

Home Comfort Group



**BOSCH**

## Bosch RP Split Heat Pump

Our highly efficient cooling and heating water source heat pump for your home





# Efficient Comfort, Smart Savings

## Bosch Geothermal RP Split System

The RP Split Model is our premium, high efficiency, residential water source heat pump, available in sizes of 2 to 5 tons to suit your needs. The highly efficient, compact, and quiet RP Split unit boasts a two-stage scroll compressor for superior comfort and efficiency. The RP Split System is a ENERGY STAR® for smart savings and maximum home comfort. The RP Split meets the criteria for a lower global warming potential A2L refrigerant.

### 30% Geothermal Tax Credit

Being Green Means Saving Green  
Homeowners who install Bosch ENERGY STAR® qualified geothermal heat pumps could qualify for up to 30% on the cost of installation. Visit our website to find available tax credits and rebates on select Bosch products in your area.

### Limited Residential Warranty

Coverage for your Geothermal Heat Pump

**You receive peace-of-mind knowing you will receive replacement parts protection for up to 10 years.**

This warranty covers all components incorporated into the unit cabinet at the time of manufacture. Many models also come with a standard 10 year labor-allowance included for the replacement of any defective component to help offset labor expenses if a component should fail.<sup>§</sup>



## Features

### Two-Stage Scroll Compressor

Available in 2 to 5-ton capacities, the two-stage scroll compressor ensures optimized comfort and energy efficiency by matching output to demand.

### Compact Cabinet Design

Built with space savings in mind, the RP unit features a low-profile, compact footprint that's ideal for tight installation spaces.

### Quiet Operation

With sound levels as low as 51 dB, the RP Split keeps noise to a minimum. The unit comes equipped with 1/2" close-cell foam insulation to enhance thermal efficiency and reduce cabinet noise..

### Pump/Valve Relay Included

Pre-installed for seamless integration and simplified installation.

### 1/2" Closed-Cell Foam Insulation

Enhances thermal efficiency and reduces cabinet noise, further improving indoor comfort.

### Heat Recovery Package (HRP)

This optional feature enables your heat pump to heat domestic hot water, reducing the amount of electricity or fossil fuels otherwise used for your hot water.

### Factory Provided Filter Drier

A filter drier is provided to help protect critical components of the refrigerant system.

### Copper or Cupro-Nickel Coax Coil

Cupro-nickel is recommended in conditions anticipating moderate scale formation or open loop applications.

### Eco-Friendly Refrigerant

The RP unit uses R-454B refrigerant, chosen for its lower global warming potential (GWP), helping meet evolving environmental standards.

### 10-Year Limited Warranty

Backed by Bosch for peace of mind and long-term reliability.

### Bosch Quality

Bosch products are built using top-grade materials and are tested to meet the highest standards for performance and sustainability. Bosch has been producing products since 1886. Choose comfort, choose Bosch comfort solutions!

## Versatile Applications

### Air Handler Pairing

Optimized for pairing with the Bosch BIVA20 variable-speed air handler for superior indoor comfort control.

### Dual-Fuel Ready

Can also be matched with the Bosch BMAC cased coils for dual-fuel applications, allowing for flexible system design in various climates.

The Bosch RP split condenser is the ideal solution for homeowners seeking efficient, quiet, and future-forward heating and cooling performance. Designed with flexibility in mind, this unit is perfect for both retrofit and new construction applications.





## Flexibility That Fits Your Home

The split design allows the air handler and condensing section to be installed separately, ideal for tight closets or challenging retrofit scenarios. Compact cabinet sizing, front water connections, and multiple air handler mounting options (vertical, horizontal, or downflow) give installers more control and convenience, without compromising performance.

## A System from a Brand You Trust

Whether it's paired with Bosch's versatile BIVA20 air handler, a BMAC cased coil, or a dual-fuel furnace, the RP Split system integrates seamlessly with a variety of components to build a high-performance HVAC solution tailored to your space. With Bosch's legacy of innovation dating back to 1886, you can count on long-term reliability, customer support, and industry-leading engineering.



## Operation Modes of a Heat Pump

Outside, temperatures fluctuate with the changing seasons, but underground temperatures don't change nearly as dramatically, thanks to the mass of the earth. Four to eight feet below the ground, the temperature remains relatively constant year round. A Bosch geothermal system, which typically consists of an indoor heat pump and a buried system of pipes called a ground loop, and/or a well system, capitalizes on these constant temperatures to provide "free" energy.



### Winter Heating Mode

In winter time, fluid circulating through the earth loop (or well) absorbs stored heat from the ground and carries it indoors. The Bosch geothermal heat pump compresses the heat to a higher temperature and distributes it throughout the home.



### Summer Cooling Mode

In summer time, the process reverses, and the cooler earth absorbs the heat from the home, returning cooler fluid to the Bosch geothermal heat pump. This fluid is typically cooler than the outside temperatures, providing a more efficient operation and energy savings.

# Bosch RP Split System Options



Dependable & Highly Efficient Solutions  
For Heating and Cooling Your Home

## Bosch's RP Split Configurations

Use any of the following options to make a complete heating and cooling system

### **A** Bosch RP Split Condensing Section (CS)

The robust Bosch RP Split water source heat pump system utilizes just the right amount of energy to achieve ultimate comfort and maximum efficiency while fitting in your existing space constraints.

