



## Bosch SM Heat Pump

SM Heat Pumps are our most efficient units with the quality that only Bosch can provide



**30%**  
Geothermal  
Tax Credit



# Bosch Geothermal Systems

- ▶ Environmentally Friendly
- ▶ Best-in-Class Performance
- ▶ Reliable & Unmatched Quality
- ▶ Earth Coupling Options
- ▶ Lower Operating Cost
- ▶ Quiet Operation

## Meet the Bosch SM Model

The SM Model is our premium, high efficiency, residential water source heat pump, available in sizes of 2 to 6 tons to suit your needs. ENERGY STAR certified for ground water and ground loop applications, the SM boasts a two-stage scroll compressor and ECM constant air (CA) motor for superior comfort and efficiency.

### Standard Features

#### Domestic Hot Water Heat Recovery Package

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

#### 2 stage Scroll Compressor Technology

Lowers operating costs while maximizing efficiency and comfort by adjusting to varying heating and cooling.

#### Variable Speed ECM Constant CFM Motor

Maintains a constant and comfortable airflow by adjusting to external air pressure drop.

#### Copper or Cupro-Nickel Coil

Option between copper or cupro-nickel heat exchanger, cupro-nickel recommended in conditions anticipating moderate scale formation or brackish water.

#### Air-tight and Quiet Cabinetry\*

Includes close-cell foam insulation and compressor blanket which offers sound levels as low as 52 dB.

#### Easy Access Filter Rack and 2" MERV-8 Filter\*

Easily change your filter and remove 80-95% of airborne particles and other allergens as small as 3 microns.

#### Stainless Steel Drain Pan

Improves indoor air quality (IAQ) by preventing standing water where mold, bacteria and viruses could grow.

#### Filter Drier

Removes moisture and contaminants from the refrigeration circuit, increasing reliability and product life.

#### Thermal Expansion Valve (TXV)

Precisely delivers refrigerant to improve efficiency for heating and cooling.

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\*Applies to vertical orientations only



# Optional Field Installed Features

## Internal Electric Heat

The internal electric heat kit includes 5, 10, 15, or 20 kilowatt back up or an emergency heater can be used depending on the size of the geothermal pump.

## Dehumidification Options

Dehumidification can be achieved with the Variable Speed CFM Motor combined with a Bosch humidity control thermostat.

## Horizontal Discharge Conversion Kit\*

The horizontal conversion kit allows end blow to straight through conversion of discharge air, as the straight through configuration for horizontal is no longer available.

## Smart Start Assist

This device reduces starting (inrush) current for compressors by 45% to 65%, minimizing "light flickering" during compressor starts and extending the life of the compressor. Designed for single phase scroll compressors.

## Pump Valve Relay

The pump relay kit can be used to energize a supply pump or solenoid valve when there is a call for compressor operation. This relay can be used to switch either high or low voltage power.

# SM Consolidation

The Bosch SM model is now offered in a new consolidated list of part numbers, providing options suited for every customer's needs.

Horizontal (HZ)				
Model	Heat Recovery Package	Coax Coil	Return Air	Part Number
SM024	X	C	L	7-735-047-557
			R	7-735-048-813
		N	L	7-735-027-401
			R	7-735-028-882
	D	C	L	7-735-066-086
			R	7-735-061-423
		N	L	7-735-053-163
			R	7-735-055-087
SM036	X	C	L	7-735-027-685
			R	7-735-033-843
		N	L	7-735-026-201
			R	7-735-026-786
	D	C	L	7-735-041-144
			R	7-735-066-091
		N	L	7-735-028-888
			R	7-735-028-889
SM048	X	C	L	7-735-034-113
			R	7-735-033-335
		N	L	7-735-027-845
			R	7-735-033-406
	D	C	L	7-735-066-094
			R	7-735-066-095
		N	L	7-735-033-705
			R	7-735-030-379
SM060	X	C	L	7-735-045-033
			R	7-735-030-259
		N	L	7-735-032-534
			R	7-735-027-579
	D	C	L	7-735-065-737
			R	7-735-030-299
		N	L	7-735-050-628
			R	7-735-045-745
SM070	X	C	L	7-735-051-347
			R	7-735-051-348
		N	L	7-735-052-327
			R	7-734-001-668
	D	C	L	7-735-066-602
			R	7-735-026-049
		N	L	7-735-066-603
			R	7-735-066-604

