



Residential Geothermal Heat Pumps

Geo 1000 WA

Geothermal Heating & Cooling



BOSCH
Invented for life

Why Bosch Geothermal Heat Pumps?

Our Geothermal Heat Pump systems are the most energy and cost efficient systems on the market and therefore the greenest technology for heating and cooling. This technology uses the relatively constant temperature of the earth which makes it extremely efficient all year long in virtually any temperature.

Advantages of Bosch's Geothermal Systems

Environmentally Friendly

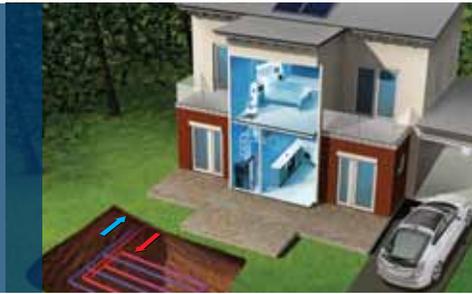
Bosch's green technology is the most environmentally friendly way to cool and heat your home. The system has no carbon dioxide emissions or any other negative effects on the environment. Bosch's geothermal installations have the effect of reducing greenhouse gas emissions which are responsible for climate change.

Reliability

Ground loop systems have a life expectancy in excess of 50 years. Your Bosch heat pump is manufactured with rigorous standards ensuring a high efficient operation over the life of the unit. Our residential warranty offer is among the best you will find on the market.

Lower Operating Cost

Bosch's technology helps to save up to 70% on your energy bills for heating, cooling and hot water because of the more efficient operation compared to conventional systems. Simple payback could be as short as 5 to 7 years and you can experience costs savings from the beginning.



Cooling mode



Heating mode

About the Bosch Group

The Bosch Group has been a leading global supplier of technology and services in the areas of Automotive, Industrial Technology, Consumer Goods and Building Technology for over 100 years. The company was founded in Stuttgart, Germany in 1886 and today has more than 300 subsidiaries in over 150 countries. Every Bosch product is built with one goal in mind; to enhance quality of life by providing innovative technological solutions. Environmental stewardship inspires and drives Bosch product development. Bosch is a leader in the creation of next-generation technologies that deliver improved performance and efficiency while conserving natural resources.

Bosch Thermotechnology in North America

Bosch Thermotechnology is a leading source of high quality water heating and comfort heating systems. In particular, the company offers Bosch tankless, point-of-use water heaters, Bosch solar thermal systems, Buderus floor-standing and wall-hung boilers, Bosch geothermal heat pumps as well as controls and accessories for every product line. Bosch Thermotechnology is committed to reinventing energy efficiency by offering smart products that work together as integrated systems which enhance quality of life in an ultra-efficient and environmentally friendly manner.

New! BP Bosch Series

Benefits

More Value for your Money

Lowering your monthly utility bills has never been easier with Bosch's Energy Star rated BP Series heat pumps. This single stage geothermal heat pump unit offers best-in-class energy efficiency and lower operating costs, providing you the ultimate value for your money. Compared to other manufacturers' single stage products, you need much less energy on the front end to achieve the output in the heating or cooling mode of operation.



Space Savings

Often installed in closets or above dropped ceilings, these heat pump units offer the best space savings on the market today. Available in ½ through 6 tons, in either vertical or horizontal configurations, the small footprint frees-up valuable living space, making your home a more comfortable place to live.



Quality

The unit features a standard stainless steel drain pan to ensure trouble free condensate removal for the life of the unit. Rigorous factory along with Bosch's 40 years of experience in designing geothermal heat pumps are your assurance of a state of the art quality product. Bosch's ISO 9001-2008 certified facilities provide consistent quality in every unit we build.



Tax Credit for Geothermal Heat Pumps

As of December 1, 2009, home owners who install ENERGY STAR qualified geothermal heat pumps are eligible for a 30% tax credit on the investment in the geothermal system including installation costs. There is no cap on the federal tax credit. New requirements for water-to-air and direct geo-exchange GHP models will take effect on January 1, 2011. Even more stringent levels will go into effect for water-to-water and water-to-air models on January 1, 2012.



