



# BOSCH

Invented for life

## Bosch Heat Pump IDS 2.0

### Inverter Ducted Split System 2.0

Everything you loved about IDS 1.0 but now even better with all AHRI certified BOVA2.0 + BVA2.0 combinations meeting ENERGY STAR requirements and offering enhanced humidity control features. Choose the best, choose Bosch!







# Maximum Comfort, Minimum Energy!

## Bosch Inverter Ducted Split System IDS 2.0

The Bosch Inverter Ducted Split system provides supremely-efficient comfort by adjusting compressor capacity rather than a simple on/off control like other units, thereby reducing operating costs and saving you money. With enhanced humidity control and higher efficiency, the performance of the IDS 2.0 system provides you with maximum comfort with minimum energy usage! The system's intelligent features work in tandem with your thermostat to automatically adjust to your preferences, while integrated sound dampening features keep the units nice and quiet for your peace of mind.

### Features

- ▶ Premium efficiency – Up to 20.5 SEER and 10.5 HSPF
- ▶ 10 speed ECM outdoor blower for whisper quiet and efficient operation – as low as 56 dBA<sup>(1)</sup>
- ▶ Two stage x13 ECM blower for enhanced humidity control
- ▶ Easy to install – compatible with most standard 24 VAC heat pump thermostats
- ▶ 10-year Residential Limited Warranty<sup>(2)</sup>
- ▶ All AHRI certified BOVA2.0 + BVA2.0 combinations meet the requirements for ENERGY STAR
- ▶ There are 2,3,4, & 5 ton ENERGY STAR rated systems available when paired with Bosch 96% Furnaces\*
- ▶ Aluminum evaporator coil for superior corrosion resistance
- ▶ Compatible with the Bosch Connected Control (BCC) Thermostat family\*



Outdoor Condensing Section



Indoor Air Handler

(1) 56 dBA sound level is based on outdoor unit. (2) Please go to [boschheatingandcooling.com](http://boschheatingandcooling.com) for full limited warranty details \*Product sold separately

## Consistent Room Temperature

Conventional heat pumps frequently cycle on and off, resulting in uncomfortable temperature fluctuations. IDS 2.0 inverter-driven heat pumps are able to self-adjust, providing consistent room temperature, even when the outdoor temperature dips to -4° F.

## Consume Only the Energy You Need

Modulating inverter systems deliver only the amount of hot or cool air needed to achieve the desired temperature – no more, no less. With up to 20.5 SEER and 10.5 HSPF, the Inverter Ducted Split system can provide you with maximum comfort levels at a minimum cost.

## Quiet Comfort Achieved

The Bosch Inverter Ducted Split system is one of the quietest air-to-air heat pumps on the market. Through the use of silent blade technology, sound isolating mounts and outdoor condensing section placement - the system can deliver outdoor sound levels as low as 56 dBA - which is far superior to any standard system on the market.

## Residential Limited Warranty<sup>(2)</sup>

With the residential limited warranty, you receive peace-of-mind knowing you will receive replacement parts protection for up to 10 years. This standard offering covers all components incorporated into the heat pump system at the time of manufacture. All other components or parts that are purchased from Bosch and installed in the field have a 1-year parts warranty.

## Fast Response

It takes traditional systems a long time to reach the homeowner's desired temperature, while the boosted compressor speed of inverter systems allows for quicker, smoother and more efficient heating and cooling.

## Intelligent Control

The system will adjust the output capacity to match your ideal temperature requirements. Also, with a two speed AHU fan control, the system delivers enhanced humidity control.

## Energy Use is Even and Steady

The frequent on and off of traditional units creates an in-rush current surge which uses more energy and causes unneeded wear and tear on your system. The Bosch inverter system smoothly ramps up operation, avoiding spikes in energy use and protecting the system's life-cycle.

