

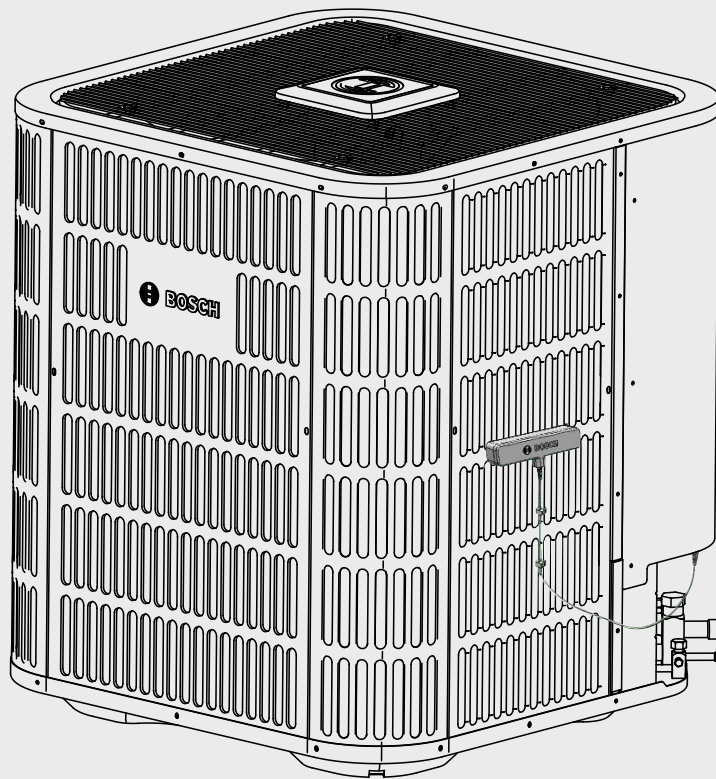


Product Specifications

# Split System Heat Pump

## Bosch IDS BOVD20

Condensing Units Up to 20 SEER2 | 2-3 Ton Capacity | R410A



BTC 761701325 A / 03.2024





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## 1 Product Features

### 1.1 Features and Benefits

- Bosch EasyAir app compatibility enabled via 4G & BLE connectivity
- Premium efficiency – Up to 20 SEER2
- Outdoor coil – copper tube with hydrophilic aluminum fins
- 10 speed ECM outdoor motor for quiet and efficient operation
- Inverter Drive Compressor (36%-130% speed), modulation in 1% increments
- Whisper Quiet operation – as low as 56 dB
- Small footprint – 29-1/8" (W) x 29-1/8" (D)
- Easy to install – compatible with most standard 24 VAC heat pump thermostats

### 1.2 Standard Features

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

### 1.3 Cabinet Features

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

### 1.4 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:

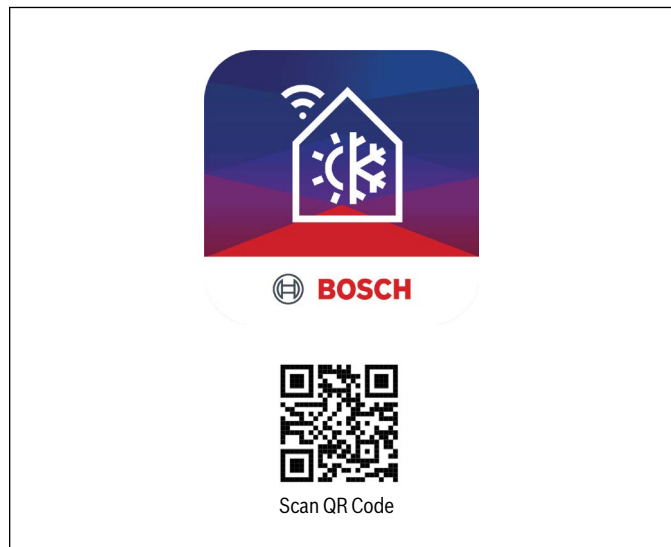


Figure 1

Bosch EasyAir App is compatible with:

- Android Version 11.0 (Red Velvet Cake) or later
- iOS 15.0 or later

### 1.5 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. Gateway Assemblies incorporated into the Product at the time of shipment by BTC shall remain free from defects in workmanship and material for two (2) 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 <https://www.bosch-thermotechnology.us/en/residential/home/> for full warranty terms and conditions.