Vertical (VT)				
Model	Heat Recovery Package	Coax Coil	Return Air	Part Number
SM024	X	C	L	7-735-057-659
			R	7-735-057-691
		N	L	7-735-057-665
			R	7-735-057-650
	D	C	L	7-735-057-678
			R	7-735-066-001
		N	L	7-735-057-657
			R	7-735-064-005
SM036	X	C	L	7-735-057-649
			R	7-735-057-646
		N	L	7-735-057-628
			R	7-735-057-633
	D	C	L	7-735-057-623
			R	7-735-057-643
		N	L	7-735-057-658
			R	7-735-057-616
SM048	X	C	L	7-735-057-709
			R	7-735-057-699
		N	L	7-735-057-596
			R	7-735-057-626
	D	C	L	7-735-057-618
			R	7-735-057-647
		N	L	7-735-057-611
			R	7-735-057-706
SM060	X	C	L	7-735-057-652
			R	7-735-057-663
		N	L	7-735-057-685
			R	7-735-057-695
	D	C	L	7-735-057-625
			R	7-735-059-657
		N	L	7-735-057-664
			R	7-735-057-694
SM070	X	C	L	7-735-057-811
			R	7-735-067-991
		N	L	7-735-061-752
			R	7-735-057-803
	D	C	L	7-735-057-769
			R	7-735-057-758
		N	L	7-735-057-778
			R	7-735-064-269



## 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 standard offering covers all components incorporated into the unit cabinet at the time of manufacture. Many units 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.



## 30% Tax Credit

### Being Green Means Saving Green

Homeowners who install Bosch ENERGY STAR qualified geothermal heat pumps are eligible for a 30% tax credit, including the cost of installation for systems placed in service by 1/1/2033\*, a 26% tax credit for systems placed in service after 12/31/2032 and before 01/01/2034, and a 22% tax credit for systems placed in service after 12/31/2033 and before 01/01/2035. All tax credits are on the cost of the geothermal system, including installation costs.

Additionally, many areas offer local incentives for utilities, counties, or states. Visit the DOE's "Database of State Incentives for Renewable Energy" (DSIRE) at [dsireusa.org](http://dsireusa.org) to find out just what is in store for you!

## Connected Solutions

Bosch has assembled a comprehensive suite of heating, cooling, water heating, and energy-efficient appliances. Pair your new Geothermal Heat Pump with The Bosch Connected Control. It is the perfect solution to help achieve maximum comfort from anywhere! Ask your Bosch contractor or go to [www.bosch-homecomfort.us](http://www.bosch-homecomfort.us) to learn more about how Bosch products can work together for your ultimate comfort.

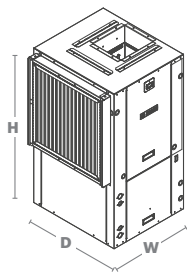


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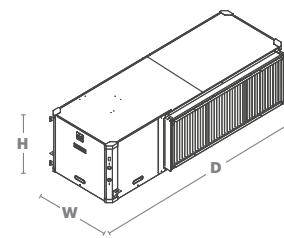
(1) For complete warranty details please visit [www.bosch-homecomfort.us](http://www.bosch-homecomfort.us). All information here within is pending and subject to change upon release of the product.

## Unit Dimensions<sup>(1)</sup>

Model	Vertical (VT) Dimensions		
	W (width)	D (depth)	H (height)
SM024	22.5	26.0	43.3
SM036	24.5	33.3	54.0
SM048	24.5	33.3	54.0
SM060	26.0	33.3	60.1
SM070	26.0	33.3	60.1



Model	Horizontal (HZ) Dimensions		
	W (width)	D (depth)	H (height)
SM024	25.1	64.1	19.7
SM036	28.0	76.0	22.7
SM048	28.0	76.0	22.7
SM060	28.0	83.0	22.7
SM070	28.0	83.0	22.7



