

# GreenSource CDi Series SM Split AV/AH Air Handler Residential Geothermal Heat Pump

Engineering  
Submittal  
Sheet



# BOSCH

## Overview and Certifications



Compact Air Handler/Fan Coil



## Standard Features, Factory Installed Options, and Field Installed Accessories

### Standard Features

#### ► White Pre-Painted Sheet Metal Cabinets

- Appliance white for a clean - durable look
- Door handles - for easy removal for service
- Indoor installation for air handler section

#### ► High Efficiency

- Up to 29.8 EER and 5.0 COP @ PL GWP

#### ► Closed Cell (Fiber Free) Insulation

- Improved Indoor Air Quality

#### ► Tin Plated Copper Tubing with Aluminum Fins

- This will protect the evaporator coil from most forms of corrosive elements in the airstream

#### ► Reliability - Durability - Serviceability

- Easy to remove panels
- Completely serviceable from front of unit

#### ► Electronically Commutative Motor (ECM)

- Constant CFM (Variable Speed) Fan Motor

#### ► Dehumidification

- Lowering the humidity in your home allows you to turn up the thermostat in the summer and save on operational costs; accomplished with a Bosch connected control thermostat

#### ► Standard Warranty\*

- 10 Year all parts limited warranty
- 10 Year labor limited warranty

\* Complete warranty details are available on <https://www.bosch-thermotechnology.us/en/residential/service/product-warranty-library/>

# GreenSource CDi Series SM Split AV/AH Air Handler Residential Geothermal Heat Pumps



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Standard Features, Factory Installed Options, and Field Installed Accessories continued..

## Factory Installed Options

### ► Internal Electric Heat

- Can be factory mounted. Choices include 5, 10, or 15 kilowatt back up or an emergency heater depending on the size of the geothermal heat pump

## Field Installed Accessories

### ► Thermostats

- Bosch thermostats are fully customized to meet your individual needs. Bosch offers communicating thermostats that can display alert messages without having to go to the unit.



|                                            | 1-2 | 3-5 | 6 | 7 | 8-9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38-39 | 40 |  |  |  |  |
|--------------------------------------------|-----|-----|---|---|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|----|--|--|--|--|
| <b>MODEL:</b>                              |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>SM</b>                                  |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>NOMINAL CAPACITY:</b>                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>024</b>                                 |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>036</b>                                 |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>048</b>                                 |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>060</b>                                 |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>ELECTRICAL CONFIGURATION:</b>           |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>1</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - 208-230/60/1                             |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>CABINET CONFIGURATION:</b>              |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>AH</b>                                  |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Air Handler Horizontal                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>AV</b>                                  |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Air Handler Vertical                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>COAX OPTIONS:</b>                       |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>X</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - None                                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>WATER CONNECTIONS:</b>                  |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>X</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - None                                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>RETURN AIR CONFIGURATION:</b>           |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>L</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Left                                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>R</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Right                                    |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>DISCHARGE AIR LOCATION:</b>             |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>T</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Top (AV only)                            |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>S</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Straight (AH only)                       |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>E</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - End (AH only)                            |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>FAN/MOTOR OPTION:</b>                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>A</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Constant Airflow ECM                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>AIR COIL:</b>                           |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>T</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Tin Plated                               |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>REVISION LEVEL:</b>                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>A</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Current                                  |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>B</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Current                                  |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>ELECTRIC HEAT:</b>                      |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>X</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - None                                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>A</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - 5 kW                                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>C</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - 10 kW                                    |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>D</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - 15 kW                                    |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>CABINET CONSTRUCTION:</b>               |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>H</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Painted Steel / 1/2" Closed Cell Foam    |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>CODE STRING LEVEL:</b>                  |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>A</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Revision                                 |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>STANDARD/SPECIAL:</b>                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>SB</b>                                  |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Bosch                                    |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>SS</b>                                  |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Standard                                 |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>AA</b>                                  |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Special #1                               |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>NOT USED:</b>                           |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>X</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - None                                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>NOT USED:</b>                           |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>X</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - None                                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>NOT USED:</b>                           |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>X</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - None                                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>AIR FILTRATION:</b>                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>4</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - MERV8 - 2" w/ 4-SIDED FILTER RACK        |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>NOT USED:</b>                           |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>X</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - None                                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>NOT USED:</b>                           |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>X</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - None                                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>NOT USED:</b>                           |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>X</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - None                                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>CONTROLS:</b>                           |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>X</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Standard                                 |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>TRANSFORMER:</b>                        |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>7</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - 75 VA                                    |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>REFRIGERATION:</b>                      |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>X</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - None                                     |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>ELECTRICAL OPTIONS:</b>                 |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>X</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - As default for non-used electrical codes |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>APPLICATION:</b>                        |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| <b>T</b>                                   |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |
| - Standard/Extended Range (TXV)            |     |     |   |   |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |       |    |  |  |  |  |