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

## 2 Nomenclature

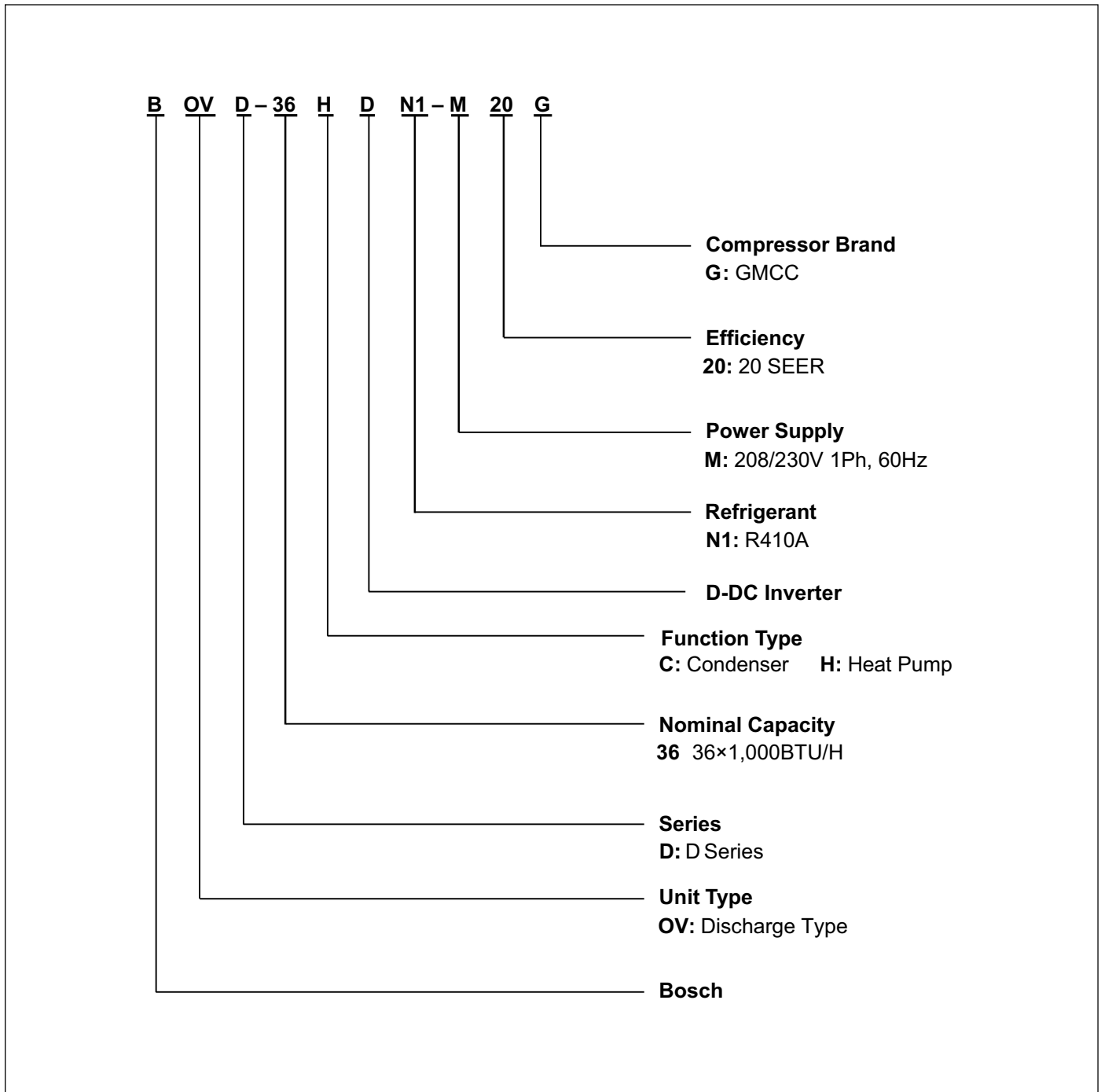


Figure 2

### 3 Product Specifications

	BOVD20-36
<b>Cooling Capacity</b>	
Nominal Cooling (BTU/h)	34,200
Nominal Heating (BTU/h)	34,200
<b>Decibels([dB(A)])</b>	
Max @ 100% load	77
Min @ min load	56
<b>Compressor</b>	
RLA	19
<b>Condenser Fan Motor</b>	
Horsepower (HP)	1/3
FLA	2.5
<b>Refrigeration System</b>	
Refrigerant Line Size <sup>1</sup>	
Liquid Line Size (OD)	3/8"
Suction Line Size (OD)	3/4"
Refrigerant Connection Size	
Liquid Valve Size (OD)	3/8"
Suction Valve Size (OD)	3/4"
Refrigerant Charge (R410-A, oz)	7 lbs. 9 oz.
Expansion Device	EEV
Maximum Line Length	150 FT
Maximum Elevation Difference	50 FT
<b>Operating Range</b>	
Cooling	15-125 ° F
Heating	-4-86 ° F
<b>Electrical Data</b>	
Voltage-Phase-Hz	208/230-1-60
Minimum Circuit Ampacity <sup>2</sup>	26.3
Max. Overcurrent Protection <sup>3</sup>	45
Max Fuse Size	45
Min/Max Volts	172V/270V
<b>Weight</b>	
Net Weight (without packaging)	151
Gross Weight (including packaging) <sup>4</sup>	181
<b>Dimensions</b>	
Unit L x W x H (in.)	29-1/8 x 29-1/8 x 24-15/16
<b>Outdoor Coil</b>	
Net face area - sq.ft. Outer Coil	13.6
Tube diameter-in.	9/32" (7mm)
No.of rows	2
Fins per inch	17

