

GreenSource CDI series
Model SM Rev A/B
Residential Geothermal Heat Pump

Engineering
 Submittal
 Sheet



BOSCH

Overview and Certifications



Standard Features 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
 - LCD Display - for Easy View of Unit Operation
- ▶ **High Efficiency**
 - Up to 4.7 COP @ PL GLHP
 - Up to 4.3 COP @ FL GLHP
 - Up to 30.0 EER @ PL GLHP
 - Up to 21.0 EER @ FL GLHP
- ▶ **Electronically Commutated Motors**
 - Constant CFM Variable Speed High Efficiency ECM
- ▶ **Closed Cell (Fiber Free) Insulation**
 - Improved Indoor Air Quality
 - Floating Base Pan

- ▶ **Reliability - Durability - Serviceability**
 - Evaporator Coil - Tin-plated copper tubing hair pins with high-tech polymer coated aluminum fins (DuoGuard™)*
 - Alert Communicating Electronic Circuit Board
- ▶ **Electronic Circuit Board**
 - Low Pressure Switch Protection
 - High Pressure Switch Protection
 - Alarm Output
 - Condensate overflow protection
 - Anti-Short Cycling
 - Low Pressure Bypass at Start Up
 - Random Start of Unit
 - Brown Out Protection
 - Evaporator Freeze Protection
 - Water Coil/Coaxial Coil/Condenser Freeze Protection
 - Connections for a communicating thermostat and unit external status LCD for easy view of unit operation

* Available only for Vertical models. For Horizontal models, tin-plated copper tubing only is available.

Bosch Thermotechnology Corp.
 Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL



Standard Features and Field Installed Accessories continued..

- ▶ **Standard Warranty**
 - 10 Year All Parts Limited Warranty
 - 10 Year Labor Limited Warranty

- ▶ **Domestic Hot Water Heat Recovery Package (Desuperheater):**
 - Utilizes the compressor's superheated discharge gas to preheat domestic hot water, reducing the amount of electricity or fossil fuels otherwise used for hot water.

- ▶ **Cupro-nickel Coils:**
 - Cupro-Nickel coils are recommended for applications where the water is of lower quality. Only coils are cupro-nickel. All fittings and straight lengths of pipe will be copper.

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.
 - Passive dehumidification can be achieved via ECM fan controls paired with optional Bosch thermostat with humidity control

- ▶ **Internally Mounted Electric Heat Kits:**
 - A field installed option for back up heat. Available in 5, 10, 15, or 20 kW depending on the size of the geothermal heat pump.

- ▶ **Stainless Steel Hose Kits:**
 - Available in various lengths and diameters depending on the need for your application.

- ▶ **SmartStart Assist Kit:**
 - An option which provides a means of reducing inrush currents at compressor startup. Light flickering is eliminated, and a smooth start is achieved.

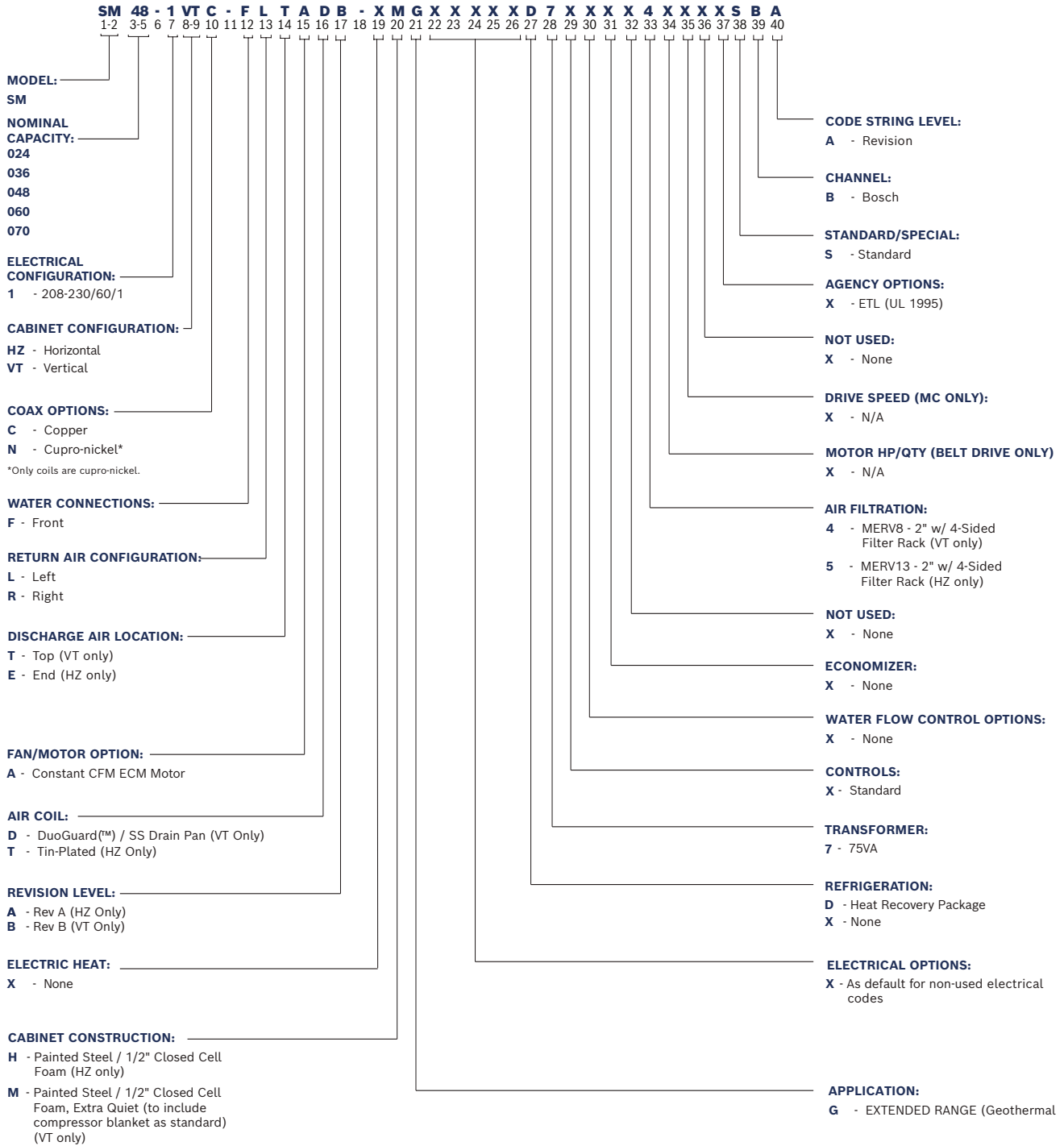
- ▶ **Horizontal Discharge Air Conversion Kit:**
 - The horizontal conversion kit allows end blow to straight through conversion of discharge air, as the straight through configuration for horizontal is no longer available.

- ▶ **Pump/Valve Relay Kit:**
 - This relay is 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.

- ▶ **Externally Mounted Duct Heater Kits**

- ▶ **Flow Center Kits**

Model Nomenclature



GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



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| Physical Data | | | | | | |
|---|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Description | Unit | Value | | | | |
| | | SM024 | SM036 | SM048 | SM060 | SM070 |
| Compressor Type (Qty 1) | — | Scroll | Scroll | Scroll | Scroll | Scroll |
| Refrigeration Charge VT | Oz. | 45 | 73 | 75 | 98 | 94 |
| Refrigeration Charge HZ only | Oz. | 58 | 85 | 77 | 100 | 114 |
| Max Water Working Pressure | PSIG/kPa | 450/3100 | 450/3100 | 450/3100 | 450/3100 | 450/3100 |
| Max Water Working Pressure w/ Swivel fittings | PSIG/kPa | 125/861 | 125/861 | 125/861 | 125/861 | 125/861 |
| Fan Motor and Blower | | | | | | |
| Fan Motor Type/Speeds | — | ECM Const Air Flow | ECM Const Air Flow | ECM Const Air Flow | ECM Const Air Flow | ECM Const Air Flow |
| Fan Motor (HP) | HP | 0.33 | 0.75 | 0.75 | 1.00 | 1.00 |
| Blower Wheel Size VT | Inch (Dia. x W) | 9 X 7 | 11 X 11 | 11 X 11 | 11 X 11 | 11 X 11 |
| Blower Wheel Size HZ only | Inch (Dia. x W) | 10 X 8 | 11 X 9 | 11 X 9 | 11 X 11 | 11 X 11 |
| Water Connection Size | | | | | | |
| FPT VT (Factory brazed non-swivel type) | Inch | 3/4 | 1.0 | 1.0 | 1.0 | 1.0 |
| FPT HZ only (Factory brazed swivel) | Inch | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Field installed Swivel fittings (Shipped loose with unit) | Inch | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| Coaxial Coil Volume VT | Gal | 0.43 | 0.73 | 0.64 | 1.08 | 1.08 |
| Coaxial Coil Volume HZ only(gal) | Gal | 0.33 | 1.18 | 0.62 | 1.07 | 1.12 |
| Vertical Cabinet | | | | | | |
| Air Coil Dimensions (H x W) | Inch (H x W) | 24 x 21 | 32x28.3 | 32x28.3 | 36x28.3 | 36x28.3 |
| Air Coil Fin Density | Fins/Inch | 14 | 14 | 14 | 14 | 14 |
| Nominal size of Standard Filter - 2" MERV 8 (L x H) | Inch (L x H) | 24 X 24 | 16 X 30 (2) | 16 X 30 (2) | 20 X 30 (2) | 20 X 30 (2) |
| Weight - Operating (lbs)* | lbs | 220 | 360 | 340 | 375 | 375 |
| Weight - Shipping (lbs)* | lbs | 300 | 460 | 450 | 500 | 500 |
| Horizontal Cabinet | | | | | | |
| Air Coil Dimensions (H x W) | Inch (H x W) | 18 X 31.5 | 20 X 42 | 20 X 42 | 20 X 49 | 20 X 49 |
| Air Coil Fin Density | Fins/Inch | 14 | 14 | 14 | 14 | 14 |
| Nominal size of Standard Filter - 2" MERV13 (L x H) | Inch (L x H) | 18 X 18 (2) | 20 X 24 (2) | 20 X 24 (2) | 18 X 20 (3) | 18 X 20 (3) |
| Weight - Operating (lbs)* | lbs | 260 | 375 | 355 | 430 | 460 |
| Weight - Shipping (lbs)* | lbs | 360 | 495 | 470 | 550 | 580 |

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

GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



| ASHRAE/AHRI/ISO 13256-1. English (I-P) Units | | | | | | | | | | | | | | | | |
|--|-------------|-------------|-----------------|------|----------------------|------------|------------------|------|------------------------|------------|------------------|------|---|------------|---|------|
| Models | Coax Coil | Orientation | Fluid Flow Rate | Load | 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 Full Load 77 °F Part Load 68 °F | | Heating Full Load 32 °F Part Load 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 |
| SM024 | Copper/CuNi | VT | 6 | Full | 26200 | 16.20 | 30300 | 5.60 | 29400 | 24.85 | 24700 | 4.90 | 26900 | 18.90 | 18700 | 4.10 |
| | Copper/CuNi | VT | 6 | Part | 19600 | 18.30 | 22800 | 6.50 | 22400 | 32.15 | 18200 | 5.30 | 21300 | 29.90 | 15500 | 4.50 |
| | Copper | HZ | 6 | Full | 25500 | 16.60 | 29200 | 5.60 | 29000 | 25.75 | 23500 | 5.00 | 26600 | 19.90 | 18000 | 3.70 |
| | Copper | HZ | 6 | Part | 18500 | 18.40 | 21200 | 6.20 | 21700 | 31.85 | 16700 | 5.20 | 21000 | 27.00 | 14400 | 4.10 |
| | CuNi | HZ | 6 | Full | 25500 | 15.65 | 29200 | 5.60 | 29000 | 24.10 | 23500 | 5.00 | 26600 | 18.30 | 18000 | 3.70 |
| | CuNi | HZ | 6 | Part | 18500 | 17.50 | 21200 | 6.40 | 21700 | 29.90 | 16700 | 5.20 | 21000 | 25.70 | 14400 | 4.10 |
| SM036 | Copper/CuNi | VT | 10 | Full | 39300 | 18.60 | 46300 | 6.20 | 44300 | 27.10 | 36700 | 5.40 | 40200 | 21.00 | 28200 | 4.30 |
| | Copper/CuNi | VT | 10 | Part | 28900 | 20.40 | 33100 | 7.20 | 32800 | 35.10 | 26000 | 5.60 | 31600 | 30.00 | 22000 | 4.70 |
| | Copper/CuNi | HZ | 9 | Full | 38100 | 17.45 | 42800 | 5.10 | 43300 | 26.00 | 35900 | 4.55 | 39900 | 20.20 | 28400 | 3.95 |
| | Copper/CuNi | HZ | 9 | Part | 27500 | 19.90 | 31000 | 5.60 | 31300 | 33.20 | 25200 | 4.65 | 30000 | 26.00 | 22400 | 4.10 |
| SM048 | Copper/CuNi | VT | 12 | Full | 50500 | 15.95 | 60300 | 5.45 | 56900 | 24.30 | 49200 | 4.90 | 51800 | 18.60 | 38200 | 4.20 |
| | Copper/CuNi | VT | 12 | Part | 37100 | 17.80 | 44200 | 6.20 | 42600 | 31.50 | 35500 | 5.10 | 40100 | 26.40 | 30600 | 4.40 |
| | Copper | HZ | 12 | Full | 49200 | 16.10 | 56100 | 5.40 | 55300 | 24.40 | 46300 | 4.80 | 51300 | 18.75 | 36900 | 4.10 |
| | Copper | HZ | 12 | Part | 36700 | 18.30 | 40900 | 6.30 | 42000 | 31.80 | 33700 | 5.30 | 39900 | 26.85 | 29800 | 4.70 |
| | CuNi | HZ | 12 | Full | 49200 | 15.50 | 56100 | 5.30 | 55300 | 23.80 | 46300 | 4.80 | 51300 | 18.00 | 36900 | 4.10 |
| | CuNi | HZ | 12 | Part | 36700 | 17.50 | 40900 | 6.10 | 42000 | 30.80 | 33700 | 5.00 | 39900 | 26.00 | 29800 | 4.50 |
| SM060 | Copper/CuNi | VT | 15 | Full | 62500 | 15.35 | 78300 | 5.40 | 71600 | 24.00 | 62400 | 4.70 | 63900 | 18.60 | 48600 | 4.00 |
| | Copper/CuNi | VT | 15 | Part | 46400 | 17.70 | 57600 | 6.00 | 53500 | 30.60 | 45900 | 4.90 | 51100 | 25.20 | 39900 | 4.40 |
| | Copper/CuNi | HZ | 15 | Full | 63800 | 15.45 | 73300 | 4.80 | 70200 | 22.30 | 60300 | 4.35 | 65100 | 17.60 | 45500 | 3.70 |
| | Copper/CuNi | HZ | 15 | Part | 47500 | 17.20 | 53600 | 5.65 | 53300 | 29.30 | 44300 | 4.65 | 51600 | 25.00 | 37200 | 4.10 |
| SM070 | Copper/CuNi | VT | 18 | Full | 69700 | 14.30 | 88900 | 5.00 | 78900 | 22.10 | 72600 | 4.40 | 71500 | 17.30 | 56000 | 3.70 |
| | Copper/CuNi | VT | 18 | Part | 52900 | 16.40 | 67700 | 5.50 | 61200 | 26.90 | 53800 | 4.60 | 58100 | 23.30 | 46100 | 4.10 |
| | Copper/CuNi | HZ | 18 | Full | 71600 | 14.10 | 84000 | 4.80 | 78700 | 21.20 | 70000 | 4.35 | 73700 | 16.40 | 55300 | 3.60 |
| | Copper/CuNi | HZ | 18 | Part | 55200 | 15.30 | 64900 | 5.20 | 60800 | 26.40 | 48400 | 4.45 | 60300 | 22.00 | 46900 | 4.00 |



| Electrical Data (ECM Blower Motor) | | | | | | | | | | | |
|------------------------------------|--------------|------------------|-----------------|------------|------|-------|--|------------------|-----------------|----------------|--|
| Models | Voltage Code | Voltage/Phase/Hz | Voltage Min/Max | Compressor | | | Total Unit Variable Speed Constant CFM High Efficiency Motor | | | | |
| | | | | QTY | RLA | LRA | FLA | Min Circuit Amps | MOP Calculation | Max Fuse/ HACR | |
| SM024 | 1 | 208-230/1/60 | 197/253 | 1 | 11.7 | 58.3 | 2.8 | 17.4 | 29.0 | 25 | |
| SM036 | 1 | 208-230/1/60 | 197/253 | 1 | 15.6 | 83.0 | 6.8 | 26.3 | 41.9 | 40 | |
| SM048 | 1 | 208-230/1/60 | 197/253 | 1 | 21.2 | 104.0 | 6.8 | 33.2 | 54.4 | 50 | |
| SM060 | 1 | 208-230/1/60 | 197/253 | 1 | 26.9 | 139.9 | 9.1 | 42.7 | 69.6 | 60 | |
| SM070 | 1 | 208-230/1/60 | 197/253 | 1 | 29.7 | 179.2 | 9.1 | 46.2 | 75.9 | 70 | |

i Values shown above do not include electric heat option.

i Units with Factory Installed Electric Heat option will have two separate data plates for each electrical circuit.

GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



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1st Data plate for units with EH field installed kit - compressor power connection

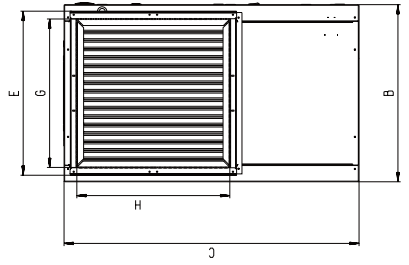
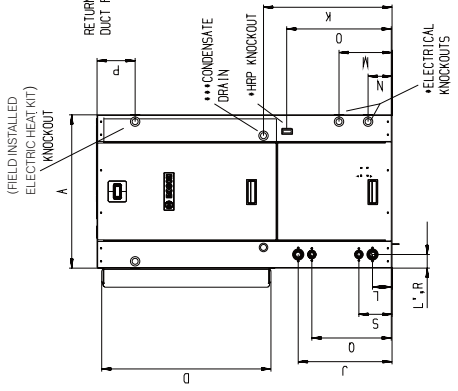
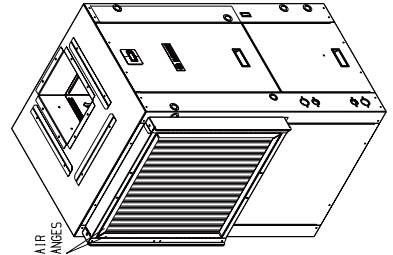
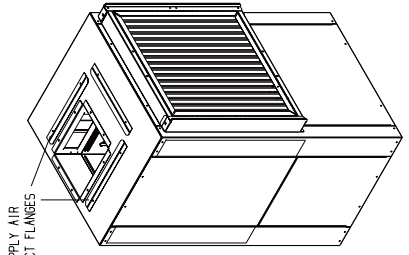
| Models | Voltage Code | Voltage/Phase/Hz | Voltage Min/Max | Compressor | | | | | |
|--------|--------------|------------------|-----------------|------------|------|-------|------------------|-----------------|----------------|
| | | | | QTY | RLA | LRA | Min Circuit Amps | MOP Calculation | Max Fuse/ HACR |
| SM024 | 1 | 208-230/1/60 | 197/253 | 1 | 11.7 | 58.3 | 14.6 | 26.2 | 25 |
| SM036 | 1 | 208-230/1/60 | 197/253 | 1 | 15.6 | 83.0 | 19.5 | 35.1 | 35 |
| SM048 | 1 | 208-230/1/60 | 197/253 | 1 | 21.2 | 104.0 | 26.4 | 47.6 | 45 |
| SM060 | 1 | 208-230/1/60 | 197/253 | 1 | 26.9 | 139.9 | 33.6 | 60.5 | 60 |
| SM070 | 1 | 208-230/1/60 | 197/253 | 1 | 29.7 | 179.2 | 37.1 | 66.8 | 60 |

2nd data plate for units with EH field installed kit - Constant Airflow ECM motor

| Model | Electric Heater Rated kW | Stage | Heater Watts | | Heater Amps | | Motor FLA (A) | Circuit Fuses | MCA | | MOP | |
|-------|--------------------------|-------|--------------|-------|-------------|------|---------------|----------------|-------|------|------|------|
| | | | 240V | 208V | 240V | 208V | | | 240V | 208V | 240V | 208V |
| SM024 | 4.8 | 1 | 4800 | 3600 | 20 | 17.3 | 2.8 | - | 28.5 | 25.1 | 30 | 30 |
| | 9.6 | 1 | 9600 | 7200 | 40 | 34.6 | 2.8 | - | 53.5 | 46.8 | 30 | 50 |
| SM036 | 4.8 | 1 | 4800 | 3600 | 20 | 17.3 | 6.8 | - | 33.5 | 30.1 | 35 | 35 |
| | 9.6 | 1 | 9600 | 7200 | 40 | 34.6 | 6.8 | - | 58.5 | 51.8 | 60 | 60 |
| | 14.4 | 2 | 14400 | 10800 | 60 | 51.9 | 6.8 | F1/F2 F3/F4 | 83.5 | 73.4 | 90 | 80 |
| SM048 | 4.8 | 1 | 4800 | 3600 | 20 | 17.3 | 6.8 | - | 33.5 | 30.1 | 35 | 35 |
| | 9.6 | 1 | 9600 | 7200 | 40 | 34.6 | 6.8 | - | 58.5 | 51.8 | 60 | 60 |
| | 14.4 | 2 | 14400 | 10800 | 60 | 51.9 | 6.8 | F1/F2 F3/F4 | 83.5 | 73.4 | 90 | 80 |
| | 19.2 | 2 | 19200 | 14000 | 80 | 69.2 | 6.8 | F1/F2 F3/F4 | 108.5 | 95.0 | 110 | 100 |
| SM060 | 4.8 | 1 | 4800 | 3600 | 20 | 17.3 | 9.1 | - | 36.4 | 33.0 | 40 | 35 |
| | 9.6 | 1 | 9600 | 7200 | 40 | 34.6 | 9.1 | - | 61.4 | 54.6 | 70 | 60 |
| | 14.4 | 2 | 14400 | 10800 | 60 | 51.9 | 9.1 | F1/F2 F3/F4 | 86.4 | 76 | 90 | 80 |
| | 19.2 | 2 | 19200 | 14000 | 80 | 69.2 | 9.1 | F1/F2 F3/F4 | 111.4 | 97.9 | 125 | 100 |
| SM070 | 4.8 | 1 | 4800 | 3600 | 20 | 17.3 | 9.1 | - | 36.4 | 33.0 | 40 | 35 |
| | 9.6 | 1 | 9600 | 7200 | 40 | 34.6 | 9.1 | - | 61.4 | 54.6 | 70 | 60 |
| | 14.4 | 2 | 14400 | 10800 | 60 | 51.9 | 9.1 | F1/F2 F3/F4 | 86.4 | 76 | 90 | 80 |
| | 19.2 | 2 | 19200 | 14000 | 80 | 69.2 | 9.1 | F1/F2 F3/F4 | 111.4 | 97.9 | 125 | 100 |

SM-VT Dimensions and Connections

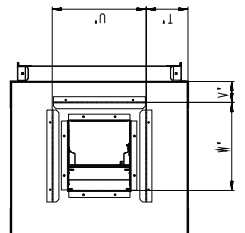
| MODEL | A | B | C | D | E | F | G | H | J | K | L | L' | M | N | O | P | Q | R | S | T | T' | U | U' | V | V' | W | W' | FILER SIZE (lb/g/Unit) | |
|----------|------|------|------|------|------|------|------|------|-----|---|-----|-----|------|-----|------|---|-----|-----|-----|-----|------|------|-----|-----|------|------|------|------------------------|------------|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | WIDTH |
| SM024-VT | 22.5 | 26 | 43.3 | 24.4 | 2.8 | 22.5 | 13.8 | 18.9 | 2.9 | 2 | 7.8 | 3.5 | 15.5 | 5.6 | 11.8 | 2 | 4.9 | 6.1 | 6.1 | 6.1 | 13.7 | 13.7 | 1.4 | 3.1 | 15.6 | 13.4 | 3/4" | F.P.T. | 24x24x2(1) |
| SM036-VT | 24.5 | 33.3 | 54 | 32.4 | 30.6 | 2.8 | 28.3 | 30.4 | 2.9 | 2 | 7.8 | 3.5 | 15.5 | 5.6 | 13.5 | 2 | 5.9 | 8.1 | 8.1 | 8.1 | 17.8 | 17.8 | 1.4 | 4 | 17.6 | 15.6 | 1" | F.P.T. | 16x30x2(2) |
| SM048-VT | 24.5 | 33.3 | 54 | 32.4 | 30.6 | 2.8 | 28.3 | 30.4 | 2.9 | 2 | 7.8 | 3.5 | 15.5 | 5.6 | 13.5 | 2 | 5.9 | 8.1 | 8.1 | 8.1 | 17.8 | 17.8 | 1.4 | 4 | 17.6 | 15.6 | 1" | F.P.T. | 16x30x2(2) |
| SM060-VT | 26 | 33.3 | 60.1 | 40.8 | 30.6 | 2.8 | 28.4 | 36.9 | 2.9 | 2 | 7.8 | 3.5 | 15.5 | 5.6 | 12.3 | 2 | 5.9 | 8.1 | 8.1 | 8.1 | 17.8 | 17.8 | 2 | 5.4 | 17.6 | 15.6 | 1" | F.P.T. | 20x30x2(2) |
| SM070-VT | 26 | 33.3 | 60.1 | 40.8 | 30.6 | 2.8 | 28.4 | 36.9 | 2.9 | 2 | 7.8 | 3.5 | 15.5 | 5.6 | 12.3 | 2 | 5.9 | 8.1 | 8.1 | 8.1 | 17.8 | 17.8 | 2 | 5.4 | 17.6 | 15.6 | 1" | F.P.T. | 20x30x2(2) |



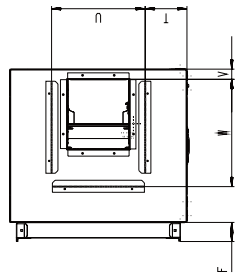
LEFT HAND RETURN SHOWN

- NOTES:
- HRP & ELECTRICAL HEAT ARE OPTIONAL FEATURES
 - HRP WATER CONNECTIONS - 1/2" FPT
 - CONDENSATE DRAIN CONNECTION - 3/4" FPT
 - ALL DIMENSIONS WITHIN +/- 0.125"
 - RETURN & SUPPLY AIR DUCT FLANGES SHIPPED UNFOLDED
 - ALL DIMENSIONS ARE IN INCHES
 - SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 - SNIPEL TYPE WATER FITTINGS PROVIDES 1.5" FROM PANEL
 - UNIT SHIPPED WITH SWIVEL FITTING 1.00" FPT FOR FIELD INSTALLATION

