



**BOSCH**

Invented for life

## Bosch Heat Pump IDS 1.0

Inverter Ducted Split System 1.0

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.





# The Comfort Your Home is Waiting For

## Bosch Inverter Ducted Split System IDS 1.0

The Bosch Inverter Ducted Split system provides supremely-efficient comfort by adjusting operating speeds rather than a simple on/off control like other units, thereby reducing operating costs and saving you money. These robust and durable units are made with the Bosch quality you expect and deserve. The system's intelligent features work in tandem with your thermostat to automatically learn your preferences, while integrated sound dampening features keep the units nice and quiet for your peace of mind.

### Features

- ▶ Ultra-efficient inverter drive system delivers up to 18.5 SEER outperforming less efficient 1 and 2-stage systems
- ▶ Variable capacity control to precisely match the cooling/heating load - no more no less
- ▶ One of the quietest and most compact air-to-air systems with outdoor sound levels as low as 56 dBA<sup>(1)</sup>
- ▶ Delivers ultimate comfort through stable room temperature using your choice of thermostat
- ▶ 10-year Parts Residential Limited Warranty<sup>(2)</sup>
- ▶ Smoothly ramps up operation, which avoids spikes in energy use and protects the system's life-cycle
- ▶ Compatible with the Bosch Connected Control (BCC) Thermostat family\*
- ▶ Pairs with Bosch 96% Gas Furnace\*, reaching ENERGY STAR in some combinations



Outdoor Condensing Section

Indoor Air Handler

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



## Why Bosch Inverter Ducted Split System

### Consistent Room Temperature

Conventional heat pumps frequently cycle on and off, resulting in uncomfortable temperature fluctuations. While inverter-driven pumps are able to self-adjust, providing consistent room temperature, even when the outdoor temperature dips to 5°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 an 18.5 SEER and 9.5 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 systems 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

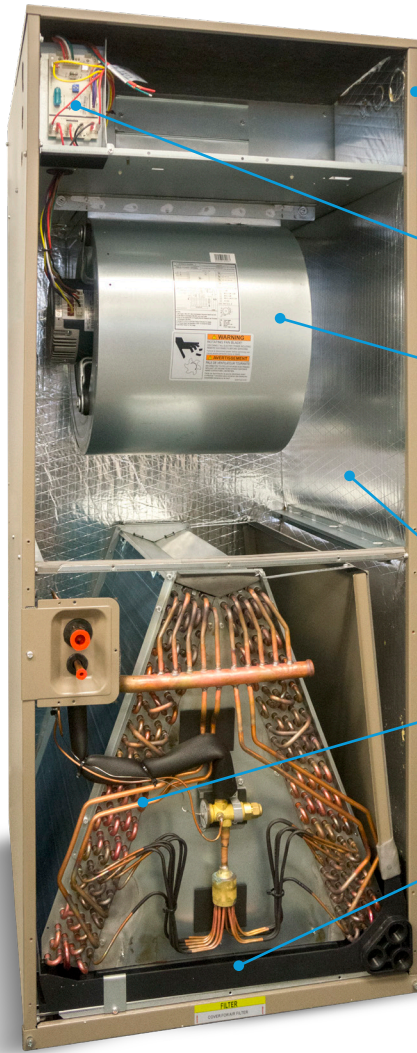
The system, along with an appropriate thermostat, can learn your preferences and adjust the output capacity to match your ideal temperature levels. The units are also compatible with most traditional 24 VAC thermostats

### 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.



## Robust & Reliable Indoor Air Handler (BVA Model)

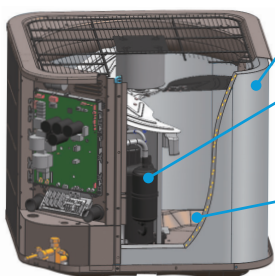


- Bosch offers a complete range of air handler units from 2 through 5 ton sizes. These units are robust and constructed with a commercial-grade, powder-coated steel for durability. The unit comes standard for upflow applications. These cabinets are field convertible for horizontal right, horizontal left, or downflow/counterflow applications.
- Electric heat can be added to the air handler for additional heat on-demand when you need it most.
- The blower motor is a constant torque ECM motor and comes standard in all unit size. These intuitive motors can deliver comfortable air flow at quiet sound levels, while adapting to changing conditions in your home. Additionally, the unit is a true modulating unit by varying the compressor speed for smooth temperature transitions and ultimate humidity control within the home.
- Foil faced insulation helps to prevent fibers from entering the air stream and prevents energy loss through the cabinet.
- The A-Coil is a specifically designed evaporator coil shape that has a low static pressure drop and high efficiency heat transfer capabilities along with latent heat (humidity) removal.
- Bosch's A-Coil includes two drain pans to accommodate vertical or horizontal installation. Auxiliary drain connections are available should local code require an auxiliary drain pan. The drain pans are made of corrosion-resistant composite material for strength and durability rated to withstand 400° F. For your protection, both drain pans have also been tested to resist UVC light.