# GreenSource CDi Series SM Split AV/AH Air Handler Residential Geothermal Heat Pumps



## ASHRAE/AHRI/ISO 13256-1 (SM CS + SM AV/AH)

| Model<br>(Condensing<br>Section) | Model<br>(Air Handler) | Load | Fluid<br>Flow<br>GPM | Water Loop Heat Pump            |       |                                 |      | Ground Water Heat Pump          |       |                                 |      | Ground Loop Heat Pump           |       |                                 |      |
|----------------------------------|------------------------|------|----------------------|---------------------------------|-------|---------------------------------|------|---------------------------------|-------|---------------------------------|------|---------------------------------|-------|---------------------------------|------|
|                                  |                        |      |                      | Cooling 86 deg.F                |       | Heating 68 deg.F                |      | Cooling 59 deg.F                |       | Heating 50 deg.F                |      | Cooling 77 deg.F                |       | Heating 32 deg.F                |      |
|                                  |                        |      |                      | Cooling<br>Capacity<br>(Btu/hr) | EER   | Heating<br>Capacity<br>(Btu/hr) | COP  | Cooling<br>Capacity<br>(Btu/hr) | EER   | Heating<br>Capacity<br>(Btu/hr) | COP  | Cooling<br>Capacity<br>(Btu/hr) | EER   | Heating<br>Capacity<br>(Btu/hr) | COP  |
| SM024-1CS                        | SM024-1AV/AH           | Full | 6                    | 23100                           | 15.00 | 26400                           | 5.20 | 28500                           | 22.20 | 22200                           | 4.50 | 26200                           | 17.00 | 17700                           | 3.75 |
|                                  |                        | Part | 6                    | 17200                           | 16.50 | 19900                           | 5.50 | 21600                           | 28.60 | 16200                           | 4.60 | 20000                           | 23.80 | 13800                           | 3.90 |
| SM036-1CS                        | SM036-1AV              | Full | 9                    | 36100                           | 14.05 | 44100                           | 4.85 | 40900                           | 21.05 | 35200                           | 4.40 | 37900                           | 16.25 | 27400                           | 3.65 |
|                                  | SM036-1AV              | Part | 9                    | 27000                           | 16.65 | 32000                           | 5.85 | 30600                           | 27.65 | 25250                           | 4.80 | 29300                           | 23.60 | 22400                           | 4.25 |
|                                  | SM036-1AH              | Full | 9                    | 36100                           | 14.85 | 44100                           | 5.00 | 40900                           | 22.20 | 35200                           | 4.50 | 37900                           | 17.15 | 27400                           | 3.80 |
|                                  | SM036-1AH              | Part | 9                    | 27000                           | 15.85 | 32000                           | 6.00 | 30600                           | 27.00 | 25250                           | 4.95 | 29300                           | 22.90 | 22400                           | 4.35 |
| SM048-1CS                        | SM048-1AV              | Full | 12                   | 46900                           | 14.90 | 56800                           | 4.50 | 52800                           | 21.25 | 46600                           | 4.60 | 48900                           | 16.20 | 37800                           | 3.90 |
|                                  | SM048-1AV              | Part | 12                   | 35600                           | 18.20 | 40400                           | 5.50 | 39400                           | 29.80 | 34200                           | 4.70 | 38400                           | 24.25 | 30200                           | 4.20 |
|                                  | SM048-1AH              | Full | 12                   | 46900                           | 14.25 | 56800                           | 4.30 | 52800                           | 21.15 | 46600                           | 4.40 | 48900                           | 16.20 | 37800                           | 3.70 |
|                                  | SM048-1AH              | Part | 12                   | 35600                           | 16.55 | 40400                           | 5.40 | 39400                           | 27.85 | 34200                           | 4.60 | 38400                           | 23.80 | 30200                           | 4.10 |
| SM060-1CS                        | SM060-1AV              | Full | 15                   | 56100                           | 14.10 | 74500                           | 5.00 | 64500                           | 20.50 | 60500                           | 4.40 | 58900                           | 16.10 | 49000                           | 3.80 |
|                                  | SM060-1AV              | Part | 15                   | 42800                           | 16.00 | 54500                           | 5.70 | 49600                           | 27.00 | 44200                           | 4.70 | 47900                           | 23.30 | 39400                           | 4.20 |
|                                  | SM060-1AH              | Full | 15                   | 56100                           | 14.45 | 74500                           | 4.80 | 64500                           | 20.50 | 60500                           | 4.30 | 58900                           | 16.25 | 49000                           | 3.65 |
|                                  | SM060-1AH              | Part | 15                   | 42800                           | 16.35 | 54500                           | 5.60 | 49600                           | 27.10 | 44200                           | 4.50 | 47900                           | 23.15 | 39400                           | 3.95 |

