	3.42	
	80	TC	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	33.2	32.4	31.1	30.8	30.7
		kW	2.00	2.11	2.23	2.37	2.53	2.73	2.96	3.24	3.54	3.80	3.95	3.92	3.74	3.41	3.39	
1560	60	TC	59.8	59.8	59.8	59.8	59.8	56.2	52.8	49.7	46.7	43.9	41.2	39.2	37.6	36.5	36.2	
		kW	3.32	3.57	3.83	4.23	4.67	4.54	4.44	4.36	4.28	4.18	4.07	3.95	3.80	3.53	3.49	
	70	TC	46.5	46.5	46.5	46.5	46.5	46.5	46.5	42.4	40.2	38.0	35.8	35.0	34.7	34.4	34.4	
		kW	2.62	2.77	2.98	3.22	3.50	3.78	4.17	4.17	4.10	4.01	3.89	3.85	3.79	3.54	3.54	
	75	TC	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	39.2	37.3	34.7	32.9	31.9	31.6	31.5	
		kW	2.30	2.43	2.57	2.74	2.96	3.19	3.48	3.77	4.01	4.05	3.97	3.81	3.65	3.40	3.37	
	80	TC	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	32.7	31.4	31.1	31.1
		kW	2.00	2.10	2.22	2.36	2.52	2.72	2.95	3.22	3.51	3.76	3.90	3.87	3.69	3.36	3.34	
1760	60	TC	60.8	60.8	60.8	60.8	60.8	57.2	53.7	50.5	47.5	44.6	42.0	39.9	38.3	37.1	36.8	
		kW	3.23	3.47	3.72	4.12	4.54	4.41	4.33	4.25	4.18	4.10	4.00	3.88	3.74	3.47	3.43	
	70	TC	47.3	47.3	47.3	47.3	47.3	47.3	47.3	43.1	40.9	38.6	36.3	35.5	35.1	34.8	34.9	
		kW	2.55	2.69	2.90	3.13	3.40	3.68	4.06	4.06	4.01	3.93	3.81	3.78	3.71	3.46	3.46	
	75	TC	40.7	40.7	40.7	40.7	40.7	40.7	40.7	40.7	39.9	37.9	35.3	33.5	32.5	32.2	32.0	
		kW	2.23	2.36	2.50	2.66	2.88	3.11	3.39	3.68	3.92	3.97	3.89	3.74	3.59	3.34	3.31	
	80	TC	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	33.3	32.0	31.7	31.6
		kW	1.94	2.04	2.16	2.30	2.45	2.64	2.87	3.14	3.43	3.68	3.82	3.80	3.62	3.30	3.28	