RIGHT HAND RETURN



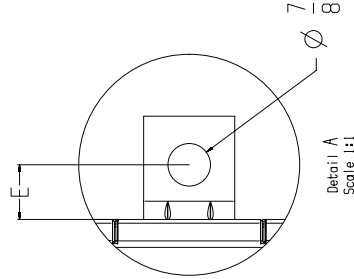
LEFT HAND RETURN





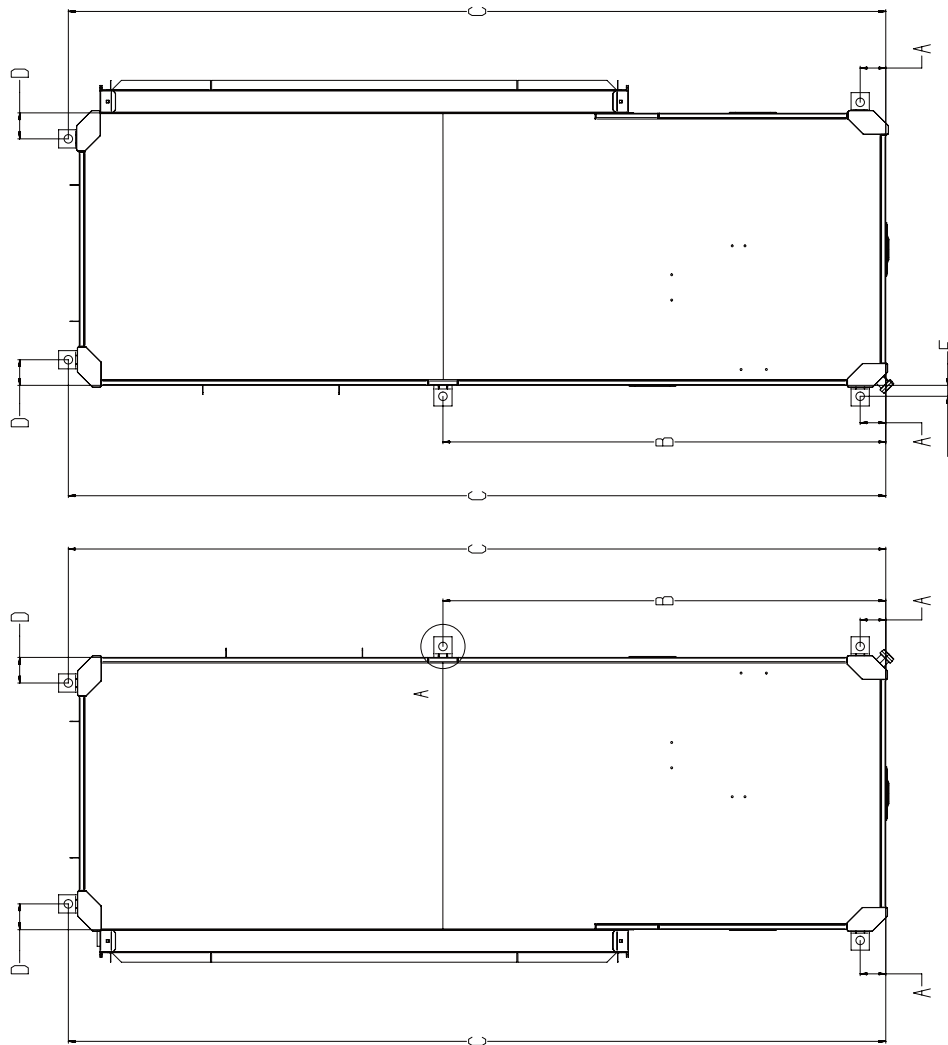
SM-HZ Hanging Bracket Dimensions and Connections

| Model | A | B | C | D | E |
|----------|-------|--------|--------|-----------------|-------|
| SM024-HZ | 2.634 | 32.817 | 65.225 | 2.634 | 1.125 |
| SM036-HZ | 2.634 | 33.972 | 77.125 | 2.634 | 1.125 |
| SM048-HZ | 2.634 | 33.972 | 77.125 | 2.634 | 1.125 |
| SM060-HZ | 2.634 | 45.573 | 84.125 | 2.634 | 1.125 |
| SM070-HZ | 2.634 | 45.573 | 84.125 | 2.634 <td 1.125 | |



NOTES
 -ALL DIMENSIONS WITHIN +/- 0.125"
 -ALL DIMENSIONS ARE IN INCHES
 -SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE
 -DIMENSION "E" IS TYPICAL FOR ALL MODELS, CONFIGURATIONS AND BRACKET POSITIONS

HANGING BRACKET LOCATION SPECIFICATIONS



GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



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| SM024 HZ Full Load Cooling Performance Data - 930 CFM | | | | | | | | |
|---|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 3 | 0.7 | 75/63 | 26.4 | 21.6 | 31.2 | 1.4 | 19.0 |
| | | | 80/67 | 28.1 | 22.2 | 32.9 | 1.4 | 19.8 |
| | | | 85/71 | 29.7 | 22.9 | 34.7 | 1.4 | 20.6 |
| | 4.5 | 1.2 | 75/63 | 27.5 | 21.9 | 31.9 | 1.3 | 21.2 |
| | | | 80/67 | 29.2 | 22.6 | 33.7 | 1.3 | 22.1 |
| | | | 85/71 | 30.9 | 23.2 | 35.6 | 1.3 | 23.2 |
| | 6 | 2.4 | 75/63 | 28.0 | 22.2 | 32.3 | 1.2 | 22.4 |
| | | | 80/67 | 29.7 | 22.8 | 34.1 | 1.3 | 23.5 |
| | | | 85/71 | 31.6 | 23.6 | 36.0 | 1.3 | 24.8 |
| 60 | 3 | 0.7 | 75/63 | 25.3 | 21.0 | 30.4 | 1.5 | 16.7 |
| | | | 80/67 | 26.8 | 21.7 | 32.0 | 1.5 | 17.4 |
| | | | 85/71 | 28.4 | 22.5 | 33.7 | 1.6 | 18.2 |
| | 4.5 | 1.2 | 75/63 | 26.2 | 21.4 | 31.0 | 1.4 | 18.5 |
| | | | 80/67 | 27.8 | 22.1 | 32.8 | 1.4 | 19.4 |
| | | | 85/71 | 29.6 | 22.7 | 34.6 | 1.5 | 20.3 |
| | 6 | 2.4 | 75/63 | 26.7 | 21.6 | 31.4 | 1.4 | 19.5 |
| | | | 80/67 | 28.4 | 22.4 | 33.1 | 1.4 | 20.5 |
| | | | 85/71 | 30.2 | 22.9 | 35.0 | 1.4 | 21.6 |
| 70 | 3 | 0.7 | 75/63 | 24.0 | 20.7 | 29.6 | 1.6 | 14.6 |
| | | | 80/67 | 25.5 | 21.2 | 31.2 | 1.7 | 15.3 |
| | | | 85/71 | 27.0 | 22.0 | 32.8 | 1.7 | 16.0 |
| | 4.5 | 1.2 | 75/63 | 24.9 | 21.0 | 30.2 | 1.5 | 16.1 |
| | | | 80/67 | 26.5 | 21.7 | 31.8 | 1.6 | 17.0 |
| | | | 85/71 | 28.2 | 22.2 | 33.6 | 1.6 | 17.8 |
| | 6 | 2.3 | 75/63 | 25.4 | 21.2 | 30.5 | 1.5 | 17.0 |
| | | | 80/67 | 27.1 | 21.8 | 32.2 | 1.5 | 17.9 |
| | | | 85/71 | 28.8 | 22.5 | 34.0 | 1.5 | 18.9 |
| 80 | 3 | 0.7 | 75/63 | 22.8 | 20.0 | 28.8 | 1.8 | 12.8 |
| | | | 80/67 | 24.2 | 20.7 | 30.3 | 1.8 | 13.4 |
| | | | 85/71 | 25.7 | 21.3 | 31.9 | 1.8 | 14.0 |
| | 4.5 | 1.2 | 75/63 | 23.7 | 20.4 | 29.3 | 1.7 | 14.1 |
| | | | 80/67 | 25.2 | 21.2 | 30.9 | 1.7 | 14.8 |
| | | | 85/71 | 26.8 | 21.8 | 32.6 | 1.7 | 15.6 |
| | 6 | 2.3 | 75/63 | 24.1 | 20.7 | 29.6 | 1.6 | 14.7 |
| | | | 80/67 | 25.7 | 21.3 | 31.3 | 1.7 | 15.6 |
| | | | 85/71 | 27.3 | 22.1 | 33.0 | 1.7 | 16.4 |
| 90 | 3 | 0.7 | 75/63 | 21.6 | 19.5 | 28.1 | 2.0 | 11.0 |
| | | | 80/67 | 22.9 | 20.2 | 29.5 | 2.0 | 11.6 |
| | | | 85/71 | 24.3 | 21.1 | 31.0 | 2.0 | 12.2 |
| | 4.5 | 1.2 | 75/63 | 22.3 | 20.0 | 28.5 | 1.8 | 12.1 |
| | | | 80/67 | 23.8 | 20.7 | 30.1 | 1.9 | 12.8 |
| | | | 85/71 | 25.3 | 21.3 | 31.7 | 1.9 | 13.5 |
| | 6 | 2.2 | 75/63 | 22.8 | 20.0 | 28.8 | 1.8 | 12.7 |
| | | | 80/67 | 24.3 | 20.9 | 30.3 | 1.8 | 13.5 |
| | | | 85/71 | 25.8 | 21.6 | 32.0 | 1.8 | 14.2 |
| 100 | 3 | 0.6 | 75/63 | 20.3 | 19.1 | 27.4 | 2.1 | 9.5 |
| | | | 80/67 | 21.6 | 19.9 | 28.8 | 2.2 | 10.0 |
| | | | 85/71 | 23.0 | 20.5 | 30.3 | 2.2 | 10.5 |
| | 4.5 | 1.2 | 75/63 | 21.0 | 19.4 | 27.8 | 2.0 | 10.4 |
| | | | 80/67 | 22.5 | 20.1 | 29.3 | 2.0 | 11.0 |
| | | | 85/71 | 24.0 | 20.8 | 30.8 | 2.1 | 11.7 |
| | 6 | 2.1 | 75/63 | 21.4 | 19.5 | 28.0 | 2.0 | 10.9 |
| | | | 80/67 | 22.9 | 20.2 | 29.5 | 2.0 | 11.6 |
| | | | 85/71 | 24.4 | 20.9 | 31.1 | 2.0 | 12.3 |
| 110 | 3 | 0.6 | 75/63 | 19.0 | 18.7 | 26.9 | 2.4 | 8.1 |
| | | | 80/67 | 20.3 | 19.3 | 28.2 | 2.4 | 8.5 |
| | | | 85/71 | 21.6 | 20.0 | 29.6 | 2.4 | 9.0 |
| | 4.5 | 1.2 | 75/63 | 19.7 | 18.9 | 27.1 | 2.2 | 8.8 |
| | | | 80/67 | 21.1 | 19.7 | 28.6 | 2.2 | 9.4 |
| | | | 85/71 | 22.5 | 20.5 | 30.1 | 2.3 | 10.0 |
| | 6 | 2.1 | 75/63 | 20.1 | 19.1 | 27.3 | 2.2 | 9.2 |
| | | | 80/67 | 21.5 | 19.8 | 28.8 | 2.2 | 9.8 |
| | | | 85/71 | 22.9 | 20.6 | 30.3 | 2.2 | 10.5 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM024 HZ Full Load Heating Performance Data - 930 CFM | | | | | | |
|---|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 30 | 0.7 | 60 | 17.7 | 14.0 | 1.4 | 3.71 |
| | | 70 | 17.5 | 12.7 | 1.5 | 3.35 |
| | | 80 | 17.4 | 12.2 | 1.7 | 3.02 |
| | 1.2 | 60 | 18.9 | 14.5 | 1.4 | 3.91 |
| | | 70 | 18.5 | 13.8 | 1.6 | 3.49 |
| | | 80 | 18.2 | 13.0 | 1.7 | 3.14 |
| | 2.5 | 60 | 19.4 | 15.2 | 1.4 | 3.99 |
| | | 70 | 19.0 | 14.3 | 1.6 | 3.57 |
| | | 80 | 18.7 | 13.4 | 1.7 | 3.21 |
| 40 | 0.7 | 60 | 20.1 | 16.4 | 1.4 | 4.09 |
| | | 70 | 19.7 | 15.2 | 1.6 | 3.66 |
| | | 80 | 19.6 | 14.2 | 1.7 | 3.32 |
| | 1.2 | 60 | 21.5 | 17.5 | 1.5 | 4.31 |
| | | 70 | 20.9 | 15.9 | 1.6 | 3.84 |
| | | 80 | 20.3 | 15.1 | 1.7 | 3.41 |
| | 2.5 | 60 | 21.4 | 16.9 | 1.5 | 4.29 |
| | | 70 | 21.5 | 16.6 | 1.6 | 3.92 |
| | | 80 | 21.1 | 15.8 | 1.8 | 3.51 |
| 50 | 0.7 | 60 | 22.6 | 18.5 | 1.5 | 4.46 |
| | | 70 | 21.8 | 16.9 | 1.6 | 3.95 |
| | | 80 | 21.3 | 15.9 | 1.8 | 3.54 |
| | 1.2 | 60 | 24.0 | 20.1 | 1.5 | 4.65 |
| | | 70 | 23.0 | 18.3 | 1.6 | 4.11 |
| | | 80 | 22.5 | 16.7 | 1.8 | 3.69 |
| | 2.4 | 60 | 24.8 | 20.5 | 1.5 | 4.77 |
| | | 70 | 23.7 | 18.6 | 1.7 | 4.21 |
| | | 80 | 23.9 | 18.4 | 1.8 | 3.86 |
| 60 | 0.7 | 60 | 24.9 | 20.4 | 1.5 | 4.77 |
| | | 70 | 24.5 | 19.2 | 1.7 | 4.3 |
| | | 80 | 24.4 | 19.0 | 1.8 | 3.91 |
| | 1.2 | 60 | 26.7 | 21.9 | 1.6 | 5.03 |
| | | 70 | 26.4 | 21.4 | 1.7 | 4.54 |
| | | 80 | 25.2 | 19.7 | 1.8 | 4.01 |
| | 2.4 | 60 | 27.7 | 22.4 | 1.6 | 5.16 |
| | | 70 | 26.9 | 22.3 | 1.7 | 4.59 |
| | | 80 | 26.7 | 21.3 | 1.9 | 4.19 |
| 70 | 0.7 | 60 | 27.8 | 22.8 | 1.6 | 5.16 |
| | | 70 | 28.0 | 22.9 | 1.7 | 4.76 |
| | | 80 | 27.1 | 21.6 | 1.9 | 4.24 |
| | 1.2 | 60 | 30.2 | 25.7 | 1.6 | 5.48 |
| | | 70 | 29.0 | 23.6 | 1.7 | 4.87 |
| | | 80 | 28.8 | 22.7 | 1.9 | 4.44 |
| | 2.3 | 60 | 30.7 | 25.8 | 1.6 | 5.52 |
| | | 70 | 30.4 | 25.3 | 1.8 | 5.05 |
| | | 80 | 29.7 | 24.8 | 1.9 | 4.54 |
| 80 | 0.7 | 60 | 31.3 | 26.8 | 1.6 | 5.61 |
| | | 70 | 30.0 | 24.8 | 1.8 | 4.99 |
| | | 80 | 30.0 | 24.2 | 1.9 | 4.59 |
| | 1.2 | 60 | 33.1 | 27.8 | 1.7 | 5.84 |
| | | 70 | 32.7 | 26.8 | 1.8 | 5.33 |
| | | 80 | 31.9 | 26.4 | 2.0 | 4.78 |
| | 2.3 | 60 | 34.1 | 29.6 | 1.7 | 5.94 |
| | | 70 | 33.9 | 29.0 | 1.8 | 5.45 |
| | | 80 | 32.5 | 26.8 | 2.0 | 4.85 |

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Bosch Thermotechnology Corp.

Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM024 HZ Part Load Cooling Performance Data - 750 CFM | | | | | | | | |
|---|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 3 | 0.7 | 75/63 | 20.6 | 17.1 | 23.7 | 0.9 | 23.1 |
| | | | 80/67 | 22.0 | 17.7 | 25.0 | 0.9 | 24.8 |
| | | | 85/71 | 23.3 | 18.2 | 26.4 | 0.9 | 26.5 |
| | 4.5 | 1.2 | 75/63 | 21.3 | 17.4 | 24.2 | 0.8 | 25.3 |
| | | | 80/67 | 22.7 | 17.9 | 25.6 | 0.8 | 27.3 |
| | | | 85/71 | 24.1 | 18.4 | 27.0 | 0.8 | 29.4 |
| | 6 | 2.4 | 75/63 | 21.6 | 17.6 | 24.4 | 0.8 | 26.5 |
| | | | 80/67 | 23.0 | 18.1 | 25.9 | 0.8 | 28.7 |
| | | | 85/71 | 24.5 | 18.6 | 27.3 | 0.8 | 31.0 |
| 60 | 3 | 0.7 | 75/63 | 19.6 | 16.7 | 23.0 | 1.0 | 19.7 |
| | | | 80/67 | 20.8 | 17.3 | 24.2 | 1.0 | 21.1 |
| | | | 85/71 | 22.1 | 17.9 | 25.5 | 1.0 | 22.6 |
| | 4.5 | 1.2 | 75/63 | 20.2 | 16.9 | 23.4 | 0.9 | 21.7 |
| | | | 80/67 | 21.6 | 17.5 | 24.7 | 0.9 | 23.4 |
| | | | 85/71 | 22.9 | 18.1 | 26.1 | 0.9 | 25.1 |
| | 6 | 2.4 | 75/63 | 20.5 | 17.1 | 23.6 | 0.9 | 22.7 |
| | | | 80/67 | 21.9 | 17.6 | 25.0 | 0.9 | 24.6 |
| | | | 85/71 | 23.3 | 18.3 | 26.4 | 0.9 | 26.5 |
| 70 | 3 | 0.7 | 75/63 | 18.5 | 16.3 | 22.2 | 1.1 | 16.7 |
| | | | 80/67 | 19.7 | 16.8 | 23.5 | 1.1 | 17.9 |
| | | | 85/71 | 20.9 | 17.5 | 24.7 | 1.1 | 19.1 |
| | 4.5 | 1.2 | 75/63 | 19.1 | 16.5 | 22.6 | 1.0 | 18.3 |
| | | | 80/67 | 20.4 | 17.2 | 23.9 | 1.0 | 19.7 |
| | | | 85/71 | 21.7 | 17.6 | 25.2 | 1.0 | 21.2 |
| | 6 | 2.3 | 75/63 | 19.4 | 16.6 | 22.8 | 1.0 | 19.2 |
| | | | 80/67 | 20.7 | 17.3 | 24.1 | 1.0 | 20.7 |
| | | | 85/71 | 22.1 | 17.8 | 25.5 | 1.0 | 22.4 |
| 80 | 3 | 0.7 | 75/63 | 17.4 | 15.8 | 21.6 | 1.2 | 14.1 |
| | | | 80/67 | 18.6 | 16.4 | 22.7 | 1.2 | 15.0 |
| | | | 85/71 | 19.7 | 17.1 | 23.9 | 1.2 | 16.0 |
| | 4.5 | 1.2 | 75/63 | 18.0 | 16.0 | 21.9 | 1.2 | 15.4 |
| | | | 80/67 | 19.2 | 16.6 | 23.1 | 1.2 | 16.5 |
| | | | 85/71 | 20.5 | 17.2 | 24.4 | 1.2 | 17.8 |
| | 6 | 2.3 | 75/63 | 18.3 | 16.1 | 22.1 | 1.1 | 16.1 |
| | | | 80/67 | 19.5 | 16.7 | 23.3 | 1.1 | 17.4 |
| | | | 85/71 | 20.8 | 17.4 | 24.6 | 1.1 | 18.7 |
| 90 | 3 | 0.7 | 75/63 | 16.3 | 15.4 | 20.9 | 1.4 | 11.7 |
| | | | 80/67 | 17.4 | 16.0 | 22.1 | 1.4 | 12.5 |
| | | | 85/71 | 18.5 | 16.7 | 23.2 | 1.4 | 13.3 |
| | 4.5 | 1.2 | 75/63 | 16.8 | 15.6 | 21.2 | 1.3 | 12.8 |
| | | | 80/67 | 18.0 | 16.2 | 22.4 | 1.3 | 13.8 |
| | | | 85/71 | 19.2 | 16.8 | 23.6 | 1.3 | 14.8 |
| | 6 | 2.2 | 75/63 | 17.1 | 15.7 | 21.4 | 1.3 | 13.3 |
| | | | 80/67 | 18.3 | 16.3 | 22.6 | 1.3 | 14.4 |
| | | | 85/71 | 19.5 | 17.0 | 23.8 | 1.3 | 15.5 |
| 100 | 3 | 0.6 | 75/63 | 15.3 | 15.0 | 20.4 | 1.6 | 9.8 |
| | | | 80/67 | 16.3 | 15.7 | 21.4 | 1.6 | 10.4 |
| | | | 85/71 | 17.3 | 16.2 | 22.5 | 1.6 | 11.1 |
| | 4.5 | 1.2 | 75/63 | 15.7 | 15.2 | 20.6 | 1.5 | 10.6 |
| | | | 80/67 | 16.8 | 15.8 | 21.7 | 1.5 | 11.4 |
| | | | 85/71 | 18.0 | 16.3 | 22.9 | 1.5 | 12.2 |
| | 6 | 2.1 | 75/63 | 16.0 | 15.2 | 20.7 | 1.4 | 11.0 |
| | | | 80/67 | 17.1 | 15.9 | 21.8 | 1.4 | 11.9 |
| | | | 85/71 | 18.2 | 16.6 | 23.0 | 1.4 | 12.7 |
| 110 | 3 | 0.6 | 75/63 | 14.4 | 14.4 | 20.0 | 1.7 | 8.3 |
| | | | 80/67 | 15.2 | 15.2 | 20.9 | 1.7 | 8.7 |
| | | | 85/71 | 16.2 | 15.8 | 21.9 | 1.8 | 9.2 |
| | 4.5 | 1.2 | 75/63 | 14.6 | 14.6 | 20.1 | 1.7 | 8.8 |
| | | | 80/67 | 15.6 | 15.4 | 21.1 | 1.7 | 9.4 |
| | | | 85/71 | 16.7 | 15.9 | 22.2 | 1.7 | 10.0 |
| | 6 | 2.1 | 75/63 | 14.8 | 14.8 | 20.1 | 1.6 | 9.0 |
| | | | 80/67 | 15.9 | 15.5 | 21.2 | 1.6 | 9.7 |
| | | | 85/71 | 17.0 | 16.0 | 22.3 | 1.6 | 10.5 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM024 HZ Part Load Heating Performance Data - 750 CFM | | | | | | |
|---|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 30 | 0.7 | 60 | 13.3 | 10.3 | 1.0 | 3.75 |
| | | 70 | 12.9 | 9.6 | 1.2 | 3.25 |
| | | 80 | 12.5 | 8.8 | 1.3 | 2.84 |
| | 1.2 | 60 | 13.9 | 10.8 | 1.0 | 3.9 |
| | | 70 | 13.4 | 10.1 | 1.2 | 3.38 |
| | | 80 | 13.0 | 9.2 | 1.3 | 2.95 |
| | 2.5 | 60 | 14.2 | 11.2 | 1.0 | 3.99 |
| | | 70 | 13.7 | 10.3 | 1.2 | 3.45 |
| | | 80 | 13.3 | 9.5 | 1.3 | 3 |
| 40 | 0.7 | 60 | 15.2 | 12.2 | 1.1 | 4.24 |
| | | 70 | 14.9 | 11.5 | 1.2 | 3.71 |
| | | 80 | 14.5 | 10.7 | 1.3 | 3.25 |
| | 1.2 | 60 | 16.0 | 13.0 | 1.1 | 4.44 |
| | | 70 | 15.6 | 12.2 | 1.2 | 3.87 |
| | | 80 | 15.2 | 11.3 | 1.3 | 3.39 |
| | 2.5 | 60 | 16.5 | 13.4 | 1.1 | 4.56 |
| | | 70 | 16.0 | 12.5 | 1.2 | 3.97 |
| | | 80 | 15.5 | 11.7 | 1.3 | 3.46 |
| 50 | 0.7 | 60 | 17.4 | 14.2 | 1.1 | 4.79 |
| | | 70 | 16.9 | 13.5 | 1.2 | 4.17 |
| | | 80 | 16.6 | 12.7 | 1.3 | 3.69 |
| | 1.2 | 60 | 18.2 | 15.3 | 1.1 | 5 |
| | | 70 | 17.8 | 14.3 | 1.2 | 4.38 |
| | | 80 | 17.4 | 13.5 | 1.3 | 3.85 |
| | 2.4 | 60 | 18.8 | 15.8 | 1.1 | 5.16 |
| | | 70 | 18.3 | 14.8 | 1.2 | 4.5 |
| | | 80 | 17.8 | 13.9 | 1.3 | 3.94 |
| 60 | 0.7 | 60 | 19.3 | 16.2 | 1.1 | 5.28 |
| | | 70 | 18.9 | 15.5 | 1.2 | 4.64 |
| | | 80 | 18.6 | 14.7 | 1.3 | 4.1 |
| | 1.2 | 60 | 20.6 | 17.3 | 1.1 | 5.63 |
| | | 70 | 20.0 | 16.6 | 1.2 | 4.9 |
| | | 80 | 19.5 | 15.8 | 1.3 | 4.29 |
| | 2.4 | 60 | 21.3 | 18.2 | 1.1 | 5.82 |
| | | 70 | 20.6 | 17.2 | 1.2 | 5.05 |
| | | 80 | 20.1 | 16.2 | 1.3 | 4.41 |
| 70 | 0.7 | 60 | 21.1 | 17.8 | 1.1 | 5.78 |
| | | 70 | 21.4 | 17.7 | 1.2 | 5.24 |
| | | 80 | 20.6 | 16.3 | 1.3 | 4.52 |
| | 1.2 | 60 | 22.7 | 19.7 | 1.1 | 6.2 |
| | | 70 | 21.6 | 18.0 | 1.2 | 5.29 |
| | | 80 | 21.8 | 17.9 | 1.3 | 4.76 |
| | 2.3 | 60 | 23.3 | 20.1 | 1.1 | 6.38 |
| | | 70 | 23.0 | 19.6 | 1.2 | 5.62 |
| | | 80 | 22.4 | 18.7 | 1.3 | 4.89 |
| 80 | 0.7 | 60 | 23.8 | 21.2 | 1.1 | 6.52 |
| | | 70 | 23.2 | 20.1 | 1.2 | 5.67 |
| | | 80 | 22.9 | 18.6 | 1.3 | 5 |
| | 1.2 | 60 | 25.1 | 22.7 | 1.1 | 6.89 |
| | | 70 | 24.6 | 21.0 | 1.2 | 6.02 |
| | | 80 | 24.2 | 19.8 | 1.3 | 5.3 |
| | 2.3 | 60 | 26.0 | 22.6 | 1.1 | 7.15 |
| | | 70 | 25.5 | 21.6 | 1.2 | 6.27 |
| | | 80 | 24.9 | 21.0 | 1.3 | 5.45 |