30% Tax Credit
Now Available

For more information please visit
www.bosch-climate.us



Key Features

BP **New!** SERIES

Standard

-  Filter Drier
-  Floating Base Pan
-  Service Connections
-  R410-A Refrigerant
-  PSC and ECM Motors*
-  Coaxial Heat Exchanger Copper
-  Coated Air Coils
-  Blower Housing
-  Unit Protection Module 1
-  Four Sided Filter Rack

-  Foil Faced Insulation
-  Stainless Steel Drain Pan
-  TXV Valve
-  Scroll Compressor**
-  Rotary Compressor**

Optional

-  Coaxial Heat Exchanger Cupronickel
-  Hot Gas Reheat
-  Desuperheater***
-  Geothermal



- * BP007 - 012 PSC Motor
BP015 - 070 ECM Motor
- ** BP024 - 070 Scroll Compressor
BP 007 - 018 Rotary Compressor
- *** BP024

For full description of features please visit www.bosch-climate.us, where you will also find helpful tools like our savings calculators and learn more about the most efficient technology for heating and cooling your home.

Financing Information

The smarter way to heat and cool your home is more affordable than ever thanks to special financing options. Qualified homeowners can choose from a variety of loans with a low fixed rate or established fixed monthly rates towards the installation and purchase of Bosch Geothermal Heat Pumps. Depending on model and installation costs, homeowners may be able to borrow as little as \$2,500 or up-to \$20,000 with a 10-year repayment window. A Bosch approved contractor must perform the installation in order to be eligible for the financing. For a complete listing of Bosch installers in your area, log onto www.bosch-climate.us



Additional benefits of financing include:

- ▶ No lien requirements filed on your home
- ▶ No home equity required at the time of application
- ▶ No points, fees, or closing costs associated with the loan process
- ▶ No prepayment penalty
- ▶ Fast, preferred rate unsecured financing
- ▶ New homeowners welcomed

APR, actual rate and payment subject to credit approval by AFC First. Rates subject to change. All loans are made directly to the consumer by AFC First Financial Corporation or Nova Bank on behalf of AFC First.

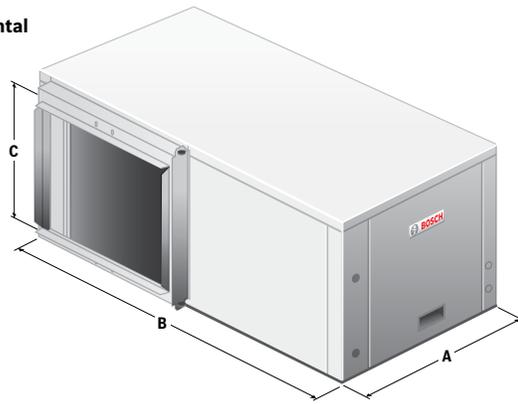
BP SERIES



Vertical



Horizontal



Model	Dimensions					
	Vertical/Counterflow			Horizontal		
	A (width)	B (depth)	C (height)	A (width)	B (depth)	C (height)
BP007	21.50	21.50	32.75	21.50	43.00	17.00
BP009	21.50	21.50	32.75	21.50	43.00	17.00
BP012	21.50	21.50	32.75	22.00	45.00	19.50
BP015	21.50	21.50	39.50	22.00	45.00	19.50
BP018	21.50	21.50	39.50	22.00	45.00	19.50
BP024	21.50	26.25	47.50	26.00	54.50	22.00
BP030	24.25	33.50	47.50	30.00	68.00	22.00
BP036	24.25	33.50	47.50	30.00	68.00	22.00
BP042	26.00	33.50	58.50	30.00	79.00	22.00
BP048	26.00	33.50	58.50	30.00	79.00	22.00
BP060	26.00	33.50	66.50	30.00	89.00	22.00
BP070	26.00	33.50	66.50	30.00	89.00	22.00

ARI/ISO 13256-1 Performance Data													
Model	Fluid Flow Rate	Entering Water Temperatures											
		Water Loop (WLHP)				Ground Water (GWHP)				Ground Loop (GLHP)			
		86°F		68°F		59°F		50°F		77°F		32°F	
		Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP	Cooling Capacity	EER	Heating Capacity	COP
BP007	2.0	6,800	15.70	8,800	5.70	8,400	25.1	7,000	4.9	7,400	18.50	5,100	3.50
BP009	2.5	9,000	16.20	11,200	5.50	10,500	25.5	9,000	4.5	9,500	19.30	6,800	3.60
BP012	4.0	12,200	14.90	16,500	5.10	14,600	22.7	13,000	4.3	13,000	17.50	10,000	3.60
BP015	4.0	15,200	17.50	17,500	5.60	17,000	28.8	13,000	4.6	16,200	20.60	11,000	3.90
BP018	5.0	19,500	16.40	23,500	5.30	21,300	25.6	17,700	4.5	20,500	19.00	14,800	3.80
BP024	6.0	24,500	18.20	28,500	5.70	28,400	28.1	23,700	4.6	26,000	21.10	18,000	4.00
BP030	7.0	27,000	16.60	31,000	5.90	31,700	27.0	25,000	5.2	28,500	19.40	20,500	4.30
BP036	10.0	36,000	17.20	41,000	5.60	40,200	25.9	34,400	4.9	37,500	19.70	28,000	4.10
BP042	10.5	40,600	17.90	42,000	5.90	46,200	25.7	35,000	4.4	42,000	21.20	28,000	4.10
BP048	12.0	48,000	17.10	50,000	5.30	53,600	25.5	40,500	4.3	50,200	19.80	33,400	3.70
BP060	15.0	62,000	17.10	72,000	5.80	67,600	24.4	56,700	4.9	64,500	19.50	47,000	4.30
BP070	17.0	68,000	16.20	86,000	5.60	71,400	22.4	71,400	5.0	70,500	18.50	56,500	4.20

