



# **BOSCH**

Invented for life

## **Bosch Gas Furnace**

BGH96 Series | 96% AFUE

The Bosch BGH96 gas furnace delivers 96% efficiency while providing the comfort homeowners need. This ENERGY STAR rated furnace offers a two-stage gas valve and multi-speed blower, providing superior efficiency and energy savings.







# The Furnace Your Home Is Waiting For

## Bosch BGH96 Furnace<sup>1</sup>

Introducing Bosch's first condensing furnace, the BGH96 Series. With 96% AFUE heating efficiency and a multipoise design, it is the perfect solution to efficiently heat your home. The multipoise design makes it even easier to replace your existing equipment or install them in your new home. You can also integrate the Bosch BGH96 Furnace with Bosch's IDS Outdoor Units and Cased Coils\* for a complete and highly efficient heating and cooling system. Between ease of installation, integration and troubleshooting, this Bosch Furnace offers convenience and peace of mind.

### Features

- ▶ Up to 96% AFUE heating efficiency, ENERGY STAR rated
- ▶ 5-year parts limited warranty, 20 year heat exchanger limited warranty<sup>§</sup>
- ▶ Reliable, proven two-stage design
- ▶ 3-way multipoise design allows for flexibility in multiple types of installations, available in upflow (right or left return) and horizontal orientations
- ▶ Field convertible gas type for hassle-free installation, all furnaces come standard with a natural gas to propane gas conversion kit
- ▶ 2 stage x13 ECM motors for all models for quiet and efficient operation
- ▶ Hot-surface ignition for dependable operation
- ▶ Durable aluminized steel tubular heat exchanger and stainless-steel secondary heat exchanger
- ▶ Pairs with Bosch BOVB18 or BOVA20 heat pump, reaching up to 19 SEER
- ▶ Low profile cabinet construction allows for installation in tight spaces. Convenient left or right-hand connection for gas and electric service. The cabinet is painted galvanized steel with an anti-rust coating, that passes a 500 hours salt spray test
- ▶ LED fault diagnostics for quick and easy service calls



\*IDS Outdoor Units (BOVA Models) and Cased Coils (BMAC Models)

<sup>§</sup>10 year limited parts warranty and lifetime warranty on heat exchangers, both if registered within 60 days of installation, please go to [boschheatingandcooling.com](http://boschheatingandcooling.com) for full limited warranty details

(1) NOTICE: This product is not to be sold or installed in the State of California in the South Coast Air Quality Management District or San Joaquin Valley Air Basin territory.

# Why Choose The Bosch BGH96 Furnace

## Savings

Homeowners will see the savings on their energy bills by converting up to 96% of the fuel purchased to heat their home. The furnace's two-stage gas valve switches between high and low fire settings, allowing enhanced comfort and more efficient operation than single stage technology.

## System Efficiency

Dual fuel systems are the ideal solution to maximize comfort and efficiency. Bosch offers a complete dual fuel system with the Bosch Inverter Ducted Split (IDS) heat pump, Bosch BMAC cased coil, Bosch 96% AFUE Gas Furnace and the Bosch Connected Control thermostat. In the summer, the Bosch IDS efficiently cools and dehumidifies your home. In the shoulder seasons, the IDS system will provide the exact amount of heating or cooling that your home requires, no more, no less. In the colder months, the system senses when it is more economical for the heat pump to shut off and the Bosch BGH96 gas furnace to take over. Installing a Bosch matched dual fuel system is the best choice to optimize both savings and comfort.

## Residential Limited Warranty\*\*

With the residential limited warranty, you receive peace-of-mind knowing you will receive replacement parts protection for up to 5 years and up to 20 years on the heat exchanger. This offering covers all components incorporated into the BGH96 Furnace 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.

**20 Year**  
Heat Exchanger  
Warranty



\*\*10 year limited parts warranty and lifetime warranty on heat exchangers, both if registered within 60 days of installation, please go to [boschheatingandcooling.com](https://www.boschheatingandcooling.com) for full limited warranty details





# Be Comfortable No Matter The Season!

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



A

### Bosch BGH96 96% Furnace\*

The BGH96 Gas Furnace offers 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, it is the perfect solution to efficiently heat your home.