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Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM036 HZ Full Load Cooling Performance Data - 1300 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 4.5 | 1.2 | 75/63 | 40.7 | 31.7 | 47.3 | 1.9 | 20.9 |
| | | | 80/67 | 43.2 | 32.8 | 50.1 | 2.0 | 21.8 |
| | | | 85/71 | 46.0 | 33.5 | 53.0 | 2.0 | 22.6 |
| | 7 | 2.5 | 75/63 | 42.0 | 32.3 | 48.4 | 1.9 | 22.7 |
| | | | 80/67 | 44.7 | 33.4 | 51.3 | 1.9 | 23.6 |
| | | | 85/71 | 47.7 | 34.2 | 54.4 | 1.9 | 24.6 |
| | 9 | 3.9 | 75/63 | 42.6 | 32.5 | 48.8 | 1.8 | 23.4 |
| | | | 80/67 | 45.4 | 33.6 | 51.8 | 1.9 | 24.4 |
| | | | 85/71 | 48.4 | 34.4 | 55.0 | 1.9 | 25.3 |
| 60 | 4.5 | 1.2 | 75/63 | 38.9 | 31.0 | 46.1 | 2.1 | 18.6 |
| | | | 80/67 | 41.4 | 32.1 | 48.7 | 2.1 | 19.5 |
| | | | 85/71 | 44.0 | 33.1 | 51.5 | 2.2 | 20.3 |
| | 7 | 2.5 | 75/63 | 40.2 | 31.6 | 47.0 | 2.0 | 20.3 |
| | | | 80/67 | 42.9 | 32.5 | 49.8 | 2.0 | 21.3 |
| | | | 85/71 | 45.7 | 33.4 | 52.8 | 2.1 | 22.3 |
| | 9 | 3.8 | 75/63 | 40.7 | 31.9 | 47.3 | 1.9 | 21.0 |
| | | | 80/67 | 43.5 | 32.7 | 50.3 | 2.0 | 22.0 |
| | | | 85/71 | 46.4 | 33.7 | 53.3 | 2.0 | 23.0 |
| 70 | 4.5 | 1.1 | 75/63 | 37.2 | 30.3 | 44.9 | 2.3 | 16.4 |
| | | | 80/67 | 39.5 | 31.4 | 47.4 | 2.3 | 17.2 |
| | | | 85/71 | 42.1 | 32.1 | 50.1 | 2.3 | 18.0 |
| | 7 | 2.4 | 75/63 | 38.3 | 30.9 | 45.7 | 2.1 | 17.9 |
| | | | 80/67 | 41.0 | 31.8 | 48.4 | 2.2 | 18.9 |
| | | | 85/71 | 43.7 | 32.7 | 51.2 | 2.2 | 19.8 |
| | 9 | 3.8 | 75/63 | 38.8 | 31.1 | 46.0 | 2.1 | 18.5 |
| | | | 80/67 | 41.5 | 32.0 | 48.8 | 2.1 | 19.6 |
| | | | 85/71 | 44.3 | 32.9 | 51.7 | 2.2 | 20.6 |
| 80 | 4.5 | 1.1 | 75/63 | 35.4 | 29.5 | 43.8 | 2.5 | 14.2 |
| | | | 80/67 | 37.7 | 30.5 | 46.2 | 2.5 | 15.0 |
| | | | 85/71 | 40.0 | 31.7 | 48.7 | 2.5 | 15.7 |
| | 7 | 2.4 | 75/63 | 36.5 | 30.0 | 44.5 | 2.3 | 15.6 |
| | | | 80/67 | 39.0 | 31.2 | 47.0 | 2.4 | 16.5 |
| | | | 85/71 | 41.6 | 32.0 | 49.8 | 2.4 | 17.4 |
| | 9 | 3.7 | 75/63 | 37.0 | 30.2 | 44.7 | 2.3 | 16.1 |
| | | | 80/67 | 39.5 | 31.4 | 47.4 | 2.3 | 17.1 |
| | | | 85/71 | 42.1 | 32.4 | 50.1 | 2.3 | 18.1 |
| 90 | 4.5 | 1.1 | 75/63 | 33.5 | 29.0 | 42.7 | 2.7 | 12.3 |
| | | | 80/67 | 35.7 | 30.0 | 45.1 | 2.8 | 12.9 |
| | | | 85/71 | 38.1 | 30.8 | 47.6 | 2.8 | 13.6 |
| | 7 | 2.4 | 75/63 | 34.6 | 29.4 | 43.3 | 2.6 | 13.4 |
| | | | 80/67 | 37.0 | 30.5 | 45.8 | 2.6 | 14.2 |
| | | | 85/71 | 39.5 | 31.2 | 48.4 | 2.6 | 15.1 |
| | 9 | 3.6 | 75/63 | 35.0 | 29.2 | 43.5 | 2.5 | 13.8 |
| | | | 80/67 | 37.4 | 30.6 | 46.1 | 2.5 | 14.7 |
| | | | 85/71 | 40.1 | 31.4 | 48.7 | 2.6 | 15.7 |
| 100 | 4.5 | 1.1 | 75/63 | 31.7 | 28.2 | 41.8 | 3.0 | 10.5 |
| | | | 80/67 | 33.9 | 29.1 | 44.2 | 3.0 | 11.1 |
| | | | 85/71 | 36.1 | 30.1 | 46.5 | 3.1 | 11.8 |
| | 7 | 2.3 | 75/63 | 32.7 | 28.5 | 42.3 | 2.9 | 11.4 |
| | | | 80/67 | 35.0 | 29.5 | 44.7 | 2.9 | 12.2 |
| | | | 85/71 | 37.3 | 30.7 | 47.1 | 2.9 | 12.9 |
| | 9 | 3.6 | 75/63 | 32.9 | 28.8 | 42.4 | 2.8 | 11.7 |
| | | | 80/67 | 35.4 | 29.4 | 44.9 | 2.8 | 12.5 |
| | | | 85/71 | 37.8 | 30.9 | 47.4 | 2.8 | 13.4 |
| 110 | 4.5 | 1.1 | 75/63 | 29.8 | 27.5 | 41.0 | 3.3 | 8.9 |
| | | | 80/67 | 31.9 | 28.6 | 43.2 | 3.4 | 9.5 |
| | | | 85/71 | 34.0 | 29.6 | 45.5 | 3.4 | 10.0 |
| | 7 | 2.2 | 75/63 | 30.7 | 27.9 | 41.4 | 3.2 | 9.7 |
| | | | 80/67 | 33.0 | 28.8 | 43.7 | 3.2 | 10.3 |
| | | | 85/71 | 35.2 | 29.8 | 46.1 | 3.2 | 11.0 |
| | 9 | 3.5 | 75/63 | 31.1 | 28.0 | 41.6 | 3.1 | 10.0 |
| | | | 80/67 | 33.4 | 28.9 | 43.9 | 3.1 | 10.7 |
| | | | 85/71 | 35.6 | 29.9 | 46.3 | 3.1 | 11.3 |

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Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM036 HZ Full Load Heating Performance Data - 1300 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 30 | 1.2 | 60 | 26.9 | 20.9 | 1.9 | 4.12 |
| | | 70 | 26.4 | 19.8 | 2.1 | 3.65 |
| | | 80 | 26.1 | 18.6 | 2.3 | 3.26 |
| | 2.6 | 60 | 28.3 | 22.3 | 1.9 | 4.29 |
| | | 70 | 27.8 | 21.1 | 2.1 | 3.79 |
| | | 80 | 27.4 | 19.6 | 2.4 | 3.38 |
| | 4.1 | 60 | 29.0 | 23.0 | 1.9 | 4.36 |
| | | 70 | 28.4 | 21.7 | 2.2 | 3.86 |
| | | 80 | 27.9 | 19.9 | 2.4 | 3.43 |
| 40 | 1.2 | 60 | 30.7 | 24.5 | 2.0 | 4.54 |
| | | 70 | 30.1 | 23.3 | 2.2 | 4.03 |
| | | 80 | 29.6 | 22.0 | 2.4 | 3.58 |
| | 2.6 | 60 | 32.5 | 26.3 | 2.0 | 4.74 |
| | | 70 | 31.8 | 24.9 | 2.2 | 4.2 |
| | | 80 | 31.1 | 23.5 | 2.5 | 3.72 |
| | 4.0 | 60 | 33.4 | 27.1 | 2.0 | 4.82 |
| | | 70 | 32.6 | 25.6 | 2.2 | 4.27 |
| | | 80 | 31.8 | 24.1 | 2.5 | 3.78 |
| 50 | 1.2 | 60 | 34.7 | 28.3 | 2.1 | 4.96 |
| | | 70 | 34.0 | 26.9 | 2.3 | 4.41 |
| | | 80 | 33.4 | 25.5 | 2.5 | 3.92 |
| | 2.5 | 60 | 37.0 | 30.5 | 2.1 | 5.17 |
| | | 70 | 36.0 | 29.0 | 2.3 | 4.58 |
| | | 80 | 35.3 | 27.4 | 2.5 | 4.09 |
| | 3.9 | 60 | 38.0 | 31.5 | 2.1 | 5.27 |
| | | 70 | 37.0 | 29.8 | 2.3 | 4.68 |
| | | 80 | 36.1 | 28.2 | 2.5 | 4.16 |
| 60 | 1.2 | 60 | 38.9 | 32.3 | 2.1 | 5.35 |
| | | 70 | 38.1 | 30.8 | 2.3 | 4.78 |
| | | 80 | 37.4 | 29.3 | 2.6 | 4.27 |
| | 2.5 | 60 | 41.6 | 34.9 | 2.2 | 5.59 |
| | | 70 | 40.7 | 32.9 | 2.4 | 5.01 |
| | | 80 | 39.7 | 31.5 | 2.6 | 4.46 |
| | 3.8 | 60 | 42.9 | 36.1 | 2.2 | 5.7 |
| | | 70 | 41.7 | 34.3 | 2.4 | 5.09 |
| | | 80 | 40.7 | 32.7 | 2.6 | 4.54 |
| 70 | 1.1 | 60 | 43.3 | 36.5 | 2.2 | 5.74 |
| | | 70 | 42.4 | 34.9 | 2.4 | 5.15 |
| | | 80 | 41.6 | 33.1 | 2.6 | 4.61 |
| | 2.4 | 60 | 46.5 | 39.6 | 2.3 | 6.01 |
| | | 70 | 45.4 | 37.7 | 2.5 | 5.39 |
| | | 80 | 44.3 | 35.9 | 2.7 | 4.81 |
| | 3.8 | 60 | 48.0 | 41.0 | 2.3 | 6.12 |
| | | 70 | 46.7 | 39.0 | 2.5 | 5.49 |
| | | 80 | 45.6 | 36.6 | 2.7 | 4.92 |
| 80 | 1.1 | 60 | 47.9 | 40.9 | 2.3 | 6.12 |
| | | 70 | 46.9 | 39.2 | 2.5 | 5.5 |
| | | 80 | 45.9 | 37.1 | 2.7 | 4.94 |
| | 2.4 | 60 | 51.7 | 44.4 | 2.4 | 6.39 |
| | | 70 | 50.3 | 42.4 | 2.6 | 5.76 |
| | | 80 | 49.1 | 40.0 | 2.8 | 5.17 |
| | 3.7 | 60 | 53.4 | 46.0 | 2.4 | 6.51 |
| | | 70 | 51.9 | 43.9 | 2.6 | 5.86 |
| | | 80 | 50.5 | 41.8 | 2.8 | 5.25 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM036 HZ Part Load Cooling Performance Data - 1080 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 4.5 | 1.2 | 75/63 | 30.5 | 24.8 | 34.6 | 1.2 | 25.8 |
| | | | 80/67 | 32.6 | 25.8 | 36.6 | 1.2 | 27.9 |
| | | | 85/71 | 34.7 | 26.6 | 38.7 | 1.2 | 30.1 |
| | 7 | 2.5 | 75/63 | 31.4 | 25.2 | 35.3 | 1.1 | 27.8 |
| | | | 80/67 | 33.5 | 26.1 | 37.4 | 1.1 | 30.2 |
| | | | 85/71 | 35.8 | 26.9 | 39.6 | 1.1 | 33.0 |
| | 9 | 3.9 | 75/63 | 31.7 | 25.3 | 35.6 | 1.1 | 28.5 |
| | | | 80/67 | 33.9 | 26.3 | 37.7 | 1.1 | 31.2 |
| | | | 85/71 | 36.3 | 26.9 | 40.0 | 1.1 | 34.2 |
| 60 | 4.5 | 1.2 | 75/63 | 29.0 | 24.3 | 33.5 | 1.3 | 22.3 |
| | | | 80/67 | 31.0 | 25.2 | 35.5 | 1.3 | 24.0 |
| | | | 85/71 | 33.1 | 26.0 | 37.5 | 1.3 | 25.9 |
| | 7 | 2.5 | 75/63 | 29.9 | 24.6 | 34.1 | 1.2 | 24.2 |
| | | | 80/67 | 31.9 | 25.5 | 36.1 | 1.2 | 26.3 |
| | | | 85/71 | 34.1 | 26.4 | 38.2 | 1.2 | 28.5 |
| | 9 | 3.8 | 75/63 | 30.2 | 24.7 | 34.4 | 1.2 | 25.0 |
| | | | 80/67 | 32.3 | 25.6 | 36.4 | 1.2 | 27.2 |
| | | | 85/71 | 34.5 | 26.5 | 38.6 | 1.2 | 29.7 |
| 70 | 4.5 | 1.1 | 75/63 | 27.6 | 23.6 | 32.5 | 1.5 | 19.0 |
| | | | 80/67 | 29.5 | 24.6 | 34.4 | 1.4 | 20.4 |
| | | | 85/71 | 31.5 | 25.3 | 36.4 | 1.4 | 21.9 |
| | 7 | 2.4 | 75/63 | 28.3 | 24.0 | 33.0 | 1.4 | 20.7 |
| | | | 80/67 | 30.4 | 24.8 | 35.0 | 1.4 | 22.4 |
| | | | 85/71 | 32.4 | 25.8 | 37.0 | 1.3 | 24.2 |
| | 9 | 3.8 | 75/63 | 28.6 | 24.2 | 33.2 | 1.3 | 21.4 |
| | | | 80/67 | 30.7 | 24.9 | 35.3 | 1.3 | 23.3 |
| | | | 85/71 | 32.8 | 25.9 | 37.3 | 1.3 | 25.2 |
| 80 | 4.5 | 1.1 | 75/63 | 26.1 | 23.0 | 31.6 | 1.6 | 15.9 |
| | | | 80/67 | 27.9 | 24.0 | 33.4 | 1.6 | 17.1 |
| | | | 85/71 | 29.7 | 24.9 | 35.3 | 1.6 | 18.3 |
| | 7 | 2.4 | 75/63 | 26.8 | 23.3 | 32.0 | 1.5 | 17.4 |
| | | | 80/67 | 28.7 | 24.3 | 33.9 | 1.5 | 18.7 |
| | | | 85/71 | 30.7 | 25.2 | 35.9 | 1.5 | 20.2 |
| | 9 | 3.7 | 75/63 | 27.1 | 23.4 | 32.2 | 1.5 | 17.9 |
| | | | 80/67 | 29.0 | 24.4 | 34.1 | 1.5 | 19.5 |
| | | | 85/71 | 31.1 | 25.3 | 36.1 | 1.5 | 21.1 |
| 90 | 4.5 | 1.1 | 75/63 | 24.5 | 22.5 | 30.7 | 1.9 | 13.2 |
| | | | 80/67 | 26.2 | 23.4 | 32.5 | 1.9 | 14.2 |
| | | | 85/71 | 28.0 | 24.3 | 34.3 | 1.9 | 15.2 |
| | 7 | 2.4 | 75/63 | 25.2 | 22.8 | 31.1 | 1.8 | 14.4 |
| | | | 80/67 | 27.0 | 23.7 | 32.9 | 1.7 | 15.5 |
| | | | 85/71 | 28.9 | 24.6 | 34.8 | 1.7 | 16.7 |
| | 9 | 3.6 | 75/63 | 25.5 | 22.8 | 31.2 | 1.7 | 14.8 |
| | | | 80/67 | 27.3 | 23.8 | 33.1 | 1.7 | 16.1 |
| | | | 85/71 | 29.3 | 24.5 | 35.1 | 1.7 | 17.4 |
| 100 | 4.5 | 1.1 | 75/63 | 22.9 | 21.8 | 29.9 | 2.1 | 10.9 |
| | | | 80/67 | 24.6 | 22.8 | 31.7 | 2.1 | 11.7 |
| | | | 85/71 | 26.3 | 23.7 | 33.4 | 2.1 | 12.5 |
| | 7 | 2.3 | 75/63 | 23.6 | 22.0 | 30.2 | 2.0 | 11.8 |
| | | | 80/67 | 25.4 | 22.9 | 32.0 | 2.0 | 12.8 |
| | | | 85/71 | 27.2 | 23.8 | 33.9 | 2.0 | 13.8 |
| | 9 | 3.6 | 75/63 | 23.8 | 22.1 | 30.4 | 2.0 | 12.2 |
| | | | 80/67 | 25.6 | 23.1 | 32.2 | 1.9 | 13.2 |
| | | | 85/71 | 27.5 | 23.9 | 34.0 | 1.9 | 14.3 |
| 110 | 4.5 | 1.1 | 75/63 | 21.4 | 21.2 | 29.3 | 2.4 | 9.0 |
| | | | 80/67 | 23.0 | 22.1 | 31.0 | 2.4 | 9.7 |
| | | | 85/71 | 24.6 | 23.1 | 32.6 | 2.4 | 10.4 |
| | 7 | 2.2 | 75/63 | 22.0 | 21.3 | 29.6 | 2.3 | 9.7 |
| | | | 80/67 | 23.7 | 22.3 | 31.2 | 2.3 | 10.4 |
| | | | 85/71 | 25.3 | 23.4 | 32.9 | 2.3 | 11.2 |
| | 9 | 3.5 | 75/63 | 22.2 | 21.5 | 29.6 | 2.2 | 9.9 |
| | | | 80/67 | 23.9 | 22.5 | 31.3 | 2.2 | 10.7 |
| | | | 85/71 | 25.6 | 23.5 | 33.1 | 2.2 | 11.6 |