Table 1

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

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

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

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



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



BOVD20-36 +BVA20-24 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
720	15	TC	21.8	22.1	22.6	22.8	22.6	22.8	23.1	23.3	24.1	24.3	24.6	22.9	/	31.1	31.4	31.7
		S/T	0.96	0.99	0.99	1	0.66	0.9	0.97	1	0.39	0.58	0.77	1	/	0.38	0.53	0.68
	KW	0.70	0.71	0.72	0.72	0.72	0.73	0.73	0.74	0.73	0.74	0.76	0.65	/	1.20	1.22	1.24	
	65	TC	21.9	22.1	22.6	22.9	22.9	23.1	23.4	24.2	24.4	24.6	24.9	/	30.6	30.9	31.2	
		S/T	0.96	0.99	1	1	0.66	0.9	0.97	1	0.39	0.58	0.77	0.95	/	0.39	0.54	0.68
	KW	1.04	1.05	1.07	1.07	1.07	1.08	1.10	1.11	1.10	1.12	1.13	1.14	/	1.49	1.51	1.53	
	75	TC	21.6	21.9	22.4	22.6	22.4	22.6	22.9	23.1	24	24.3	24.4	24.4	/	30.7	30.9	31.2
		S/T	0.96	0.99	1	1	0.66	0.9	0.97	1	0.39	0.58	0.77	1	/	0.39	0.54	0.68
	KW	1.30	1.32	1.33	1.33	1.33	1.34	1.36	1.37	1.38	1.39	1.40	1.40	/	1.75	1.77	1.79	
	85	TC	21.5	21.7	22.2	22.5	22.2	22.5	22.7	23	24	24.1	24.2	24.4	/	30.3	30.6	30.8
		S/T	0.96	0.99	1	1	0.66	0.9	0.97	1	0.39	0.59	0.78	1	/	0.39	0.54	0.69
	KW	1.43	1.46	1.47	1.47	1.47	1.49	1.50	1.52	1.54	1.54	1.54	1.56	/	1.91	1.93	1.95	
	95	TC	21.3	21.6	22.1	22.3	22.1	22.3	22.5	22.8	23.6	23.8	24	24.2	/	30	30.2	30.4
		S/T	0.96	0.99	1	1	0.66	0.9	0.97	1	0.39	0.59	0.78	1	/	0.39	0.54	0.69
	KW	1.71	1.73	1.75	1.75	1.75	1.77	1.78	1.80	1.83	1.84	1.85	1.87	/	2.31	2.33	2.34	
	105	TC	21.1	21.4	21.9	22.1	21.9	22.1	22.4	22.6	23.4	23.6	23.8	24.1	/	29.5	29.7	30
		S/T	0.98	1	1	1	0.68	0.93	1	1	0.4	0.61	0.8	1	/	0.4	0.56	0.72
	KW	2.06	2.08	2.10	2.10	2.10	2.12	2.14	2.16	2.17	2.19	2.20	2.23	/	2.77	2.80	2.83	
	115	TC	21	21.2	21.7	21.9	21.7	21.9	22.2	22.4	23.2	23.4	23.6	23.8	/	28.3	28.3	28.2
		S/T	0.98	1	1	1	0.68	0.93	1	1	0.4	0.61	0.81	1	/	0.4	0.57	0.74
	KW	2.44	2.46	2.49	2.49	2.49	2.51	2.54	2.56	2.57	2.60	2.62	2.64	/	3.16	3.16	3.16	