**10 Year  
Warranty**





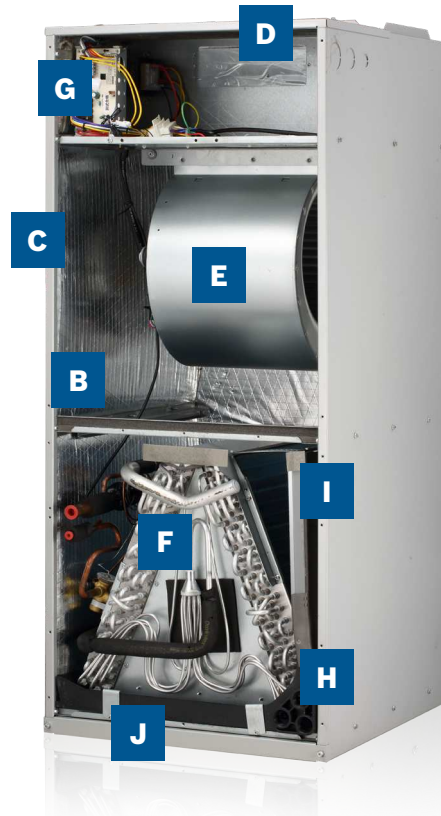
# IDS 2.0 Components

## Features & Benefits



### Bosch IDS 2.0 High-Efficiency Outdoor Condensing Section (BOVA Model)

- A** Intelligent control features help adjust the output capacity allowing the unit to keep the temperature at your desired level without fluctuation and to keep humidity in check during the summer months. Whether it be the summer or winter, the system keeps your home comfortable and the living conditions to your desired taste.
- ▶ The air coil design provides exceptional heat transfer and low air-resistance for high-efficiency operation that can help lower your energy costs.
  - ▶ The direct-drive fan blades provide vortex suppression to reduce sound of airflow exiting the condensing section, thereby retaining relatively low noise at high speed - with sound levels as low as 56 dBA.
  - ▶ The high-efficiency variable capacity inverter compressor can adjust to any speed between 36% and 130% (in 1% increments), to perfectly cool and heat your home using minimal energy for maximum comfort.
  - ▶ The condensing units come standard with an electronic expansion valve (EEV) to ensure proper refrigerant flow during all conditions in order to optimize the unit's process to the highest efficiency possible.



### Bosch IDS 2.0 Robust & Reliable Indoor Air Handler (BVA Model)

- B** Material – Foil faced insulation material on the inner walls decreases energy loss and eliminates condensation.
- C** Cabinets – Painted galvanized steel cabinet is salt spray tested for improved durability and corrosion-resistance.
- D** Electric Heat – Can accommodate electric heat with no modification to the cabinet for additional heat on-demand when you need it most.
- E** Two stage ECM motor – Indoor blower stages up and down to provide enhanced comfort, energy savings, and superior humidity control.
- F** All-Aluminum Coil – With excellent heat transfer, efficiency, and humidity removal, the A-coil is more durable and has a lower chance of refrigerant leakage compared to typical copper coils.
- G** Control Board Pocket – A dedicated slot for the control board protects it from humidity in the airstream and extends its lifetime.
- H** Integrated Drain Pan - Made from corrosion-resistant composite material, gently sloped to eliminate standing water.
- I** Secondary Drain Pan – Flexibility for VT or HZ applications.
- J** Filter Rack – Factory reserved, provides convenience for field installation and serviceability.



# Be Comfortable Every Season!

## The Complete & Highly Efficient Dual Fuel Heating and Cooling System For Your Home



### Bosch's IDS 2.0 Unit

The robust Bosch Inverter Ducted Split Air Source Heat Pump system utilizes just the right amount of energy to achieve ultimate comfort and maximum efficiency while keeping sound levels to a minimum.



### Bosch's Cased Coil\*

The Inverter Ducted Split Evaporator Coil, when paired with a Bosch Furnace and IDS outdoor condensing section, delivers some of the best comfort levels and efficiency on the market today. Bosch offers a complete range of evaporator coils to fit your needs.



### Bosch's BGH96 Furnace\*

The BGH96 Gas Furnace is Bosch's first condensing furnace. Offering up to 96% efficiency, a two-stage gas valve, and a multi-speed blower, this ENERGY STAR rated furnace offers premium comfort and energy savings.