## SM Split AH/AV Air Handler Physical Data

| Description                                          | Unit               | SM024              | SM036              | SM048              | SM060              |
|------------------------------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| <b>ECM Const AirFlow -EON Fan Motor &amp; Blower</b> |                    |                    |                    |                    |                    |
| Fan Motor Type/Speeds                                | —                  | ECM Const Air Flow | ECM Const Air Flow | ECM Const Air Flow | ECM Const Air Flow |
| Fan Motor                                            | HP                 | 0.33               | 0.50               | 0.75               | 1.00               |
| Blower Wheel Size                                    | Inch<br>(Dia. x W) | 9 X 7              | 9 X 7              | 10 X 8             | 11 X 9             |
| <b>Vertical Cabinet (AV)</b>                         |                    |                    |                    |                    |                    |
| Air Coil Dimensions (H x W)                          | Inch<br>(H x W)    | 24 X 21            | 24 X 21            | 24 X 27            | 24 X 27            |
| Nominal size of Standard Filter - 2" MERV8           | Inch<br>(L x H)    | 24 X 24 (1)        | 24 X 24 (1)        | 24 X 30 (1)        | 24 X 30 (1)        |
| Weight - Operating (lbs)*                            | lbs                | 124                | 143                | 180                | 207                |
| Weight - Shipping (lbs)*                             | lbs                | 152                | 175                | 220                | 253                |
| <b>Horizontal Cabinet (AH)</b>                       |                    |                    |                    |                    |                    |
| Air Coil Dimensions                                  | Inch<br>(H x W)    | 18 X 28            | 18 X 28            | 20 X 32.5          | 20 X 32.5          |
| Nominal size of Standard Filter - 2" MERV8           | Inch<br>(L x H)    | 20 X 30 (1)        | 20 X 30(1)         | 20 X 34 1/2 (1)    | 20 X 34 1/2 (1)    |
| Weight - Operating (lbs)*                            | lbs                | 124                | 143                | 180                | 207                |
| Weight - Shipping (lbs)*                             | lbs                | 152                | 175                | 220                | 253                |

\* This data reflects standard unit weights only. Additional options may cause differences in listed weights.

# GreenSource CDi Series SM Split AV/AH Air Handler Residential Geothermal Heat Pumps



# BOSCH

## Air Handler Electrical Data

| Models | Blower motor | Voltage Code | Voltage/Phase/Hz | Voltage Min/Max | Total Unit |               |                  |                 |               |
|--------|--------------|--------------|------------------|-----------------|------------|---------------|------------------|-----------------|---------------|
|        |              |              |                  |                 | QTY        | Motor FLA (A) | Min Circuit Amps | MOP Calculation | Max Fuse/HACR |
| SM024  | 8733805680   | 1            | 208-230/60/1     | 197/253         | 1          | 2.8           | 3.5              | 6.3             | 15            |
| SM036  | 8733805681   | 1            | 208-230/60/1     | 197/253         | 1          | 4.3           | 5.4              | 9.7             | 15            |
| SM048  | 8733805682   | 1            | 208-230/60/1     | 197/253         | 1          | 6.8           | 8.5              | 15.3            | 15            |
| SM060  | 8733805683   | 1            | 208-230/60/1     | 197/253         | 1          | 9.1           | 11.4             | 20.5            | 20            |