	125	TC	16.5	16.7	17.1	17.3	17.1	17.3	17.4	17.6	18.5	18.6	18.6	18.6	/	19.8	19.8	19.8
		S/T	1	1	1	1	0.68	0.95	1	1	0.41	0.67	0.93	1	/	0.41	0.66	0.9
	KW	2.08	2.10	2.12	2.12	2.12	2.14	2.16	2.18	2.23	2.23	2.23	2.23	/	2.24	2.24	2.24	
960	15	TC	25.4	25.7	26.3	26.6	26.3	26.6	26.9	27.1	28.1	28.3	28.6	28.9	/	35.5	35.8	36
		S/T	0.98	0.99	1	1	0.67	0.9	0.97	1	0.39	0.6	0.8	0.99	/	0.38	0.55	0.71
	KW	1.10	1.11	1.12	1.12	1.12	1.13	1.14	1.15	1.15	1.16	1.18	1.19	/	1.68	1.71	1.73	
	65	TC	25.5	25.8	26.4	26.7	26.4	26.7	27	27.2	28.1	28.3	28.6	28.9	/	35.5	35.8	36
		S/T	0.98	0.99	1	1	0.67	0.9	0.97	1	0.39	0.6	0.8	0.99	/	0.38	0.55	0.71
	KW	1.40	1.41	1.43	1.43	1.43	1.45	1.47	1.48	1.48	1.49	1.51	1.52	/	2.00	2.04	2.06	
	75	TC	25.6	25.9	26.5	26.8	26.5	26.8	27	27.3	28.2	28.5	28.7	29	/	35.5	35.8	36.1
		S/T	0.97	0.99	1	1	0.67	0.9	0.97	1	0.39	0.59	0.8	1	/	0.38	0.55	0.71
	KW	1.65	1.66	1.68	1.68	1.68	1.70	1.71	1.73	1.73	1.75	1.77	1.78	/	2.18	2.22	2.24	
	85	TC	25.2	25.5	26.1	26.4	26.1	26.4	26.7	27	27.8	28.1	28.3	28.5	/	34.9	35.2	35.5
		S/T	0.97	0.99	1	1	0.67	0.9	0.97	1	0.39	0.6	0.8	1	/	0.38	0.55	0.71
	KW	1.80	1.83	1.85	1.85	1.85	1.86	1.88	1.90	1.91	1.93	1.94	1.95	/	2.42	2.44	2.47	
	95	TC	24.9	25.2	25.8	26.1	25.8	26.1	26.4	26.6	27.5	27.7	28	28.2	/	33.6	33.8	33.8
		S/T	0.97	0.99	1	1	0.67	0.9	0.97	1	0.39	0.6	0.81	0.99	/	0.38	0.56	0.73
	KW	2.14	2.16	2.18	2.18	2.18	2.20	2.24	2.26	2.26	2.28	2.30	2.32	/	2.80	2.80	2.80	
	105	TC	24.5	24.8	25.4	25.7	25.4	25.7	25.9	26.2	27.1	27.3	27.5	27.8	/	31.7	31.9	32
		S/T	0.98	1	1	1	0.69	0.93	1	1	0.4	0.62	0.84	1	/	0.4	0.59	0.77
	KW	2.52	2.55	2.57	2.57	2.57	2.61	2.64	2.66	2.67	2.69	2.71	2.73	/	3.09	3.09	3.09	
	115	TC	24.1	24.4	25	25.2	25	25.2	25.5	25.8	26.7	26.9	27.1	27.3	/	29.1	29.2	29.4
		S/T	0.99	1	1	1	0.7	0.93	1	1	0.4	0.63	0.84	1	/	0.4	0.61	0.81
	KW	2.99	3.02	3.05	3.05	3.05	3.08	3.11	3.14	3.15	3.18	3.22	3.24	/	3.28	3.29	3.29	
	125	TC	16.6	16.8	17.2	17.4	17.2	17.4	17.6	17.8	18.7	18.7	18.7	18.8	/	20	20	20
		S/T	1	1	1	1	0.73	0.93	1	1	0.41	0.73	1	1	/	0.42	0.73	1
	KW	2.19	2.23	2.25	2.25	2.25	2.27	2.29	2.32	2.36	2.36	2.36	2.36	/	2.37	2.37	2.37	