## High-Efficiency Outdoor Condensing Section (BOVA Model)



- 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 26% and 110% (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.



Note: Plenum section may be required based on flow configuration.



# Be Comfortable Every Season!

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



**A**

### Bosch's IDS 1.0 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.



**B**

### 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.



**C**

### 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.



**D**

### 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 | Simply Smart

- ▶ 18.5 SEER / 9.5 HSPF
- ▶ 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
- ▶ Operates in heating down to 5° F
- ▶ Bosch quality
- ▶ 10-year residential limited warranty\*

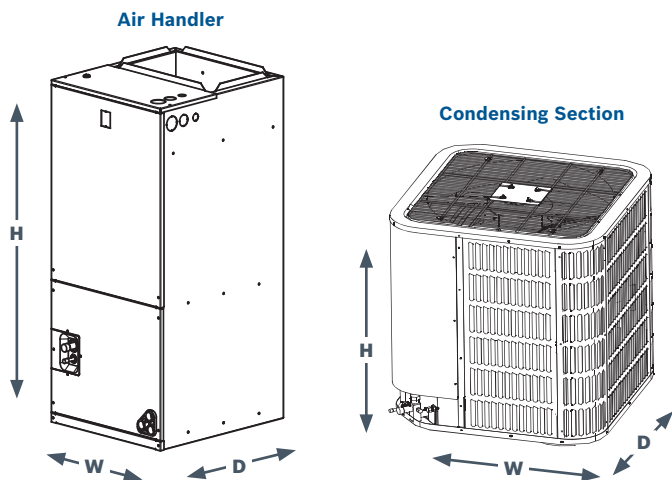
## Field Friendly

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

**Bosch IDS**  
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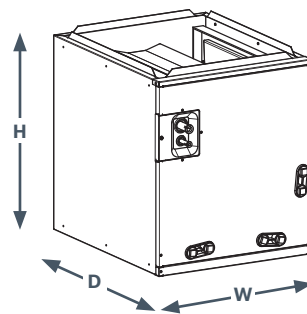
## System & Technical Information



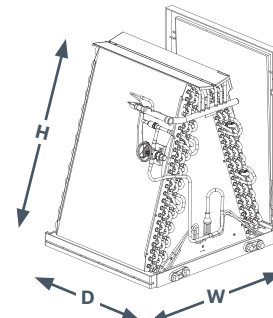
AIR HANDLER DIMENSIONS (IN INCHES)				
MODEL SIZE	PART NUMBER	WIDTH (W)	HEIGHT (H)	DEPTH (D)
024	7739832071	19.625	46.5	21.625
036	7738005278	19.625	46.5	21.625
048	7739832073	22.0	54.5	24.0
060	7739832074	22.0	54.5	24.0

CONDENSING SECTION DIMENSIONS (IN INCHES)				
MODEL SIZE	PART NUMBER	WIDTH (W)	HEIGHT (H)	DEPTH (D)
036	7739832068	29.125	24.9375	29.125
060	7739832070	29.125	33.1875	29.125

Cased Coil



Uncased Coil



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
BMAC4248DNF	8733947955	24.5	30.0	21.0
BMAC4860CNTF	8733947956	21.0	30.0	21.0
BMAC4860DNF	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
BMAC4248DNF	23.625	26.6	21.0
BMAC4860CNTF	19.875	27.0	21.0
BMAC4860DNF	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-M18M	7739832068	36 kBTU/hr (3 ton), Condensing Unit
BOVA-60HDN1-M18M	7739832070	60 kBTU/hr (5 ton), Condensing Unit
BOSCH BVA MODEL AIR HANDLER		
BVA-24WN1-M18	7739832071	24 kBTU/hr (2 ton), Air Handler Unit
BVA-36WN1-M18	7738005278	36 kBTU/hr (3 ton), Air Handler Unit
BVA-48WN1-M18	7739832073	48 kBTU/hr (4 ton), Air Handler Unit
BVA-60WN1-M18	7739832074	60 kBTU/hr (5 ton), Air Handler Unit