## Air Handler with Electric Heat Option - Constant CFM Variable Speed ECM all single circuit fused

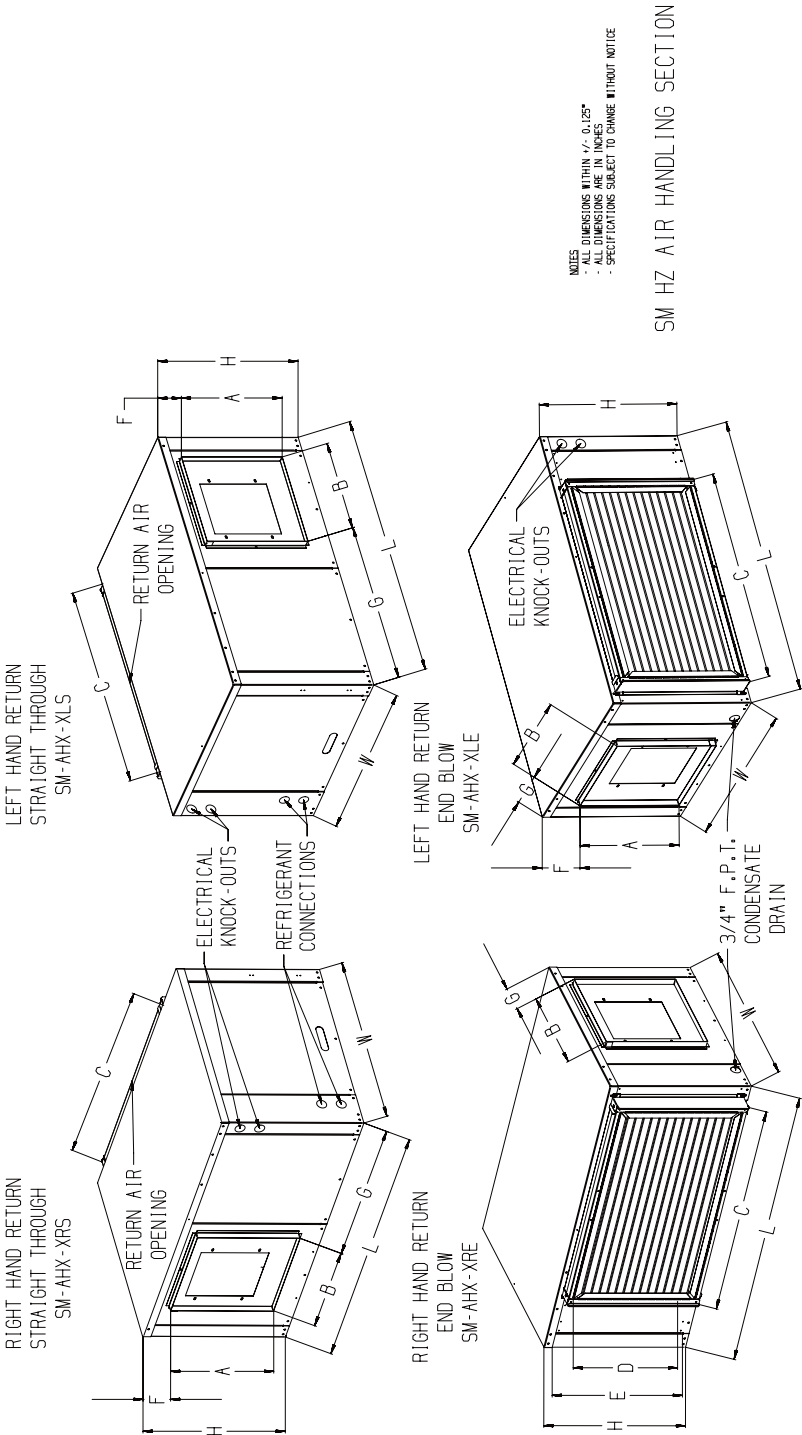
| Model | Electric Heater Rated kW | Stage | Heater Watts |       | Heater Amps |      | Motor FLA (A) | MCA   |      | MOCP |      |
|-------|--------------------------|-------|--------------|-------|-------------|------|---------------|-------|------|------|------|
|       |                          |       | 240V         | 208V  | 240V        | 208V |               | 240V  | 208V | 240V | 208V |
| SM024 | 4.8                      | 1     | 4,800        | 3,600 | 20.0        | 17.3 | 2.8           | 28.5  | 25.1 | 30   | 30   |
| SM036 | 4.8                      | 1     | 4,800        | 3,600 | 20.0        | 17.3 | 4.3           | 30.4  | 27.0 | 35   | 35   |
| SM036 | 9.6                      | 1     | 9,600        | 7,200 | 40.0        | 34.6 | 4.3           | 55.4  | 48.6 | 60   | 60   |
| SM048 | 4.8                      | 1     | 4,800        | 3,600 | 20.0        | 17.3 | 6.8           | 33.5  | 30.1 | 35   | 35   |
| SM048 | 9.6                      | 1     | 9,600        | 7,200 | 40.0        | 34.6 | 6.8           | 58.5  | 51.8 | 60   | 60   |
| SM048 | 14.4                     | 2     | 14400        | 10800 | 60          | 51.9 | 6.8           | 83.5  | 73.4 | 90   | 80   |
| SM060 | 4.8                      | 1     | 4,800        | 3,600 | 20.0        | 17.3 | 9.1           | 36.4  | 33.0 | 40   | 35   |
| SM060 | 9.6                      | 1     | 9,600        | 7,200 | 40.0        | 34.6 | 9.1           | 61.4  | 54.6 | 70   | 60   |
| SM060 | 14.4                     | 2     | 14400        | 10800 | 60          | 51.9 | 9.1           | 86.4  | 76.3 | 90   | 80   |
| SM060 | 19.2                     | 2     | 19200        | 14000 | 80          | 69.2 | 9.1           | 111.4 | 97.9 | 125  | 100  |