Table 8

60 AHU + BOVA 60 HP For Heating																		
Airflow (CFM)	ID	OD	72	67	62	57	52	47	42	37	32	27	22	17	12	7	5	
1500	60	TC	69.7	69.7	69.7	69.7	65.5	61.6	57.9	54.4	51.1	48.1	45.2	42.9	41.2	40.0	39.7	
		kW	4.24	4.58	5.02	5.47	5.30	5.15	5.05	4.95	4.86	4.77	4.68	4.59	4.57	4.53	4.49	
	70	TC	54.2	54.2	54.2	54.2	54.2	54.2	54.2	49.2	46.4	43.6	40.7	39.5	38.8	38.0	37.9	
		kW	3.18	3.41	3.65	3.94	4.34	4.71	5.13	4.96	4.86	4.73	4.61	4.57	4.61	4.56	4.52	
	75	TC	48.9	48.9	48.9	48.9	48.9	48.9	48.9	48.9	47.9	45.6	42.4	40.2	39.0	38.6	38.5	
		kW	2.91	3.07	3.27	3.52	3.81	4.16	4.51	4.90	5.18	5.21	5.01	4.87	4.83	4.81	4.75	
	80	TC	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	39.1	38.2	36.6	36.3	36.2
		kW	2.39	2.52	2.67	2.86	3.08	3.27	3.57	3.90	4.18	4.42	4.65	4.72	4.74	4.70	4.64	
1700	60	TC	70.7	70.7	70.7	70.7	66.5	62.5	58.7	55.2	51.9	48.8	45.9	43.6	41.8	40.6	40.2	
		kW	4.22	4.55	4.99	5.44	5.27	5.13	5.02	4.92	4.83	4.74	4.66	4.57	4.55	4.51	4.46	
	70	TC	55.0	55.0	55.0	55.0	55.0	55.0	55.0	49.9	47.0	44.2	41.3	40.0	39.2	38.4	38.3	
		kW	3.16	3.39	3.63	3.92	4.31	4.69	5.10	4.93	4.83	4.70	4.58	4.54	4.57	4.52	4.48	
	75	TC	47.4	47.4	47.4	47.4	47.4	47.4	47.4	47.4	46.4	44.1	41.0	39.0	37.8	37.4	37.3	
		kW	2.76	2.91	3.11	3.34	3.61	3.95	4.28	4.65	4.91	4.94	4.75	4.62	4.58	4.56	4.51	
	80	TC	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	39.7	38.7	37.2	36.8	36.7
		kW	2.37	2.51	2.65	2.84	3.06	3.25	3.55	3.88	4.15	4.40	4.62	4.69	4.71	4.67	4.61	
1900	60	TC	72.0	72.0	72.0	72.0	67.7	63.6	59.8	56.2	52.8	49.7	46.7	44.4	42.6	41.3	41.0	
		kW	4.25	4.59	5.03	5.48	5.31	5.16	5.05	4.95	4.86	4.77	4.69	4.60	4.58	4.54	4.50	
	70	TC	56.0	56.0	56.0	56.0	56.0	56.0	56.0	50.8	47.8	44.8	41.9	40.5	39.6	38.8	38.6	
		kW	3.18	3.41	3.66	3.95	4.34	4.72	5.13	4.96	4.85	4.72	4.59	4.55	4.57	4.51	4.47	
	75	TC	56.1	56.1	56.1	56.1	56.1	56.1	56.1	56.1	55.0	52.2	48.6	46.1	44.8	44.3	44.1	
		kW	3.23	3.41	3.64	3.91	4.23	4.62	5.01	5.45	5.75	5.79	5.57	5.41	5.37	5.35	5.28	
	80	TC	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	40.4	39.4	37.9	37.5	37.4
		kW	2.39	2.52	2.67	2.86	3.08	3.27	3.58	3.91	4.18	4.43	4.66	4.73	4.75	4.71	4.64	

Table 9

## 5 AHRI 210/240 performance data

Outdoor Unit	Indoor Unit	Cooling Capacity (BTU/h)			Heating Capacity			CFM
	Coils/Air Handlers	Total	SEER <sup>1</sup>	EER <sup>2</sup>	Hi	HSPF <sup>3</sup>	Low <sup>4</sup>	
BOVA 36 HP	24	24000	18.5	13.0	24000	9.5	19000	800
BOVA 36 HP	36	34600	17.5	11.4	34200	9.0	24000	1120
BOVA 60 HP	48	47000	18.5	12.5	46500	9.5	35000	1560
BOVA 60 HP	60	57000	17.5	11.2	55000	9.5	40000	1700

Table 10

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

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

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

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



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

## 6 Suction corrected factor

Model Size		2 Ton	3 Ton	4 Ton	5 Ton
BOVA-Suction Line Connection Size		3/4" O.D.	3/4" O.D.	7/8" O.D.	7/8" O.D.
Suction Line Run - Feet		3/4" Std.	3/4" Std.	7/8" Std.	7/8" Std.
		5/8" Opt.	5/8" Opt.	3/4" Opt.	3/4" Opt.
25'	Standard	1.00	1.00	1.00	1.00
	Optional	1.00	0.99	0.99	0.98
50'	Standard	0.99	0.99	0.99	0.99
	Optional	0.99	0.98	0.98	0.97
100'	Standard	0.99	0.98	0.98	0.97
	Optional	0.98	0.95	0.97	0.95

Table 11

Std: Standard size

Opt: Optional size



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

## 7 Sound Data

Model	"Sound Power Level [dB(A)] Low Speed/ HighSpeed"	Full Octave Linear Sound Power Level dB - Center Frequency -Hz								"Sound Power Level [dB(A)] with Sound Blanket"
		63	125	250	500	1000	2000	4000	8000	
3 Ton	56	52.8	47.1	44.8	47.7	45.9	40.4	33.4	40.8	Sound Blanket - Standard
	77	73.2	67.8	68.9	69.1	66.1	61.3	59.6	58.9	
5 Ton	50	42.6	44.9	43.5	42.1	38.9	33.4	27.4	26.4	
	79	73.1	74.1	70.1	70.1	69.6	64.5	60.1	53.6	