With its compact footprint and advanced engineering, the RP Split CS is designed to deliver superior performance across a wide range of applications. Whether you're upgrading an existing system or designing a new installation, the RP Split CS provides quiet operation, flexible configurations, and dependable year-round comfort for your home.



## Option 1

**Bosch's RP Split CS + Bosch's BIVA20 Air Handler**

### **B** Bosch's BIVA20 Air Handler\*

The BIVA20 is Bosch's robust & reliable Indoor multi-position air handler that can be mounted vertically, horizontally, or field configured downflow.



## Option 2

**Bosch's RP Split CS + Bosch Cased Coil + Furnace**

### **C** Gas Furnace (Dual Fuel)<sup>\*(1)</sup>

A Bosch or third-party furnace can be used in applications where homeowner prefers to use gas heat on very cold days.

### **D** Bosch BMAC Cased Coil\*

The BMAC cased coil, when paired with a Furnace and RP Split condensing section, delivers some of the best comfort levels and efficiency on the market today. Bosch offers a complete range of air coils to fit your needs.



\*Product sold separately. (1) Additional accessories may be required.

# RP Split Model Components Features & Benefits

The Bosch RP Split provides best-in-class efficiency ratings and provides maximum comfort at minimum cost



**A**

The Bosch RP Split CS heat pump comes with a large electrical box to mount Bosch field mount accessories.

**B**

1/2" closed cell foam insulation helps to attenuate low frequency noise from the compressor.

**C**

All connections (water, refrigerant, and HRP) are located on corner post for easy access. Water connections come standard with FPT fittings.

**D**

The compact cabinet is constructed out of durable powdered coat G90 Galvanized Steel.

**E**

The coaxial water coil is wrapped for superior moisture protection in extended range applications.

**F**

The Bosch RP Split heat pump comes with a factory provided filter drier to help protect critical refrigerant system components.

**G**

The thermal expansion valve (TXV) is bi-directional and controls the refrigerant flow providing optimum superheat to the compressor.

**H**

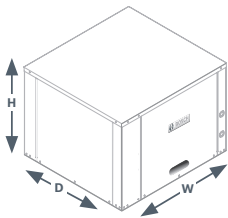
The two-stage high-efficiency scroll compressor provides maximum comfort and quiet operation using minimal energy.

**I**

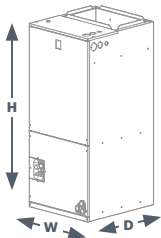
The unique floating base uses heavy steel plate combined with high density rubber pad and grommets to isolate the compressor from the cabinet. This double isolation limits vibration and noise transmission.

# System & Technical Information

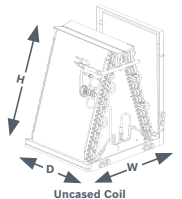
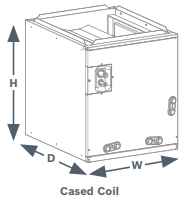
RP SPLIT CS DIMENSIONS (INCHES)			
MODEL SIZE	WIDTH (W)	HEIGHT (H)	DEPTH (D)
RP024-1CS	22	22	26
RP036-1CS	24	22	26
RP048-1CS	24	25.5	33
RP060-1CS	24	25.5	33



BIVA20 AIR HANDLER DIMENSIONS (INCHES)				
MODEL SIZE	PART NUMBER	WIDTH (W)	HEIGHT (H)	DEPTH (D)
BIVA-24RCB-M20X	8-733-965-415	19.625	46.5	21.625
BIVA-36RCB-M20X	8-733-965-416	19.625	46.5	21.625
BIVA-48RCB-M20X	8-733-965-417	22.0	54.5	24.0
BIVA-60RCB-M20X	8-733-965-418	22.0	54.5	24.0



BMAC CASED COIL DIMENSIONS		CASED			UNCASED		
MODEL NUMBER	PART NUMBER	WIDTH (W)	HEIGHT (H)	DEPTH (D)	WIDTH (W)	HEIGHT (H)	DEPTH (D)
BMAC2430BBTA	8-733-965-424	17.5	20.0	21.0	16.375	15.375	20.5
BMAC3036BBTA	8-733-965-426	17.5	20.0	21.0	16.375	15.375	20.5
BMAC4248CBTA	8-733-965-429	21.0	30.0	21.0	19.875	26.8	21.0
BMAC4860CBTA	8-733-965-431	21.0	30.0	21.0	19.875	27.0	21.0



RP SPLIT PART NUMBERS			
MODEL	COAX COIL	HRP	PART NUMBER
RP024-1CS	C	Yes	7-734-026-721
		No	7-734-026-723
	N	Yes	7-734-026-722
		No	7-734-026-724
RP036-1CS	C	Yes	7-734-026-725
		No	7-734-026-727
	N	Yes	7-734-026-726
		No	7-734-026-728
RP048-1CS	C	Yes	7-734-026-729
		No	7-734-026-731
	N	Yes	7-734-026-730
		No	7-734-026-732
RP060-1CS	C	Yes	7-734-026-733
		No	7-734-026-735
	N	Yes	7-734-026-734
		No	7-734-026-736

# About Bosch

## **Bosch Home Comfort Group in North America**

Bosch Home Comfort Group 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 Home Comfort 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 [bosch-homecomfort.com](http://bosch-homecomfort.com).

## **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, home comfort solutions, 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 [www.bosch.com](http://www.bosch.com)



## **Bosch Home Comfort Group**

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