# GreenSource CDi Series SM Split AV/AH Air Handler Residential Geothermal Heat Pumps



## Air Handler Horizontal Dimensions and Connections

| MODEL | L     | W     | H     | A     | B     | C     | D     | E     | F    | G    | F    | G    | F    | G     | F    | G     | RECOMMENDED<br>REPLACEMENT<br>NOMINAL FILTER<br>SIZE |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|-------|------|-------|------------------------------------------------------|
| SM024 | 33.00 | 26.00 | 21.75 | 15.75 | 13.75 | 30.00 | 16.00 | 18.00 | 1.25 | 4.13 | 2.00 | 4.13 | 1.38 | 10.63 | 1.88 | 10.63 | 20 X 30 X 2                                          |
| SM036 | 33.00 | 26.00 | 21.75 | 15.75 | 13.75 | 30.00 | 16.00 | 18.00 | 1.25 | 4.13 | 2.00 | 4.13 | 1.38 | 10.63 | 1.88 | 10.63 | 20 X 30 X 2                                          |
| SM048 | 38.50 | 30.00 | 21.75 | 15.75 | 15.75 | 33.50 | 18.50 | 20.50 | 2.63 | 4.00 | 2.63 | 4.00 | 2.63 | 11.38 | 2.63 | 11.38 | 20 X 34.5 X 2                                        |
| SM060 | 38.50 | 30.00 | 21.75 | 17.75 | 17.75 | 33.50 | 18.50 | 20.50 | 1.50 | 4.13 | 1.75 | 4.13 | 1.75 | 10.38 | 1.50 | 10.38 | 20 X 34.5 X 2                                        |

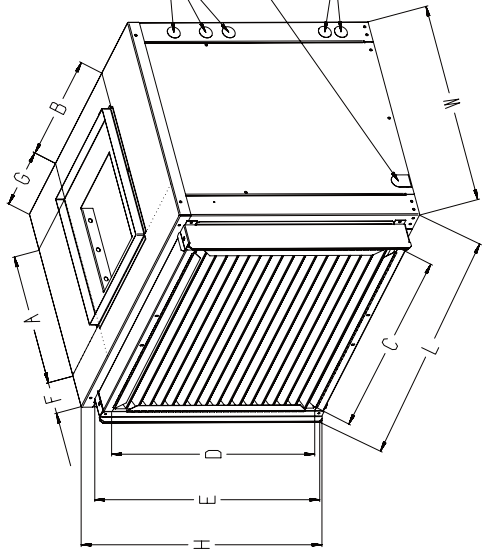




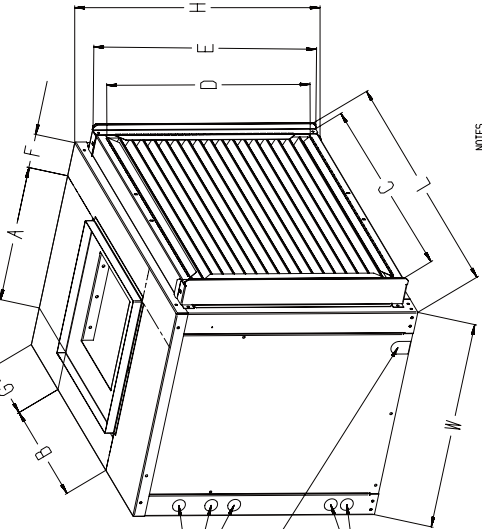
Air Handler Vertical Dimensions and Connections