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 Outdoor Unit (BOVD20) + Indoor Unit (BVA20) – Heating Mode**

BOVD20-36 + BVA20-24 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	
550	60	TC	26.8	26.8	26.8	26.8	26.8	26.7	26.7	26.5	26.5	25.8	25.3	24.3	24.2	21.3	20.3	18.2	16.6	
		kW	0.90	1.20	1.31	1.44	1.59	1.71	1.86	2.00	2.21	2.26	2.57	2.48	2.41	2.33	2.25	2.19	2.13	
	70	TC	19.9	19.9	19.9	19.9	19.8	19.8	19.8	19.8	19.8	19.7	19.7	19.7	19.7	18.8	16.8	16.1	14.8	14.1
		kW	0.63	0.88	0.97	1.06	1.17	1.26	1.37	1.54	1.65	1.76	1.90	2.02	2.12	2.36	2.43	2.35	2.29	
	75	TC	16.4	16.4	16.3	16.3	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	15.3	15.3	14.3	14.0
		kW	0.61	0.73	0.81	0.88	0.96	1.06	1.16	1.25	1.37	1.48	1.57	1.70	1.81	1.92	2.09	2.28	2.38	
	80	TC	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.2	12.2	11.3	11.3
		kW	0.50	0.59	0.66	0.72	0.80	0.86	0.94	1.00	1.14	1.20	1.29	1.37	1.46	1.59	1.70	1.80	1.95	
620	60	TC	27.3	27.3	27.2	27.2	27.2	27.2	27.2	27.0	27.0	25.7	26.2	24.5	24.4	22.0	21.0	18.8	17.4	
		kW	0.90	1.21	1.31	1.44	1.60	1.71	1.86	2.02	2.23	2.22	2.52	2.44	2.36	2.29	2.22	2.15	2.10	
	70	TC	20.2	20.2	20.2	20.2	20.2	20.1	20.1	20.1	20.0	20.0	20.1	20.0	19.1	17.1	16.3	15.0	14.2	
		kW	0.64	0.89	0.96	1.05	1.16	1.25	1.37	1.53	1.65	1.76	1.88	2.03	2.20	2.38	2.39	2.31	2.25	
	75	TC	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.4	16.4	16.4	16.4	16.5	15.5	15.5	14.5	13.9
		kW	0.51	0.73	0.79	0.87	0.97	1.05	1.15	1.24	1.36	1.48	1.56	1.70	1.81	1.93	2.10	2.30	2.34	
	80	TC	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.0	13.0	13.0	13.0	13.0	13.0	13.0	12.4	12.4	11.5	11.5
		kW	0.40	0.58	0.64	0.70	0.78	0.84	0.93	1.02	1.13	1.19	1.28	1.36	1.45	1.58	1.70	1.82	1.96	
680	60	TC	29.9	29.9	29.9	29.9	29.9	29.8	29.7	29.7	27.8	26.0	26.6	24.8	24.7	22.2	21.2	19.0	17.5	
		kW	1.04	1.37	1.49	1.61	1.77	1.88	2.06	2.28	2.25	2.18	2.48	2.41	2.34	2.27	2.21	2.14	2.10	
	70	TC	22.2	22.2	22.2	22.2	22.2	22.1	22.1	22.1	22.0	22.0	22.0	22.0	21.0	18.8	18.0	16.5	15.7	
		kW	0.74	1.00	1.08	1.18	1.29	1.41	1.57	1.69	1.83	1.93	2.11	2.27	2.46	2.45	2.38	2.30	2.24	
	75	TC	18.2	18.2	18.2	18.2	18.2	18.2	18.2	18.1	18.1	18.1	18.1	18.1	18.1	18.0	17.1	17.1	15.2	14.1
		kW	0.60	0.82	0.89	0.97	1.08	1.17	1.27	1.37	1.54	1.63	1.75	1.87	1.99	2.15	2.34	2.40	2.33	
	80	TC	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4	13.7	13.6	12.6	12.6
		kW	0.47	0.66	0.72	0.79	0.87	0.94	1.05	1.13	1.24	1.31	1.41	1.50	1.63	1.74	1.82	2.01	2.17	
720	60	TC	32.7	32.7	32.7	32.7	32.7	32.4	32.4	30.4	28.2	26.1	26.9	25.0	24.8	22.3	21.4	19.0	17.7	
		kW	1.19	1.54	1.66	1.80	1.96	2.11	2.30	2.29	2.23	2.17	2.46	2.40	2.34	2.27	2.21	2.15	2.10	
	70	TC	24.3	24.3	24.3	24.3	24.3	24.2	24.2	24.1	24.1	24.0	24.0	24.0	22.9	20.5	19.6	17.5	16.2	
		kW	0.84	1.13	1.22	1.32	1.48	1.58	1.73	1.86	2.01	2.14	2.35	2.53	2.52	2.45	2.38	2.31	2.26	
	75	TC	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.8	19.8	19.8	19.8	19.7	19.7	18.7	18.1	15.5	14.3	
		kW	0.69	0.93	1.00	1.09	1.20	1.29	1.41	1.57	1.69	1.79	1.93	2.05	2.20	2.39	2.48	2.40	2.34	
	80	TC	15.8	15.8	15.8	15.8	15.8	15.8	15.7	15.7	15.7	15.7	15.7	15.7	15.7	14.9	14.8	13.9	13.9	
		kW	0.55	0.75	0.82	0.89	0.97	1.06	1.16	1.24	1.36	1.44	1.55	1.68	1.79	1.89	2.04	2.23	2.40	
960	60	TC	39.0	39.0	38.9	38.8	38.0	35.8	34.0	31.3	28.7	27.8	27.3	25.8	26.4	23.8	22.7	20.3	18.8	
		kW	1.66	1.96	2.11	2.30	2.41	2.36	2.36	2.30	2.24	2.21	2.49	2.44	2.38	2.33	2.27	2.23	2.19	
	70	TC	29.1	29.1	29.1	29.1	29.1	29.0	29.0	28.7	28.2	27.4	27.0	25.2	26.2	23.5	22.4	20.0	18.5	
		kW	1.35	1.45	1.58	1.70	1.85	1.98	2.14	2.31	2.45	2.40	2.69	2.63	2.56	2.50	2.44	2.38	2.33	
	75	TC	24.0	24.0	24.0	24.0	23.9	23.9	23.9	23.8	23.8	23.7	23.7	23.7	23.1	20.3	18.6	15.9	14.8	
		kW	0.98	1.20	1.30	1.41	1.52	1.67	1.81	1.94	2.08	2.20	2.39	2.57	2.67	2.60	2.53	2.47	2.42	
	80	TC	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.1	19.0	19.0	18.8	17.9	17.9	15.8	14.6	
		kW	0.79	0.99	1.07	1.15	1.26	1.35	1.45	1.55	1.72	1.81	1.95	2.06	2.18	2.35	2.54	2.56	2.50	