Table 12 IDS Sound power level

## 8 Dimensions

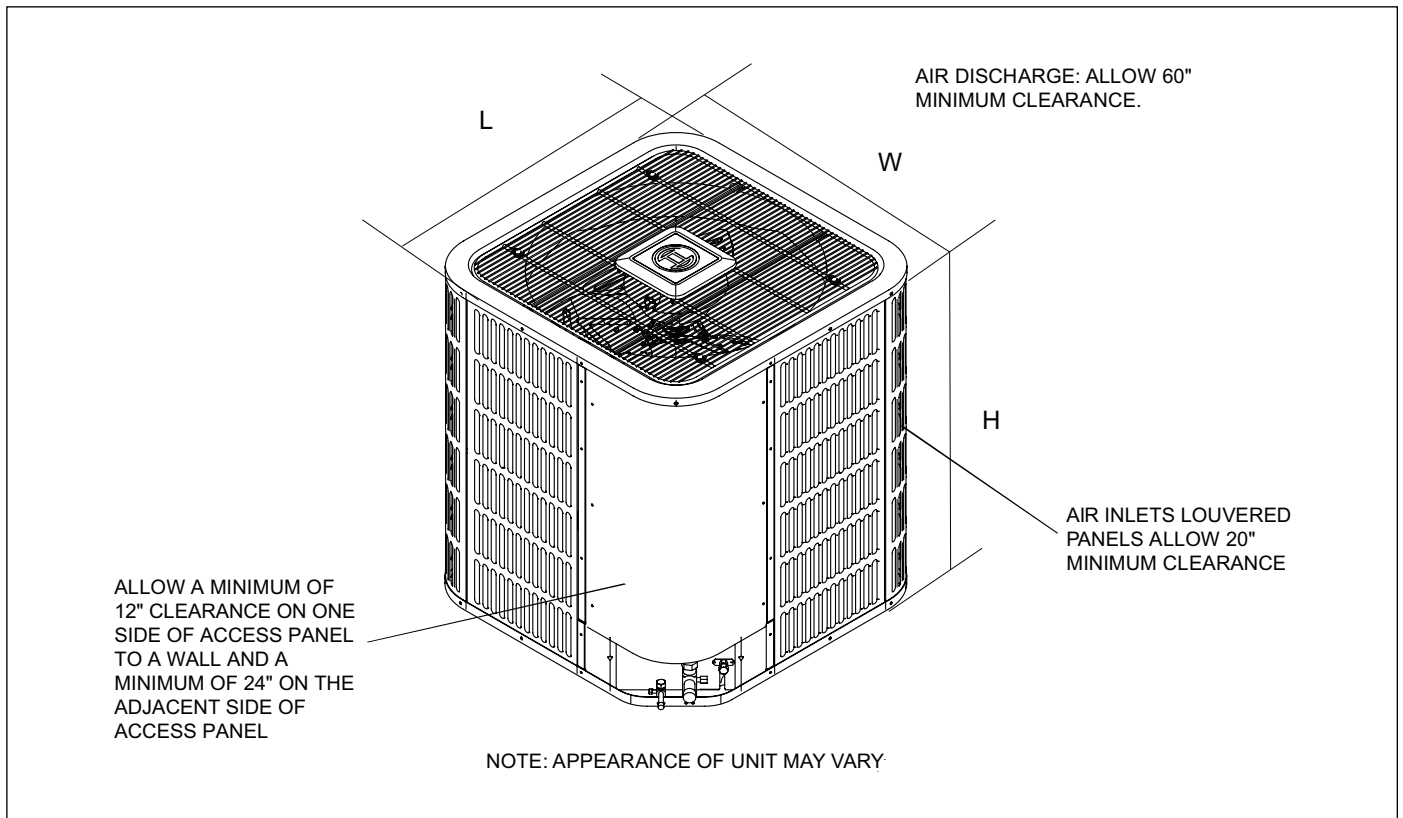


Figure 2

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

Table 13



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