| Model | L      | W     | H      | C                        | D                         | E                     | A                                             | B     | G    | F    | F   | RECOMMENDED<br>REPLACEMENT<br>NOMINAL FILTER SIZE |
|-------|--------|-------|--------|--------------------------|---------------------------|-----------------------|-----------------------------------------------|-------|------|------|-----|---------------------------------------------------|
|       | LENGTH | WIDTH | HEIGHT | R/A DUCT<br>FLANGE WIDTH | R/A DUCT<br>FLANGE HEIGHT | FILTER RACK<br>HEIGHT | TOP BLOW UNITS (XLT & XRT)<br>S/A DUCT COLLAR |       |      |      |     |                                                   |
| SM024 | 26.00  | 21.50 | 25.75  | 22.00                    | 22.25                     | 24.00                 | 15.75                                         | 13.75 | 6.13 | 5.25 | XLT | 24 X 24 X 2                                       |
| SM036 | 26.00  | 21.50 | 25.75  | 22.00                    | 22.25                     | 24.00                 | 15.75                                         | 13.75 | 6.13 | 5.25 | XLT | 24 X 24 X 2                                       |
| SM048 | 32.75  | 24.00 | 25.75  | 28.50                    | 22.25                     | 24.00                 | 15.75                                         | 15.75 | 8.38 | 5.50 |     | 24 X 30 X 2                                       |
| SM060 | 33.25  | 26.00 | 27.75  | 28.50                    | 22.25                     | 24.00                 | 17.75                                         | 17.75 | 8.37 | 6.25 |     | 24 X 30 X 2                                       |

LEFT HAND RETURN  
 TOP BLOW  
 SM-AVX-XLT



RIGHT HAND RETURN  
 TOP BLOW  
 SM-AVX-XRT



NOTES  
 • ALL DIMENSIONS WITHIN +/- 0.125"  
 • ALL DIMENSIONS ARE IN INCHES  
 • SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