Table 6

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

BOVD20-36 + BVA20-36 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	
700	60	TC	29.6	29.6	29.6	29.6	29.6	29.3	29.2	29.3	29.3	29.3	29.3	27.7	25.9	26.9	24.8	22.9	17.7	
		kW	1.10	1.46	1.61	1.74	1.89	2.02	2.20	2.53	2.77	2.98	3.28	3.21	3.18	3.89	3.76	3.62	3.50	
	70	TC	22.8	22.8	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.5	22.4	22.4	22.4	22.5	25.2	24.1	22.2	17.1
		kW	0.84	1.08	1.20	1.30	1.43	1.54	1.67	1.92	2.08	2.19	2.41	2.60	2.90	3.98	4.06	3.91	3.78	
	75	TC	19.1	19.1	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	18.8	18.9	21.2	21.2	21.2	17.0
		kW	0.74	0.92	1.00	1.09	1.20	1.30	1.42	1.59	1.73	1.88	2.04	2.15	2.39	3.29	3.57	3.92	3.95	
	80	TC	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.6	15.5	15.5	15.5	15.5	15.5	15.6	17.3	17.3	17.3	13.6
		kW	0.69	0.74	0.82	0.90	0.99	1.07	1.16	1.32	1.46	1.54	1.66	1.78	1.96	2.64	2.88	3.17	3.17	
820	60	TC	34.0	34.0	34.0	33.7	33.7	33.6	33.6	33.7	32.2	30.2	30.1	28.2	26.2	27.3	25.2	23.2	18.1	
		kW	1.45	1.74	1.89	2.03	2.22	2.40	2.62	3.01	3.03	2.94	3.22	3.12	3.11	3.81	3.68	3.57	3.48	
	70	TC	26.0	26.0	26.0	26.0	26.0	26.0	25.9	25.9	25.9	25.9	25.9	25.9	25.7	26.7	24.4	22.7	17.6	
		kW	1.04	1.30	1.43	1.56	1.68	1.83	1.99	2.21	2.43	2.60	2.84	3.08	3.37	4.12	3.97	3.84	3.74	
	75	TC	21.9	21.9	21.9	21.9	21.9	21.8	21.8	21.7	21.8	21.6	21.6	21.6	21.7	24.3	24.2	22.2	17.2	
		kW	0.98	1.10	1.19	1.29	1.42	1.52	1.65	1.83	2.05	2.15	2.35	2.53	2.81	3.86	4.15	4.01	3.89	
	80	TC	18.0	18.0	18.0	18.0	18.0	17.9	17.9	18.0	17.9	17.9	17.9	17.9	17.8	20.0	20.0	20.1	16.9	
		kW	0.84	0.90	0.98	1.07	1.16	1.26	1.37	1.54	1.68	1.79	1.93	2.07	2.27	3.11	3.38	3.70	4.01	
960	60	TC	39.3	39.3	38.5	36.1	34.3	32.0	30.0	29.4	26.8	24.7	24.6	22.7	24.0	24.8	22.8	21.0	16.1	
		kW	1.62	2.18	2.24	2.18	2.16	2.10	2.09	2.26	2.20	2.14	2.39	2.32	2.48	3.06	2.96	2.88	2.82	
	70	TC	28.9	28.9	28.8	28.8	28.8	28.7	28.7	28.6	26.0	24.1	24.0	22.2	23.5	24.2	22.2	20.4	15.6	
		kW	1.07	1.43	1.55	1.72	1.90	2.08	2.28	2.52	2.43	2.36	2.62	2.55	2.70	3.33	3.24	3.12	3.06	
	75	TC	23.8	23.8	23.7	23.7	23.4	23.4	23.3	25.4	25.3	23.7	23.6	21.8	22.1	22.7	20.4	18.4	14.0	
		kW	0.83	1.15	1.25	1.40	1.48	1.64	1.81	2.28	2.52	2.49	2.76	2.67	2.84	3.49	3.38	3.28	3.19	
	80	TC	18.6	18.6	18.6	18.6	18.6	18.6	18.5	19.8	19.8	19.9	19.8	19.8	21.7	22.3	20.1	17.9	13.7	
		kW	0.62	0.89	0.96	1.08	1.17	1.31	1.44	1.76	1.95	2.11	2.34	2.55	2.98	3.64	3.54	3.41	3.33	
1150	60	TC	42.1	42.0	41.3	38.8	37.0	34.7	32.8	31.8	29.3	27.2	27.1	25.2	26.3	27.4	25.2	23.4	18.3	
		kW	1.84	2.40	2.46	2.40	2.38	2.32	2.30	2.50	2.44	2.38	2.63	2.56	2.74	3.39	3.30	3.21	3.15	
	70	TC	31.6	31.6	31.6	31.6	31.6	31.5	31.5	31.1	28.5	26.6	26.5	24.6	25.8	26.8	24.7	22.9	17.8	
		kW	1.28	1.65	1.77	1.94	2.11	2.29	2.49	2.76	2.67	2.60	2.86	2.79	2.97	3.65	3.57	3.45	3.39	
	75	TC	26.6	26.6	26.5	26.5	26.1	26.1	26.0	27.9	27.8	26.2	26.1	24.3	24.4	25.1	22.9	21.0	16.2	
		kW	1.05	1.37	1.47	1.61	1.70	1.85	2.03	2.52	2.76	2.73	3.00	2.91	3.10	3.82	3.70	3.60	3.53	
	80	TC	21.4	21.4	21.3	21.3	21.3	21.3	21.2	22.3	22.3	22.4	22.3	22.3	24.0	24.8	22.5	20.5	15.8	
		kW	0.84	1.10	1.18	1.29	1.39	1.53	1.66	2.00	2.19	2.35	2.58	2.79	3.24	3.98	3.87	3.76	3.65	
1300	60	TC	44.8	44.7	44.0	41.6	39.7	37.4	35.5	34.3	31.7	29.7	29.6	27.7	28.5	29.8	28.9	26.0	20.3	
		kW	2.05	2.61	2.67	2.61	2.60	2.54	2.52	2.74	2.68	2.62	2.87	2.80	3.01	3.72	3.63	3.54	3.48	
	70	TC	34.4	34.4	34.3	34.3	34.3	34.2	34.2	33.6	31.0	29.1	29.0	27.1	28.0	29.3	28.1	25.5	19.9	
		kW	1.50	1.86	1.98	2.16	2.33	2.51	2.71	3.00	2.91	2.84	3.10	3.02	3.23	4.00	3.89	3.79	3.72	
	75	TC	29.3	29.3	29.2	29.2	28.9	28.9	28.8	30.4	30.3	28.7	28.6	26.8	26.6	27.6	25.5	23.4	18.3	
		kW	1.27	1.59	1.68	1.83	1.92	2.07	2.24	2.76	3.00	2.97	3.24	3.15	3.37	4.15	4.05	3.93	3.86	
	80	TC	24.1	24.1	24.0	24.0	24.0	24.0	23.9	24.8	24.8	24.9	24.8	24.8	26.2	27.4	25.1	23.0	17.9	
		kW	1.05	1.32	1.40	1.51	1.60	1.74	1.87	2.24	2.43	2.59	2.82	3.02	3.51	4.31	4.21	4.08	4.00	