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Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM036 HZ Part Load Heating Performance Data - 1080 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 30 | 1.2 | 60 | 19.4 | 15.2 | 1.4 | 4.02 |
| | | 70 | 18.8 | 14.0 | 1.6 | 3.49 |
| | | 80 | 18.4 | 12.8 | 1.8 | 3.04 |
| | 2.6 | 60 | 20.1 | 15.6 | 1.4 | 4.16 |
| | | 70 | 19.6 | 14.7 | 1.6 | 3.63 |
| | | 80 | 19.2 | 13.4 | 1.8 | 3.16 |
| | 4.1 | 60 | 20.4 | 16.1 | 1.4 | 4.21 |
| | | 70 | 20.0 | 15.6 | 1.6 | 3.7 |
| | | 80 | 19.3 | 13.9 | 1.8 | 3.18 |
| 40 | 1.2 | 60 | 22.5 | 17.8 | 1.4 | 4.62 |
| | | 70 | 21.7 | 16.8 | 1.6 | 3.99 |
| | | 80 | 21.4 | 15.5 | 1.8 | 3.51 |
| | 2.6 | 60 | 23.5 | 18.9 | 1.4 | 4.83 |
| | | 70 | 22.9 | 18.0 | 1.6 | 4.22 |
| | | 80 | 22.1 | 16.4 | 1.8 | 3.63 |
| | 4.0 | 60 | 24.0 | 19.4 | 1.4 | 4.92 |
| | | 70 | 23.1 | 18.0 | 1.6 | 4.25 |
| | | 80 | 22.6 | 16.9 | 1.8 | 3.71 |
| 50 | 1.2 | 60 | 25.5 | 21.3 | 1.4 | 5.21 |
| | | 70 | 25.1 | 19.8 | 1.6 | 4.59 |
| | | 80 | 24.4 | 18.8 | 1.8 | 4 |
| | 2.5 | 60 | 27.1 | 22.4 | 1.4 | 5.52 |
| | | 70 | 26.1 | 21.0 | 1.6 | 4.78 |
| | | 80 | 25.4 | 19.0 | 1.8 | 4.15 |
| | 3.9 | 60 | 27.5 | 23.0 | 1.4 | 5.61 |
| | | 70 | 26.6 | 21.8 | 1.6 | 4.86 |
| | | 80 | 25.9 | 20.2 | 1.8 | 4.22 |
| 60 | 1.2 | 60 | 29.0 | 24.4 | 1.4 | 5.9 |
| | | 70 | 28.2 | 23.2 | 1.6 | 5.13 |
| | | 80 | 27.5 | 21.8 | 1.8 | 4.46 |
| | 2.5 | 60 | 30.6 | 26.1 | 1.4 | 6.21 |
| | | 70 | 29.7 | 24.7 | 1.6 | 5.39 |
| | | 80 | 28.9 | 23.3 | 1.8 | 4.67 |
| | 3.8 | 60 | 31.3 | 26.8 | 1.4 | 6.36 |
| | | 70 | 30.3 | 25.3 | 1.6 | 5.5 |
| | | 80 | 29.4 | 23.9 | 1.8 | 4.75 |
| 70 | 1.1 | 60 | 32.5 | 27.9 | 1.4 | 6.59 |
| | | 70 | 31.6 | 26.6 | 1.6 | 5.71 |
| | | 80 | 30.9 | 25.2 | 1.8 | 4.97 |
| | 2.4 | 60 | 34.4 | 30.0 | 1.4 | 6.97 |
| | | 70 | 33.4 | 28.3 | 1.6 | 6.03 |
| | | 80 | 32.5 | 26.9 | 1.8 | 5.21 |
| | 3.8 | 60 | 35.3 | 30.8 | 1.4 | 7.14 |
| | | 70 | 34.2 | 29.3 | 1.6 | 6.16 |
| | | 80 | 33.3 | 27.6 | 1.8 | 5.34 |
| 80 | 1.1 | 60 | 36.1 | 31.6 | 1.4 | 7.31 |
| | | 70 | 35.2 | 30.2 | 1.6 | 6.33 |
| | | 80 | 34.3 | 28.6 | 1.8 | 5.49 |
| | 2.4 | 60 | 38.3 | 34.1 | 1.4 | 7.77 |
| | | 70 | 37.2 | 32.5 | 1.6 | 6.68 |
| | | 80 | 36.2 | 30.6 | 1.8 | 5.77 |
| | 3.7 | 60 | 39.3 | 35.1 | 1.4 | 7.98 |
| | | 70 | 38.2 | 33.3 | 1.6 | 6.86 |
| | | 80 | 37.1 | 31.4 | 1.8 | 5.89 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM048 HZ Full Load Cooling Performance Data - 1580 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 6 | 1.0 | 75/63 | 50.8 | 39.5 | 60.0 | 2.7 | 18.8 |
| | | | 80/67 | 54.0 | 40.7 | 63.4 | 2.7 | 19.7 |
| | | | 85/71 | 57.4 | 41.4 | 66.9 | 2.8 | 20.7 |
| | 9 | 2.1 | 75/63 | 52.7 | 40.4 | 61.3 | 2.5 | 21.1 |
| | | | 80/67 | 56.2 | 41.4 | 64.9 | 2.5 | 22.3 |
| | | | 85/71 | 59.8 | 42.3 | 68.6 | 2.5 | 23.5 |
| | 12 | 3.5 | 75/63 | 53.8 | 40.6 | 62.1 | 2.4 | 22.4 |
| | | | 80/67 | 57.3 | 41.9 | 65.7 | 2.4 | 23.7 |
| | | | 85/71 | 61.1 | 42.8 | 69.5 | 2.4 | 25.1 |
| 60 | 6 | 1.0 | 75/63 | 48.4 | 38.6 | 58.5 | 3.0 | 16.4 |
| | | | 80/67 | 51.6 | 39.7 | 61.8 | 3.0 | 17.2 |
| | | | 85/71 | 54.9 | 40.5 | 65.2 | 3.0 | 18.1 |
| | 9 | 2.1 | 75/63 | 50.4 | 39.3 | 59.8 | 2.7 | 18.4 |
| | | | 80/67 | 53.8 | 40.3 | 63.3 | 2.8 | 19.4 |
| | | | 85/71 | 57.1 | 41.6 | 66.8 | 2.8 | 20.5 |
| | 12 | 3.4 | 75/63 | 51.4 | 39.7 | 60.4 | 2.6 | 19.5 |
| | | | 80/67 | 54.9 | 40.7 | 64.0 | 2.7 | 20.7 |
| | | | 85/71 | 58.4 | 42.0 | 67.6 | 2.7 | 21.9 |
| 70 | 6 | 1.0 | 75/63 | 46.1 | 37.5 | 57.2 | 3.2 | 14.2 |
| | | | 80/67 | 49.1 | 38.7 | 60.3 | 3.3 | 15.0 |
| | | | 85/71 | 52.3 | 39.6 | 63.7 | 3.3 | 15.7 |
| | 9 | 2.0 | 75/63 | 48.1 | 38.1 | 58.3 | 3.0 | 15.9 |
| | | | 80/67 | 51.3 | 39.3 | 61.6 | 3.0 | 16.9 |
| | | | 85/71 | 54.5 | 40.7 | 65.0 | 3.1 | 17.8 |
| | 12 | 3.4 | 75/63 | 49.0 | 38.5 | 58.9 | 2.9 | 16.9 |
| | | | 80/67 | 52.3 | 40.0 | 62.3 | 2.9 | 17.9 |
| | | | 85/71 | 55.7 | 41.1 | 65.8 | 2.9 | 19.0 |
| 80 | 6 | 1.0 | 75/63 | 43.8 | 36.3 | 55.9 | 3.6 | 12.3 |
| | | | 80/67 | 46.6 | 37.8 | 58.9 | 3.6 | 12.9 |
| | | | 85/71 | 49.6 | 39.0 | 62.1 | 3.7 | 13.5 |
| | 9 | 2.0 | 75/63 | 45.6 | 37.0 | 56.8 | 3.3 | 13.7 |
| | | | 80/67 | 48.7 | 38.3 | 60.1 | 3.4 | 14.5 |
| | | | 85/71 | 51.8 | 39.7 | 63.3 | 3.4 | 15.3 |
| | 12 | 3.3 | 75/63 | 46.5 | 37.4 | 57.4 | 3.2 | 14.5 |
| | | | 80/67 | 49.7 | 38.7 | 60.7 | 3.2 | 15.4 |
| | | | 85/71 | 53.1 | 39.9 | 64.1 | 3.2 | 16.4 |
| 90 | 6 | 1.0 | 75/63 | 41.4 | 35.6 | 54.7 | 3.9 | 10.5 |
| | | | 80/67 | 44.2 | 36.6 | 57.7 | 4.0 | 11.1 |
| | | | 85/71 | 47.0 | 38.0 | 60.8 | 4.1 | 11.6 |
| | 9 | 2.0 | 75/63 | 43.0 | 36.2 | 55.5 | 3.7 | 11.7 |
| | | | 80/67 | 46.0 | 37.5 | 58.6 | 3.7 | 12.4 |
| | | | 85/71 | 49.1 | 38.5 | 61.8 | 3.7 | 13.1 |
| | 12 | 3.2 | 75/63 | 43.9 | 36.6 | 55.9 | 3.6 | 12.4 |
| | | | 80/67 | 47.0 | 37.6 | 59.1 | 3.6 | 13.2 |
| | | | 85/71 | 50.2 | 38.9 | 62.5 | 3.6 | 14.0 |
| 100 | 6 | 0.9 | 75/63 | 39.0 | 34.4 | 53.7 | 4.4 | 8.9 |
| | | | 80/67 | 41.6 | 35.9 | 56.6 | 4.5 | 9.3 |
| | | | 85/71 | 44.4 | 36.8 | 59.6 | 4.5 | 9.8 |
| | 9 | 1.9 | 75/63 | 40.5 | 35.3 | 54.3 | 4.1 | 9.9 |
| | | | 80/67 | 43.4 | 36.6 | 57.3 | 4.1 | 10.5 |
| | | | 85/71 | 46.4 | 37.5 | 60.5 | 4.2 | 11.1 |
| | 12 | 3.2 | 75/63 | 41.3 | 35.6 | 54.7 | 4.0 | 10.4 |
| | | | 80/67 | 44.3 | 36.9 | 57.8 | 4.0 | 11.1 |
| | | | 85/71 | 47.3 | 38.2 | 60.9 | 4.0 | 11.8 |
| 110 | 6 | 0.9 | 75/63 | 36.6 | 33.7 | 52.9 | 4.8 | 7.6 |
| | | | 80/67 | 39.1 | 35.1 | 55.7 | 4.9 | 8.0 |
| | | | 85/71 | 41.8 | 35.9 | 58.7 | 5.0 | 8.4 |
| | 9 | 1.9 | 75/63 | 38.1 | 34.0 | 53.4 | 4.6 | 8.3 |
| | | | 80/67 | 40.7 | 35.5 | 56.3 | 4.6 | 8.8 |
| | | | 85/71 | 43.4 | 37.0 | 59.2 | 4.7 | 9.3 |
| | 12 | 3.1 | 75/63 | 38.7 | 34.4 | 53.6 | 4.4 | 8.7 |
| | | | 80/67 | 41.5 | 35.9 | 56.6 | 4.5 | 9.3 |
| | | | 85/71 | 44.4 | 37.2 | 59.6 | 4.5 | 9.9 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM048 HZ Full Load Heating Performance Data - 1580 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 30 | 1.1 | 60 | 35.9 | 27.2 | 2.7 | 3.91 |
| | | 70 | 35.5 | 25.6 | 3.0 | 3.46 |
| | | 80 | 34.8 | 24.3 | 3.3 | 3.06 |
| | 2.2 | 60 | 37.9 | 29.1 | 2.7 | 4.06 |
| | | 70 | 37.4 | 27.3 | 3.0 | 3.59 |
| | | 80 | 36.7 | 25.8 | 3.4 | 3.18 |
| | 3.7 | 60 | 39.2 | 30.2 | 2.8 | 4.14 |
| | | 70 | 38.4 | 28.4 | 3.1 | 3.66 |
| | | 80 | 37.7 | 26.6 | 3.4 | 3.25 |
| 40 | 1.1 | 60 | 40.6 | 31.9 | 2.8 | 4.24 |
| | | 70 | 40.1 | 30.0 | 3.1 | 3.77 |
| | | 80 | 39.6 | 28.5 | 3.4 | 3.37 |
| | 2.2 | 60 | 43.2 | 34.2 | 2.9 | 4.42 |
| | | 70 | 42.4 | 32.4 | 3.2 | 3.93 |
| | | 80 | 41.8 | 30.5 | 3.5 | 3.51 |
| | 3.6 | 60 | 44.8 | 35.6 | 2.9 | 4.52 |
| | | 70 | 43.9 | 33.6 | 3.2 | 4.03 |
| | | 80 | 43.1 | 31.6 | 3.5 | 3.59 |
| 50 | 1.0 | 60 | 45.9 | 36.4 | 2.9 | 4.59 |
| | | 70 | 45.2 | 34.8 | 3.2 | 4.11 |
| | | 80 | 44.5 | 33.1 | 3.5 | 3.68 |
| | 2.1 | 60 | 49.0 | 39.5 | 3.0 | 4.8 |
| | | 70 | 48.1 | 37.5 | 3.3 | 4.3 |
| | | 80 | 47.2 | 35.6 | 3.6 | 3.84 |
| | 3.5 | 60 | 50.9 | 41.3 | 3.0 | 4.92 |
| | | 70 | 49.8 | 39.1 | 3.3 | 4.4 |
| | | 80 | 48.8 | 37.0 | 3.6 | 3.93 |
| 60 | 1.0 | 60 | 51.3 | 41.7 | 3.0 | 4.96 |
| | | 70 | 50.5 | 39.7 | 3.3 | 4.45 |
| | | 80 | 49.7 | 38.0 | 3.7 | 3.98 |
| | 2.1 | 60 | 55.1 | 45.2 | 3.1 | 5.19 |
| | | 70 | 54.0 | 43.0 | 3.4 | 4.65 |
| | | 80 | 53.0 | 40.9 | 3.7 | 4.16 |
| | 3.4 | 60 | 57.3 | 47.4 | 3.2 | 5.33 |
| | | 70 | 56.1 | 45.0 | 3.4 | 4.77 |
| | | 80 | 54.9 | 42.7 | 3.8 | 4.26 |
| 70 | 1.0 | 60 | 57.1 | 47.1 | 3.1 | 5.31 |
| | | 70 | 56.1 | 45.1 | 3.4 | 4.77 |
| | | 80 | 55.2 | 43.0 | 3.8 | 4.28 |
| | 2.0 | 60 | 61.5 | 51.2 | 3.2 | 5.57 |
| | | 70 | 60.2 | 48.9 | 3.5 | 4.99 |
| | | 80 | 59.1 | 46.5 | 3.9 | 4.46 |
| | 3.4 | 60 | 64.0 | 53.7 | 3.3 | 5.72 |
| | | 70 | 62.6 | 51.1 | 3.6 | 5.11 |
| | | 80 | 61.3 | 48.6 | 3.9 | 4.57 |
| 80 | 1.0 | 60 | 63.0 | 52.7 | 3.3 | 5.66 |
| | | 70 | 61.9 | 50.6 | 3.6 | 5.08 |
| | | 80 | 60.9 | 48.4 | 3.9 | 4.55 |
| | 2.0 | 60 | 68.0 | 57.4 | 3.4 | 5.93 |
| | | 70 | 66.7 | 54.9 | 3.7 | 5.31 |
| | | 80 | 65.4 | 52.4 | 4.0 | 4.74 |
| | 3.3 | 60 | 71.0 | 60.3 | 3.4 | 6.08 |
| | | 70 | 69.4 | 57.5 | 3.7 | 5.44 |
| | | 80 | 67.9 | 54.7 | 4.1 | 4.85 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM048 HZ Part Load Cooling Performance Data - 1380 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 6 | 1.0 | 75/63 | 39.1 | 32.1 | 44.6 | 1.6 | 24.3 |
| | | | 80/67 | 41.6 | 33.3 | 47.1 | 1.6 | 26.1 |
| | | | 85/71 | 44.3 | 34.3 | 49.8 | 1.6 | 28.1 |
| | 9 | 2.1 | 75/63 | 40.6 | 32.7 | 45.7 | 1.5 | 27.4 |
| | | | 80/67 | 43.2 | 33.9 | 48.3 | 1.5 | 29.8 |
| | | | 85/71 | 46.1 | 34.7 | 51.0 | 1.4 | 32.4 |
| | 12 | 3.5 | 75/63 | 41.3 | 33.0 | 46.2 | 1.4 | 29.2 |
| | | | 80/67 | 44.1 | 34.1 | 48.9 | 1.4 | 32.0 |
| | | | 85/71 | 47.0 | 35.1 | 51.7 | 1.3 | 34.9 |
| 60 | 6 | 1.0 | 75/63 | 36.8 | 31.2 | 43.1 | 1.8 | 20.1 |
| | | | 80/67 | 39.4 | 32.1 | 45.6 | 1.8 | 21.7 |
| | | | 85/71 | 41.9 | 33.4 | 48.1 | 1.8 | 23.3 |
| | 9 | 2.1 | 75/63 | 38.2 | 31.6 | 44.0 | 1.7 | 22.6 |
| | | | 80/67 | 40.9 | 32.7 | 46.6 | 1.7 | 24.5 |
| | | | 85/71 | 43.5 | 33.9 | 49.2 | 1.6 | 26.6 |
| | 12 | 3.4 | 75/63 | 38.9 | 32.0 | 44.5 | 1.6 | 24.0 |
| | | | 80/67 | 41.7 | 33.0 | 47.2 | 1.6 | 26.2 |
| | | | 85/71 | 44.5 | 34.0 | 49.9 | 1.6 | 28.5 |
| 70 | 6 | 1.0 | 75/63 | 34.8 | 30.3 | 41.7 | 2.1 | 16.8 |
| | | | 80/67 | 37.1 | 31.6 | 44.1 | 2.1 | 18.0 |
| | | | 85/71 | 39.6 | 32.5 | 46.6 | 2.0 | 19.4 |
| | 9 | 2.0 | 75/63 | 36.0 | 30.8 | 42.6 | 1.9 | 18.7 |
| | | | 80/67 | 38.5 | 32.1 | 45.0 | 1.9 | 20.3 |
| | | | 85/71 | 41.1 | 33.2 | 47.6 | 1.9 | 21.9 |
| | 12 | 3.4 | 75/63 | 36.7 | 31.1 | 43.0 | 1.9 | 19.8 |
| | | | 80/67 | 39.3 | 32.4 | 45.5 | 1.8 | 21.5 |
| | | | 85/71 | 42.0 | 33.3 | 48.2 | 1.8 | 23.4 |
| 80 | 6 | 1.0 | 75/63 | 32.5 | 29.5 | 40.3 | 2.3 | 13.9 |
| | | | 80/67 | 34.7 | 30.6 | 42.6 | 2.3 | 14.9 |
| | | | 85/71 | 37.1 | 31.7 | 45.0 | 2.3 | 16.1 |
| | 9 | 2.0 | 75/63 | 33.7 | 29.9 | 41.1 | 2.2 | 15.4 |
| | | | 80/67 | 36.1 | 30.9 | 43.5 | 2.2 | 16.7 |
| | | | 85/71 | 38.6 | 32.2 | 45.9 | 2.1 | 18.0 |
| | 12 | 3.3 | 75/63 | 34.3 | 30.2 | 41.4 | 2.1 | 16.3 |
| | | | 80/67 | 36.8 | 31.4 | 43.9 | 2.1 | 17.7 |
| | | | 85/71 | 39.4 | 32.5 | 46.5 | 2.1 | 19.2 |
| 90 | 6 | 1.0 | 75/63 | 30.3 | 28.7 | 39.1 | 2.6 | 11.5 |
| | | | 80/67 | 32.5 | 29.9 | 41.3 | 2.6 | 12.4 |
| | | | 85/71 | 34.8 | 31.1 | 43.6 | 2.6 | 13.3 |
| | 9 | 2.0 | 75/63 | 31.4 | 29.1 | 39.7 | 2.5 | 12.7 |
| | | | 80/67 | 33.7 | 30.4 | 42.0 | 2.5 | 13.7 |
| | | | 85/71 | 36.2 | 31.5 | 44.4 | 2.4 | 14.8 |
| | 12 | 3.2 | 75/63 | 32.0 | 29.3 | 40.1 | 2.4 | 13.4 |
| | | | 80/67 | 34.4 | 30.6 | 42.4 | 2.4 | 14.5 |
| | | | 85/71 | 36.9 | 31.8 | 44.9 | 2.3 | 15.7 |
| 100 | 6 | 0.9 | 75/63 | 28.2 | 27.5 | 38.0 | 2.9 | 9.6 |
| | | | 80/67 | 30.3 | 29.0 | 40.1 | 2.9 | 10.3 |
| | | | 85/71 | 32.5 | 30.2 | 42.3 | 2.9 | 11.1 |
| | 9 | 1.9 | 75/63 | 29.2 | 27.9 | 38.5 | 2.8 | 10.5 |
| | | | 80/67 | 31.4 | 29.2 | 40.7 | 2.8 | 11.3 |
| | | | 85/71 | 33.7 | 30.4 | 43.0 | 2.8 | 12.2 |
| | 12 | 3.2 | 75/63 | 29.7 | 28.1 | 38.8 | 2.7 | 11.0 |
| | | | 80/67 | 32.0 | 29.6 | 41.0 | 2.7 | 11.9 |
| | | | 85/71 | 34.3 | 30.8 | 43.4 | 2.7 | 12.9 |
| 110 | 6 | 0.9 | 75/63 | 26.5 | 26.5 | 37.4 | 3.3 | 8.0 |
| | | | 80/67 | 28.2 | 28.2 | 39.1 | 3.3 | 8.6 |
| | | | 85/71 | 30.2 | 29.6 | 41.2 | 3.3 | 9.2 |
| | 9 | 1.9 | 75/63 | 27.1 | 27.1 | 37.5 | 3.1 | 8.7 |
| | | | 80/67 | 29.1 | 28.7 | 39.6 | 3.1 | 9.4 |
| | | | 85/71 | 31.3 | 29.9 | 41.7 | 3.1 | 10.1 |
| | 12 | 3.1 | 75/63 | 27.5 | 27.5 | 37.7 | 3.1 | 9.0 |
| | | | 80/67 | 29.7 | 28.9 | 39.8 | 3.0 | 9.8 |
| | | | 85/71 | 31.9 | 30.1 | 42.1 | 3.0 | 10.6 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM048 HZ Part Load Heating Performance Data - 1380 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 30 | 1.1 | 60 | 27.1 | 20.8 | 2.0 | 3.92 |
| | | 70 | 26.2 | 19.1 | 2.3 | 3.41 |
| | | 80 | 25.3 | 17.5 | 2.5 | 2.96 |
| | 2.2 | 60 | 28.3 | 22.0 | 2.0 | 4.09 |
| | | 70 | 27.3 | 20.2 | 2.3 | 3.54 |
| | | 80 | 26.3 | 18.4 | 2.5 | 3.06 |
| | 3.7 | 60 | 29.0 | 22.7 | 2.0 | 4.18 |
| | | 70 | 27.9 | 20.8 | 2.3 | 3.61 |
| | | 80 | 26.9 | 19.0 | 2.5 | 3.12 |
| 40 | 1.1 | 60 | 30.8 | 24.5 | 2.0 | 4.42 |
| | | 70 | 29.8 | 22.7 | 2.3 | 3.84 |
| | | 80 | 28.9 | 21.0 | 2.5 | 3.34 |
| | 2.2 | 60 | 32.4 | 26.0 | 2.1 | 4.62 |
| | | 70 | 31.2 | 24.1 | 2.3 | 4 |
| | | 80 | 30.2 | 22.2 | 2.6 | 3.47 |
| | 3.6 | 60 | 33.2 | 26.8 | 2.1 | 4.74 |
| | | 70 | 32.0 | 24.9 | 2.3 | 4.09 |
| | | 80 | 30.9 | 22.9 | 2.6 | 3.54 |
| 50 | 1.0 | 60 | 34.8 | 28.4 | 2.1 | 4.94 |
| | | 70 | 33.8 | 26.5 | 2.3 | 4.29 |
| | | 80 | 32.9 | 24.7 | 2.6 | 3.74 |
| | 2.1 | 60 | 36.7 | 30.2 | 2.1 | 5.19 |
| | | 70 | 35.5 | 28.3 | 2.3 | 4.49 |
| | | 80 | 34.5 | 26.2 | 2.6 | 3.9 |
| | 3.5 | 60 | 37.8 | 31.3 | 2.1 | 5.33 |
| | | 70 | 36.5 | 29.2 | 2.3 | 4.6 |
| | | 80 | 35.4 | 27.1 | 2.6 | 4 |
| 60 | 1.0 | 60 | 39.0 | 32.5 | 2.1 | 5.49 |
| | | 70 | 37.9 | 30.6 | 2.3 | 4.77 |
| | | 80 | 37.0 | 28.7 | 2.6 | 4.17 |
| | 2.1 | 60 | 41.3 | 34.8 | 2.1 | 5.77 |
| | | 70 | 40.0 | 32.8 | 2.3 | 5.01 |
| | | 80 | 38.9 | 30.7 | 2.6 | 4.36 |
| | 3.4 | 60 | 42.6 | 36.1 | 2.1 | 5.95 |
| | | 70 | 41.3 | 33.9 | 2.3 | 5.16 |
| | | 80 | 40.0 | 31.8 | 2.6 | 4.47 |
| 70 | 1.0 | 60 | 43.5 | 37.0 | 2.1 | 6.07 |
| | | 70 | 42.4 | 35.0 | 2.3 | 5.28 |
| | | 80 | 41.3 | 33.0 | 2.6 | 4.61 |
| | 2.0 | 60 | 46.2 | 39.7 | 2.1 | 6.43 |
| | | 70 | 44.8 | 37.5 | 2.4 | 5.57 |
| | | 80 | 43.6 | 35.4 | 2.6 | 4.84 |
| | 3.4 | 60 | 47.8 | 41.3 | 2.1 | 6.63 |
| | | 70 | 46.3 | 39.0 | 2.4 | 5.74 |
| | | 80 | 45.0 | 36.6 | 2.6 | 4.98 |
| 80 | 1.0 | 60 | 48.2 | 41.7 | 2.1 | 6.69 |
| | | 70 | 47.0 | 39.6 | 2.4 | 5.81 |
| | | 80 | 45.8 | 37.5 | 2.7 | 5.07 |
| | 2.0 | 60 | 51.3 | 44.8 | 2.1 | 7.1 |
| | | 70 | 49.9 | 42.5 | 2.4 | 6.15 |
| | | 80 | 48.5 | 40.2 | 2.7 | 5.34 |
| | 3.3 | 60 | 53.1 | 46.7 | 2.1 | 7.34 |
| | | 70 | 51.6 | 44.2 | 2.4 | 6.34 |
| | | 80 | 50.1 | 41.7 | 2.7 | 5.49 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM060 HZ Full Load Cooling Performance Data - 2000 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 7.5 | 1.2 | 75/63 | 64.5 | 50.2 | 75.8 | 3.3 | 19.7 |
| | | | 80/67 | 68.7 | 51.3 | 80.2 | 3.3 | 20.5 |
| | | | 85/71 | 72.9 | 52.6 | 84.6 | 3.4 | 21.4 |
| | 11 | 2.5 | 75/63 | 66.7 | 50.8 | 77.4 | 3.1 | 21.4 |
| | | | 80/67 | 71.0 | 52.2 | 81.9 | 3.2 | 22.5 |
| | | | 85/71 | 75.4 | 53.8 | 86.5 | 3.2 | 23.4 |
| | 15 | 4.4 | 75/63 | 67.9 | 51.3 | 78.3 | 3.0 | 22.5 |
| | | | 80/67 | 72.3 | 53.0 | 82.9 | 3.1 | 23.6 |
| | | | 85/71 | 76.9 | 54.4 | 87.8 | 3.1 | 24.7 |
| 60 | 7.5 | 1.2 | 75/63 | 61.8 | 48.7 | 73.9 | 3.5 | 17.4 |
| | | | 80/67 | 65.7 | 50.1 | 78.1 | 3.6 | 18.2 |
| | | | 85/71 | 69.8 | 51.5 | 82.3 | 3.7 | 19.0 |
| | 11 | 2.5 | 75/63 | 63.8 | 49.6 | 75.3 | 3.4 | 19.0 |
| | | | 80/67 | 67.9 | 51.3 | 79.6 | 3.4 | 20.0 |
| | | | 85/71 | 72.2 | 52.8 | 84.1 | 3.4 | 20.9 |
| | 15 | 4.3 | 75/63 | 64.9 | 50.3 | 76.1 | 3.2 | 20.0 |
| | | | 80/67 | 69.2 | 51.8 | 80.6 | 3.3 | 21.1 |
| | | | 85/71 | 73.8 | 52.9 | 85.3 | 3.3 | 22.1 |
| 70 | 7.5 | 1.2 | 75/63 | 58.8 | 47.7 | 72.0 | 3.9 | 15.3 |
| | | | 80/67 | 62.7 | 48.9 | 76.0 | 3.9 | 16.0 |
| | | | 85/71 | 66.5 | 50.3 | 80.1 | 4.0 | 16.8 |
| | 11 | 2.4 | 75/63 | 60.9 | 48.3 | 73.3 | 3.6 | 16.7 |
| | | | 80/67 | 64.9 | 49.8 | 77.5 | 3.7 | 17.6 |
| | | | 85/71 | 68.9 | 51.6 | 81.8 | 3.7 | 18.5 |
| | 15 | 4.2 | 75/63 | 61.9 | 49.1 | 74.0 | 3.5 | 17.6 |
| | | | 80/67 | 66.1 | 50.6 | 78.3 | 3.6 | 18.6 |
| | | | 85/71 | 70.4 | 52.1 | 82.8 | 3.6 | 19.6 |
| 80 | 7.5 | 1.2 | 75/63 | 56.0 | 46.3 | 70.3 | 4.2 | 13.3 |
| | | | 80/67 | 59.6 | 47.7 | 74.1 | 4.3 | 14.0 |
| | | | 85/71 | 63.1 | 49.6 | 77.9 | 4.3 | 14.6 |
| | 11 | 2.4 | 75/63 | 57.8 | 47.3 | 71.4 | 4.0 | 14.5 |
| | | | 80/67 | 61.7 | 48.6 | 75.4 | 4.0 | 15.4 |
| | | | 85/71 | 65.7 | 50.0 | 79.5 | 4.1 | 16.2 |
| | 15 | 4.1 | 75/63 | 59.0 | 47.5 | 72.1 | 3.8 | 15.3 |
| | | | 80/67 | 62.8 | 49.3 | 76.2 | 3.9 | 16.2 |
| | | | 85/71 | 67.1 | 50.5 | 80.5 | 3.9 | 17.1 |
| 90 | 7.5 | 1.2 | 75/63 | 53.0 | 45.1 | 68.6 | 4.6 | 11.5 |
| | | | 80/67 | 56.1 | 47.3 | 72.1 | 4.7 | 12.1 |
| | | | 85/71 | 59.7 | 48.5 | 75.9 | 4.7 | 12.7 |
| | 11 | 2.3 | 75/63 | 54.7 | 46.1 | 69.5 | 4.4 | 12.6 |
| | | | 80/67 | 58.5 | 47.3 | 73.4 | 4.4 | 13.3 |
| | | | 85/71 | 62.0 | 49.3 | 77.3 | 4.4 | 14.0 |
| | 15 | 4.0 | 75/63 | 55.8 | 46.2 | 70.2 | 4.2 | 13.2 |
| | | | 80/67 | 59.6 | 47.8 | 74.1 | 4.3 | 14.0 |
| | | | 85/71 | 63.6 | 49.3 | 78.2 | 4.3 | 14.8 |
| 100 | 7.5 | 1.2 | 75/63 | 49.9 | 44.2 | 67.1 | 5.1 | 9.9 |
| | | | 80/67 | 53.1 | 45.7 | 70.5 | 5.1 | 10.4 |
| | | | 85/71 | 56.4 | 47.4 | 74.1 | 5.2 | 10.9 |
| | 11 | 2.3 | 75/63 | 51.6 | 44.5 | 67.9 | 4.8 | 10.8 |
| | | | 80/67 | 55.0 | 46.4 | 71.5 | 4.8 | 11.4 |
| | | | 85/71 | 58.7 | 47.7 | 75.3 | 4.9 | 12.0 |
| | 15 | 3.9 | 75/63 | 52.5 | 45.2 | 68.4 | 4.7 | 11.3 |
| | | | 80/67 | 56.1 | 47.0 | 72.1 | 4.7 | 12.0 |
| | | | 85/71 | 59.9 | 48.2 | 76.0 | 4.7 | 12.7 |
| 110 | 7.5 | 1.2 | 75/63 | 46.9 | 42.8 | 65.7 | 5.6 | 8.4 |
| | | | 80/67 | 49.9 | 44.4 | 69.0 | 5.6 | 8.9 |
| | | | 85/71 | 53.1 | 45.9 | 72.4 | 5.7 | 9.3 |
| | 11 | 2.2 | 75/63 | 48.4 | 43.5 | 66.4 | 5.3 | 9.1 |
| | | | 80/67 | 51.7 | 45.1 | 69.9 | 5.3 | 9.7 |
| | | | 85/71 | 55.1 | 46.7 | 73.4 | 5.4 | 10.3 |
| | 15 | 3.8 | 75/63 | 49.3 | 43.8 | 66.8 | 5.2 | 9.6 |
| | | | 80/67 | 52.8 | 45.2 | 70.4 | 5.2 | 10.2 |
| | | | 85/71 | 56.1 | 47.5 | 73.9 | 5.2 | 10.8 |

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Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM060 HZ Full Load Heating Performance Data - 2000 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 30 | 1.2 | 60 | 44.3 | 33.2 | 3.4 | 3.79 |
| | | 70 | 43.6 | 31.4 | 3.8 | 3.4 |
| | | 80 | 42.7 | 29.8 | 4.1 | 3.03 |
| | 2.6 | 60 | 46.3 | 35.0 | 3.5 | 3.91 |
| | | 70 | 45.5 | 33.0 | 3.8 | 3.5 |
| | | 80 | 44.7 | 31.1 | 4.2 | 3.14 |
| | 4.6 | 60 | 47.6 | 36.5 | 3.5 | 3.99 |
| | | 70 | 46.7 | 34.1 | 3.8 | 3.57 |
| | | 80 | 45.8 | 32.2 | 4.2 | 3.2 |
| 40 | 1.2 | 60 | 49.9 | 38.5 | 3.5 | 4.13 |
| | | 70 | 49.1 | 36.6 | 3.9 | 3.71 |
| | | 80 | 48.5 | 34.9 | 4.3 | 3.34 |
| | 2.6 | 60 | 52.5 | 40.9 | 3.6 | 4.28 |
| | | 70 | 51.5 | 38.8 | 3.9 | 3.84 |
| | | 80 | 50.7 | 36.7 | 4.3 | 3.45 |
| | 4.5 | 60 | 54.2 | 42.6 | 3.6 | 4.38 |
| | | 70 | 53.1 | 40.2 | 4.0 | 3.93 |
| | | 80 | 52.0 | 37.9 | 4.3 | 3.53 |
| 50 | 1.2 | 60 | 56.1 | 44.4 | 3.7 | 4.48 |
| | | 70 | 55.2 | 42.3 | 4.0 | 4.04 |
| | | 80 | 54.3 | 40.5 | 4.4 | 3.63 |
| | 2.5 | 60 | 59.3 | 47.3 | 3.7 | 4.66 |
| | | 70 | 58.2 | 45.0 | 4.1 | 4.2 |
| | | 80 | 57.0 | 43.0 | 4.4 | 3.77 |
| | 4.4 | 60 | 61.4 | 49.2 | 3.8 | 4.78 |
| | | 70 | 60.1 | 46.8 | 4.1 | 4.3 |
| | | 80 | 58.9 | 44.3 | 4.5 | 3.86 |
| 60 | 1.2 | 60 | 62.7 | 50.6 | 3.8 | 4.85 |
| | | 70 | 61.7 | 48.4 | 4.1 | 4.37 |
| | | 80 | 60.8 | 46.1 | 4.5 | 3.94 |
| | 2.5 | 60 | 66.6 | 54.1 | 3.9 | 5.05 |
| | | 70 | 65.2 | 51.7 | 4.2 | 4.54 |
| | | 80 | 64.0 | 49.1 | 4.6 | 4.09 |
| | 4.3 | 60 | 69.1 | 56.5 | 3.9 | 5.17 |
| | | 70 | 67.6 | 53.8 | 4.3 | 4.66 |
| | | 80 | 66.2 | 51.1 | 4.6 | 4.18 |
| 70 | 1.2 | 60 | 69.7 | 57.1 | 3.9 | 5.2 |
| | | 70 | 68.5 | 54.8 | 4.3 | 4.69 |
| | | 80 | 67.3 | 52.4 | 4.7 | 4.23 |
| | 2.4 | 60 | 74.2 | 61.3 | 4.0 | 5.41 |
| | | 70 | 72.7 | 58.7 | 4.4 | 4.88 |
| | | 80 | 71.3 | 55.8 | 4.8 | 4.39 |
| | 4.2 | 60 | 77.2 | 64.0 | 4.1 | 5.54 |
| | | 70 | 75.5 | 61.1 | 4.4 | 5 |
| | | 80 | 73.8 | 58.1 | 4.8 | 4.49 |
| 80 | 1.2 | 60 | 77.0 | 63.9 | 4.1 | 5.54 |
| | | 70 | 75.6 | 61.4 | 4.4 | 5 |
| | | 80 | 74.2 | 58.8 | 4.8 | 4.51 |
| | 2.4 | 60 | 82.2 | 68.8 | 4.2 | 5.76 |
| | | 70 | 80.4 | 65.8 | 4.5 | 5.19 |
| | | 80 | 78.7 | 62.9 | 4.9 | 4.68 |
| | 4.1 | 60 | 85.7 | 72.0 | 4.3 | 5.89 |
| | | 70 | 83.6 | 68.7 | 4.6 | 5.32 |
| | | 80 | 81.7 | 65.4 | 5.0 | 4.78 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM060 HZ Part Load Cooling Performance Data - 1790 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 7.5 | 1.2 | 75/63 | 50.4 | 41.4 | 57.4 | 2.0 | 24.7 |
| | | | 80/67 | 53.6 | 42.9 | 60.6 | 2.0 | 26.5 |
| | | | 85/71 | 57.1 | 43.9 | 64.0 | 2.0 | 28.6 |
| | 11 | 2.5 | 75/63 | 51.9 | 42.2 | 58.6 | 1.9 | 27.1 |
| | | | 80/67 | 55.5 | 43.4 | 62.0 | 1.9 | 29.5 |
| | | | 85/71 | 59.0 | 44.6 | 65.5 | 1.8 | 32.0 |
| | 15 | 4.4 | 75/63 | 52.9 | 42.6 | 59.3 | 1.8 | 28.8 |
| | | | 80/67 | 56.5 | 43.8 | 62.8 | 1.8 | 31.4 |
| | | | 85/71 | 60.2 | 45.1 | 66.4 | 1.8 | 34.2 |
| 60 | 7.5 | 1.2 | 75/63 | 47.6 | 40.2 | 55.4 | 2.3 | 20.8 |
| | | | 80/67 | 50.7 | 41.6 | 58.5 | 2.3 | 22.4 |
| | | | 85/71 | 54.0 | 42.9 | 61.7 | 2.2 | 24.0 |
| | 11 | 2.5 | 75/63 | 49.1 | 40.8 | 56.5 | 2.2 | 22.8 |
| | | | 80/67 | 52.4 | 42.4 | 59.7 | 2.1 | 24.7 |
| | | | 85/71 | 55.9 | 43.5 | 63.1 | 2.1 | 26.8 |
| | 15 | 4.3 | 75/63 | 50.1 | 41.2 | 57.2 | 2.1 | 24.2 |
| | | | 80/67 | 53.5 | 42.6 | 60.5 | 2.0 | 26.3 |
| | | | 85/71 | 56.9 | 44.2 | 63.9 | 2.0 | 28.5 |
| 70 | 7.5 | 1.2 | 75/63 | 44.7 | 39.0 | 53.4 | 2.6 | 17.4 |
| | | | 80/67 | 47.8 | 40.4 | 56.5 | 2.6 | 18.7 |
| | | | 85/71 | 50.8 | 42.1 | 59.5 | 2.5 | 20.1 |
| | 11 | 2.4 | 75/63 | 46.2 | 39.6 | 54.4 | 2.4 | 19.1 |
| | | | 80/67 | 49.4 | 41.1 | 57.6 | 2.4 | 20.6 |
| | | | 85/71 | 52.7 | 42.4 | 60.8 | 2.4 | 22.3 |
| | 15 | 4.2 | 75/63 | 47.1 | 40.0 | 55.0 | 2.3 | 20.1 |
| | | | 80/67 | 50.4 | 41.4 | 58.3 | 2.3 | 21.9 |
| | | | 85/71 | 53.7 | 43.0 | 61.5 | 2.3 | 23.7 |
| 80 | 7.5 | 1.2 | 75/63 | 41.7 | 38.1 | 51.5 | 2.9 | 14.4 |
| | | | 80/67 | 44.6 | 39.7 | 54.4 | 2.9 | 15.6 |
| | | | 85/71 | 47.8 | 40.7 | 57.5 | 2.9 | 16.8 |
| | 11 | 2.4 | 75/63 | 43.1 | 38.6 | 52.4 | 2.7 | 15.8 |
| | | | 80/67 | 46.2 | 40.1 | 55.5 | 2.7 | 17.1 |
| | | | 85/71 | 49.4 | 41.7 | 58.5 | 2.7 | 18.5 |
| | 15 | 4.1 | 75/63 | 43.9 | 39.0 | 52.9 | 2.6 | 16.6 |
| | | | 80/67 | 47.1 | 40.6 | 56.0 | 2.6 | 18.1 |
| | | | 85/71 | 50.6 | 41.7 | 59.3 | 2.6 | 19.7 |
| 90 | 7.5 | 1.2 | 75/63 | 38.9 | 36.6 | 49.8 | 3.2 | 12.0 |
| | | | 80/67 | 41.6 | 38.6 | 52.5 | 3.2 | 12.9 |
| | | | 85/71 | 44.6 | 39.8 | 55.5 | 3.2 | 13.9 |
| | 11 | 2.3 | 75/63 | 40.2 | 37.2 | 50.5 | 3.1 | 13.0 |
| | | | 80/67 | 43.1 | 39.0 | 53.5 | 3.1 | 14.1 |
| | | | 85/71 | 46.2 | 40.5 | 56.5 | 3.0 | 15.3 |
| | 15 | 4.0 | 75/63 | 40.8 | 37.8 | 51.0 | 3.0 | 13.7 |
| | | | 80/67 | 43.9 | 39.4 | 54.0 | 3.0 | 14.9 |
| | | | 85/71 | 47.1 | 40.9 | 57.0 | 2.9 | 16.2 |
| 100 | 7.5 | 1.2 | 75/63 | 36.0 | 35.8 | 48.2 | 3.6 | 10.0 |
| | | | 80/67 | 38.7 | 37.5 | 50.8 | 3.6 | 10.7 |
| | | | 85/71 | 41.5 | 38.7 | 53.7 | 3.6 | 11.6 |
| | 11 | 2.3 | 75/63 | 37.1 | 36.3 | 48.8 | 3.5 | 10.7 |
| | | | 80/67 | 40.0 | 37.9 | 51.6 | 3.4 | 11.6 |
| | | | 85/71 | 42.9 | 39.2 | 54.5 | 3.4 | 12.6 |
| | 15 | 3.9 | 75/63 | 37.9 | 36.4 | 49.2 | 3.4 | 11.2 |
| | | | 80/67 | 40.8 | 38.0 | 52.1 | 3.3 | 12.2 |
| | | | 85/71 | 43.8 | 39.4 | 55.0 | 3.3 | 13.3 |
| 110 | 7.5 | 1.2 | 75/63 | 33.9 | 33.9 | 47.3 | 4.0 | 8.4 |
| | | | 80/67 | 36.0 | 36.0 | 49.5 | 4.0 | 9.0 |
| | | | 85/71 | 38.5 | 37.9 | 52.0 | 4.0 | 9.6 |
| | 11 | 2.2 | 75/63 | 34.6 | 34.6 | 47.6 | 3.9 | 9.0 |
| | | | 80/67 | 37.0 | 36.7 | 49.9 | 3.8 | 9.6 |
| | | | 85/71 | 39.6 | 38.5 | 52.6 | 3.8 | 10.4 |
| | 15 | 3.8 | 75/63 | 35.0 | 35.0 | 47.7 | 3.8 | 9.3 |
| | | | 80/67 | 37.7 | 36.9 | 50.3 | 3.8 | 10.0 |
| | | | 85/71 | 40.5 | 38.4 | 53.1 | 3.7 | 10.9 |