SM VT AIR HANDLING SECTION

# GreenSource CDi Series SM Split AV/AH Air Handler Residential Geothermal Heat Pumps



# BOSCH

## Blower Performance Data - ECM Const CFM Motor - Eon

| Models             | Fan Speed | Rated Airflow | Adjust | Tap | External Static Pressure (Inches of W.C.) |      |      |      |      |      |      |      |      |      |
|--------------------|-----------|---------------|--------|-----|-------------------------------------------|------|------|------|------|------|------|------|------|------|
|                    |           |               |        |     | 0.10                                      | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 | 1.00 |
| SM024<br>Part Load | Hi        | 600           | +      | A   | 600                                       | 600  | 600  | 600  | 600  | 600  | 600  | 600  | -    | -    |
|                    | Med       | 500           | Normal | A   | 500                                       | 500  | 500  | 500  | 500  | 500  | 500  | 500  | -    | -    |
|                    | Low       | 425           | -      | A   | 425                                       | 425  | 425  | 425  | 425  | 425  | 425  | 425  | -    | -    |
| SM024<br>Full Load | Hi        | 900           | +      | A   | 900                                       | 900  | 900  | 900  | 900  | 900  | 900  | 900  | -    | -    |
|                    | Med       | 750           | Normal | A   | 750                                       | 750  | 750  | 750  | 750  | 750  | 750  | 750  | -    | -    |
|                    | Low       | 650           | -      | A   | 650                                       | 650  | 650  | 650  | 650  | 650  | 650  | 650  | -    | -    |
| SM036<br>Part Load | Hi        | 1200          | +      | A   | 1200                                      | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 | 1200 |
|                    | Med       | 1050          | Normal | A   | 1050                                      | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 |
|                    | Low       | 900           | -      | A   | 900                                       | 900  | 900  | 900  | 900  | 900  | 900  | 900  | 900  | 900  |
| SM036<br>Full Load | Hi        | 1400          | +      | A   | 1400                                      | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 | 1400 |
|                    | Med       | 1225          | Normal | A   | 1225                                      | 1225 | 1225 | 1225 | 1225 | 1225 | 1225 | 1225 | 1225 | 1225 |
|                    | Low       | 1050          | -      | A   | 1050                                      | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 |
| SM048<br>Part Load | Hi        | 1100          | +      | B   | 1100                                      | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 | 1100 |
|                    | Med       | 925           | Normal | B   | 925                                       | 925  | 925  | 925  | 925  | 925  | 925  | 925  | 925  | 925  |
|                    | Low       | 800           | -      | B   | 800                                       | 800  | 800  | 800  | 800  | 800  | 800  | 800  | 800  | 800  |
| SM048<br>Full Load | Hi        | 1700          | +      | B   | 1700                                      | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 |
|                    | Med       | 1500          | Normal | B   | 1500                                      | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
|                    | Low       | 1275          | -      | B   | 1275                                      | 1275 | 1275 | 1275 | 1275 | 1275 | 1275 | 1275 | 1275 | 1275 |
| SM060<br>Part Load | Hi        | 1725          | +      | A   | 1725                                      | 1725 | 1725 | 1725 | 1725 | 1725 | 1725 | 1725 | 1725 | 1725 |
|                    | Med       | 1500          | Normal | A   | 1500                                      | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
|                    | Low       | 1275          | -      | A   | 1275                                      | 1275 | 1275 | 1275 | 1275 | 1275 | 1275 | 1275 | 1275 | 1275 |
| SM060<br>Full Load | Hi        | 2300          | +      | A   | 2300                                      | 2300 | 2300 | 2300 | 2300 | 2300 | 2300 | 2300 | 2300 | 2300 |
|                    | Med       | 2000          | Normal | A   | 2000                                      | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
|                    | Low       | 1700          | -      | A   | 1700                                      | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 | 1700 |

## Factory Installed Option - Internal Electric Heat for SM AV Units

| Kilowatt Heater - 208/230V   | SM024 | SM036 | SM048 | SM060 |
|------------------------------|-------|-------|-------|-------|
| Electric Heat - 3.6/4.8 kW   | •     | •     | •     | •     |
| Electric Heat - 7.8/9.6 kW   | •     | •     | •     | •     |
| Electric Heat - 10.8/14.4 kW |       | •     | •     | •     |
| Electric Heat - 14.4/19.2 kW |       |       | •     | •     |

## Factory Installed Option - Internal Electric Heat for SM AH Units

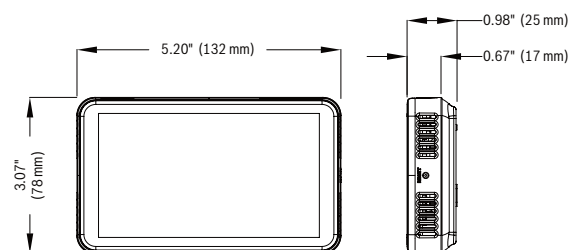
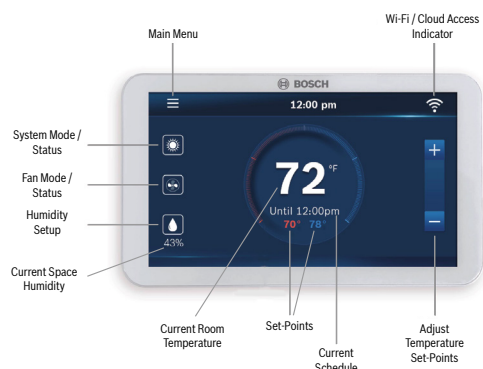
| Kilowatt Heater - 208/230V   | SM024 | SM036 | SM048 | SM060 |
|------------------------------|-------|-------|-------|-------|
| Electric Heat - 3.6/4.8 kW   | •     | •     | •     | •     |
| Electric Heat - 7.8/9.6 kW   | •     | •     | •     | •     |
| Electric Heat - 10.8/14.4 kW |       | •     | •     | •     |
| Electric Heat - 14.4/19.2 kW |       |       | •     | •     |