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-M18M	BVA-24WN1-M18	24000	13	18.5	24000	9.5	19000	800
BOVA-36HDN1-M18M	BVA-36WN1-M18B	34600	11.4	17.5	34200	9	24000	1120
BOVA-60HDN1-M18M	BVA-36WN1-M18B	35200	12.5	18.5	35200	10.5	24000	1120
BOVA-60HDN1-M18M	BVA-48WN1-M18	47000	12.5	18.5	46500	9.5	35000	1560
BOVA-60HDN1-M18M	BVA-60WN1-M18	57000	11.2	17.5	55000	9.5	40000	1700

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-M18M	BMAC2430ANTD	23400	11.5	15	24000	9	17200	700
BOVA-36HDN1-M18M	BMAC2430BNTD	23400	11.5	15	24000	9	17200	700
BOVA-36HDN1-M18M	BMAC3036ANTD	32000	10	14.5	35000	9	22000	900
BOVA-36HDN1-M18M	BMAC3036BNTD	32400	10	14.5	35000	9	23000	1000
BOVA-36HDN1-M18M	BMAC3036CNTD	32400	10	14.5	35000	9	23000	1000
BOVA-36HDN1-M18M	BMAC4248BNTF	32400	10	15	35000	9	23000	1000
BOVA-36HDN1-M18M	BMAC4248CNTF	32400	10	15	35000	9	23000	1000
BOVA-60HDN1-M18M	BMAC4248BNTF	44500	11	16	45500	9.5	31000	1150
BOVA-60HDN1-M18M	BMAC4248CNTF	46000	11	16	47000	9.5	32000	1300
BOVA-60HDN1-M18M	BMAC4248DNTF	46000	11	16	48000	9.5	32000	1400
BOVA-60HDN1-M18M	BMAC4860CNTF	54000	10.5	16	55500	9.5	32000	1300
BOVA-60HDN1-M18M	BMAC4860DNTF	55000	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-M18M	BMAC2430ANTD	BGH96M060B3A	23600	12.5	18	24000	9.5	17200	820/630
	BOVA-36HDN1-M18M	BMAC2430ANTD	BGH96M080B3A	23600	12.5	18	24000	9.5	17200	800/580
	BOVA-36HDN1-M18M	BMAC2430BNTD	BGH96M060B3A	24000	12.5	18	24000	9.5	17200	860/680
	BOVA-36HDN1-M18M	BMAC2430BNTD	BGH96M080B3A	24000	12.5	18	24000	9.5	17200	840/630
3	BOVA-36HDN1-M18M	BMAC3036ANTD	BGH96M060B3A	33000	10.5	16.5	34200	9	22600	1050/800
	BOVA-36HDN1-M18M	BMAC3036ANTD	BGH96M080B3A	33000	10.5	16.5	34200	9	22600	1020/800
	BOVA-36HDN1-M18M	BMAC3036BNTD	BGH96M060B3A	33600	10.6	16.5	34200	9	23000	1100/850
	BOVA-36HDN1-M18M	BMAC3036BNTD	BGH96M080B3A	33600	10.6	16.5	34200	9	23000	1070/850
	BOVA-36HDN1-M18M	BMAC3036CNTD	BGH96M080C4A	34000	10.6	16.5	34200	9	23000	1050/820
	BOVA-36HDN1-M18M	BMAC3036CNTD	BGH96M100C5A	34000	10.6	16.5	34200	9	23000	1150/750
4	BOVA-60HDN1-M18M	BMAC4248BNTF	BGH96M080B3A	43000	10.5	17.5	45500	9	31000	1250/1050
	BOVA-60HDN1-M18M	BMAC4248CNTF	BGH96M080C4A	43000	11	18	45500	9	31000	1250/1050
	BOVA-60HDN1-M18M	BMAC4248CNTF	BGH96M100C5A	45000	11.2	18	47000	9	31400	1450/1150
	BOVA-60HDN1-M18M	BMAC4248DNTF	BGH96M100D5A	45500	11.2	18	47000	9	32000	1500/1200
	BOVA-60HDN1-M18M	BMAC4248DNTF	BGH96M120D5A	45500	11.2	18	47000	9	32000	1500/1200
5	BOVA-60HDN1-M18M	BMAC4860CNTF	BGH96M100C5A	52500	10	17	53500	9.5	37000	1450/1150
	BOVA-60HDN1-M18M	BMAC4860DNTF	BGH96M100D5A	53000	10.5	17.5	54000	9.5	38000	1500/1200
	BOVA-60HDN1-M18M	BMAC4860DNTF	BGH96M120D5A	53000	10.5	17.5	54000	9.5	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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