### Bosch's BCC100\*

The BCC100 is a sleek, internet-connected thermostat that offers easy all-in-one control for your heating and cooling systems. It can be controlled using the Bosch Connected Control app and is compatible with most 24VAC HVAC equipment on the market.

\*Product sold separately



## Bosch IDS 2.0 | Simply Smart

- ▶ 20.5 SEER and 10.5 HSPF
- ▶ ENERGY STAR rated
- ▶ Fully-modulating inverter drive
- ▶ Sound levels as low as 56 dBA
- ▶ 4 Air handlers – 2, 3, 4, 5 Ton
- ▶ 2 Condensing units – 3 and 5 Ton
- ▶ Compatible with most 24 VAC thermostats
- ▶ All aluminum evaporator coil
- ▶ Operates in heating down to -4° F
- ▶ Operates in cooling up to 125° F
- ▶ Up to 150 ft lineset
- ▶ Bosch quality
- ▶ 10-year residential limited warranty\*

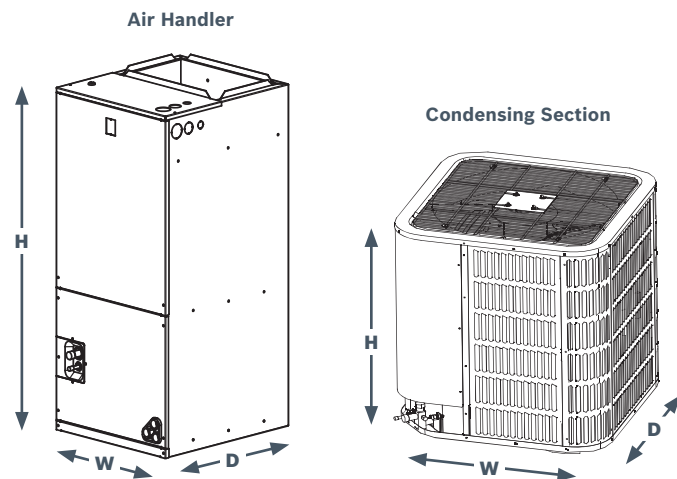
## Field Friendly

- ▶ Designed for easy installation
- ▶ Simple to set up
- ▶ Intuitive controls
- ▶ Support readily available
- ▶ Field installed electric heater kits

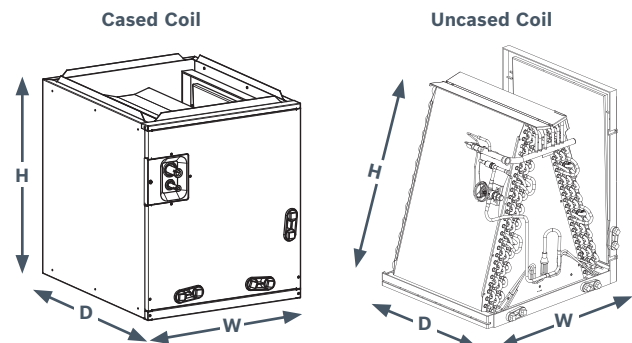
## Bosch IDS 2.0

The robust Bosch Inverter Ducted Split 2.0 air-source heat pump system utilizes just the right amount of energy to achieve ultimate comfort and maximum efficiency while keeping sound levels to a minimum.

## System & Technical Information



AIR HANDLER 2.0 DIMENSIONS (IN INCHES)				
MODEL SIZE	PART NUMBER	WIDTH (W)	HEIGHT (H)	DEPTH (D)
024	8733952439	19.625	46.5	21.625
036	8733952440	19.625	46.5	21.625
048	8733952441	22.0	54.5	24.0
060	8733952442	22.0	54.5	24.0
CONDENSING SECTION 2.0 DIMENSIONS (IN INCHES)				
MODEL SIZE	PART NUMBER	WIDTH (W)	HEIGHT (H)	DEPTH (D)
036	8733952437	29.125	24.9375	29.125
060	8733952438	29.125	33.1875	29.125



