

Home Comfort Group



**BOSCH**

## Bosch CE Heat Pump

Equipped with the quality & innovative technology that only Bosch can provide



**30%**  
Geothermal  
Tax Credit





# A Packaged Home Comfort Solution

## Bosch CE Model

The Greensource Si Series CE Model geothermal heat pump comes in a horizontal, vertical, or counter-flow configuration. This compact, high efficiency packaged solution can individually replace your old system or be used for a new installation. The CE model comes equipped with the quality and innovative technology that only Bosch can provide.

### Features

- ▶ Two-stage compressor
- ▶ Available in 2 through 6 tons
- ▶ Variable Speed ECM Constant Speed CFM motor
- ▶ High performance and low operation costs
- ▶ Environmentally friendly R410-A refrigerant
- ▶ White pre-painted sheet metal cabinet – for durability & look
- ▶ Quiet operation – 1.5# Dual Density Fiberglass Insulation
- ▶ Electronic circuit board with alert LED which can also display fault information on the thermostat.
- ▶ Evaporator coil – Tin electro-plated copper tubing hair pins with aluminum fins for durability & reliability



# Why Bosch Geothermal Heat Pumps?

## Being Green Means Saving Green

This fully featured, highly efficient, two-stage heat pump offers an appliance-style cabinet and is available in sizes from 2 to 6 tons. The Bosch Greensource geothermal heat pump requires less energy to produce the equivalent cooling and heating output than other conventional heat pumps on the market. This saves energy and reduces the cost to stay comfortable in your home. You can save up to 65% on your energy bills, plus payback on this investment can be as short as 5 to 7 years.

## Reliable and High Quality

Bosch's Unit Protection Module (UPM) aids in troubleshooting and helps reduce the time required to diagnose the operation of the unit in order to keep it running at optimal conditions. The UPM circuit board can send automatic alerts to be displayed on a Bosch thermostat therefore expediting any maintenance that is required.

## Quiet Operation

Greensource is equipped with an advanced sound package comprising of a unique floating base pan to isolate internal components from the exterior cabinet thereby reducing sound and vibration. Combined with dual density fiberglass cabinet insulation makes the Greensource one of the quietest units on the market.

## Warranty Coverage for your Geothermal Heat Pump<sup>(1)</sup>

With the limited residential warranty, you receive peace-of-mind knowing you will receive replacement parts protection for up to 10 years. This warranty offering covers all components incorporated into the unit cabinet at the time of manufacture, including a 10 year labor-allowance for defective components to help offset labor expenses if a component should fail. Other components or parts that are purchased from Bosch and installed in the field have a one year replacement parts limited warranty from proof of certificate of occupancy date or proof of certified start-up date.

## 30% Geothermal 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!



(1) For complete warranty details please visit [www.bosch-homecomfort.us](http://www.bosch-homecomfort.us)

# CE Model Features

## Cabinet

Cabinetry is constructed using white pre-painted, galvanized steel for a sleek appliance aesthetic.

## Quiet Operation

All panels are insulated with ½” thick, 1.5 lb./cu.ft. density micromat fiberglass insulation for both thermal insulation and noise reduction thereby keeping your home quieter and temperature regulated.

## Serviceability

- ▶ Designed to be serviced from the front of the unit.
- ▶ Insulated bulkheads allow the unit to be serviced during operation.

## ECM Constant CFM (Variable Speed) Motor

The high efficiency ECM constant CFM motor or constant air (CA) as often referred to, is available in 1/3 hp to 1 hp. The motor provides constant airflow in a wide static pressure range up to 1 in.w.g. to ensure maximum comfort.

## 2 Stage Compressor

Our intuitive unit adjusts the intensity of your home’s heating and cooling needs thereby lowering operating costs while maximizing efficiency and comfort.

## Hanging Brackets for Easy Installation

All horizontal (HZ) units come standard with hanging bracket kits for suspending the unit from field supplied hanger rods.

## Quality Water Connections

All water connections are swivel type FPT fittings.

## Refrigerant Circuit

Designed using the optimum combination of compressor, water and copper tin plated and aluminum finned evaporator coils with TXV to provide peak performance and improved efficiency.

## Superior Warranty

10 Year Limited Parts & Labor Warranty<sup>(1)</sup>

## Improved Air Filtration with 4 Sided Filter Rack & 2” MERV-8 Filter

Allows you to change your filter easily and improve your home’s indoor air quality by removing 80% of airborne



particles and other allergens as small as 1 micron.

## TXV (Thermal Expansion Valve)

Improves refrigerant management and efficiencies.

## Tin-Plated Evaporator Air Coil

Tin electro-plated copper tubing hair pins with aluminum fins will protect the evaporator coil from most forms of corrosive elements in the airstream.