## VT Specifications ASHRAE/AHRI/ISO 13256-1. English (I-P) Units

		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump				
		Cooling 86°F		Heating 68°F		Cooling 59°F		Heating 50°F		Cooling 77°F		Heating 32°F		
	Model	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Fluid Flow GPM
FULL LOAD	SM024	26200	16.2	30300	5.6	29400	24.9	24700	4.9	26900	18.9	18700	4.1	6
	SM036	39300	18.6	46300	6.2	44300	27.1	36700	5.4	40200	21.0	28200	4.3	10
	SM048	50500	16.0	60300	5.5	56900	24.3	49200	4.9	51800	18.6	38200	4.2	12
	SM060	62500	15.4	78300	5.4	71600	24.0	62400	4.7	63900	18.6	48600	4.0	15
	SM070	69700	14.3	88900	5.0	78900	22.1	72600	4.4	71500	17.3	56000	3.7	18

		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump				
		Cooling 86°F		Heating 68°F		Cooling 59°F		Heating 50°F		Cooling 77°F		Heating 32°F		
	Model	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Fluid Flow GPM
PART LOAD	SM024	19600	18.3	22800	6.5	22400	32.2	18200	5.3	21300	29.9	15500	4.5	6
	SM036	28900	20.4	33100	7.2	32800	35.1	26000	5.6	31600	30.0	22000	4.7	10
	SM048	37100	17.8	44200	6.2	42600	31.5	35500	5.1	40100	26.4	30600	4.4	12
	SM060	46400	17.7	57600	6.0	53500	30.6	45900	4.9	51100	25.2	39900	4.4	15
	SM070	52900	16.4	67700	5.5	61200	26.9	53800	4.6	58100	23.3	46100	4.1	18

## HZ Specifications ASHRAE/AHRI/ISO 13256-1. English (I-P) Units

		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump				
		Cooling 86°F		Heating 68°F		Cooling 59°F		Heating 50°F		Cooling 77°F		Heating 32°F		
Model		Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Fluid Flow GPM
FULL LOAD	SM024 Copper	25500	16.6	29200	5.6	29000	25.8	23500	5.0	26600	19.9	18000	3.7	6
	SM024 CuNi	25500	15.7	29200	5.6	29000	24.1	23500	5.0	26600	18.3	18000	3.7	6
	SM036	38100	17.5	42800	5.1	43300	26.0	35900	4.6	39900	20.2	28400	4.0	9
	SM048 Copper	49200	16.1	56100	5.4	55300	24.4	46300	4.8	51300	18.8	36900	4.1	12
	SM048 CuNi	49200	15.5	56100	5.3	55300	23.8	46300	4.8	51300	18.0	36900	4.1	12
	SM060	63800	15.5	73300	4.8	70200	22.3	60300	4.4	65100	17.6	45500	3.7	15
	SM070	71600	14.1	84000	4.8	78700	21.2	70000	4.4	73700	16.4	55300	3.6	18

		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump				
		Cooling 86°F		Heating 68°F		Cooling 59°F		Heating 50°F		Cooling 77°F		Heating 32°F		
Model		Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Fluid Flow GPM
PART LOAD	SM024 Copper	18500	18.4	21200	6.2	21700	31.9	16700	5.2	21000	27.0	14400	4.1	6
	SM024 CuNi	18500	17.5	21200	6.4	21700	29.9	16700	5.2	21000	25.7	14400	4.1	6
	SM036	27500	19.9	31000	5.6	31300	33.2	25200	4.7	30000	26.0	22400	4.1	9
	SM048 Copper	36700	18.3	40900	6.3	42000	31.8	33700	5.3	39900	26.9	29800	4.7	12
	SM048 CuNi	36700	17.5	40900	6.1	42000	30.8	33700	5.0	39900	26.0	29800	4.5	12
	SM060	47500	17.2	53600	5.7	53300	29.3	44300	4.7	51600	25.0	37200	4.1	15
	SM070	55200	15.3	64900	5.2	60800	26.4	48400	4.5	60300	22.0	46900	4.0	18

(1) All dimensions in inches unless otherwise noted. All dimensions within +0.125". Specifications subject to change without notice.

(2) Ratings based upon AHRI/ANSI 13256-1 with 1" disposable filter

# 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.us](http://bosch-homecomfort.us).

## **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**

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