B

### Bosch BMAC Cased Coil\*

The Inverter Ducted Split Cased 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 cased coils to fit your needs.



C

### Bosch BOVB18 or BOVA20 Outdoor 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. Choose between the BOVB18 or the BOVA20 for maximum efficiency.



D

### Bosch BCC100 Wi-fi Thermostat\*

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.

BOVB18 + CASED COIL + 96% FURNACE AHRI 210/240 Performance Data										
SYSTEM	OUTDOOR UNIT	CASED COIL	FURNACE MODEL	HEAT PUMP COOLING CAPACITY (BTU/HR)			HEAT PUMP HEATING CAPACITY (BTU/HR)			CFM
				TOTAL	EER***	SEER****	HI	HSPF*****	LOW	
2 Ton	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 Ton	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 Ton	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 Ton	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

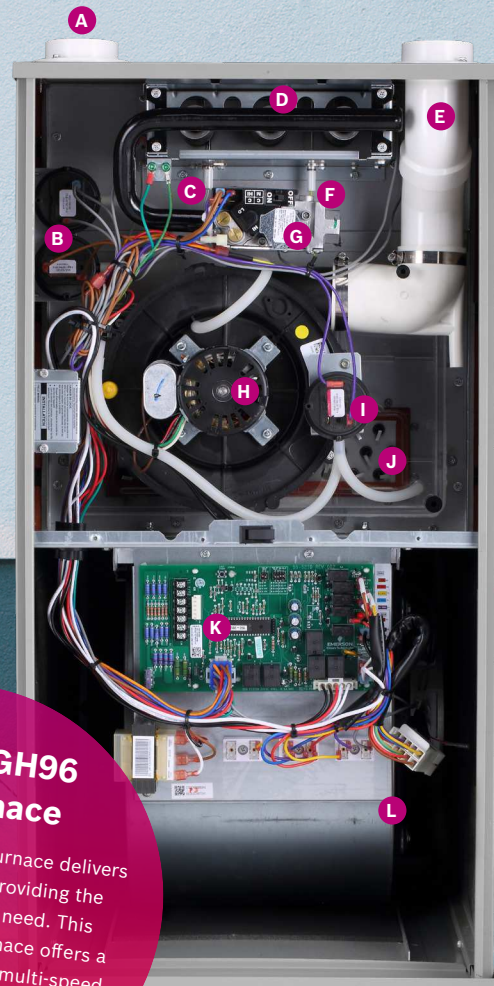
BOVA20 + CASED COIL + 96% FURNACE AHRI 210/240 PERFORMANCE DATA										
SYSTEM	OUTDOOR UNIT	CASED COIL	FURNACE MODEL	HEAT PUMP COOLING CAPACITY (BTU/HR)			HEAT PUMP HEATING CAPACITY (BTU/HR)			CFM
				TOTAL	EER***	SEER****	HI	HSPF*****	LOW	
2 Ton	BOVA-36HDN1-M20G	BMAC2430ANTD	BGH96M060B3A	24000	13	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 Ton	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 Ton	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 Ton	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. \*\*\*Energy Efficiency Ratio; Certified per AHRI 210/240 \*\*\*\*Seasonal Energy Efficiency Ratio; Certified per AHRI 210/240 \*\*\*\*\*HSPF = Heating Seasonal Performance Factor; Certified per AHRI 210/240



## Know Your Components\*

- |  |                                     |
|--|-------------------------------------|
| <b>A</b> Air Intake                      | <b>G</b> Gas Valve                  |
| <b>B</b> High/Low Fire Pressure Switches | <b>H</b> Inducer                    |
| <b>C</b> Ignitor                         | <b>I</b> Condensate Overflow Switch |
| <b>D</b> Burners                         | <b>J</b> Secondary Heat Exchanger   |
| <b>E</b> Flue                            | <b>K</b> Control Board              |
| <b>F</b> Flame Sensor                    | <b>L</b> Blower Motor               |




### Bosch BGH96 Gas Furnace

The Bosch BGH96 gas furnace delivers 96% efficiency while providing the comfort homeowners need. This ENERGY STAR rated furnace offers a two-stage gas valve and multi-speed blower, providing superior efficiency and energy savings.