## Intuitive Alerts and Protection via the Electronic Circuit Board

- ▶ Low pressure switch protection
- ▶ High pressure switch protection
- ▶ Alarm output
- ▶ Condensate overflow protection
- ▶ Anti-short cycling
- ▶ 5 minute delay - low pressure bypass at start up
- ▶ Random start of unit
- ▶ Brown out protection
- ▶ Evaporator freeze protection
- ▶ Water coil/coaxial coil/condenser freeze protection

CE MODELS

SIZE	CABINET CONFIGURATION	REFRIGERATION	COAX COIL	L/R	PART NUMBER	SIZE	CABINET CONFIGURATION	REFRIGERATION	COAX COIL	L/R	PART NUMBER	
025	HZ	D	C	L	7-735-070-715	049	CF	D	C	L	7-735-070-733	
025				R	7-735-071-198	049				R	7-735-070-734	
025			N	L	7-735-032-013	049			L	7-735-071-199		
025				R	7-735-070-717	049			R	7-735-038-427		
025		X	C	L	7-735-070-718	049		X	C	L	7-735-051-684	
025				R	7-735-036-261	049				R	7-735-070-736	
025			N	L	7-735-028-879	049			L	7-735-030-376		
025				R	7-735-029-540	049			R	7-735-030-842		
025	VT	D	C	L	7-735-032-322	061	HZ	D	C	L	7-735-070-737	
025				R	7-735-070-719	061				R	7-735-070-738	
025			N	L	7-735-032-313	061			L	7-735-061-391		
025				R	7-735-070-720	061			R	7-735-053-498		
025		X	C	L	7-735-030-849	061		X	C	L	7-735-070-739	
025				R	7-735-033-308	061				R	7-735-070-252	
025			N	L	7-735-032-010	061			L	7-735-046-218		
025				R	7-735-033-124	061			R	7-735-045-959		
025	CF	D	C	L	7-735-070-721	061	VT	D	C	L	7-735-032-324	
025				R	7-735-034-501	061				R	7-735-051-326	
025			N	L	7-735-070-722	061			L	7-735-032-316		
025				R	7-735-070-723	061			R	7-735-070-740		
025		X	C	L	7-735-070-724	061		X	C	L	7-735-032-311	
025				R	7-735-054-420	061				R	7-735-030-822	
025			N	L	7-735-030-841	061			L	7-735-029-786		
025				R	7-735-037-099	061			R	7-735-037-009		
035	HZ	D	C	L	7-735-070-725	061	CF	D	N	L	7-735-070-743	
035				R	7-735-057-468	061				R	7-735-046-483	
035			N	L	7-735-070-726	061		X	N	L	7-735-039-193	
035				R	7-735-054-129	061				R	7-735-070-745	
035		X	C	L	7-735-061-750	071		HZ	D	C	L	7-735-070-746
035				R	7-735-070-727	071					R	7-735-071-202
035			N	L	7-735-030-375	071				L	7-735-071-203	
035				R	7-735-035-447	071				R	7-735-071-212	
035	VT	D	C	L	7-735-030-263	071	X		C	L	7-735-070-750	
035				R	7-735-070-728	071				R	7-735-071-204	
035			N	L	7-735-032-314	071			L	7-735-070-752		
035				R	7-735-052-328	071			R	7-735-053-210		
035		X	C	L	7-735-032-309	071		VT	D	C	L	7-735-032-325
035				R	7-735-033-307	071					R	7-735-062-363
035			N	L	7-735-029-877	071				L	7-735-032-317	
035				R	7-735-028-880	071				R	7-735-070-753	
035	CF	D	N	L	7-735-063-856	071	X		C	L	7-735-032-312	
035				R	7-735-070-730	071				R	7-735-045-440	
035		X	N	L	7-735-030-675	071			L	7-735-032-308		
035				R	7-735-032-961	071			R	7-735-049-831		
049	HZ	D	C	L	7-735-070-731	071	CF	D	N	L	7-735-070-756	
049				R	7-735-070-732	071				R	7-735-070-757	
049			N	L	7-735-032-014	071			X	N	L	7-735-070-760
049				R	7-735-037-422	071					R	7-735-064-808
049		X	C	L	7-735-061-321	071		VT	D	C	L	7-735-032-323
049				R	7-735-051-996	071					R	7-735-051-325
049			N	L	7-735-028-985	071				L	7-735-032-315	
049				R	7-735-034-077	071				R	7-735-037-023	
049	VT	D	C	L	7-735-032-323	049	X		C	L	7-735-032-310	
049				R	7-735-051-325	049				R	7-735-034-685	
049			N	L	7-735-032-315	049			L	7-735-030-377		
049				R	7-735-037-023	049			R	7-735-032-404		
049		X	C	L	7-735-032-310	049		N	C	L	7-735-032-310	
049				R	7-735-034-685	049				R	7-735-034-685	
049			N	L	7-735-030-377	049			L	7-735-030-377		
049				R	7-735-032-404	049			R	7-735-032-404		

# Optional Features

## Field Install Pump/Valve Relay Kit

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.

## Field Install Electric Heat Kit

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.

## Field Install SmartStart Assist Kit

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.

## Horizontal (HZ) Unit - Field Convertible Discharge Air

All HZ units come standard with End Blow Discharge Air configuration. Straight Through Discharge Air can be easily field configured.