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Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM060 HZ Part Load Heating Performance Data - 1790 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 30 | 1.2 | 60 | 32.6 | 24.7 | 2.5 | 3.81 |
| | | 70 | 31.3 | 22.6 | 2.8 | 3.31 |
| | | 80 | 30.2 | 20.5 | 3.1 | 2.88 |
| | 2.6 | 60 | 34.1 | 25.8 | 2.5 | 3.98 |
| | | 70 | 32.8 | 23.5 | 2.8 | 3.46 |
| | | 80 | 31.2 | 21.3 | 3.1 | 2.97 |
| | 4.6 | 60 | 34.9 | 26.5 | 2.5 | 4.06 |
| | | 70 | 33.5 | 24.2 | 2.8 | 3.52 |
| | | 80 | 31.8 | 22.0 | 3.1 | 3.03 |
| 40 | 1.2 | 60 | 37.1 | 29.2 | 2.5 | 4.31 |
| | | 70 | 36.2 | 26.8 | 2.8 | 3.79 |
| | | 80 | 34.6 | 24.7 | 3.1 | 3.27 |
| | 2.6 | 60 | 39.0 | 30.5 | 2.5 | 4.51 |
| | | 70 | 37.6 | 28.2 | 2.8 | 3.92 |
| | | 80 | 35.9 | 26.0 | 3.1 | 3.38 |
| | 4.5 | 60 | 39.9 | 31.4 | 2.5 | 4.62 |
| | | 70 | 38.2 | 29.2 | 2.8 | 3.98 |
| | | 80 | 36.7 | 26.6 | 3.1 | 3.45 |
| 50 | 1.2 | 60 | 42.0 | 33.9 | 2.5 | 4.83 |
| | | 70 | 40.6 | 31.7 | 2.8 | 4.21 |
| | | 80 | 39.4 | 29.3 | 3.1 | 3.68 |
| | 2.5 | 60 | 44.2 | 35.6 | 2.6 | 5.07 |
| | | 70 | 42.4 | 33.4 | 2.8 | 4.37 |
| | | 80 | 41.0 | 30.9 | 3.2 | 3.82 |
| | 4.4 | 60 | 45.4 | 36.8 | 2.6 | 5.2 |
| | | 70 | 43.5 | 34.5 | 2.8 | 4.48 |
| | | 80 | 42.2 | 31.9 | 3.2 | 3.91 |
| 60 | 1.2 | 60 | 47.1 | 38.9 | 2.6 | 5.39 |
| | | 70 | 45.7 | 36.6 | 2.8 | 4.7 |
| | | 80 | 44.4 | 34.3 | 3.2 | 4.11 |
| | 2.5 | 60 | 49.4 | 41.2 | 2.6 | 5.63 |
| | | 70 | 47.8 | 38.7 | 2.9 | 4.91 |
| | | 80 | 46.4 | 36.2 | 3.2 | 4.28 |
| | 4.3 | 60 | 50.9 | 42.7 | 2.6 | 5.8 |
| | | 70 | 49.2 | 40.1 | 2.9 | 5.05 |
| | | 80 | 47.6 | 37.4 | 3.2 | 4.39 |
| 70 | 1.2 | 60 | 52.5 | 44.3 | 2.6 | 5.99 |
| | | 70 | 51.1 | 41.9 | 2.9 | 5.23 |
| | | 80 | 49.7 | 39.4 | 3.2 | 4.57 |
| | 2.4 | 60 | 55.2 | 47.1 | 2.6 | 6.3 |
| | | 70 | 53.6 | 44.5 | 2.9 | 5.48 |
| | | 80 | 52.0 | 41.7 | 3.2 | 4.78 |
| | 4.2 | 60 | 57.0 | 48.9 | 2.6 | 6.51 |
| | | 70 | 55.2 | 46.1 | 2.9 | 5.65 |
| | | 80 | 53.5 | 43.3 | 3.2 | 4.91 |
| 80 | 1.2 | 60 | 58.1 | 50.0 | 2.6 | 6.64 |
| | | 70 | 56.6 | 47.4 | 2.9 | 5.79 |
| | | 80 | 55.0 | 44.8 | 3.2 | 5.05 |
| | 2.4 | 60 | 61.2 | 53.2 | 2.6 | 7.01 |
| | | 70 | 59.5 | 50.4 | 2.9 | 6.08 |
| | | 80 | 57.7 | 47.4 | 3.2 | 5.29 |
| | 4.1 | 60 | 63.3 | 55.3 | 2.6 | 7.25 |
| | | 70 | 61.3 | 52.3 | 2.9 | 6.28 |
| | | 80 | 59.5 | 49.3 | 3.2 | 5.45 |

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Bosch Thermotechnology Corp.

Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM070 HZ Full Load Cooling Performance Data - 2450 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 9 | 0.8 | 75/63 | 69.7 | 56.9 | 84.0 | 4.2 | 16.7 |
| | | | 80/67 | 74.0 | 58.7 | 88.7 | 4.2 | 17.4 |
| | | | 85/71 | 78.8 | 60.0 | 93.6 | 4.3 | 18.3 |
| | 13 | 1.6 | 75/63 | 72.1 | 57.9 | 85.7 | 3.9 | 18.3 |
| | | | 80/67 | 76.8 | 59.8 | 90.6 | 4.0 | 19.3 |
| | | | 85/71 | 81.9 | 61.1 | 95.8 | 4.0 | 20.3 |
| | 17.5 | 2.7 | 75/63 | 73.6 | 58.5 | 86.7 | 3.8 | 19.4 |
| | | | 80/67 | 78.5 | 60.4 | 91.8 | 3.8 | 20.5 |
| | | | 85/71 | 83.6 | 62.2 | 97.1 | 3.9 | 21.6 |
| 60 | 9 | 0.8 | 75/63 | 66.6 | 55.3 | 82.0 | 4.5 | 14.7 |
| | | | 80/67 | 70.7 | 57.4 | 86.4 | 4.6 | 15.4 |
| | | | 85/71 | 74.8 | 59.8 | 90.8 | 4.6 | 16.1 |
| | 13 | 1.6 | 75/63 | 68.9 | 56.6 | 83.5 | 4.3 | 16.2 |
| | | | 80/67 | 73.4 | 58.4 | 88.2 | 4.3 | 17.0 |
| | | | 85/71 | 78.1 | 60.2 | 93.1 | 4.4 | 17.9 |
| | 17.5 | 2.7 | 75/63 | 70.3 | 57.1 | 84.5 | 4.1 | 17.1 |
| | | | 80/67 | 75.2 | 58.7 | 89.4 | 4.2 | 18.1 |
| | | | 85/71 | 79.9 | 60.9 | 94.4 | 4.2 | 19.1 |
| 70 | 9 | 0.8 | 75/63 | 63.4 | 54.0 | 80.0 | 4.9 | 12.9 |
| | | | 80/67 | 67.2 | 56.0 | 84.2 | 5.0 | 13.5 |
| | | | 85/71 | 71.6 | 57.6 | 88.7 | 5.0 | 14.2 |
| | 13 | 1.6 | 75/63 | 65.6 | 55.2 | 81.4 | 4.6 | 14.2 |
| | | | 80/67 | 69.8 | 57.1 | 85.9 | 4.7 | 14.9 |
| | | | 85/71 | 74.3 | 59.1 | 90.5 | 4.7 | 15.8 |
| | 17.5 | 2.7 | 75/63 | 67.1 | 55.5 | 82.4 | 4.5 | 15.0 |
| | | | 80/67 | 71.5 | 57.7 | 86.9 | 4.5 | 15.9 |
| | | | 85/71 | 76.3 | 59.2 | 91.9 | 4.5 | 16.8 |
| 80 | 9 | 0.8 | 75/63 | 60.0 | 53.0 | 78.2 | 5.3 | 11.3 |
| | | | 80/67 | 63.9 | 54.8 | 82.2 | 5.4 | 11.9 |
| | | | 85/71 | 67.5 | 57.4 | 86.3 | 5.4 | 12.4 |
| | 13 | 1.5 | 75/63 | 62.3 | 53.5 | 79.4 | 5.0 | 12.4 |
| | | | 80/67 | 66.3 | 55.6 | 83.7 | 5.1 | 13.0 |
| | | | 85/71 | 70.5 | 57.9 | 88.1 | 5.1 | 13.8 |
| | 17.5 | 2.7 | 75/63 | 63.5 | 54.4 | 80.2 | 4.9 | 13.1 |
| | | | 80/67 | 67.9 | 56.0 | 84.7 | 4.9 | 13.9 |
| | | | 85/71 | 72.2 | 58.5 | 89.2 | 4.9 | 14.7 |
| 90 | 9 | 0.8 | 75/63 | 56.9 | 51.7 | 76.5 | 5.8 | 9.9 |
| | | | 80/67 | 60.6 | 53.6 | 80.5 | 5.8 | 10.4 |
| | | | 85/71 | 64.4 | 55.4 | 84.5 | 5.9 | 10.9 |
| | 13 | 1.5 | 75/63 | 58.9 | 52.5 | 77.6 | 5.5 | 10.8 |
| | | | 80/67 | 62.8 | 54.4 | 81.7 | 5.5 | 11.4 |
| | | | 85/71 | 66.9 | 56.3 | 85.9 | 5.6 | 12.0 |
| | 17.5 | 2.7 | 75/63 | 60.1 | 53.0 | 78.2 | 5.3 | 11.3 |
| | | | 80/67 | 64.1 | 55.1 | 82.4 | 5.3 | 12.0 |
| | | | 85/71 | 68.4 | 57.0 | 86.8 | 5.4 | 12.7 |
| 100 | 9 | 0.8 | 75/63 | 53.5 | 50.4 | 75.0 | 6.3 | 8.5 |
| | | | 80/67 | 57.0 | 52.5 | 78.7 | 6.4 | 8.9 |
| | | | 85/71 | 60.7 | 54.2 | 82.6 | 6.4 | 9.4 |
| | 13 | 1.5 | 75/63 | 55.6 | 51.1 | 75.9 | 6.0 | 9.3 |
| | | | 80/67 | 59.4 | 53.1 | 79.9 | 6.0 | 9.9 |
| | | | 85/71 | 63.2 | 55.1 | 83.9 | 6.1 | 10.4 |
| | 17.5 | 2.7 | 75/63 | 56.8 | 51.7 | 76.5 | 5.8 | 9.8 |
| | | | 80/67 | 60.8 | 53.3 | 80.6 | 5.8 | 10.4 |
| | | | 85/71 | 64.7 | 55.4 | 84.7 | 5.9 | 11.1 |
| 110 | 9 | 0.8 | 75/63 | 50.3 | 49.4 | 73.7 | 6.9 | 7.3 |
| | | | 80/67 | 53.8 | 51.2 | 77.3 | 6.9 | 7.8 |
| | | | 85/71 | 57.0 | 53.6 | 80.9 | 7.0 | 8.1 |
| | 13 | 1.5 | 75/63 | 52.1 | 49.9 | 74.4 | 6.6 | 7.9 |
| | | | 80/67 | 55.8 | 51.8 | 78.2 | 6.6 | 8.4 |
| | | | 85/71 | 59.3 | 53.9 | 82.0 | 6.6 | 8.9 |
| | 17.5 | 2.7 | 75/63 | 53.3 | 50.1 | 74.9 | 6.4 | 8.4 |
| | | | 80/67 | 57.0 | 52.1 | 78.7 | 6.4 | 8.9 |
| | | | 85/71 | 60.6 | 54.7 | 82.5 | 6.4 | 9.4 |

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Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM070 HZ Full Load Heating Performance Data - 2450 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 30 | 0.9 | 60 | 52.7 | 38.2 | 4.4 | 3.48 |
| | | 70 | 52.3 | 36.5 | 4.8 | 3.16 |
| | | 80 | 52.1 | 34.4 | 5.3 | 2.88 |
| | 1.7 | 60 | 55.3 | 40.8 | 4.5 | 3.61 |
| | | 70 | 54.7 | 38.8 | 4.9 | 3.27 |
| | | 80 | 54.7 | 37.1 | 5.4 | 2.99 |
| | 2.7 | 60 | 57.3 | 42.3 | 4.5 | 3.71 |
| | | 70 | 56.2 | 40.2 | 4.9 | 3.34 |
| | | 80 | 56.2 | 38.7 | 5.4 | 3.05 |
| 40 | 0.9 | 60 | 59.4 | 44.5 | 4.6 | 3.8 |
| | | 70 | 58.8 | 42.5 | 5.0 | 3.45 |
| | | 80 | 58.4 | 40.7 | 5.4 | 3.14 |
| | 1.7 | 60 | 62.7 | 47.5 | 4.6 | 3.96 |
| | | 70 | 61.9 | 45.5 | 5.1 | 3.59 |
| | | 80 | 61.5 | 42.8 | 5.5 | 3.27 |
| | 2.7 | 60 | 64.9 | 49.6 | 4.7 | 4.06 |
| | | 70 | 63.8 | 47.7 | 5.1 | 3.67 |
| | | 80 | 62.8 | 46.0 | 5.6 | 3.31 |
| 50 | 0.8 | 60 | 66.7 | 51.4 | 4.7 | 4.15 |
| | | 70 | 66.0 | 49.3 | 5.1 | 3.77 |
| | | 80 | 65.4 | 47.1 | 5.6 | 3.42 |
| | 1.6 | 60 | 70.7 | 55.1 | 4.8 | 4.33 |
| | | 70 | 69.8 | 52.9 | 5.2 | 3.92 |
| | | 80 | 68.9 | 50.4 | 5.7 | 3.55 |
| | 2.7 | 60 | 73.5 | 57.6 | 4.8 | 4.45 |
| | | 70 | 72.2 | 55.5 | 5.3 | 4.01 |
| | | 80 | 71.2 | 52.7 | 5.7 | 3.64 |
| 60 | 0.8 | 60 | 74.5 | 58.7 | 4.9 | 4.49 |
| | | 70 | 73.6 | 56.4 | 5.3 | 4.07 |
| | | 80 | 72.8 | 54.0 | 5.8 | 3.69 |
| | 1.6 | 60 | 79.3 | 63.3 | 5.0 | 4.69 |
| | | 70 | 78.1 | 60.6 | 5.4 | 4.25 |
| | | 80 | 77.0 | 58.0 | 5.9 | 3.84 |
| | 2.7 | 60 | 82.6 | 66.4 | 5.0 | 4.82 |
| | | 70 | 81.2 | 63.3 | 5.5 | 4.36 |
| | | 80 | 79.8 | 60.7 | 5.9 | 3.94 |
| 70 | 0.8 | 60 | 82.6 | 66.3 | 5.0 | 4.82 |
| | | 70 | 81.5 | 63.7 | 5.5 | 4.37 |
| | | 80 | 80.6 | 61.2 | 6.0 | 3.97 |
| | 1.6 | 60 | 88.3 | 71.7 | 5.1 | 5.03 |
| | | 70 | 86.9 | 68.8 | 5.6 | 4.56 |
| | | 80 | 85.5 | 65.9 | 6.1 | 4.13 |
| | 2.7 | 60 | 92.2 | 75.4 | 5.2 | 5.18 |
| | | 70 | 90.5 | 72.3 | 5.7 | 4.69 |
| | | 80 | 88.9 | 68.7 | 6.1 | 4.24 |
| 80 | 0.8 | 60 | 91.1 | 74.3 | 5.2 | 5.14 |
| | | 70 | 89.8 | 71.5 | 5.6 | 4.67 |
| | | 80 | 88.6 | 68.6 | 6.1 | 4.23 |
| | 1.5 | 60 | 97.6 | 80.5 | 5.3 | 5.36 |
| | | 70 | 95.9 | 77.3 | 5.8 | 4.87 |
| | | 80 | 94.3 | 74.1 | 6.3 | 4.41 |
| | 2.7 | 60 | 102.1 | 84.7 | 5.4 | 5.51 |
| | | 70 | 100.1 | 81.3 | 5.9 | 5 |
| | | 80 | 98.2 | 77.7 | 6.4 | 4.52 |

DISCLAIMER: The performance reported herein is based on testing by FHP. Variations in the installation and operational environment may alter performance. Bosch disclaims all warranties, express and implied, that the performance will be as reported, including the warranty of merchantability and fitness for purpose. In addition, continuous research and development may result in a change to an appliances design and specifications at the time of order, which Bosch may change without notice. Before purchase, confirm the design specifications of the appliance.

GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM070 HZ Part Load Cooling Performance Data - 2100 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 9 | 0.8 | 75/63 | 56.7 | 47.8 | 65.9 | 2.7 | 21.0 |
| | | | 80/67 | 60.2 | 49.6 | 69.5 | 2.7 | 22.3 |
| | | | 85/71 | 64.1 | 50.8 | 73.4 | 2.7 | 23.7 |
| | 13 | 1.6 | 75/63 | 58.4 | 48.7 | 67.1 | 2.5 | 23.2 |
| | | | 80/67 | 62.2 | 50.3 | 70.9 | 2.5 | 24.8 |
| | | | 85/71 | 66.2 | 51.6 | 74.8 | 2.5 | 26.5 |
| | 17.5 | 2.7 | 75/63 | 59.5 | 48.9 | 67.9 | 2.4 | 24.6 |
| | | | 80/67 | 63.5 | 50.5 | 71.8 | 2.4 | 26.5 |
| | | | 85/71 | 67.5 | 52.1 | 75.7 | 2.4 | 28.4 |
| 60 | 9 | 0.8 | 75/63 | 53.8 | 46.8 | 64.1 | 3.0 | 18.0 |
| | | | 80/67 | 57.4 | 48.2 | 67.7 | 3.0 | 19.1 |
| | | | 85/71 | 60.9 | 49.8 | 71.3 | 3.0 | 20.2 |
| | 13 | 1.6 | 75/63 | 55.5 | 47.5 | 65.2 | 2.8 | 19.7 |
| | | | 80/67 | 59.2 | 49.0 | 68.8 | 2.8 | 21.1 |
| | | | 85/71 | 63.0 | 50.5 | 72.7 | 2.8 | 22.5 |
| | 17.5 | 2.7 | 75/63 | 56.6 | 47.7 | 65.9 | 2.7 | 20.9 |
| | | | 80/67 | 60.3 | 49.6 | 69.6 | 2.7 | 22.4 |
| | | | 85/71 | 64.2 | 51.2 | 73.5 | 2.7 | 24.0 |
| 70 | 9 | 0.8 | 75/63 | 50.9 | 45.7 | 62.3 | 3.3 | 15.3 |
| | | | 80/67 | 54.4 | 47.1 | 65.8 | 3.4 | 16.2 |
| | | | 85/71 | 57.8 | 48.7 | 69.3 | 3.4 | 17.2 |
| | 13 | 1.6 | 75/63 | 52.7 | 46.1 | 63.4 | 3.1 | 16.8 |
| | | | 80/67 | 56.2 | 47.8 | 66.9 | 3.1 | 17.9 |
| | | | 85/71 | 59.7 | 49.7 | 70.5 | 3.1 | 19.0 |
| | 17.5 | 2.7 | 75/63 | 53.7 | 46.5 | 64.0 | 3.0 | 17.7 |
| | | | 80/67 | 57.3 | 48.2 | 67.6 | 3.0 | 19.0 |
| | | | 85/71 | 61.0 | 49.8 | 71.4 | 3.0 | 20.3 |
| 80 | 9 | 0.8 | 75/63 | 48.0 | 44.4 | 60.7 | 3.7 | 12.9 |
| | | | 80/67 | 51.2 | 46.2 | 64.0 | 3.7 | 13.7 |
| | | | 85/71 | 54.5 | 47.8 | 67.4 | 3.8 | 14.5 |
| | 13 | 1.5 | 75/63 | 49.6 | 45.1 | 61.6 | 3.5 | 14.1 |
| | | | 80/67 | 53.0 | 46.7 | 65.0 | 3.5 | 15.1 |
| | | | 85/71 | 56.4 | 48.5 | 68.5 | 3.5 | 16.0 |
| | 17.5 | 2.7 | 75/63 | 50.6 | 45.4 | 62.1 | 3.4 | 14.9 |
| | | | 80/67 | 54.0 | 47.3 | 65.6 | 3.4 | 16.0 |
| | | | 85/71 | 57.6 | 49.0 | 69.2 | 3.4 | 17.1 |
| 90 | 9 | 0.8 | 75/63 | 45.1 | 43.3 | 59.2 | 4.2 | 10.9 |
| | | | 80/67 | 48.2 | 45.1 | 62.3 | 4.2 | 11.5 |
| | | | 85/71 | 51.2 | 47.1 | 65.5 | 4.2 | 12.2 |
| | 13 | 1.5 | 75/63 | 46.6 | 43.9 | 59.9 | 3.9 | 11.8 |
| | | | 80/67 | 49.9 | 45.5 | 63.2 | 3.9 | 12.7 |
| | | | 85/71 | 53.2 | 47.3 | 66.6 | 3.9 | 13.5 |
| | 17.5 | 2.7 | 75/63 | 47.5 | 44.2 | 60.4 | 3.8 | 12.5 |
| | | | 80/67 | 50.8 | 46.1 | 63.8 | 3.8 | 13.4 |
| | | | 85/71 | 54.3 | 47.7 | 67.2 | 3.8 | 14.3 |
| 100 | 9 | 0.8 | 75/63 | 42.2 | 42.0 | 57.8 | 4.6 | 9.1 |
| | | | 80/67 | 45.2 | 43.8 | 60.9 | 4.7 | 9.7 |
| | | | 85/71 | 48.2 | 45.9 | 64.0 | 4.7 | 10.4 |
| | 13 | 1.5 | 75/63 | 43.5 | 42.6 | 58.4 | 4.4 | 9.9 |
| | | | 80/67 | 46.6 | 44.6 | 61.5 | 4.4 | 10.6 |
| | | | 85/71 | 49.7 | 46.6 | 64.8 | 4.4 | 11.3 |
| | 17.5 | 2.7 | 75/63 | 44.4 | 43.0 | 58.8 | 4.3 | 10.4 |
| | | | 80/67 | 47.6 | 44.9 | 62.0 | 4.3 | 11.2 |
| | | | 85/71 | 50.7 | 46.9 | 65.3 | 4.3 | 11.9 |
| 110 | 9 | 0.8 | 75/63 | 39.9 | 39.9 | 57.3 | 5.2 | 7.7 |
| | | | 80/67 | 42.4 | 42.4 | 59.8 | 5.2 | 8.2 |
| | | | 85/71 | 45.0 | 45.0 | 62.5 | 5.2 | 8.7 |
| | 13 | 1.5 | 75/63 | 40.8 | 40.8 | 57.4 | 4.9 | 8.3 |
| | | | 80/67 | 43.5 | 43.5 | 60.2 | 4.9 | 8.9 |
| | | | 85/71 | 46.5 | 45.6 | 63.2 | 4.9 | 9.5 |
| | 17.5 | 2.7 | 75/63 | 41.4 | 41.4 | 57.5 | 4.8 | 8.7 |
| | | | 80/67 | 44.2 | 44.0 | 60.4 | 4.8 | 9.3 |
| | | | 85/71 | 47.6 | 45.5 | 63.7 | 4.8 | 10.0 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM070 HZ Part Load Heating Performance Data - 2100 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 30 | 0.9 | 60 | 38.7 | 30.4 | 3.3 | 3.44 |
| | | 70 | 38.6 | 27.0 | 3.6 | 3.11 |
| | | 80 | 38.0 | 24.7 | 4.0 | 2.75 |
| | 1.7 | 60 | 40.9 | 30.0 | 3.3 | 3.62 |
| | | 70 | 39.9 | 27.6 | 3.7 | 3.2 |
| | | 80 | 39.2 | 26.4 | 4.1 | 2.83 |
| | 2.7 | 60 | 41.5 | 31.0 | 3.3 | 3.67 |
| | | 70 | 41.5 | 31.0 | 3.7 | 3.32 |
| | | 80 | 40.7 | 27.3 | 4.1 | 2.93 |
| 40 | 0.9 | 60 | 44.6 | 33.8 | 3.3 | 3.92 |
| | | 70 | 44.0 | 30.4 | 3.7 | 3.5 |
| | | 80 | 43.6 | 31.4 | 4.1 | 3.12 |
| | 1.7 | 60 | 46.4 | 35.7 | 3.3 | 4.07 |
| | | 70 | 45.1 | 35.1 | 3.7 | 3.57 |
| | | 80 | 45.0 | 32.6 | 4.1 | 3.21 |
| | 2.7 | 60 | 47.9 | 36.1 | 3.3 | 4.19 |
| | | 70 | 47.6 | 36.6 | 3.7 | 3.74 |
| | | 80 | 45.4 | 32.7 | 4.1 | 3.23 |
| 50 | 0.8 | 60 | 50.7 | 39.5 | 3.4 | 4.4 |
| | | 70 | 49.4 | 37.3 | 3.7 | 3.88 |
| | | 80 | 48.4 | 35.5 | 4.1 | 3.42 |
| | 1.6 | 60 | 52.9 | 41.9 | 3.4 | 4.58 |
| | | 70 | 51.8 | 39.3 | 3.7 | 4.05 |
| | | 80 | 50.6 | 37.4 | 4.2 | 3.57 |
| | 2.7 | 60 | 54.6 | 41.6 | 3.4 | 4.72 |
| | | 70 | 53.4 | 40.6 | 3.8 | 4.16 |
| | | 80 | 51.9 | 39.3 | 4.2 | 3.64 |
| 60 | 0.8 | 60 | 56.5 | 45.4 | 3.4 | 4.86 |
| | | 70 | 55.5 | 43.1 | 3.8 | 4.31 |
| | | 80 | 54.6 | 41.0 | 4.2 | 3.82 |
| | 1.6 | 60 | 59.5 | 48.2 | 3.4 | 5.1 |
| | | 70 | 58.3 | 45.9 | 3.8 | 4.5 |
| | | 80 | 57.3 | 45.0 | 4.2 | 3.98 |
| | 2.7 | 60 | 61.4 | 50.4 | 3.4 | 5.24 |
| | | 70 | 60.4 | 45.8 | 3.8 | 4.65 |
| | | 80 | 59.0 | 42.9 | 4.2 | 4.1 |
| 70 | 0.8 | 60 | 63.0 | 51.9 | 3.4 | 5.37 |
| | | 70 | 61.9 | 49.5 | 3.8 | 4.75 |
| | | 80 | 60.8 | 47.0 | 4.2 | 4.21 |
| | 1.6 | 60 | 66.5 | 55.5 | 3.5 | 5.65 |
| | | 70 | 65.2 | 52.6 | 3.8 | 4.98 |
| | | 80 | 64.0 | 49.8 | 4.3 | 4.4 |
| | 2.7 | 60 | 68.8 | 58.2 | 3.5 | 5.81 |
| | | 70 | 67.4 | 54.7 | 3.9 | 5.13 |
| | | 80 | 66.0 | 51.6 | 4.3 | 4.52 |
| 80 | 0.8 | 60 | 69.8 | 58.7 | 3.5 | 5.9 |
| | | 70 | 68.6 | 56.2 | 3.9 | 5.21 |
| | | 80 | 67.4 | 53.5 | 4.3 | 4.6 |
| | 1.5 | 60 | 74.0 | 62.8 | 3.5 | 6.21 |
| | | 70 | 72.4 | 59.9 | 3.9 | 5.46 |
| | | 80 | 71.0 | 56.9 | 4.3 | 4.81 |
| | 2.7 | 60 | 76.9 | 65.0 | 3.5 | 6.43 |
| | | 70 | 75.0 | 62.5 | 3.9 | 5.63 |
| | | 80 | 73.4 | 59.2 | 4.3 | 4.96 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM024 VT Full Load Cooling Performance Data - 800 CFM | | | | | | | | |
|---|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 3 | 0.6 | 75/63 | 26.9 | 20.9 | 29.9 | 1.1 | 25.3 |
| | | | 80/67 | 28.8 | 21.2 | 31.9 | 1.1 | 26.5 |
| | | | 85/71 | 30.5 | 21.8 | 33.7 | 1.1 | 27.6 |
| | 4.5 | 1.2 | 75/63 | 27.8 | 21.1 | 30.6 | 1.0 | 28.2 |
| | | | 80/67 | 29.6 | 21.6 | 32.4 | 1.0 | 29.5 |
| | | | 85/71 | 31.4 | 22.2 | 34.4 | 1.0 | 30.9 |
| | 6 | 2.0 | 75/63 | 28.1 | 21.3 | 30.8 | 0.9 | 29.7 |
| | | | 80/67 | 30.1 | 21.7 | 32.8 | 1.0 | 31.3 |
| | | | 85/71 | 31.9 | 22.4 | 34.7 | 1.0 | 32.8 |
| 60 | 3 | 0.6 | 75/63 | 25.9 | 20.2 | 29.3 | 1.2 | 21.9 |
| | | | 80/67 | 27.5 | 20.8 | 31.0 | 1.2 | 22.9 |
| | | | 85/71 | 29.3 | 21.4 | 32.9 | 1.2 | 24.0 |
| | 4.5 | 1.2 | 75/63 | 26.6 | 20.5 | 29.7 | 1.1 | 24.0 |
| | | | 80/67 | 28.4 | 21.2 | 31.6 | 1.1 | 25.3 |
| | | | 85/71 | 30.2 | 21.7 | 33.5 | 1.1 | 26.5 |
| | 6 | 2.0 | 75/63 | 26.8 | 20.9 | 29.9 | 1.1 | 25.0 |
| | | | 80/67 | 28.8 | 21.3 | 31.9 | 1.1 | 26.5 |
| | | | 85/71 | 30.6 | 21.9 | 33.8 | 1.1 | 27.9 |
| 70 | 3 | 0.6 | 75/63 | 24.9 | 19.8 | 28.7 | 1.3 | 18.9 |
| | | | 80/67 | 26.5 | 20.5 | 30.5 | 1.3 | 19.8 |
| | | | 85/71 | 28.2 | 21.0 | 32.2 | 1.4 | 20.7 |
| | 4.5 | 1.1 | 75/63 | 25.6 | 20.1 | 29.2 | 1.2 | 20.6 |
| | | | 80/67 | 27.3 | 20.7 | 31.0 | 1.3 | 21.7 |
| | | | 85/71 | 28.9 | 21.6 | 32.7 | 1.3 | 22.7 |
| | 6 | 1.9 | 75/63 | 26.0 | 20.2 | 29.5 | 1.2 | 21.4 |
| | | | 80/67 | 27.6 | 21.1 | 31.2 | 1.2 | 22.5 |
| | | | 85/71 | 29.6 | 21.4 | 33.2 | 1.2 | 23.9 |
| 80 | 3 | 0.5 | 75/63 | 23.6 | 19.5 | 27.9 | 1.5 | 16.2 |
| | | | 80/67 | 25.0 | 20.4 | 29.4 | 1.5 | 17.0 |
| | | | 85/71 | 27.4 | 21.0 | 31.6 | 1.5 | 18.2 |
| | 4.5 | 1.1 | 75/63 | 24.4 | 19.6 | 28.4 | 1.4 | 17.7 |
| | | | 80/67 | 25.9 | 20.5 | 30.0 | 1.4 | 18.6 |
| | | | 85/71 | 27.4 | 21.4 | 31.7 | 1.4 | 19.5 |
| | 6 | 1.9 | 75/63 | 24.6 | 19.7 | 28.6 | 1.3 | 18.3 |
| | | | 80/67 | 26.2 | 20.6 | 30.2 | 1.4 | 19.3 |
| | | | 85/71 | 28.1 | 20.9 | 32.2 | 1.4 | 20.5 |
| 90 | 3 | 0.5 | 75/63 | 22.2 | 19.0 | 27.1 | 1.6 | 13.7 |
| | | | 80/67 | 23.6 | 19.9 | 28.6 | 1.6 | 14.3 |
| | | | 85/71 | 24.5 | 20.6 | 29.9 | 1.7 | 14.7 |
| | 4.5 | 1.1 | 75/63 | 22.7 | 19.4 | 27.4 | 1.5 | 14.7 |
| | | | 80/67 | 24.4 | 19.9 | 29.1 | 1.6 | 15.6 |
| | | | 85/71 | 26.5 | 19.6 | 31.1 | 1.6 | 16.7 |
| | 6 | 1.8 | 75/63 | 23.2 | 19.2 | 27.7 | 1.5 | 15.3 |
| | | | 80/67 | 24.9 | 19.8 | 29.4 | 1.5 | 16.3 |
| | | | 85/71 | 26.4 | 20.7 | 31.1 | 1.5 | 17.2 |
| 100 | 3 | 0.5 | 75/63 | 21.0 | 18.5 | 26.4 | 1.8 | 11.6 |
| | | | 80/67 | 21.8 | 19.4 | 27.6 | 1.8 | 11.9 |
| | | | 85/71 | 22.2 | 19.8 | 28.4 | 1.8 | 12.1 |
| | 4.5 | 1.1 | 75/63 | 21.4 | 18.9 | 26.6 | 1.7 | 12.4 |
| | | | 80/67 | 23.5 | 18.6 | 28.6 | 1.7 | 13.4 |
| | | | 85/71 | 25.7 | 17.3 | 30.5 | 1.8 | 14.5 |
| | 6 | 1.8 | 75/63 | 21.8 | 18.8 | 26.9 | 1.7 | 12.9 |
| | | | 80/67 | 24.0 | 18.0 | 28.9 | 1.7 | 14.0 |
| | | | 85/71 | 24.2 | 20.5 | 29.7 | 1.7 | 14.2 |
| 110 | 3 | 0.5 | 75/63 | 19.3 | 18.1 | 25.6 | 2.0 | 9.5 |
| | | | 80/67 | 20.1 | 18.8 | 26.7 | 2.0 | 9.8 |
| | | | 85/71 | 21.3 | 19.5 | 28.2 | 2.1 | 10.3 |
| | 4.5 | 1.0 | 75/63 | 19.8 | 18.3 | 25.8 | 1.9 | 10.2 |
| | | | 80/67 | 22.8 | 15.7 | 28.2 | 2.0 | 11.6 |
| | | | 85/71 | 24.4 | 15.6 | 29.7 | 2.0 | 12.3 |
| | 6 | 1.7 | 75/63 | 21.1 | 16.5 | 26.6 | 1.9 | 10.9 |
| | | | 80/67 | 21.0 | 19.1 | 27.2 | 1.9 | 11.1 |
| | | | 85/71 | 21.9 | 19.7 | 28.4 | 1.9 | 11.5 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM024 VT Full Load Heating Performance Data - 800 CFM | | | | | | |
|---|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 20 | 0.7 | 60 | 15.5 | 12.1 | 1.1 | 3.97 |
| | | 70 | 15.3 | 11.6 | 1.3 | 3.48 |
| | | 80 | 14.9 | 10.7 | 1.4 | 3.06 |
| | 1.4 | 60 | 16.4 | 13.0 | 1.2 | 4.12 |
| | | 70 | 16.0 | 12.1 | 1.3 | 3.59 |
| | | 80 | 15.5 | 11.2 | 1.4 | 3.14 |
| | 2.4 | 60 | 16.8 | 13.4 | 1.2 | 4.17 |
| | | 70 | 16.3 | 12.5 | 1.3 | 3.64 |
| | | 80 | 15.8 | 11.5 | 1.5 | 3.19 |
| 30 | 0.7 | 60 | 17.4 | 13.8 | 1.2 | 4.31 |
| | | 70 | 17.4 | 13.2 | 1.3 | 3.85 |
| | | 80 | 17.1 | 12.6 | 1.5 | 3.39 |
| | 1.4 | 60 | 18.9 | 15.3 | 1.2 | 4.55 |
| | | 70 | 18.4 | 14.4 | 1.4 | 3.98 |
| | | 80 | 18.0 | 13.4 | 1.5 | 3.52 |
| | 2.3 | 60 | 19.4 | 15.8 | 1.2 | 4.61 |
| | | 70 | 18.9 | 14.8 | 1.4 | 4.04 |
| | | 80 | 18.5 | 13.8 | 1.5 | 3.57 |
| 40 | 0.6 | 60 | 20.0 | 16.4 | 1.2 | 4.73 |
| | | 70 | 19.6 | 15.4 | 1.4 | 4.17 |
| | | 80 | 19.0 | 14.5 | 1.5 | 3.66 |
| | 1.3 | 60 | 21.4 | 17.6 | 1.3 | 4.94 |
| | | 70 | 21.1 | 17.0 | 1.4 | 4.38 |
| | | 80 | 20.6 | 15.9 | 1.6 | 3.86 |
| | 2.2 | 60 | 22.3 | 18.5 | 1.3 | 5.05 |
| | | 70 | 21.7 | 17.5 | 1.4 | 4.44 |
| | | 80 | 21.2 | 16.4 | 1.6 | 3.91 |
| 50 | 0.6 | 60 | 23.3 | 19.4 | 1.3 | 5.23 |
| | | 70 | 22.8 | 18.4 | 1.4 | 4.62 |
| | | 80 | 22.3 | 17.4 | 1.6 | 4.08 |
| | 1.3 | 60 | 24.9 | 20.9 | 1.3 | 5.44 |
| | | 70 | 24.7 | 19.8 | 1.5 | 4.87 |
| | | 80 | 23.8 | 18.7 | 1.6 | 4.26 |
| | 2.1 | 60 | 26.0 | 22.0 | 1.4 | 5.55 |
| | | 70 | 25.4 | 20.9 | 1.5 | 4.93 |
| | | 80 | 24.8 | 19.7 | 1.7 | 4.38 |
| 60 | 0.6 | 60 | 26.6 | 22.4 | 1.4 | 5.57 |
| | | 70 | 26.0 | 21.3 | 1.5 | 4.95 |
| | | 80 | 25.5 | 20.3 | 1.7 | 4.40 |
| | 1.2 | 60 | 27.9 | 23.8 | 1.4 | 5.73 |
| | | 70 | 27.2 | 22.4 | 1.6 | 5.10 |
| | | 80 | 27.5 | 21.4 | 1.7 | 4.64 |
| | 2.0 | 60 | 29.8 | 25.3 | 1.5 | 5.97 |
| | | 70 | 28.8 | 23.9 | 1.6 | 5.27 |
| | | 80 | 28.3 | 23.0 | 1.8 | 4.70 |
| 70 | 0.6 | 60 | 29.8 | 25.4 | 1.5 | 5.99 |
| | | 70 | 29.2 | 24.3 | 1.6 | 5.34 |
| | | 80 | 28.5 | 23.2 | 1.8 | 4.74 |
| | 1.2 | 60 | 31.6 | 26.9 | 1.5 | 6.20 |
| | | 70 | 30.8 | 26.0 | 1.6 | 5.51 |
| | | 80 | 29.9 | 24.6 | 1.8 | 4.88 |
| | 2.0 | 60 | 32.8 | 28.9 | 1.5 | 6.30 |
| | | 70 | 31.9 | 26.9 | 1.7 | 5.63 |
| | | 80 | 31.3 | 25.8 | 1.8 | 5.02 |
| 80 | 0.6 | 60 | 33.2 | 28.6 | 1.5 | 6.39 |
| | | 70 | 32.4 | 27.4 | 1.7 | 5.70 |
| | | 80 | 31.7 | 26.2 | 1.8 | 5.08 |
| | 1.2 | 60 | 35.2 | 30.7 | 1.6 | 6.60 |
| | | 70 | 34.3 | 29.2 | 1.7 | 5.89 |
| | | 80 | 33.5 | 27.6 | 1.9 | 5.25 |
| | 1.9 | 60 | 36.3 | 31.2 | 1.6 | 6.70 |
| | | 70 | 35.2 | 29.9 | 1.7 | 5.97 |
| | | 80 | 35.3 | 29.0 | 1.9 | 5.41 |