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

## 5 AHRI 210/240 Performance Data

### 5.1 SEER2 Data

System Configuration	Outdoor Unit Model	Indoor Unit Model	Furnace Model	Cooling Capacity (BTU/h)			Heating Capacity			CFM	
		Coils/Air Handlers		Total	EER <sup>2</sup>	SEER <sup>1</sup>	Hi	HSPF <sup>2</sup> <sup>3</sup>	Low <sup>4</sup>		
BOVD20 with BVA20	BOVD-36HDN1-M20G	BVA-24WN1-M20	/	24000	13	20	24000	9.5	22400	720/560	✱
	BOVD-36HDN1-M20G	BVA-36WN1-M20	/	34200	12	19	34200	9.5	28000	1170/880	✱
BOVD20 with Cased Coil Only	BOVD-36HDN1-M20G	BMAC2430ANTD	/	23200	12	15.2	24000	9	19400	750	✱
	BOVD-36HDN1-M20G	BMAC2430BNTD	/	23400	12	15.2	24000	9	19400	750	✱
	BOVD-36HDN1-M20G	BMAC3036ANTD	/	32000	10.6	15	34000	9	23400	900	
	BOVD-36HDN1-M20G	BMAC3036BNTD	/	32400	11	15	34200	9	23600	900	
	BOVD-36HDN1-M20G	BMAC3036CNTD	/	32600	11	15	34200	9	23600	1050	
	BOVD-36HDN1-M20G	BMAC4248BNTF	/	32000	11.5	15.2	34000	9	24600	1000	✱
	BOVD-36HDN1-M20G	BMAC4248CNTF	/	32400	11.5	15.2	34200	9	25000	1050	✱
	BOVD-36HDN1-M20G	BMAC4248DNTF	/	32600	11.5	15.2	34200	9	25000	1100	✱
BOVD20 with 96% Gas Furnace	BOVD-36HDN1-M20G	BMAC2430ANTD	BGH96M060B3B	23800	12	18	24000	9	19600	740/540	✱
	BOVD-36HDN1-M20G	BMAC2430ANTD	BGH96M080B3B	23800	12	18	24000	9	19600	750/560	✱
	BOVD-36HDN1-M20G	BMAC2430BNTD	BGH96M060B3B	24000	12	18.5	24000	9	20000	760/550	✱
	BOVD-36HDN1-M20G	BMAC2430BNTD	BGH96M080B3B	24000	12	18.5	24000	9	20000	750/560	✱
	BOVD-36HDN1-M20G	BMAC3036ANTD	BGH96M060B3B	32800	10.6	17.5	34000	9	25000	1090/840	✱
	BOVD-36HDN1-M20G	BMAC3036ANTD	BGH96M080B3B	32800	10.6	17.5	34000	9	25000	1050/840	✱
	BOVD-36HDN1-M20G	BMAC3036BNTD	BGH96M060B3B	33600	11	17.5	34200	9	25000	1120/870	✱
	BOVD-36HDN1-M20G	BMAC3036BNTD	BGH96M080B3B	33600	11	17.5	34200	9	25000	1060/850	✱
	BOVD-36HDN1-M20G	BMAC3036CNTD	BGH96M080C4B	33600	11	17.5	34200	9	25000	1100/870	✱
	BOVD-36HDN1-M20G	BMAC3036CNTD	BGH96M100C5B	33200	11.2	17.5	34200	9	25000	1000/780	✱
	BOVD-36HDN1-M20G	BMAC4248BNTF	BGH96M080B3B	33000	11.2	18.5	34200	9	25600	1100/880	✱
	BOVD-36HDN1-M20G	BMAC4248CNTF	BGH96M100C5B	33000	12	18.5	34200	9	25600	1060/840	✱