## Cupro-nickel Coil

A cupro-nickel heat exchanger is recommended in conditions anticipating moderate scale formation or in brackish water.



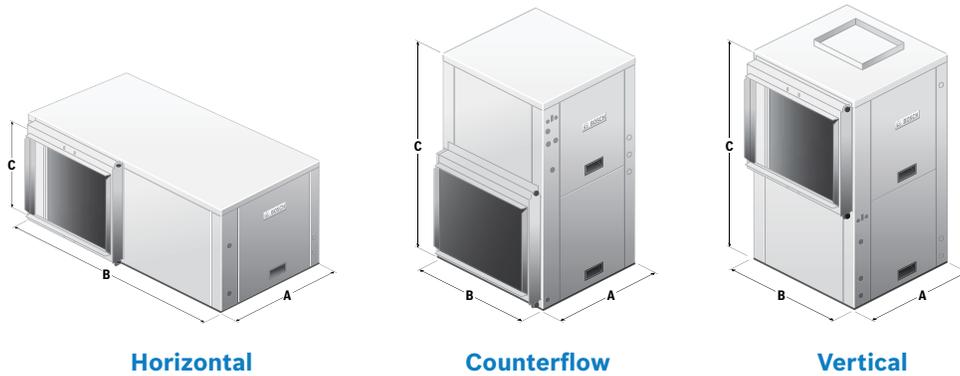
# A Zero Energy Capable Home

The Bosch zero energy capable home is a full systems approach to creating a house that is not an energy drain on the planet's finite resources. This technology helps homeowners to reduce their monthly utility bills and protect the environment.

Bosch has assembled a comprehensive suite of heating, cooling, water heating, and energy-efficient appliances that, when installed in a home, reduces home energy usage due to intelligent product designs and higher efficiencies. In addition, this approach enables the homeowner to save enough power to offset the already reduced energy demand, meaning virtually a zero energy bill for the homeowner.

**Ask your Bosch Contractor or go to [Bosch-HomeComfort.us](https://www.bosch-homecomfort.us) to learn more about how Bosch products can work together for your ultimate comfort.**

# System & Technical Information



Horizontal

Counterflow

Vertical

Model	DIMENSIONS					
	Vertical/Counterflow			Horizontal		
	A (width)	B (depth)	C (height)	A (width)	B (depth)	C (height)
CE025	21.50	26.00	47.25	26.00	54.50	21.75
CE035	21.50	26.00	47.25	26.00	54.50	21.75
CE049	24.00	32.75	47.25	30.00	68.00	21.75
CE061	26.00	33.25	51.25	30.00	68.00	21.75
CE071	26.00	33.25	58.25	30.00	78.00	21.75

AHRI/ANSI 13256-1 Performance Data															
Model	Load	Water Loop Heat Pump				Ground Water Loop Heat Pump				Ground Loop Heat Pump				CFM	GPM
	Full	Cooling 86°F		Heating 68°F		Cooling 86°F		Heating 68°F		Cooling 77°F		Heating 32°F			
	Part	Cooling 68°F													
		Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP		
CE025	Part	18100	17.10	19500	4.90	21000	26.39	16300	3.70	20000	24.70	14100	3.80	500	6
	Full	26000	15.10	27600	5.10	29000	23.20	23400	4.50	27500	17.70	18600	3.60	800	6
CE035	Part	24000	16.20	27000	4.95	27000	27.35	22500	4.20	27000	23.10	20500	3.80	800	9
	Full	36000	14.00	43000	4.35	42000	21.25	36000	4.20	38000	15.70	28000	3.60	1200	9
CE049	Part	34000	16.00	39000	5.40	38000	24.00	32000	4.60	36000	21.80	28500	4.00	1250	12
	Full	48000	13.20	58000	4.80	54000	19.00	48000	4.20	49000	15.50	38000	3.60	1600	12
CE061 HZ-Copper	Part	42000	16.20	48000	5.05	48000	26.80	40000	4.30	45000	23.50	36500	3.80	1400	14
	Full	60000	14.60	72000	4.75	68000	21.20	61000	4.30	62000	16.80	49000	3.60	1800	14
CE061 VT-Copper	Part	42000	16.60	48000	5.00	48000	26.00	40000	4.30	45000	23.50	36500	3.85	1400	14
	Full	60000	14.00	72000	4.70	68000	19.70	61000	4.20	62000	15.70	49000	3.60	2000	14
CE061 VT/HZ CF-CuNi	Part	42000	15.60	48000	5.00	48000	26.50	40000	4.20	45000	22.30	36500	3.80	1400	14
	Full	60000	14.00	72000	4.60	68000	20.50	61000	4.20	62000	16.10	49000	3.60	2000	14
CE071	Part	51000	15.30	55000	4.40	57000	25.20	47000	4.00	56000	21.80	42000	3.70	1400	18
	Full	72000	13.50	80000	4.50	77000	19.60	68000	4.20	74000	15.60	53000	3.50	2200	18

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**

## **Bosch Home Comfort Group**

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