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Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM024 VT Part Load Cooling Performance Data - 700 CFM | | | | | | | | |
|---|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 3 | 0.6 | 75/63 | 20.7 | 16.9 | 22.3 | 0.6 | 32.2 |
| | | | 80/67 | 22.1 | 17.4 | 23.8 | 0.6 | 34.9 |
| | | | 85/71 | 23.5 | 18.0 | 25.1 | 0.6 | 37.5 |
| | 4.5 | 1.2 | 75/63 | 21.3 | 17.0 | 22.9 | 0.6 | 35.4 |
| | | | 80/67 | 22.7 | 17.6 | 24.2 | 0.6 | 38.2 |
| | | | 85/71 | 24.1 | 18.2 | 25.6 | 0.6 | 41.3 |
| | 6 | 2.1 | 75/63 | 21.5 | 17.2 | 23.0 | 0.6 | 36.6 |
| | | | 80/67 | 22.9 | 17.8 | 24.4 | 0.6 | 39.7 |
| | | | 85/71 | 24.6 | 18.1 | 26.0 | 0.6 | 43.5 |
| 60 | 3 | 0.6 | 75/63 | 19.7 | 16.5 | 21.6 | 0.7 | 27.0 |
| | | | 80/67 | 21.0 | 17.1 | 22.9 | 0.7 | 29.1 |
| | | | 85/71 | 22.3 | 17.7 | 24.2 | 0.7 | 31.3 |
| | 4.5 | 1.2 | 75/63 | 20.2 | 16.7 | 22.0 | 0.7 | 29.4 |
| | | | 80/67 | 21.5 | 17.2 | 23.3 | 0.7 | 31.8 |
| | | | 85/71 | 23.0 | 17.7 | 24.8 | 0.7 | 34.7 |
| | 6 | 2.0 | 75/63 | 20.4 | 16.8 | 22.2 | 0.7 | 30.5 |
| | | | 80/67 | 21.7 | 17.5 | 23.5 | 0.7 | 33.0 |
| | | | 85/71 | 23.3 | 18.0 | 25.0 | 0.6 | 36.2 |
| 70 | 3 | 0.6 | 75/63 | 19.1 | 16.2 | 21.4 | 0.8 | 22.6 |
| | | | 80/67 | 20.3 | 16.9 | 22.7 | 0.8 | 24.3 |
| | | | 85/71 | 20.2 | 17.6 | 23.0 | 0.8 | 24.3 |
| | 4.5 | 1.1 | 75/63 | 19.5 | 16.5 | 21.7 | 0.8 | 24.5 |
| | | | 80/67 | 21.0 | 17.1 | 23.1 | 0.8 | 26.7 |
| | | | 85/71 | 21.9 | 18.2 | 24.2 | 0.8 | 28.2 |
| | 6 | 1.9 | 75/63 | 19.7 | 16.7 | 21.8 | 0.8 | 25.3 |
| | | | 80/67 | 21.2 | 17.1 | 23.3 | 0.8 | 27.8 |
| | | | 85/71 | 22.5 | 17.9 | 24.6 | 0.8 | 30.0 |
| 80 | 3 | 0.5 | 75/63 | 17.9 | 16.0 | 20.6 | 1.0 | 18.5 |
| | | | 80/67 | 18.4 | 16.7 | 21.3 | 1.0 | 19.1 |
| | | | 85/71 | 19.2 | 17.3 | 22.3 | 1.0 | 20.1 |
| | 4.5 | 1.1 | 75/63 | 18.5 | 16.0 | 21.0 | 0.9 | 20.2 |
| | | | 80/67 | 19.4 | 17.1 | 22.0 | 0.9 | 21.3 |
| | | | 85/71 | 19.8 | 17.5 | 22.7 | 0.9 | 22.0 |
| | 6 | 1.9 | 75/63 | 18.7 | 16.1 | 21.2 | 0.9 | 20.9 |
| | | | 80/67 | 20.0 | 16.6 | 22.5 | 0.9 | 22.7 |
| | | | 85/71 | 20.0 | 17.5 | 22.9 | 0.9 | 22.8 |
| 90 | 3 | 0.5 | 75/63 | 16.2 | 15.6 | 19.6 | 1.1 | 14.4 |
| | | | 80/67 | 17.1 | 16.2 | 20.6 | 1.1 | 15.2 |
| | | | 85/71 | 18.1 | 16.9 | 21.7 | 1.1 | 16.2 |
| | 4.5 | 1.1 | 75/63 | 16.6 | 15.7 | 19.8 | 1.1 | 15.4 |
| | | | 80/67 | 17.6 | 16.4 | 20.9 | 1.1 | 16.5 |
| | | | 85/71 | 18.4 | 17.0 | 21.9 | 1.1 | 17.4 |
| | 6 | 1.8 | 75/63 | 17.3 | 15.5 | 20.2 | 1.1 | 16.4 |
| | | | 80/67 | 19.3 | 14.1 | 21.9 | 1.0 | 18.7 |
| | | | 85/71 | 20.9 | 13.9 | 23.3 | 1.0 | 20.4 |
| 100 | 3 | 0.5 | 75/63 | 15.9 | 14.3 | 19.4 | 1.3 | 12.4 |
| | | | 80/67 | 16.3 | 15.9 | 20.1 | 1.3 | 12.6 |
| | | | 85/71 | 17.2 | 16.6 | 21.2 | 1.3 | 13.4 |
| | 4.5 | 1.1 | 75/63 | 15.6 | 15.3 | 19.2 | 1.2 | 12.6 |
| | | | 80/67 | 16.6 | 16.1 | 20.3 | 1.2 | 13.5 |
| | | | 85/71 | 19.1 | 14.2 | 22.2 | 1.2 | 15.8 |
| | 6 | 1.8 | 75/63 | 15.8 | 15.4 | 19.4 | 1.2 | 13.0 |
| | | | 80/67 | 16.7 | 16.1 | 20.4 | 1.2 | 13.9 |
| | | | 85/71 | 17.7 | 16.8 | 21.5 | 1.2 | 14.9 |
| 110 | 3 | 0.5 | 75/63 | 14.5 | 14.5 | 18.7 | 1.5 | 9.9 |
| | | | 80/67 | 15.4 | 15.2 | 19.7 | 1.5 | 10.5 |
| | | | 85/71 | 17.0 | 14.7 | 21.1 | 1.5 | 11.7 |
| | 4.5 | 1.0 | 75/63 | 14.7 | 14.6 | 18.8 | 1.4 | 10.4 |
| | | | 80/67 | 16.2 | 14.5 | 20.2 | 1.4 | 11.6 |
| | | | 85/71 | 16.6 | 16.4 | 20.9 | 1.4 | 11.9 |
| | 6 | 1.7 | 75/63 | 14.9 | 14.5 | 18.9 | 1.4 | 10.7 |
| | | | 80/67 | 15.8 | 15.8 | 19.9 | 1.4 | 11.4 |
| | | | 85/71 | 17.8 | 14.5 | 21.5 | 1.4 | 13.0 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM024 VT Part Load Heating Performance Data - 700 CFM | | | | | | |
|---|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 20 | 0.7 | 60 | 11.1 | 8.7 | 0.9 | 3.80 |
| | | 70 | 10.7 | 7.9 | 1.0 | 3.19 |
| | | 80 | 10.2 | 7.2 | 1.1 | 2.69 |
| | 1.4 | 60 | 11.6 | 9.1 | 0.9 | 3.92 |
| | | 70 | 11.1 | 8.3 | 1.0 | 3.29 |
| | | 80 | 10.6 | 7.5 | 1.1 | 2.77 |
| | 2.4 | 60 | 11.8 | 9.3 | 0.9 | 3.96 |
| | | 70 | 11.3 | 8.5 | 1.0 | 3.33 |
| | | 80 | 10.8 | 7.7 | 1.1 | 2.81 |
| 30 | 0.6 | 60 | 19.5 | 16.7 | 0.9 | 6.20 |
| | | 70 | 19.0 | 15.6 | 1.1 | 5.28 |
| | | 80 | 18.9 | 15.2 | 1.2 | 4.63 |
| | 1.2 | 60 | 21.0 | 18.4 | 0.9 | 6.61 |
| | | 70 | 20.4 | 17.3 | 1.1 | 5.62 |
| | | 80 | 19.8 | 16.3 | 1.2 | 4.81 |
| | 2.0 | 60 | 21.6 | 18.9 | 0.9 | 6.74 |
| | | 70 | 20.9 | 17.8 | 1.1 | 5.73 |
| | | 80 | 20.3 | 16.8 | 1.2 | 4.90 |
| 40 | 0.6 | 60 | 15.2 | 12.7 | 0.9 | 4.95 |
| | | 70 | 14.9 | 11.9 | 1.0 | 4.24 |
| | | 80 | 14.4 | 11.1 | 1.2 | 3.64 |
| | 1.3 | 60 | 16.0 | 13.4 | 0.9 | 5.16 |
| | | 70 | 15.5 | 12.5 | 1.0 | 4.40 |
| | | 80 | 15.0 | 11.7 | 1.2 | 3.77 |
| | 2.2 | 60 | 16.4 | 13.8 | 0.9 | 5.25 |
| | | 70 | 15.9 | 12.9 | 1.0 | 4.47 |
| | | 80 | 15.4 | 12.0 | 1.2 | 3.83 |
| 50 | 0.6 | 60 | 17.7 | 16.2 | 0.9 | 5.72 |
| | | 70 | 16.8 | 13.9 | 1.0 | 4.79 |
| | | 80 | 16.7 | 13.3 | 1.2 | 4.18 |
| | 1.3 | 60 | 18.5 | 15.9 | 0.9 | 5.94 |
| | | 70 | 17.9 | 15.0 | 1.0 | 5.06 |
| | | 80 | 17.5 | 14.0 | 1.2 | 4.35 |
| | 2.1 | 60 | 19.0 | 16.4 | 0.9 | 6.05 |
| | | 70 | 18.4 | 15.4 | 1.0 | 5.15 |
| | | 80 | 17.9 | 14.4 | 1.2 | 4.42 |
| 60 | 0.6 | 60 | 19.6 | 17.0 | 0.9 | 6.24 |
| | | 70 | 19.0 | 16.0 | 1.0 | 5.31 |
| | | 80 | 18.4 | 14.9 | 1.2 | 4.53 |
| | 1.2 | 60 | 21.1 | 18.5 | 0.9 | 6.67 |
| | | 70 | 20.5 | 17.4 | 1.1 | 5.68 |
| | | 80 | 19.9 | 16.4 | 1.2 | 4.86 |
| | 2.0 | 60 | 21.7 | 19.1 | 0.9 | 6.80 |
| | | 70 | 21.0 | 18.0 | 1.1 | 5.78 |
| | | 80 | 20.4 | 16.9 | 1.2 | 4.95 |
| 70 | 0.6 | 60 | 22.2 | 19.4 | 0.9 | 7.00 |
| | | 70 | 21.8 | 19.5 | 1.1 | 6.03 |
| | | 80 | 20.9 | 17.4 | 1.2 | 5.09 |
| | 1.2 | 60 | 23.4 | 20.9 | 0.9 | 7.35 |
| | | 70 | 23.0 | 20.0 | 1.1 | 6.33 |
| | | 80 | 22.4 | 18.9 | 1.2 | 5.43 |
| | 2.0 | 60 | 24.4 | 21.8 | 0.9 | 7.63 |
| | | 70 | 23.6 | 20.6 | 1.1 | 6.48 |
| | | 80 | 23.0 | 19.4 | 1.2 | 5.54 |
| 80 | 0.6 | 60 | 24.7 | 22.2 | 0.9 | 7.78 |
| | | 70 | 24.0 | 21.1 | 1.1 | 6.62 |
| | | 80 | 23.2 | 20.7 | 1.2 | 5.63 |
| | 1.2 | 60 | 26.2 | 23.8 | 0.9 | 8.24 |
| | | 70 | 25.2 | 22.4 | 1.1 | 6.92 |
| | | 80 | 24.8 | 21.3 | 1.2 | 5.98 |
| | 1.9 | 60 | 27.2 | 24.6 | 0.9 | 8.53 |
| | | 70 | 26.4 | 23.3 | 1.1 | 7.22 |
| | | 80 | 25.6 | 22.0 | 1.2 | 6.12 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM036 VT Full Load Cooling Performance Data - 1200 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 4.5 | 1.2 | 75/63 | 41.1 | 31.4 | 45.4 | 1.5 | 27.3 |
| | | | 80/67 | 43.6 | 32.3 | 48.1 | 1.5 | 28.3 |
| | | | 85/71 | 46.5 | 33.1 | 51.2 | 1.6 | 29.3 |
| | 6.75 | 2.4 | 75/63 | 42.2 | 31.9 | 46.3 | 1.4 | 29.5 |
| | | | 80/67 | 45.0 | 32.9 | 49.2 | 1.5 | 30.7 |
| | | | 85/71 | 47.8 | 33.9 | 52.2 | 1.5 | 31.8 |
| | 9 | 4.1 | 75/63 | 42.7 | 32.2 | 46.7 | 1.4 | 30.5 |
| | | | 80/67 | 45.6 | 33.1 | 49.7 | 1.4 | 31.7 |
| | | | 85/71 | 48.8 | 33.8 | 53.1 | 1.5 | 32.9 |
| 60 | 4.5 | 1.1 | 75/63 | 39.4 | 30.7 | 44.2 | 1.6 | 23.9 |
| | | | 80/67 | 41.9 | 31.6 | 46.9 | 1.7 | 24.9 |
| | | | 85/71 | 44.6 | 32.3 | 49.7 | 1.7 | 25.9 |
| | 6.75 | 2.4 | 75/63 | 40.4 | 31.1 | 44.9 | 1.6 | 25.9 |
| | | | 80/67 | 43.1 | 32.0 | 47.7 | 1.6 | 27.1 |
| | | | 85/71 | 45.8 | 33.2 | 50.6 | 1.6 | 28.2 |
| | 9 | 4.0 | 75/63 | 40.9 | 31.5 | 45.3 | 1.5 | 26.8 |
| | | | 80/67 | 43.7 | 32.3 | 48.2 | 1.6 | 28.0 |
| | | | 85/71 | 46.7 | 33.2 | 51.4 | 1.6 | 29.3 |
| 70 | 4.5 | 1.1 | 75/63 | 37.6 | 29.8 | 43.0 | 1.8 | 20.4 |
| | | | 80/67 | 40.1 | 30.7 | 45.6 | 1.9 | 21.3 |
| | | | 85/71 | 42.6 | 31.7 | 48.3 | 1.9 | 22.2 |
| | 6.75 | 2.3 | 75/63 | 38.6 | 30.2 | 43.7 | 1.7 | 22.1 |
| | | | 80/67 | 41.1 | 31.2 | 46.4 | 1.8 | 23.2 |
| | | | 85/71 | 43.8 | 32.1 | 49.2 | 1.8 | 24.3 |
| | 9 | 3.8 | 75/63 | 39.1 | 30.5 | 44.0 | 1.7 | 22.9 |
| | | | 80/67 | 41.7 | 31.5 | 46.8 | 1.7 | 24.1 |
| | | | 85/71 | 44.5 | 32.3 | 49.7 | 1.8 | 25.2 |
| 80 | 4.5 | 1.1 | 75/63 | 35.8 | 29.1 | 41.9 | 2.0 | 17.5 |
| | | | 80/67 | 38.2 | 30.0 | 44.4 | 2.1 | 18.4 |
| | | | 85/71 | 40.7 | 30.9 | 47.0 | 2.1 | 19.3 |
| | 6.75 | 2.2 | 75/63 | 36.6 | 29.7 | 42.4 | 1.9 | 18.9 |
| | | | 80/67 | 39.2 | 30.5 | 45.0 | 2.0 | 19.9 |
| | | | 85/71 | 41.7 | 31.5 | 47.7 | 2.0 | 20.9 |
| | 9 | 3.7 | 75/63 | 37.3 | 29.7 | 42.9 | 1.9 | 19.7 |
| | | | 80/67 | 39.8 | 30.7 | 45.5 | 1.9 | 20.8 |
| | | | 85/71 | 42.2 | 31.9 | 48.1 | 1.9 | 21.8 |
| 90 | 4.5 | 1.0 | 75/63 | 34.5 | 28.6 | 41.3 | 2.3 | 15.2 |
| | | | 80/67 | 36.9 | 29.5 | 43.8 | 2.3 | 16.1 |
| | | | 85/71 | 39.3 | 30.6 | 46.3 | 2.3 | 17.0 |
| | 6.75 | 2.2 | 75/63 | 35.4 | 28.9 | 41.8 | 2.2 | 16.5 |
| | | | 80/67 | 37.8 | 30.0 | 44.4 | 2.2 | 17.4 |
| | | | 85/71 | 40.4 | 30.9 | 47.0 | 2.2 | 18.5 |
| | 9 | 3.6 | 75/63 | 35.9 | 29.1 | 42.1 | 2.1 | 17.0 |
| | | | 80/67 | 38.3 | 30.2 | 44.7 | 2.1 | 18.1 |
| | | | 85/71 | 41.0 | 31.0 | 47.4 | 2.1 | 19.2 |
| 100 | 4.5 | 1.0 | 75/63 | 32.7 | 28.0 | 40.4 | 2.5 | 13.0 |
| | | | 80/67 | 34.9 | 29.0 | 42.7 | 2.5 | 13.7 |
| | | | 85/71 | 37.3 | 29.9 | 45.2 | 2.6 | 14.5 |
| | 6.75 | 2.1 | 75/63 | 33.6 | 28.2 | 40.9 | 2.4 | 14.0 |
| | | | 80/67 | 36.0 | 29.3 | 43.3 | 2.4 | 14.9 |
| | | | 85/71 | 38.5 | 30.1 | 45.9 | 2.4 | 15.8 |
| | 9 | 3.5 | 75/63 | 34.0 | 28.4 | 41.1 | 2.4 | 14.4 |
| | | | 80/67 | 36.5 | 29.3 | 43.6 | 2.4 | 15.4 |
| | | | 85/71 | 38.9 | 30.5 | 46.2 | 2.4 | 16.4 |
| 110 | 4.5 | 1.0 | 75/63 | 31.0 | 27.1 | 39.6 | 2.8 | 11.0 |
| | | | 80/67 | 33.1 | 28.2 | 41.8 | 2.8 | 11.7 |
| | | | 85/71 | 35.2 | 29.2 | 44.1 | 2.9 | 12.3 |
| | 6.75 | 2.1 | 75/63 | 31.7 | 27.5 | 39.9 | 2.7 | 11.8 |
| | | | 80/67 | 33.9 | 28.5 | 42.2 | 2.7 | 12.6 |
| | | | 85/71 | 36.3 | 29.5 | 44.7 | 2.7 | 13.4 |
| | 9 | 3.4 | 75/63 | 32.1 | 27.7 | 40.1 | 2.6 | 12.2 |
| | | | 80/67 | 34.4 | 28.7 | 42.5 | 2.6 | 13.0 |
| | | | 85/71 | 36.8 | 29.8 | 45.0 | 2.7 | 13.9 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM036 VT Full Load Heating Performance Data - 1200 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 20 | 1.4 | 60 | 23.2 | 18.2 | 1.6 | 4.14 |
| | | 70 | 22.9 | 17.2 | 1.9 | 3.62 |
| | | 80 | 22.6 | 16.2 | 2.1 | 3.18 |
| | 2.9 | 60 | 24.3 | 19.2 | 1.7 | 4.26 |
| | | 70 | 23.9 | 18.2 | 1.9 | 3.72 |
| | | 80 | 23.6 | 17.1 | 2.1 | 3.27 |
| | 4.8 | 60 | 24.9 | 19.8 | 1.7 | 4.30 |
| | | 70 | 24.5 | 18.7 | 1.9 | 3.76 |
| | | 80 | 24.1 | 17.5 | 2.1 | 3.30 |
| 30 | 1.4 | 60 | 27.0 | 21.8 | 1.7 | 4.62 |
| | | 70 | 26.6 | 20.6 | 1.9 | 4.05 |
| | | 80 | 26.3 | 19.5 | 2.2 | 3.56 |
| | 2.8 | 60 | 28.4 | 23.1 | 1.7 | 4.76 |
| | | 70 | 27.9 | 21.8 | 2.0 | 4.16 |
| | | 80 | 27.5 | 20.6 | 2.2 | 3.67 |
| | 4.6 | 60 | 29.2 | 23.8 | 1.8 | 4.82 |
| | | 70 | 28.6 | 22.5 | 2.0 | 4.21 |
| | | 80 | 28.2 | 21.2 | 2.2 | 3.71 |
| 40 | 1.3 | 60 | 31.4 | 24.9 | 1.8 | 5.15 |
| | | 70 | 30.5 | 24.3 | 2.0 | 4.45 |
| | | 80 | 30.0 | 23.0 | 2.2 | 3.92 |
| | 2.6 | 60 | 32.9 | 27.2 | 1.8 | 5.26 |
| | | 70 | 32.1 | 25.8 | 2.0 | 4.60 |
| | | 80 | 31.5 | 24.4 | 2.3 | 4.04 |
| | 4.4 | 60 | 33.8 | 28.2 | 1.9 | 5.32 |
| | | 70 | 33.1 | 26.7 | 2.1 | 4.66 |
| | | 80 | 32.4 | 25.2 | 2.3 | 4.09 |
| 50 | 1.3 | 60 | 33.9 | 28.2 | 1.9 | 5.29 |
| | | 70 | 33.1 | 27.5 | 2.1 | 4.61 |
| | | 80 | 34.1 | 26.1 | 2.4 | 4.22 |
| | 2.6 | 60 | 37.4 | 31.4 | 2.0 | 5.60 |
| | | 70 | 36.6 | 29.8 | 2.2 | 4.94 |
| | | 80 | 35.9 | 28.3 | 2.4 | 4.36 |
| | 4.2 | 60 | 38.6 | 32.5 | 2.0 | 5.67 |
| | | 70 | 37.7 | 30.9 | 2.2 | 5.00 |
| | | 80 | 36.9 | 29.3 | 2.4 | 4.42 |
| 60 | 1.2 | 60 | 38.6 | 31.2 | 2.0 | 5.65 |
| | | 70 | 37.5 | 30.5 | 2.2 | 4.92 |
| | | 80 | 37.2 | 30.7 | 2.5 | 4.37 |
| | 2.5 | 60 | 41.4 | 33.9 | 2.1 | 5.85 |
| | | 70 | 41.1 | 34.2 | 2.3 | 5.21 |
| | | 80 | 40.3 | 32.2 | 2.6 | 4.62 |
| | 4.1 | 60 | 43.4 | 37.1 | 2.1 | 5.97 |
| | | 70 | 42.3 | 35.1 | 2.3 | 5.28 |
| | | 80 | 41.3 | 33.3 | 2.6 | 4.67 |
| 70 | 1.2 | 60 | 43.3 | 36.8 | 2.1 | 6.02 |
| | | 70 | 42.4 | 35.0 | 2.3 | 5.34 |
| | | 80 | 41.4 | 33.6 | 2.6 | 4.71 |
| | 2.4 | 60 | 45.4 | 38.2 | 2.2 | 6.18 |
| | | 70 | 46.2 | 38.7 | 2.4 | 5.62 |
| | | 80 | 45.3 | 36.6 | 2.7 | 4.99 |
| | 4.0 | 60 | 48.8 | 42.3 | 2.2 | 6.38 |
| | | 70 | 47.6 | 40.1 | 2.5 | 5.68 |
| | | 80 | 46.4 | 38.1 | 2.7 | 5.03 |
| 80 | 1.1 | 60 | 48.4 | 41.6 | 2.2 | 6.40 |
| | | 70 | 47.3 | 39.8 | 2.4 | 5.71 |
| | | 80 | 46.3 | 37.9 | 2.7 | 5.07 |
| | 2.3 | 60 | 50.8 | 44.2 | 2.3 | 6.54 |
| | | 70 | 50.5 | 43.0 | 2.5 | 5.91 |
| | | 80 | 50.2 | 41.1 | 2.8 | 5.31 |
| | 3.8 | 60 | 53.9 | 46.8 | 2.4 | 6.70 |
| | | 70 | 53.1 | 45.2 | 2.6 | 6.03 |
| | | 80 | 51.8 | 43.0 | 2.8 | 5.38 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM036 VT Part Load Cooling Performance Data - 1050 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 4.5 | 1.2 | 75/63 | 30.8 | 25.3 | 32.8 | 0.8 | 37.9 |
| | | | 80/67 | 32.9 | 26.2 | 34.9 | 0.8 | 40.9 |
| | | | 85/71 | 35.1 | 27.0 | 37.1 | 0.8 | 44.3 |
| | 6.75 | 2.5 | 75/63 | 31.4 | 25.6 | 33.4 | 0.8 | 40.3 |
| | | | 80/67 | 33.7 | 26.4 | 35.6 | 0.8 | 43.8 |
| | | | 85/71 | 35.9 | 27.3 | 37.8 | 0.8 | 47.7 |
| | 9 | 4.1 | 75/63 | 31.8 | 25.8 | 33.7 | 0.8 | 41.0 |
| | | | 80/67 | 34.1 | 26.6 | 36.0 | 0.8 | 44.7 |
| | | | 85/71 | 36.4 | 27.4 | 38.2 | 0.7 | 48.8 |
| 60 | 4.5 | 1.2 | 75/63 | 29.3 | 24.7 | 31.7 | 0.9 | 32.3 |
| | | | 80/67 | 31.4 | 25.6 | 33.7 | 0.9 | 34.8 |
| | | | 85/71 | 33.5 | 26.4 | 35.8 | 0.9 | 37.4 |
| | 6.75 | 2.4 | 75/63 | 30.0 | 25.0 | 32.2 | 0.9 | 34.5 |
| | | | 80/67 | 32.1 | 25.9 | 34.3 | 0.9 | 37.5 |
| | | | 85/71 | 34.2 | 26.9 | 36.4 | 0.8 | 40.5 |
| | 9 | 4.0 | 75/63 | 30.3 | 25.1 | 32.5 | 0.9 | 35.3 |
| | | | 80/67 | 32.6 | 25.8 | 34.8 | 0.8 | 38.7 |
| | | | 85/71 | 34.6 | 27.1 | 36.8 | 0.8 | 41.7 |
| 70 | 4.5 | 1.1 | 75/63 | 28.0 | 24.1 | 30.8 | 1.1 | 25.9 |
| | | | 80/67 | 29.9 | 25.1 | 32.8 | 1.1 | 27.8 |
| | | | 85/71 | 31.8 | 26.2 | 34.7 | 1.1 | 29.8 |
| | 6.75 | 2.3 | 75/63 | 28.7 | 24.3 | 31.4 | 1.0 | 28.0 |
| | | | 80/67 | 30.7 | 25.3 | 33.4 | 1.0 | 30.2 |
| | | | 85/71 | 32.8 | 26.2 | 35.5 | 1.0 | 32.6 |
| | 9 | 3.9 | 75/63 | 28.9 | 24.6 | 31.6 | 1.0 | 28.7 |
| | | | 80/67 | 31.0 | 25.5 | 33.7 | 1.0 | 31.1 |
| | | | 85/71 | 33.2 | 26.3 | 35.8 | 1.0 | 33.8 |
| 80 | 4.5 | 1.1 | 75/63 | 26.4 | 23.5 | 29.8 | 1.2 | 21.4 |
| | | | 80/67 | 28.2 | 24.7 | 31.7 | 1.2 | 22.9 |
| | | | 85/71 | 30.3 | 25.3 | 33.7 | 1.2 | 24.6 |
| | 6.75 | 2.2 | 75/63 | 26.9 | 24.0 | 30.2 | 1.2 | 22.9 |
| | | | 80/67 | 29.0 | 24.8 | 32.2 | 1.2 | 24.9 |
| | | | 85/71 | 31.0 | 25.6 | 34.2 | 1.2 | 26.8 |
| | 9 | 3.7 | 75/63 | 27.4 | 23.9 | 30.5 | 1.2 | 23.7 |
| | | | 80/67 | 29.4 | 24.8 | 32.5 | 1.1 | 25.7 |
| | | | 85/71 | 31.4 | 25.8 | 34.5 | 1.1 | 27.7 |
| 90 | 4.5 | 1.1 | 75/63 | 25.3 | 23.3 | 29.5 | 1.5 | 17.3 |
| | | | 80/67 | 27.0 | 24.6 | 31.3 | 1.5 | 18.5 |
| | | | 85/71 | 29.0 | 25.3 | 33.3 | 1.5 | 19.9 |
| | 6.75 | 2.2 | 75/63 | 26.0 | 23.4 | 29.9 | 1.4 | 18.7 |
| | | | 80/67 | 27.8 | 24.6 | 31.8 | 1.4 | 20.1 |
| | | | 85/71 | 29.8 | 25.5 | 33.8 | 1.4 | 21.6 |
| | 9 | 3.6 | 75/63 | 26.3 | 23.5 | 30.2 | 1.4 | 19.2 |
| | | | 80/67 | 28.4 | 24.2 | 32.2 | 1.4 | 20.9 |
| | | | 85/71 | 30.3 | 25.4 | 34.2 | 1.3 | 22.5 |
| 100 | 4.5 | 1.0 | 75/63 | 23.3 | 23.0 | 28.3 | 1.7 | 13.9 |
| | | | 80/67 | 26.3 | 21.8 | 30.8 | 1.7 | 15.7 |
| | | | 85/71 | 28.4 | 21.8 | 32.8 | 1.7 | 16.9 |
| | 6.75 | 2.1 | 75/63 | 23.7 | 23.1 | 28.5 | 1.6 | 14.7 |
| | | | 80/67 | 26.1 | 24.0 | 30.8 | 1.6 | 16.3 |
| | | | 85/71 | 27.6 | 25.5 | 32.4 | 1.6 | 17.2 |
| | 9 | 3.5 | 75/63 | 24.4 | 23.2 | 29.0 | 1.6 | 15.4 |
| | | | 80/67 | 26.4 | 24.1 | 31.0 | 1.6 | 16.8 |
| | | | 85/71 | 28.8 | 24.0 | 33.2 | 1.6 | 18.5 |
| 110 | 4.5 | 1.0 | 75/63 | 20.4 | 20.4 | 26.6 | 1.9 | 10.6 |
| | | | 80/67 | 21.7 | 21.7 | 28.2 | 1.9 | 11.3 |
| | | | 85/71 | 23.1 | 23.1 | 29.8 | 1.9 | 12.0 |
| | 6.75 | 2.1 | 75/63 | 22.4 | 22.4 | 27.9 | 1.9 | 12.1 |
| | | | 80/67 | 23.9 | 23.7 | 29.5 | 1.8 | 12.9 |
| | | | 85/71 | 25.4 | 24.8 | 31.2 | 1.8 | 13.8 |
| | 9 | 3.5 | 75/63 | 20.9 | 20.9 | 26.8 | 1.8 | 11.4 |
| | | | 80/67 | 25.3 | 21.9 | 30.4 | 1.8 | 14.0 |
| | | | 85/71 | 27.5 | 21.9 | 32.3 | 1.8 | 15.2 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM036 VT Part Load Heating Performance Data - 1050 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 20 | 1.4 | 60 | 15.8 | 12.3 | 1.2 | 3.84 |
| | | 70 | 15.4 | 11.3 | 1.4 | 3.25 |
| | | 80 | 15.0 | 10.3 | 1.6 | 2.75 |
| | 2.9 | 60 | 16.4 | 12.8 | 1.2 | 3.94 |
| | | 70 | 15.9 | 11.8 | 1.4 | 3.33 |
| | | 80 | 15.5 | 10.8 | 1.6 | 2.83 |
| | 4.8 | 60 | 16.8 | 13.1 | 1.2 | 3.97 |
| | | 70 | 16.2 | 12.1 | 1.4 | 3.36 |
| | | 80 | 15.7 | 11.0 | 1.6 | 2.85 |
| 30 | 1.3 | 60 | 18.8 | 15.2 | 1.2 | 4.49 |
| | | 70 | 18.3 | 14.1 | 1.4 | 3.83 |
| | | 80 | 18.0 | 13.1 | 1.6 | 3.29 |
| | 2.7 | 60 | 19.6 | 15.9 | 1.2 | 4.63 |
| | | 70 | 19.0 | 14.8 | 1.4 | 3.95 |
| | | 80 | 18.5 | 13.7 | 1.6 | 3.37 |
| | 4.6 | 60 | 20.0 | 16.4 | 1.3 | 4.67 |
| | | 70 | 19.4 | 15.2 | 1.4 | 3.99 |
| | | 80 | 18.9 | 14.1 | 1.6 | 3.40 |
| 40 | 1.3 | 60 | 22.1 | 18.4 | 1.2 | 5.20 |
| | | 70 | 21.5 | 17.3 | 1.4 | 4.46 |
| | | 80 | 21.0 | 16.1 | 1.6 | 3.82 |
| | 2.6 | 60 | 23.1 | 19.4 | 1.3 | 5.39 |
| | | 70 | 22.4 | 18.2 | 1.4 | 4.61 |
| | | 80 | 21.8 | 16.9 | 1.6 | 3.94 |
| | 4.4 | 60 | 23.6 | 19.9 | 1.3 | 5.45 |
| | | 70 | 22.9 | 18.7 | 1.4 | 4.66 |
| | | 80 | 22.3 | 17.4 | 1.6 | 3.98 |
| 50 | 1.2 | 60 | 25.5 | 21.7 | 1.3 | 5.83 |
| | | 70 | 24.8 | 20.5 | 1.5 | 5.00 |
| | | 80 | 24.4 | 19.2 | 1.7 | 4.30 |
| | 2.5 | 60 | 26.7 | 22.9 | 1.3 | 6.06 |
| | | 70 | 26.0 | 21.6 | 1.5 | 5.18 |
| | | 80 | 25.4 | 20.2 | 1.7 | 4.44 |
| | 4.2 | 60 | 27.4 | 23.6 | 1.3 | 6.14 |
| | | 70 | 26.6 | 22.2 | 1.5 | 5.25 |
| | | 80 | 25.9 | 20.8 | 1.7 | 4.50 |
| 60 | 1.2 | 60 | 28.5 | 24.8 | 1.3 | 6.52 |
| | | 70 | 28.1 | 23.8 | 1.5 | 5.65 |
| | | 80 | 27.5 | 22.4 | 1.7 | 4.83 |
| | 2.5 | 60 | 30.3 | 26.5 | 1.3 | 6.87 |
| | | 70 | 29.4 | 25.1 | 1.5 | 5.86 |
| | | 80 | 28.6 | 23.6 | 1.7 | 4.99 |
| | 4.1 | 60 | 31.1 | 27.3 | 1.3 | 6.98 |
| | | 70 | 30.1 | 25.8 | 1.5 | 5.94 |
| | | 80 | 29.3 | 24.2 | 1.7 | 5.07 |
| 70 | 1.2 | 60 | 31.1 | 27.0 | 1.3 | 7.09 |
| | | 70 | 31.0 | 25.6 | 1.5 | 6.18 |
| | | 80 | 30.9 | 25.8 | 1.7 | 5.38 |
| | 2.4 | 60 | 34.3 | 30.5 | 1.3 | 7.74 |
| | | 70 | 33.4 | 29.0 | 1.5 | 6.58 |
| | | 80 | 32.5 | 27.4 | 1.7 | 5.61 |
| | 3.9 | 60 | 35.2 | 31.5 | 1.3 | 7.84 |
| | | 70 | 34.2 | 29.8 | 1.5 | 6.68 |
| | | 80 | 33.3 | 28.2 | 1.7 | 5.69 |
| 80 | 1.1 | 60 | 35.4 | 31.4 | 1.3 | 8.02 |
| | | 70 | 33.3 | 33.2 | 1.5 | 6.55 |
| | | 80 | 33.0 | 28.5 | 1.7 | 5.70 |
| | 2.3 | 60 | 38.5 | 34.8 | 1.3 | 8.66 |
| | | 70 | 37.5 | 33.1 | 1.5 | 7.32 |
| | | 80 | 36.5 | 31.3 | 1.7 | 6.21 |
| | 3.8 | 60 | 39.6 | 35.8 | 1.3 | 8.82 |
| | | 70 | 38.5 | 34.1 | 1.5 | 7.44 |
| | | 80 | 37.4 | 32.3 | 1.7 | 6.30 |