# System & Technical Information

Technical Specifications	Unit		BGH96M060B3A	BGH96M080B3A	BGH96M080C4A	BGH96M100C5A	BGH96M100D5A	BGH96M120D5A
Bosch Part Number	-		7-738-006-496	7-738-006-497	7-738-006-498	7-738-006-499	7-738-006-500	7-738-006-501
Cabinet Size (W)	Inch		17.5		21		24.5	
Cabinet Size (DxH)	Inch		(28-1/2) x (33-3/4)					
Fuel Type	-		Natural Gas/Propane Gas*					
AFUE	%		96					
ENERGY STAR Rating	-							
Input	NG/LP (High)	Btu/h	60000	80000	80000	100000	100000	120000
	NG/LP (Low)	Btu/h	39000	52000	52000	65000	65000	78000
Output	NG/LP (High)	Btu/h	57000	76000	76000	95000	95000	115000
	NG/LP (Low)	Btu/h	37000	49000	49000	62000	62000	75000
Air Temperature Rise	°F		30-60	35-65				40-70
Design Max. Outlet Air Temperature	°F		160	165				170
Certified EXT Static Pressure	Heating	in. WC	0.12	0.15	0.15	0.2	0.2	0.2
	Cooling	in. WC	0.5	0.5	0.5	0.5	0.5	0.5
Tons AC @ 0.5" ESP	Tons		1.5/2/2.5/3		2.5/3/3.5/4	3.5/4/4.5/5		
Power Supply	V/Hz/PH		115V/60HZ/1PH					
Max Overcurrent Protection (MOP)	Amps		15			20		
Blower Motor Full Load	Amps		8	8	7.8	11.5	10.5	10.5
Circulating Blower Motor	Type	-	x13 ECM					
	Diameter Blower	Inch	12 3/8		12 3/4			
	Height Blower	Inch	8		11 1/4			
Motor Speeds	Number of Speeds		5					
	Speed Settings		High/Mid-High/Mid/Mid-Low/Low					
	RPM		1050 (rated)					
Power Input	(High)	W	63±10%					
	(Low)	W	37±10%			42±10%		
Circuating Fan Motor	Motor Horsepower	HP	3/4			1		
Max.Inlet Gas Pressure	Natural Gas	in. WC	10.5					
	Propane Gas (LP)	in. WC	13					
Min.Inlet Gas Pressure	Natural Gas	in. WC	4.5					
	Propane Gas (LP)	in. WC	11					
Natural Gas Working Pressure	in. WC		High Fire:3.5   Low Fire:1.6					
Propane Gas Working Pressure	in. WC		High Fire:10   Low Fire:4					
Natural Gas Orifice (0-2000 Feet)	#		45					
Propane Gas Orifice (0-2000 Feet)	#		55					
Number of Burners	-		3	4	4	5	5	6
Primary Heat Exchanger Diameter	Inch		1 3/4					
Primary Heat Exchanger	# Tubes		3	4	4	5	5	6
Secondary Heat Exchanger Diameter	Inch		3/8					
Secondary Heat Exchanger	# tubes		33	33	39	39	48	48
Pressure Switch Factory Setting	(High)	in. WC	1.1					
	(Low)	in. WC	0.55					
Rollout Switch - Resettable	Off/On	°F	300					
Inlet High Temp Limit Switch - Fixed	Off/On	°F	150/120	130/100	150/120			
Gas Connection Size	in. NPT		1/2					
Ignitor Type	-		Hot surface					
Net Weight	lb		135	141	152	162	170	174

\* All units come standard with a natural gas to propane gas conversion kit.

# 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.

Watertown, MA • Londonderry, NH • Ft. Lauderdale, FL  
General Inquiries: 1-866-642-3198

Copyright © 2020 Bosch Thermotechnology Corp.  
All rights reserved. Subject to change without notice.