CASED COIL DIMENSIONS (IN INCHES)				
MODEL NUMBER	PART NUMBER	WIDTH (W)	HEIGHT (H)	DEPTH (D)
BMAC2430ANTD	8733947947	14.5	20.0	21.0
BMAC2430BNTD	8733947948	17.5	20.0	21.0
BMAC3036ANTD	8733947950	14.5	20.0	21.0
BMAC3036BNTD	8733947951	17.5	20.0	21.0
BMAC3036CNTD	8733947952	21.0	20.0	21.0
BMAC4248BNTF	8733947953	17.5	30.0	21.0
BMAC4248CNTF	8733947954	21.0	30.0	21.0
BMAC4248DNTF	8733947955	24.5	30.0	21.0
BMAC4860CNTF	8733947956	21.0	30.0	21.0
BMAC4860DNTF	8733947957	24.5	30.0	21.0
UNCASED COIL DIMENSIONS (IN INCHES)				
CORRESPONDING MODEL NUMBER	WIDTH (W)	HEIGHT (H)	DEPTH (D)	
BMAC2430ANTD	13.375	15.625	20.5	
BMAC2430BNTD	16.375	15.375	20.5	
BMAC3036ANTD	13.375	15.625	20.5	
BMAC3036BNTD	16.375	15.375	20.5	
BMAC3036CNTD	19.875	15.25	20.5	
BMAC4248BNTF	16.375	26.88	21.0	
BMAC4248CNTF	19.875	26.8	21.0	
BMAC4248DNTF	23.625	26.6	21.0	
BMAC4860CNTF	19.875	27.0	21.0	
BMAC4860DNTF	23.625	26.8	21.0	

\*Please go to [boschheatingandcooling.com](http://boschheatingandcooling.com) for full limited warranty details

BOSCH BOVA MODEL OUTDOOR UNIT		
MODEL NUMBER	PART NUMBER	DESCRIPTION
BOVA-36HDN1-M20G	8733952437	36 kBTU/hr (3 ton), Condensing Unit 2.0
BOVA-60HDN1-M20G	8733952438	60 kBTU/hr (5 ton), Condensing Unit 2.0
BOSCH BVA MODEL AIR HANDLER		
BVA-24WN1-M20	8733952439	24 kBTU/hr (2 ton), Air Handler Unit 2.0
BVA-36WN1-M20	8733952440	36 kBTU/hr (3 ton), Air Handler Unit 2.0
BVA-48WN1-M20	8733952441	48 kBTU/hr (4 ton), Air Handler Unit 2.0
BVA-60WN1-M20	8733952442	60 kBTU/hr (5 ton), Air Handler Unit 2.0

FIELD INSTALLED ELECTRIC HEAT KITS		
MODEL NUMBER	PART NUMBER	DESCRIPTION
EHK-05B	7739832075	5 kW Electric Strip heater
EHK-08B	7739832076	7.5 kW Electric Strip heater
EHK-10B	7739832077	10 kW Electric Strip heater
EHK-15B	7739832078	15 kW Electric Strip heater
EHK-20B	7739832079	20 kW Electric Strip heater

INVERTER DUCTED SPLIT AHRI 210/240 PERFORMANCE DATA								
OUTDOOR UNIT MODEL	INDOOR AIR HANDLER MODEL	COOLING CAPACITY (BTU/H)			HEATING CAPACITY (BTU/H)			CFM
		TOTAL	EER <sup>(3)</sup>	SEER <sup>(4)</sup>	HI	HSPF <sup>(5)</sup>	LOW	
BOVA-36HDN1-M20G	BVA-24WN1-M20	24000	14	20.5	24000	10.5	23000	860/680
BOVA-36HDN1-M20G	BVA-36WN1-M20	34600	12.5	20	34200	10.5	28000	1150/820
BOVA-60HDN1-M20G	BVA-48WN1-M20	47500	13.5	20	48000	10.5	40000	1530/1150
BOVA-60HDN1-M20G	BVA-60WN1-M20	54500	12.5	19	56000	10.5	44000	1750/1350