# GreenSource CDi Series SM Split AV/AH Air Handler Residential Geothermal Heat Pumps



## Field Installed Accessory - Bosch Connected Control Wi-Fi Thermostat



| Description                      | Part Number | Heat | Cool | Humidity |
|----------------------------------|-------------|------|------|----------|
| Bosch Connected Control (BCC100) | 8733948 009 | 4    | 2    | Yes      |

### Specifications

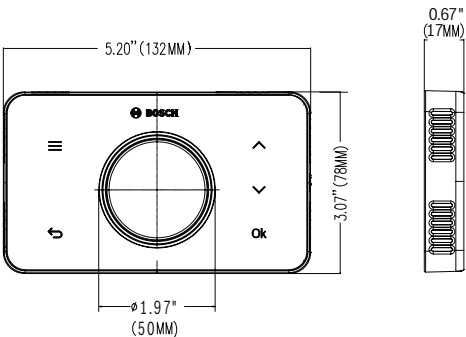
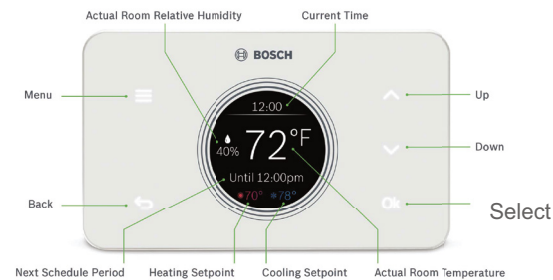
- 5 Inch Touch Screen 854 x 480 Pixels
- 7 Relay Outputs (Terminals) G, Y1, Y2, W1, W2, O/B, H/dH
- 1 Data Input (Pulse signals from Bosch WSHP)
- Displays Bosch Water Source Heat Pump Fault Messages
- Wi-Fi (802.11a/b/g/n) 2.4GHz (not compatible with 5GHz)
- FCC and IC Certification
- 5 Year Limited Warranty (see <https://www.bosch-thermotechnology.us/us/en/residential/service/product-warranty-library/> for details)

### Compatibility

- Conventional (Gas, Oil, Electric): Up to 2 Heat / 2 Cool
- Heat Pump (O/B to energize reversing valve in cool/heat): Up to 4 Heat / 2 Cool
- Supports up to 1 Accessory Unit: Humidifier or Dehumidifier (not provided by Bosch)
- Unit Modes: Heat, Cool, Auto, Off, Emergency Heat
- Fan Modes: Auto, On, Circulate
- Supports 2 Transformer Systems (Rh and Rc)
- C-Wire Required for Installation
- Supports Active and Passive Dehumidification without the need for external relays, such as Bosch Water Source Heat Pump products equipped with a Hot Gas Reheat Coil and/or ECM motor
- Supports dual fuel applications



Field Installed Accessory - Bosch Connected Control Wi-Fi Thermostat



| Description                     | Part Number | Heat | Cool | Humidity |
|---------------------------------|-------------|------|------|----------|
| Bosch Connected Control (BCC50) | 8733952994  | 3    | 2    | Yes      |

| Specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>2.8 Inch Touch Screen 240 x 320 Pixels</li> <li>5 Back-lit Touch Buttons</li> <li>6 Relay Terminals: G, Y1, Y2, W/E/AUX, O/B/W2, H/DH</li> <li>Wi-Fi (802.11b/g/n) 2.4GHz</li> <li>FCC and IC Certification</li> <li>3 Year Limited Warranty (see <a href="https://www.bosch-thermotechnology.us/us/en/residential/service/product-warranty-library/">https://www.bosch-thermotechnology.us/us/en/residential/service/product-warranty-library/</a> for details)</li> </ul> |

| Compatibility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Conventional (Gas, Oil, Electric): Up to 2 Heat / 2 Cool</li> <li>Heat Pump (O/B/W2 to energize reversing valve in cool/heat): Up to 3 Heat / 2 Cool</li> <li>Supports up to 1 Accessory Unit: Humidifier or Dehumidifier (not provided by Bosch)</li> <li>Unit Modes: Heat, Cool, Auto, Em Heat (Heat Pump &amp; Dual Fuel only), Off</li> <li>Fan Modes: Auto, On, Circulate</li> <li>Supports 2 Transformer Systems (Rh and Rc)</li> <li>C-Wire Required for Installation</li> <li>Supports Active and Passive Dehumidification without the need for external relays, such as Bosch Water Source Heat Pump products equipped with a Hot Gas Reheat Coil and/or ECM motor</li> </ul> |