Table 8

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

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

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

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

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

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

## 6 Suction Corrected Factor

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

Table 9

Std: Standard size

Opt: Optional size



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

## 7 Sound Data

Model	Sound Power Level [dB(A)]	Full Octave Linear Sound Power Level dB - Center Frequency -Hz								Sound Power Level [dB(A)] with Sound Blanket
		100	125	250	500	1000	2000	4000	8000	
3 Ton	56 (Low)	26.1	28.9	37.5	44.4	48.1	42.5	47.1	40.7	Sound Blanket - Standard
	77 (High)	48.4	54.3	60.5	66.2	68.7	63.6	62.3	53.7	

Table 10 IDS Sound power level

**8 Dimensions**

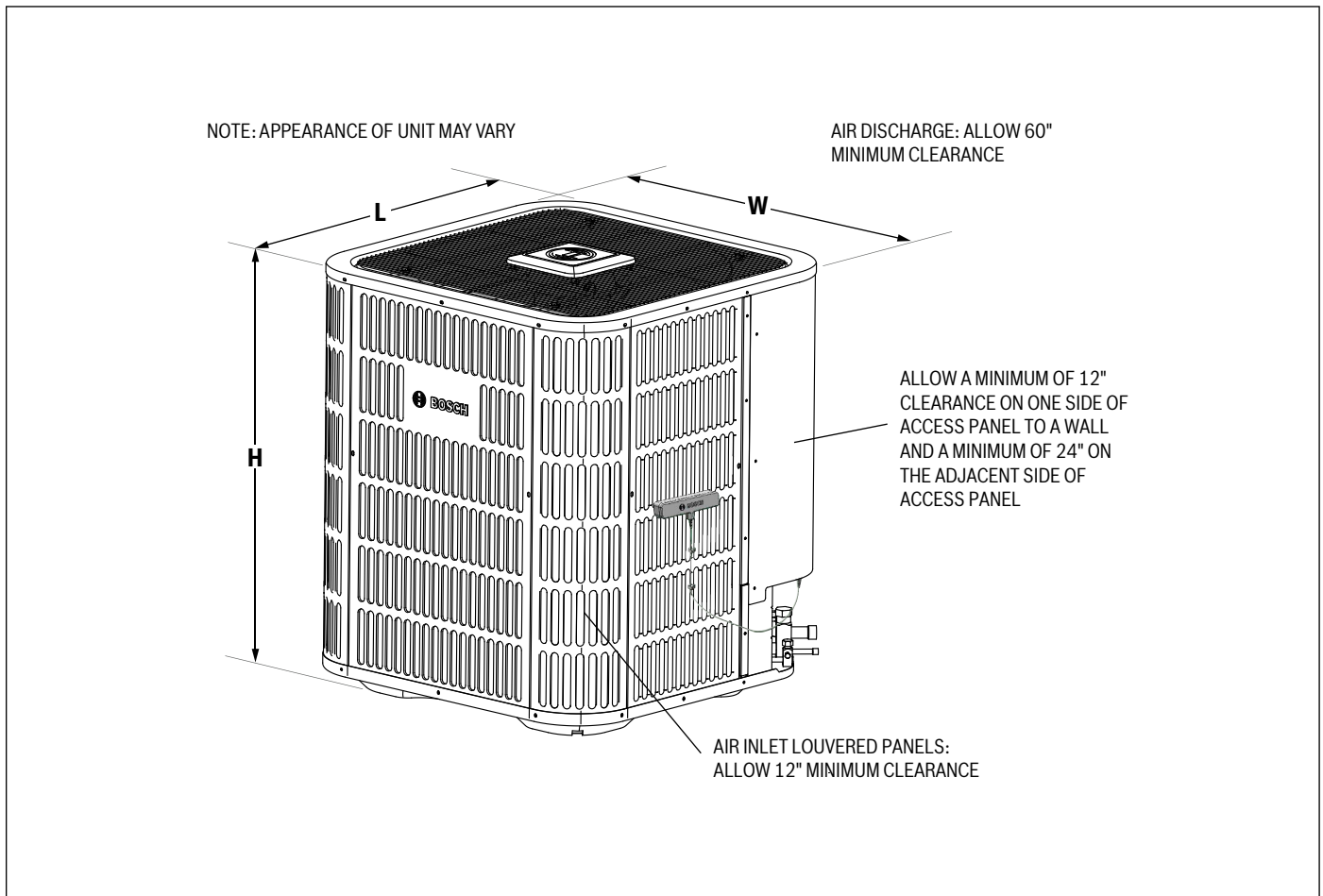


Figure 3

Model Size	Dimensions (Inches)		
	"H" in. [mm]	"W" in. [mm]	"L" in. [mm]
BOVD20-36	24-15/16 [633]	29-1/8 [740]	29-1/8 [740]

Table 11

**United States and Canada  
Bosch Thermotechnology Corp.  
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**BTC 761701325 A / 03.2024**

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