INVERTER DUCTED SPLIT + CASED COIL ONLY AHRI 210/240 PERFORMANCE DATA								
OUTDOOR UNIT MODEL	CASED COIL MODEL	COOLING CAPACITY (BTU/H)			HEATING CAPACITY (BTU/H)			CFM
		TOTAL	EER <sup>(3)</sup>	SEER <sup>(4)</sup>	HI	HSPF <sup>(5)</sup>	LOW	
BOVA-36HDN1-M20G	BMAC2430ANTD	23400	11.8	16	23400	9.5	18000	750
BOVA-36HDN1-M20G	BMAC2430BNTD	23600	11.8	16	23800	9.5	18000	800
BOVA-36HDN1-M20G	BMAC3036ANTD	32000	10.8	16	33600	9.5	22000	900
BOVA-36HDN1-M20G	BMAC3036BNTD	32400	11.2	16	33800	9.5	23000	1000
BOVA-36HDN1-M20G	BMAC3036CNTD	32600	11.4	16	34000	9.5	23000	1050
BOVA-36HDN1-M20G	BMAC4248BNTF	33000	11.2	16	33800	9.5	24000	1000
BOVA-36HDN1-M20G	BMAC4248CNTF	33200	11.2	16	34200	9.5	24000	1050
BOVA-36HDN1-M20G	BMAC4248DNTF	33400	11.2	16	34200	9.5	24000	1100
BOVA-60HDN1-M20G	BMAC4248BNTF	43000	11.2	16	45500	9.5	31400	1200
BOVA-60HDN1-M20G	BMAC4248CNTF	44000	11.8	16	46500	9.5	32000	1350
BOVA-60HDN1-M20G	BMAC4248DNTF	45000	11.8	16	47500	9.5	32000	1450
BOVA-60HDN1-M20G	BMAC4860CNTF	55000	10.5	16	55500	9.5	38000	1350
BOVA-60HDN1-M20G	BMAC4860DNTF	56000	10.5	16	56000	9.5	39000	1500

INVERTER DUCTED SPLIT + CASED COIL + 96% FURNACE AHRI 210/240 PERFORMANCE DATA										
SYSTEM TONNAGE	OUTDOOR UNIT MODEL	CASED COIL MODEL	PAIRING FURNACES	COOLING CAPACITY (BTU/H)			HEATING CAPACITY (BTU/H)			CFM
				TOTAL	EER <sup>(3)</sup>	SEER <sup>(4)</sup>	HI	HSPF <sup>(5)</sup>	LOW	
2	BOVA-36HDN1-M20G	BMAC2430ANTD	BGH96M060B3A	24000	13	18.5	24000	10	18000	820/630
	BOVA-36HDN1-M20G	BMAC2430ANTD	BGH96M080B3A	24000	13	18.5	24000	10	18000	800/580
	BOVA-36HDN1-M20G	BMAC2430BNTD	BGH96M060B3A	24000	13.5	19	24000	10	19000	860/680
	BOVA-36HDN1-M20G	BMAC2430BNTD	BGH96M080B3A	24000	13.5	19	24000	10	19000	840/630
3	BOVA-36HDN1-M20G	BMAC3036ANTD	BGH96M060B3A	32200	11.2	17	34000	10	25000	1050/800
	BOVA-36HDN1-M20G	BMAC3036ANTD	BGH96M080B3A	32200	11.2	17	34000	10	25000	1020/800
	BOVA-36HDN1-M20G	BMAC3036BNTD	BGH96M060B3A	33000	11.6	17.5	34200	10	25000	1100/850
	BOVA-36HDN1-M20G	BMAC3036BNTD	BGH96M080B3A	33000	11.6	17.5	34200	10	25000	1070/850
	BOVA-36HDN1-M20G	BMAC3036CNTD	BGH96M080C4A	33600	12	18	34200	10	25000	1050/820
	BOVA-36HDN1-M20G	BMAC3036CNTD	BGH96M100C5A	33600	12	18	34200	10	25000	1150/750
	BOVA-36HDN1-M20G	BMAC4248BNTF	BGH96M080B3A	33000	12.5	18.5	34200	10	26000	1000/850
	BOVA-36HDN1-M20G	BMAC4248CNTF	BGH96M100C5A	33000	12.5	18.5	34200	10	26000	1100/800
4	BOVA-60HDN1-M20G	BMAC4248BNTF	BGH96M080B3A	43000	11.2	18	45000	9.5	34000	1250/1050
	BOVA-60HDN1-M20G	BMAC4248CNTF	BGH96M080C4A	44000	12	18.5	46000	10	35000	1250/1050
	BOVA-60HDN1-M20G	BMAC4248CNTF	BGH96M100C5A	45000	12.5	18.5	46500	10	35000	1450/1150
	BOVA-60HDN1-M20G	BMAC4248DNTF	BGH96M100D5A	45500	12.5	18.5	47000	10	35000	1500/1200
	BOVA-60HDN1-M20G	BMAC4248DNTF	BGH96M120D5A	45500	12.5	18.5	47000	10	35000	1500/1200
5	BOVA-60HDN1-M20G	BMAC4860CNTF	BGH96M100C5A	52000	12	18	53500	10	37000	1450/1150
	BOVA-60HDN1-M20G	BMAC4860DNTF	BGH96M100D5A	52000	12.5	18.5	54000	10	38000	1500/1200
	BOVA-60HDN1-M20G	BMAC4860DNTF	BGH96M120D5A	52000	12.5	18.5	54000	10	38000	1500/1200