Follow The Leader

Bosch's Limited Residential Warranty* Coverage for your Geothermal Heat Pump

Your Bosch Geothermal Heat Pump system is a smart investment not only in clean and renewable energy, but also in your future - which is the reason why our geothermal heat pump products, engineered with more than 40 years of experience, come with a warranty you can rely on.

With the limited residential 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 unit cabinet at the time of manufacture. Other components or parts that are purchased from FHP/Bosch and installed in the field have a 1 year replacement parts warranty** from proof of certificate of occupancy date or proof of certified start up date.

Additionally, a standard 10 year labor-allowance*** is included for the replacement of any defective component to help offset labor expenses if a component should fail. This is the freedom consumers expect when purchasing products listed in the Energy Star program.

After all, you bought the best - the ultimate freedom the Bosch brand offers.

Bosch Group's Limited Residential Warranty* includes the following:

Components

- ▶ Compressor: 10 years
- ▶ Refrigerant circuit: 10 years
- ▶ All other internal parts assembled by Bosch: 10 years

Labor allowance***

- ▶ Refrigeration circuit parts: 10 years
- ▶ All other internal parts: 10 years

If you are ready for the peace-of-mind that Bosch's warranty coverage provides, it is easy to get started. Take the First Step and contact a Bosch Group certified representative near you. For a contractor listing go to www.bosch-climate.us.



**For complete Warranty details please review the warranty card provided with the product or visit www.bosch-climate.us.

Bosch system integration

reinventing energy efficiency



Bosch Tankless Water Heaters

Whether you are building your dream home or simply remodeling your current home, there's a Bosch tankless water heater designed for your needs. Every unit delivers ultra high efficiency and is built to stringent Bosch quality standards. With a Bosch tankless water heater you will get an endless supply of hot water and can cut your current water heating bill in half.



Bosch Solar Thermal Systems

Bosch solar hot water solutions bring the first-class technology, innovation, reliability, quality and environmental sustainability that Bosch is known for world-wide, to the next level. These systems are designed for superior energy efficiency. This is especially true when combined with a Bosch high efficiency tankless water heater as a back-up system. There is no better choice for your home than a solar thermal system from Bosch to reduce your energy expenses and your carbon foot print.



Bosch Controls

We supply a wide selection of advanced controls to ensure that your heating and domestic hot water system delivers high efficiency and reliable heating year after year. Bosch controls give the heating engineer quick and easy access to all functions of the heating system and also allows the integration of multiple heating products.



Buderus Boilers

Our extensive boiler line includes energy efficient cast iron boilers, as well as the very latest aluminum condensing boilers and multiple boiler cascade systems for maximum energy efficiency.



Bosch Geothermal Heat Pumps

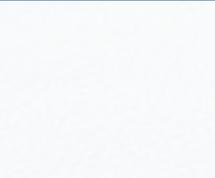
Our high efficiency water source heat pump systems provide the most flexible and lowest installation costs of virtually any HVAC system. These systems are the most energy and cost efficient systems on the market making them the greenest technology and the smartest investment for residential heating and cooling applications.



Geothermal, solar, tankless and boiler solutions from Bosch

Bosch is committed to reinventing energy efficiency by offering smart geothermal, solar, tankless and boiler products that produce domestic hot water and indoor comfort solutions. Bosch products work alone or together as an integrated system to provide contractors, mechanical engineers and architects the opportunity to customize unique energy efficient systems for your home.

To learn more about these products and Bosch systems visit the Energy Efficiency Home at www.bosch-climate.us



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