



BOSCH

Invented for life

Bosch Heat Pump

CE Model: Si Series

The Si Series CE Model contains a two-stage compressor, variable speed ECM motor and comes with a variety of standard features that help improve your indoor air quality and operating efficiency.





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.



(1) For complete warranty details please visit boschheatingandcooling.com

Features CE Model

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			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	VT		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		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	7-735-032-325
049				R	7-735-051-996	071						R	7-735-062-363
049			N	L	7-735-028-985	071			L	7-735-032-317			
049				R	7-735-034-077	071			R	7-735-070-753			
049	VT	D	C	L	7-735-032-323	071	CF	D	N	L	7-735-070-756		
049				R	7-735-051-325	071				R	7-735-070-757		
049			N	L	7-735-032-315	071			X	N	L	7-735-070-760	
049				R	7-735-037-023	071					R	7-735-064-808	
049		X	C	L	7-735-032-310	071		VT		D	C	L	7-735-032-310
049				R	7-735-034-685	071						R	7-735-034-685
049			N	L	7-735-030-377	071			L	7-735-030-377			
049				R	7-735-032-404	071			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.



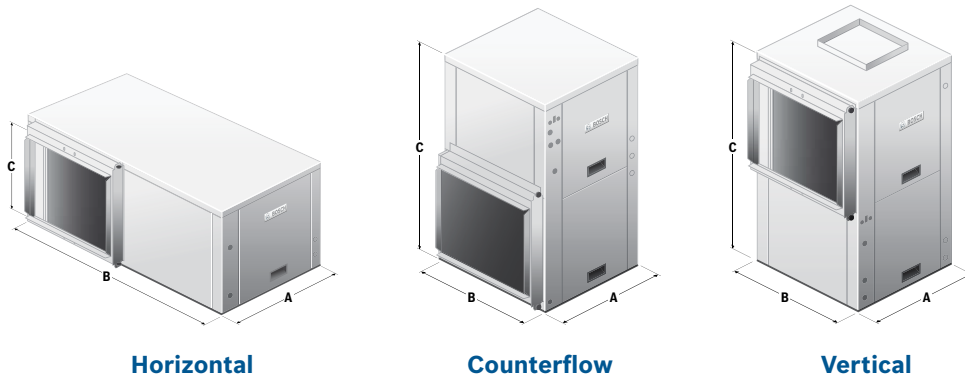
A Zero Energy Capable Home for Peace of Mind

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 [Boschexperiencecenter.com](https://www.boschexperiencecenter.com) 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

ASHRAE/AHRI/ISO 13256-1. ENGLISH (I-P) UNITS PERFORMANCE DATA															
MODEL	Load	Water Loop (WLHP)				Ground Water (GWHP)				Ground Loop (GLHP)				Rated Airflow (CFM)	Water Flow Rate (GPM)
		Cooling 86 deg.F		Heating 68 deg.F		Cooling 59 deg.F		Heating 50 deg.F		Cooling 77 deg.F		Heating 32 deg.F			
		Capacity Btuh	EER	Capacity Btuh	COP	Capacity Btuh	EER	Capacity Btuh	COP	Capacity Btuh	EER	Capacity Btuh	COP		
CE025	Part	18800	17.10	20500	5.70	21000	29.00	18000	4.50	20000	24.70	15500	3.80	500	6
	Full	26000	15.10	27600	5.10	29000	23.20	25000	4.50	27500	17.70	19000	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)	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/CF)	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
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

About **Bosch**

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, thermotechnology, 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 boschheatingandcooling.com and bosch.ca.

Bosch Thermotechnology in North America

Bosch Thermotechnology 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 Thermotechnology 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 boschheatingandcooling.com.

Bosch Water-Source Heat Pumps: Made in the U.S.A.

Bosch and FHP water-source and geothermal heat pumps are made by highly trained and skilled workers in our factory based in Fort Lauderdale, Florida. They are manufactured with rigorous standards and factory testing ensuring high efficient operation over the life of the unit. Bosch's ISO 9001 and ISO 14001 certified facilities provide consistent quality in every unit built.



Heating



Cooling



Hot Water



Controls

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