Blue Text = ENERGY STAR Certified. (3) Energy Efficiency Ratio; Certified per AHRI 210/240. (4) Seasonal Energy Efficiency Ratio; Certified per AHRI 210/240. (5) HSPF = Heating Seasonal Performance Factor; Certified per AHRI 210/240. Note: Always check the rating plate for electrical data on the unit being installed. The listed data is for reference only. Please consult [boschheatingandcooling.com](http://boschheatingandcooling.com) for further details.

# About **Bosch**

## **Bosch Group**

The Bosch Group is a leading global supplier of technology and services in the areas of Automotive, Industrial Technology, Consumer Goods and Building Technology. The company was founded in Stuttgart, Germany, in 1886 and presently has more than 440 subsidiaries and is represented in over 150 countries.

In the U.S., Canada and Mexico, the Bosch Group manufactures and markets automotive original equipment and aftermarket solutions, industrial drives and control technology, power tools, security and communication systems, packaging technology, thermotechnology, household appliances and software solutions. The Bosch Group's products and services are designed to improving quality of life by providing innovative and beneficial solutions. In this way, the company offers technology worldwide that is "Invented for life." Additional information is available online at [boschheatingandcooling.com](http://boschheatingandcooling.com) and [bosch.ca](http://bosch.ca).

## **Bosch Thermotechnology in North America**

Bosch Thermotechnology is a leading source of high quality water heating and comfort systems. The company offers gas tankless, electric whole house and point-of-use water heaters, Bosch and Buderus floor-standing and wall mounted boilers, Bosch and FHP geothermal, water-source and air-source systems as well as controls and accessories for all product lines. Bosch Thermotechnology is committed to being Simply Smart by offering products that work together as integrated systems that enhance quality of life in an ultra-efficient and environmentally friendly manner. For more information, visit [boschheatingandcooling.com](http://boschheatingandcooling.com).

## **Bosch Water-Source Heat Pumps: Made in the U.S.A.**

Bosch and FHP water-source and geothermal heat pumps are made by highly trained and skilled workers in our factory based in Fort Lauderdale, Florida. They are manufactured with rigorous standards and factory testing ensuring high efficient operation over the life of the unit. Bosch's ISO 9001 and ISO 14001 certified facilities provide consistent quality in every unit built.



Heating



Cooling



Hot Water



Controls

### **Bosch Thermotechnology Corp.**

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