

Home Comfort Group



BOSCH

Bosch CE Heat Pump

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



30%
Geothermal
Tax Credit



www.bosch-homecomfort.us



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⁽¹⁾

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 to find out just what is in store for you!



(1) For complete warranty details please visit 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⁽¹⁾

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			N	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			N	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			N	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			N	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			N	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			N	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			N	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			N	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			N	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			N	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							
049				R	7-735-051-996							
049			N	L	7-735-028-985							
049				R	7-735-034-077							
049	VT	D	C	L	7-735-032-323							
049				R	7-735-051-325							
049			N	L	7-735-032-315							
049				R	7-735-037-023							
049		X	C	L	7-735-032-310							
049				R	7-735-034-685							
049			N	L	7-735-030-377							
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.



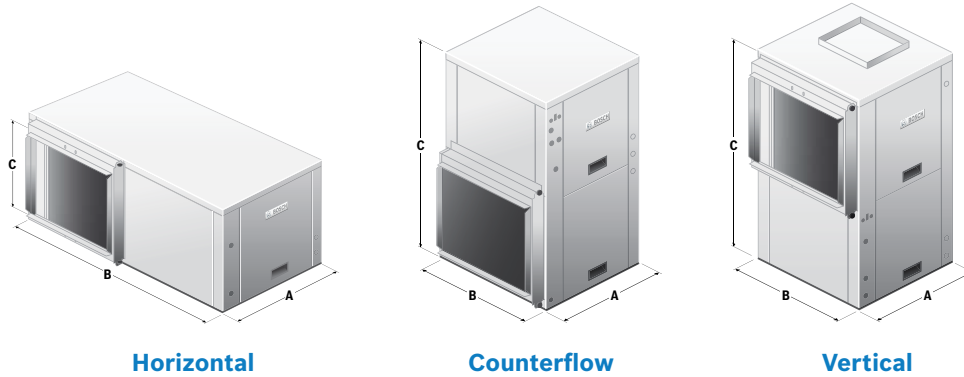
A Zero Energy Capable Home

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



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		Heating 41°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.

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



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76H991817H 5-23

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