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Bosch Thermotechnology Corp.
 Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM048 VT Full Load Cooling Performance Data - 1600 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 6 | 2.3 | 75/63 | 53.3 | 41.3 | 59.1 | 2.0 | 26.2 |
| | | | 80/67 | 56.7 | 42.6 | 62.7 | 2.1 | 27.5 |
| | | | 85/71 | 60.2 | 43.7 | 66.3 | 2.1 | 28.9 |
| | 9 | 4.9 | 75/63 | 54.9 | 41.8 | 60.3 | 1.9 | 28.7 |
| | | | 80/67 | 58.5 | 43.1 | 64.0 | 1.9 | 30.3 |
| | | | 85/71 | 62.2 | 44.3 | 67.8 | 1.9 | 32.0 |
| | 12 | 8.1 | 75/63 | 55.6 | 42.3 | 60.9 | 1.9 | 29.7 |
| | | | 80/67 | 59.4 | 43.4 | 64.8 | 1.9 | 31.4 |
| | | | 85/71 | 63.2 | 44.6 | 68.6 | 1.9 | 33.2 |
| 60 | 6 | 2.3 | 75/63 | 51.2 | 40.3 | 57.7 | 2.3 | 22.7 |
| | | | 80/67 | 54.5 | 41.4 | 61.2 | 2.3 | 23.9 |
| | | | 85/71 | 58.0 | 42.5 | 64.7 | 2.3 | 25.1 |
| | 9 | 4.7 | 75/63 | 52.6 | 40.8 | 58.7 | 2.1 | 24.7 |
| | | | 80/67 | 56.1 | 42.0 | 62.3 | 2.1 | 26.1 |
| | | | 85/71 | 59.6 | 43.5 | 65.9 | 2.2 | 27.6 |
| | 12 | 7.9 | 75/63 | 53.3 | 41.2 | 59.3 | 2.1 | 25.5 |
| | | | 80/67 | 56.8 | 42.6 | 62.9 | 2.1 | 27.0 |
| | | | 85/71 | 60.5 | 43.8 | 66.7 | 2.1 | 28.7 |
| 70 | 6 | 2.2 | 75/63 | 49.1 | 39.7 | 56.6 | 2.5 | 19.3 |
| | | | 80/67 | 52.5 | 40.6 | 60.1 | 2.6 | 20.4 |
| | | | 85/71 | 55.8 | 41.9 | 63.5 | 2.6 | 21.4 |
| | 9 | 4.6 | 75/63 | 50.6 | 40.0 | 57.7 | 2.4 | 21.0 |
| | | | 80/67 | 54.0 | 41.4 | 61.1 | 2.4 | 22.2 |
| | | | 85/71 | 57.6 | 42.4 | 64.8 | 2.4 | 23.6 |
| | 12 | 7.6 | 75/63 | 51.3 | 40.4 | 58.2 | 2.4 | 21.7 |
| | | | 80/67 | 54.8 | 41.7 | 61.8 | 2.4 | 23.0 |
| | | | 85/71 | 58.4 | 42.9 | 65.4 | 2.4 | 24.5 |
| 80 | 6 | 2.1 | 75/63 | 46.8 | 38.5 | 55.2 | 2.8 | 16.5 |
| | | | 80/67 | 49.9 | 39.8 | 58.5 | 2.9 | 17.4 |
| | | | 85/71 | 53.0 | 41.2 | 61.8 | 2.9 | 18.4 |
| | 9 | 4.4 | 75/63 | 48.2 | 38.9 | 56.1 | 2.7 | 17.9 |
| | | | 80/67 | 51.3 | 40.5 | 59.4 | 2.7 | 19.0 |
| | | | 85/71 | 54.9 | 41.4 | 63.0 | 2.7 | 20.2 |
| | 12 | 7.4 | 75/63 | 48.7 | 39.5 | 56.5 | 2.6 | 18.5 |
| | | | 80/67 | 52.2 | 40.7 | 60.1 | 2.6 | 19.7 |
| | | | 85/71 | 55.7 | 41.9 | 63.6 | 2.7 | 21.0 |
| 90 | 6 | 2.1 | 75/63 | 44.4 | 37.6 | 54.1 | 3.2 | 13.9 |
| | | | 80/67 | 47.6 | 38.7 | 57.3 | 3.2 | 14.7 |
| | | | 85/71 | 50.6 | 39.9 | 60.6 | 3.3 | 15.5 |
| | 9 | 4.3 | 75/63 | 45.7 | 38.2 | 54.9 | 3.0 | 15.0 |
| | | | 80/67 | 48.9 | 39.3 | 58.1 | 3.1 | 16.0 |
| | | | 85/71 | 52.1 | 40.7 | 61.5 | 3.1 | 16.9 |
| | 12 | 7.2 | 75/63 | 46.4 | 38.2 | 55.4 | 3.0 | 15.5 |
| | | | 80/67 | 49.7 | 39.5 | 58.7 | 3.0 | 16.5 |
| | | | 85/71 | 52.9 | 40.9 | 62.0 | 3.0 | 17.6 |
| 100 | 6 | 2.0 | 75/63 | 40.6 | 37.1 | 52.0 | 3.6 | 11.4 |
| | | | 80/67 | 46.4 | 33.5 | 56.6 | 3.6 | 12.8 |
| | | | 85/71 | 50.1 | 31.9 | 60.0 | 3.7 | 13.6 |
| | 9 | 4.2 | 75/63 | 43.2 | 36.9 | 53.5 | 3.4 | 12.6 |
| | | | 80/67 | 46.2 | 38.3 | 56.6 | 3.4 | 13.4 |
| | | | 85/71 | 49.4 | 39.6 | 60.0 | 3.5 | 14.3 |
| | 12 | 7.0 | 75/63 | 43.8 | 37.1 | 53.9 | 3.4 | 13.0 |
| | | | 80/67 | 46.7 | 38.8 | 57.0 | 3.4 | 13.9 |
| | | | 85/71 | 50.2 | 39.7 | 60.5 | 3.4 | 14.8 |
| 110 | 6 | 2.0 | 75/63 | 40.6 | 32.5 | 52.3 | 4.0 | 10.0 |
| | | | 80/67 | 40.3 | 37.5 | 53.6 | 4.1 | 9.9 |
| | | | 85/71 | 47.1 | 31.8 | 58.5 | 4.1 | 11.4 |
| | 9 | 4.1 | 75/63 | 39.2 | 36.5 | 51.5 | 3.8 | 10.2 |
| | | | 80/67 | 41.8 | 38.1 | 54.4 | 3.9 | 10.8 |
| | | | 85/71 | 43.9 | 39.5 | 57.0 | 3.9 | 11.3 |
| | 12 | 6.8 | 75/63 | 39.7 | 36.7 | 51.8 | 3.8 | 10.5 |
| | | | 80/67 | 42.4 | 38.3 | 54.7 | 3.8 | 11.2 |
| | | | 85/71 | 44.9 | 39.8 | 57.5 | 3.8 | 11.8 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM048 VT Full Load Heating Performance Data - 1600 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 20 | 2.8 | 60 | 31.0 | 24.4 | 2.1 | 4.29 |
| | | 70 | 30.6 | 22.7 | 2.4 | 3.71 |
| | | 80 | 29.9 | 21.3 | 2.7 | 3.21 |
| | 5.7 | 60 | 32.2 | 25.6 | 2.2 | 4.35 |
| | | 70 | 31.9 | 24.6 | 2.5 | 3.79 |
| | | 80 | 32.0 | 22.9 | 2.8 | 3.35 |
| | 9.5 | 60 | 33.7 | 26.5 | 2.2 | 4.42 |
| | | 70 | 33.2 | 25.6 | 2.5 | 3.84 |
| | | 80 | 32.8 | 23.8 | 2.9 | 3.37 |
| 30 | 2.7 | 60 | 36.1 | 29.1 | 2.2 | 4.74 |
| | | 70 | 35.4 | 27.5 | 2.5 | 4.11 |
| | | 80 | 34.8 | 25.8 | 2.8 | 3.59 |
| | 5.5 | 60 | 37.8 | 30.6 | 2.3 | 4.84 |
| | | 70 | 36.9 | 28.9 | 2.6 | 4.19 |
| | | 80 | 36.0 | 26.9 | 2.9 | 3.65 |
| | 9.1 | 60 | 38.9 | 31.4 | 2.3 | 4.85 |
| | | 70 | 37.6 | 29.7 | 2.6 | 4.19 |
| | | 80 | 37.4 | 28.0 | 2.9 | 3.72 |
| 40 | 2.6 | 60 | 41.7 | 34.3 | 2.4 | 5.18 |
| | | 70 | 40.8 | 32.5 | 2.6 | 4.53 |
| | | 80 | 40.1 | 30.7 | 2.9 | 3.99 |
| | 5.3 | 60 | 43.8 | 36.3 | 2.4 | 5.29 |
| | | 70 | 42.7 | 34.4 | 2.7 | 4.64 |
| | | 80 | 41.7 | 32.4 | 3.0 | 4.08 |
| | 8.7 | 60 | 44.9 | 37.5 | 2.5 | 5.30 |
| | | 70 | 43.8 | 35.3 | 2.8 | 4.66 |
| | | 80 | 42.8 | 32.8 | 3.1 | 4.12 |
| 50 | 2.5 | 60 | 47.0 | 39.5 | 2.5 | 5.62 |
| | | 70 | 46.1 | 37.4 | 2.7 | 4.95 |
| | | 80 | 45.1 | 35.8 | 3.0 | 4.35 |
| | 5.1 | 60 | 49.7 | 41.9 | 2.5 | 5.77 |
| | | 70 | 48.4 | 39.7 | 2.8 | 5.08 |
| | | 80 | 47.3 | 37.6 | 3.1 | 4.48 |
| | 8.4 | 60 | 51.0 | 43.3 | 2.6 | 5.79 |
| | | 70 | 49.7 | 41.1 | 2.9 | 5.10 |
| | | 80 | 48.6 | 38.1 | 3.2 | 4.52 |
| 60 | 2.4 | 60 | 52.7 | 44.6 | 2.6 | 5.96 |
| | | 70 | 51.6 | 42.6 | 2.9 | 5.26 |
| | | 80 | 50.6 | 40.4 | 3.2 | 4.65 |
| | 4.9 | 60 | 55.8 | 47.5 | 2.7 | 6.13 |
| | | 70 | 54.4 | 45.2 | 2.9 | 5.41 |
| | | 80 | 53.1 | 42.9 | 3.3 | 4.77 |
| | 8.1 | 60 | 57.3 | 49.1 | 2.7 | 6.15 |
| | | 70 | 55.8 | 46.7 | 3.0 | 5.43 |
| | | 80 | 54.4 | 44.2 | 3.3 | 4.79 |
| 70 | 2.3 | 60 | 59.2 | 50.8 | 2.7 | 6.40 |
| | | 70 | 58.0 | 48.6 | 3.0 | 5.66 |
| | | 80 | 56.8 | 46.4 | 3.3 | 5.00 |
| | 4.7 | 60 | 62.9 | 54.2 | 2.8 | 6.59 |
| | | 70 | 61.3 | 51.7 | 3.1 | 5.82 |
| | | 80 | 59.8 | 49.2 | 3.4 | 5.13 |
| | 7.9 | 60 | 64.7 | 56.1 | 2.9 | 6.62 |
| | | 70 | 63.0 | 53.4 | 3.2 | 5.85 |
| | | 80 | 61.4 | 50.7 | 3.5 | 5.16 |
| 80 | 2.3 | 60 | 66.1 | 57.3 | 2.8 | 6.82 |
| | | 70 | 64.6 | 54.9 | 3.1 | 6.03 |
| | | 80 | 63.3 | 52.4 | 3.5 | 5.33 |
| | 4.6 | 60 | 70.3 | 61.2 | 2.9 | 7.01 |
| | | 70 | 68.5 | 58.5 | 3.2 | 6.19 |
| | | 80 | 66.9 | 55.7 | 3.6 | 5.46 |
| | 7.6 | 60 | 72.4 | 63.3 | 3.0 | 7.05 |
| | | 70 | 70.6 | 60.4 | 3.3 | 6.23 |
| | | 80 | 68.8 | 57.4 | 3.7 | 5.50 |

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Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM048 VT Part Load Cooling Performance Data - 1300 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 6 | 2.4 | 75/63 | 40.7 | 32.5 | 43.6 | 1.1 | 36.0 |
| | | | 80/67 | 43.3 | 33.4 | 46.2 | 1.1 | 39.2 |
| | | | 85/71 | 46.0 | 34.5 | 48.9 | 1.1 | 42.6 |
| | 9 | 4.9 | 75/63 | 41.7 | 32.9 | 44.4 | 1.1 | 39.4 |
| | | | 80/67 | 44.6 | 33.8 | 47.2 | 1.0 | 43.5 |
| | | | 85/71 | 47.5 | 34.8 | 50.0 | 1.0 | 47.9 |
| | 12 | 8.2 | 75/63 | 42.3 | 33.1 | 45.0 | 1.0 | 40.5 |
| | | | 80/67 | 45.2 | 34.1 | 47.8 | 1.0 | 44.9 |
| | | | 85/71 | 48.1 | 35.1 | 50.6 | 1.0 | 49.7 |
| 60 | 6 | 2.3 | 75/63 | 38.5 | 31.6 | 42.1 | 1.3 | 29.1 |
| | | | 80/67 | 41.0 | 32.7 | 44.6 | 1.3 | 31.5 |
| | | | 85/71 | 43.8 | 33.7 | 47.3 | 1.3 | 34.2 |
| | 9 | 4.7 | 75/63 | 39.5 | 32.0 | 42.8 | 1.2 | 31.6 |
| | | | 80/67 | 42.2 | 33.1 | 45.5 | 1.2 | 34.6 |
| | | | 85/71 | 45.1 | 33.9 | 48.3 | 1.2 | 38.0 |
| | 12 | 7.9 | 75/63 | 40.1 | 32.2 | 43.4 | 1.2 | 32.5 |
| | | | 80/67 | 42.9 | 33.2 | 46.1 | 1.2 | 35.7 |
| | | | 85/71 | 45.7 | 34.4 | 48.8 | 1.2 | 39.2 |
| 70 | 6 | 2.2 | 75/63 | 36.8 | 30.9 | 41.1 | 1.6 | 23.6 |
| | | | 80/67 | 39.2 | 32.0 | 43.6 | 1.5 | 25.4 |
| | | | 85/71 | 41.9 | 33.0 | 46.2 | 1.5 | 27.6 |
| | 9 | 4.6 | 75/63 | 37.7 | 31.3 | 41.8 | 1.5 | 25.5 |
| | | | 80/67 | 40.4 | 32.3 | 44.4 | 1.5 | 27.8 |
| | | | 85/71 | 43.1 | 33.5 | 47.1 | 1.4 | 30.3 |
| | 12 | 7.7 | 75/63 | 38.3 | 31.5 | 42.3 | 1.5 | 26.2 |
| | | | 80/67 | 40.9 | 32.6 | 44.9 | 1.4 | 28.6 |
| | | | 85/71 | 43.8 | 33.6 | 47.7 | 1.4 | 31.4 |
| 80 | 6 | 2.2 | 75/63 | 34.5 | 29.9 | 39.6 | 1.8 | 19.1 |
| | | | 80/67 | 35.9 | 31.7 | 41.3 | 1.8 | 20.0 |
| | | | 85/71 | 40.9 | 28.6 | 45.3 | 1.8 | 23.2 |
| | 9 | 4.5 | 75/63 | 35.4 | 30.4 | 40.3 | 1.7 | 20.6 |
| | | | 80/67 | 38.0 | 31.3 | 42.8 | 1.7 | 22.4 |
| | | | 85/71 | 40.5 | 32.8 | 45.3 | 1.7 | 24.3 |
| | 12 | 7.4 | 75/63 | 35.9 | 30.5 | 40.7 | 1.7 | 21.1 |
| | | | 80/67 | 38.5 | 31.7 | 43.2 | 1.7 | 23.0 |
| | | | 85/71 | 41.3 | 32.6 | 45.9 | 1.6 | 25.2 |
| 90 | 6 | 2.1 | 75/63 | 33.8 | 28.7 | 39.9 | 2.2 | 15.7 |
| | | | 80/67 | 34.9 | 31.3 | 41.5 | 2.2 | 16.2 |
| | | | 85/71 | 37.1 | 32.6 | 43.9 | 2.1 | 17.4 |
| | 9 | 4.3 | 75/63 | 34.3 | 29.8 | 40.3 | 2.1 | 16.6 |
| | | | 80/67 | 36.7 | 31.2 | 42.7 | 2.0 | 18.0 |
| | | | 85/71 | 37.8 | 32.8 | 44.4 | 2.0 | 18.7 |
| | 12 | 7.2 | 75/63 | 34.8 | 30.0 | 40.7 | 2.0 | 17.1 |
| | | | 80/67 | 37.4 | 31.2 | 43.2 | 2.0 | 18.6 |
| | | | 85/71 | 38.4 | 33.0 | 44.8 | 2.0 | 19.3 |
| 100 | 6 | 2.0 | 75/63 | 31.1 | 28.5 | 38.4 | 2.5 | 12.6 |
| | | | 80/67 | 33.8 | 29.0 | 40.9 | 2.5 | 13.7 |
| | | | 85/71 | 34.5 | 31.7 | 42.4 | 2.5 | 14.1 |
| | 9 | 4.2 | 75/63 | 31.8 | 28.9 | 38.8 | 2.4 | 13.4 |
| | | | 80/67 | 34.8 | 29.0 | 41.5 | 2.4 | 14.8 |
| | | | 85/71 | 35.9 | 32.2 | 43.3 | 2.3 | 15.4 |
| | 12 | 7.0 | 75/63 | 32.1 | 29.3 | 39.1 | 2.4 | 13.6 |
| | | | 80/67 | 34.2 | 31.1 | 41.3 | 2.3 | 14.7 |
| | | | 85/71 | 36.4 | 32.3 | 43.6 | 2.3 | 15.8 |
| 110 | 6 | 2.0 | 75/63 | 28.7 | 27.6 | 37.1 | 2.8 | 10.2 |
| | | | 80/67 | 31.0 | 28.9 | 39.4 | 2.8 | 11.1 |
| | | | 85/71 | 32.5 | 31.0 | 41.4 | 2.8 | 11.6 |
| | 9 | 4.1 | 75/63 | 29.5 | 27.9 | 37.6 | 2.7 | 10.8 |
| | | | 80/67 | 31.9 | 29.2 | 40.0 | 2.7 | 11.8 |
| | | | 85/71 | 33.2 | 31.2 | 41.8 | 2.7 | 12.4 |
| | 12 | 6.9 | 75/63 | 29.8 | 28.1 | 37.9 | 2.7 | 11.1 |
| | | | 80/67 | 32.3 | 29.2 | 40.2 | 2.7 | 12.1 |
| | | | 85/71 | 33.6 | 31.4 | 42.1 | 2.7 | 12.7 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM048 VT Part Load Heating Performance Data - 1300 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 20 | 2.8 | 60 | 23.4 | 18.4 | 1.6 | 4.19 |
| | | 70 | 22.3 | 16.8 | 1.8 | 3.54 |
| | | 80 | 21.3 | 15.1 | 2.1 | 3.00 |
| | 5.7 | 60 | 24.2 | 19.2 | 1.7 | 4.27 |
| | | 70 | 23.1 | 17.4 | 1.9 | 3.62 |
| | | 80 | 22.0 | 15.7 | 2.1 | 3.05 |
| | 9.4 | 60 | 24.6 | 19.6 | 1.7 | 4.24 |
| | | 70 | 23.5 | 17.8 | 1.9 | 3.60 |
| | | 80 | 22.4 | 16.1 | 2.2 | 3.04 |
| 30 | 2.7 | 60 | 27.0 | 21.7 | 1.7 | 4.78 |
| | | 70 | 26.0 | 20.3 | 1.9 | 4.06 |
| | | 80 | 25.0 | 18.5 | 2.1 | 3.45 |
| | 5.4 | 60 | 28.1 | 23.1 | 1.7 | 4.89 |
| | | 70 | 26.9 | 21.2 | 1.9 | 4.15 |
| | | 80 | 25.8 | 19.4 | 2.2 | 3.52 |
| | 9.0 | 60 | 28.7 | 23.7 | 1.7 | 4.88 |
| | | 70 | 27.5 | 21.8 | 1.9 | 4.14 |
| | | 80 | 26.3 | 19.8 | 2.2 | 3.52 |
| 40 | 2.6 | 60 | 30.4 | 26.5 | 1.7 | 5.32 |
| | | 70 | 29.6 | 24.0 | 1.9 | 4.56 |
| | | 80 | 28.8 | 22.3 | 2.2 | 3.90 |
| | 5.2 | 60 | 32.4 | 27.4 | 1.7 | 5.57 |
| | | 70 | 31.2 | 25.4 | 1.9 | 4.72 |
| | | 80 | 30.0 | 23.4 | 2.2 | 4.01 |
| | 8.7 | 60 | 33.1 | 28.1 | 1.7 | 5.56 |
| | | 70 | 31.9 | 26.0 | 2.0 | 4.72 |
| | | 80 | 30.6 | 24.0 | 2.2 | 4.02 |
| 50 | 2.5 | 60 | 34.5 | 29.5 | 1.7 | 6.00 |
| | | 70 | 33.3 | 27.2 | 1.9 | 5.08 |
| | | 80 | 33.0 | 26.1 | 2.2 | 4.42 |
| | 5.0 | 60 | 36.7 | 31.4 | 1.7 | 6.27 |
| | | 70 | 35.6 | 29.9 | 2.0 | 5.33 |
| | | 80 | 34.6 | 27.7 | 2.2 | 4.57 |
| | 8.4 | 60 | 37.9 | 32.8 | 1.8 | 6.31 |
| | | 70 | 36.6 | 30.5 | 2.0 | 5.37 |
| | | 80 | 35.3 | 28.4 | 2.3 | 4.59 |
| 60 | 2.4 | 60 | 39.8 | 34.6 | 1.7 | 6.72 |
| | | 70 | 38.5 | 32.3 | 2.0 | 5.73 |
| | | 80 | 37.2 | 30.5 | 2.2 | 4.88 |
| | 4.9 | 60 | 41.4 | 36.1 | 1.8 | 6.89 |
| | | 70 | 39.9 | 33.7 | 2.0 | 5.84 |
| | | 80 | 39.7 | 32.4 | 2.3 | 5.12 |
| | 8.1 | 60 | 43.1 | 38.1 | 1.8 | 7.01 |
| | | 70 | 42.3 | 36.2 | 2.0 | 6.05 |
| | | 80 | 40.9 | 33.8 | 2.3 | 5.18 |
| 70 | 2.3 | 60 | 45.0 | 39.7 | 1.8 | 7.50 |
| | | 70 | 43.6 | 37.5 | 2.0 | 6.38 |
| | | 80 | 42.3 | 35.1 | 2.3 | 5.45 |
| | 4.7 | 60 | 46.9 | 41.9 | 1.8 | 7.71 |
| | | 70 | 45.1 | 39.2 | 2.0 | 6.50 |
| | | 80 | 44.9 | 37.8 | 2.3 | 5.70 |
| | 7.8 | 60 | 48.1 | 44.1 | 1.8 | 7.73 |
| | | 70 | 47.4 | 41.3 | 2.1 | 6.70 |
| | | 80 | 46.1 | 39.3 | 2.4 | 5.75 |
| 80 | 2.2 | 60 | 50.3 | 45.0 | 1.8 | 8.29 |
| | | 70 | 48.9 | 42.6 | 2.0 | 7.04 |
| | | 80 | 47.4 | 40.3 | 2.3 | 6.02 |
| | 4.6 | 60 | 52.6 | 47.5 | 1.8 | 8.53 |
| | | 70 | 50.9 | 45.0 | 2.1 | 7.23 |
| | | 80 | 49.3 | 42.5 | 2.3 | 6.16 |
| | 7.6 | 60 | 51.7 | 48.4 | 1.8 | 8.40 |
| | | 70 | 52.0 | 44.7 | 2.1 | 7.26 |
| | | 80 | 50.3 | 42.8 | 2.4 | 6.19 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM060 VT Full Load Cooling Performance Data - 1950 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 7.5 | 2.7 | 75/63 | 66.3 | 50.7 | 73.8 | 2.6 | 25.4 |
| | | | 80/67 | 70.6 | 52.2 | 78.3 | 2.7 | 26.5 |
| | | | 85/71 | 75.1 | 53.5 | 83.0 | 2.7 | 27.6 |
| | 11.25 | 5.7 | 75/63 | 68.0 | 51.3 | 75.1 | 2.5 | 27.2 |
| | | | 80/67 | 72.5 | 52.7 | 79.8 | 2.5 | 28.5 |
| | | | 85/71 | 77.1 | 54.2 | 84.7 | 2.6 | 29.7 |
| | 15 | 9.6 | 75/63 | 68.7 | 51.6 | 75.8 | 2.5 | 27.6 |
| | | | 80/67 | 73.3 | 53.3 | 80.6 | 2.5 | 29.0 |
| | | | 85/71 | 78.5 | 54.3 | 85.9 | 2.6 | 30.5 |
| 60 | 7.5 | 2.7 | 75/63 | 63.7 | 49.6 | 72.0 | 2.9 | 22.3 |
| | | | 80/67 | 67.8 | 51.0 | 76.3 | 2.9 | 23.4 |
| | | | 85/71 | 72.0 | 52.9 | 80.8 | 2.9 | 24.4 |
| | 11.25 | 5.5 | 75/63 | 65.1 | 50.5 | 73.1 | 2.7 | 23.9 |
| | | | 80/67 | 69.7 | 51.8 | 77.8 | 2.8 | 25.2 |
| | | | 85/71 | 74.3 | 52.9 | 82.5 | 2.8 | 26.4 |
| | 15 | 9.2 | 75/63 | 66.1 | 50.5 | 73.9 | 2.7 | 24.4 |
| | | | 80/67 | 70.6 | 52.1 | 78.6 | 2.7 | 25.7 |
| | | | 85/71 | 75.3 | 53.2 | 83.4 | 2.8 | 27.0 |
| 70 | 7.5 | 2.6 | 75/63 | 60.6 | 48.4 | 70.0 | 3.2 | 19.1 |
| | | | 80/67 | 64.7 | 49.9 | 74.3 | 3.2 | 20.1 |
| | | | 85/71 | 68.8 | 51.2 | 78.6 | 3.3 | 21.1 |
| | 11.25 | 5.3 | 75/63 | 62.3 | 48.7 | 71.2 | 3.0 | 20.5 |
| | | | 80/67 | 66.4 | 50.4 | 75.5 | 3.1 | 21.6 |
| | | | 85/71 | 70.8 | 51.6 | 80.0 | 3.1 | 22.8 |
| | 15 | 9.0 | 75/63 | 63.0 | 49.0 | 71.8 | 3.0 | 20.9 |
| | | | 80/67 | 67.3 | 50.5 | 76.2 | 3.0 | 22.1 |
| | | | 85/71 | 71.7 | 52.2 | 80.8 | 3.1 | 23.4 |
| 80 | 7.5 | 2.5 | 75/63 | 58.0 | 47.2 | 68.4 | 3.5 | 16.5 |
| | | | 80/67 | 61.8 | 48.6 | 72.4 | 3.5 | 17.4 |
| | | | 85/71 | 65.8 | 49.9 | 76.6 | 3.6 | 18.3 |
| | 11.25 | 5.2 | 75/63 | 59.3 | 47.8 | 69.3 | 3.4 | 17.7 |
| | | | 80/67 | 63.3 | 49.3 | 73.5 | 3.4 | 18.7 |
| | | | 85/71 | 67.6 | 50.8 | 77.9 | 3.4 | 19.8 |
| | 15 | 8.7 | 75/63 | 60.0 | 47.7 | 69.9 | 3.3 | 18.0 |
| | | | 80/67 | 64.0 | 49.8 | 74.1 | 3.3 | 19.2 |
| | | | 85/71 | 68.5 | 51.1 | 78.6 | 3.4 | 20.3 |
| 90 | 7.5 | 2.4 | 75/63 | 55.1 | 46.0 | 67.0 | 3.9 | 14.0 |
| | | | 80/67 | 58.8 | 47.4 | 70.8 | 4.0 | 14.8 |
| | | | 85/71 | 62.6 | 49.2 | 74.9 | 4.0 | 15.6 |
| | 11.25 | 5.0 | 75/63 | 56.3 | 46.8 | 67.7 | 3.8 | 15.0 |
| | | | 80/67 | 60.3 | 48.2 | 71.8 | 3.8 | 15.9 |
| | | | 85/71 | 64.4 | 49.5 | 75.9 | 3.8 | 16.8 |
| | 15 | 8.5 | 75/63 | 56.9 | 46.6 | 68.2 | 3.7 | 15.2 |
| | | | 80/67 | 61.0 | 48.5 | 72.3 | 3.7 | 16.3 |
| | | | 85/71 | 65.2 | 49.6 | 76.6 | 3.8 | 17.3 |
| 100 | 7.5 | 2.4 | 75/63 | 52.1 | 44.8 | 65.5 | 4.4 | 11.9 |
| | | | 80/67 | 55.7 | 46.4 | 69.3 | 4.4 | 12.6 |
| | | | 85/71 | 58.5 | 49.6 | 72.6 | 4.4 | 13.2 |
| | 11.25 | 4.9 | 75/63 | 53.1 | 45.7 | 66.0 | 4.2 | 12.6 |
| | | | 80/67 | 57.2 | 46.6 | 70.1 | 4.2 | 13.5 |
| | | | 85/71 | 60.8 | 48.6 | 73.9 | 4.2 | 14.3 |
| | 15 | 8.2 | 75/63 | 53.5 | 46.4 | 66.3 | 4.1 | 12.9 |
| | | | 80/67 | 57.0 | 48.6 | 70.1 | 4.2 | 13.7 |
| | | | 85/71 | 60.8 | 50.6 | 74.0 | 4.2 | 14.6 |
| 110 | 7.5 | 2.3 | 75/63 | 49.0 | 43.7 | 64.1 | 4.9 | 10.1 |
| | | | 80/67 | 50.2 | 46.2 | 66.2 | 4.9 | 10.3 |
| | | | 85/71 | 53.2 | 48.0 | 69.6 | 4.9 | 10.8 |
| | 11.25 | 4.8 | 75/63 | 49.7 | 44.9 | 64.4 | 4.7 | 10.6 |
| | | | 80/67 | 51.4 | 46.6 | 66.8 | 4.7 | 10.9 |
| | | | 85/71 | 52.2 | 48.0 | 69.6 | 4.7 | 11.2 |
| | 15 | 8.0 | 75/63 | 49.0 | 44.9 | 63.9 | 4.6 | 10.5 |
| | | | 80/67 | 52.0 | 46.8 | 67.3 | 4.6 | 11.2 |
| | | | 85/71 | 55.0 | 48.6 | 70.6 | 4.6 | 11.8 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM060 VT Full Load Heating Performance Data - 1950 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 20 | 3.3 | 60 | 39.1 | 30.7 | 2.8 | 4.14 |
| | | 70 | 38.2 | 28.2 | 3.1 | 3.63 |
| | | 80 | 38.7 | 27.4 | 3.5 | 3.28 |
| | 6.7 | 60 | 42.4 | 33.0 | 2.9 | 4.34 |
| | | 70 | 41.6 | 31.3 | 3.2 | 3.82 |
| | | 80 | 40.7 | 29.6 | 3.5 | 3.36 |
| | 11.1 | 60 | 43.5 | 34.1 | 2.9 | 4.33 |
| | | 70 | 42.5 | 32.1 | 3.3 | 3.81 |
| | | 80 | 41.6 | 30.0 | 3.6 | 3.37 |
| 30 | 3.1 | 60 | 45.1 | 36.1 | 2.9 | 4.58 |
| | | 70 | 44.4 | 33.7 | 3.2 | 4.05 |
| | | 80 | 43.7 | 32.0 | 3.6 | 3.58 |
| | 6.4 | 60 | 46.5 | 37.0 | 2.9 | 4.63 |
| | | 70 | 47.3 | 36.9 | 3.3 | 4.18 |
| | | 80 | 47.0 | 34.8 | 3.7 | 3.75 |
| | 10.6 | 60 | 50.1 | 40.2 | 3.1 | 4.78 |
| | | 70 | 49.0 | 38.4 | 3.4 | 4.22 |
| | | 80 | 48.0 | 36.0 | 3.8 | 3.75 |
| 40 | 3.0 | 60 | 51.9 | 42.1 | 3.0 | 5.03 |
| | | 70 | 50.7 | 40.1 | 3.4 | 4.43 |
| | | 80 | 49.8 | 38.1 | 3.7 | 3.93 |
| | 6.2 | 60 | 54.1 | 44.3 | 3.1 | 5.11 |
| | | 70 | 53.0 | 42.4 | 3.4 | 4.53 |
| | | 80 | 51.4 | 39.6 | 3.8 | 3.98 |
| | 10.2 | 60 | 56.5 | 46.5 | 3.2 | 5.19 |
| | | 70 | 55.9 | 43.5 | 3.5 | 4.64 |
| | | 80 | 55.2 | 42.3 | 3.9 | 4.14 |
| 50 | 2.9 | 60 | 60.6 | 50.4 | 3.2 | 5.47 |
| | | 70 | 59.5 | 48.2 | 3.6 | 4.86 |
| | | 80 | 58.4 | 45.7 | 4.0 | 4.31 |
| | 5.9 | 60 | 63.7 | 53.3 | 3.3 | 5.59 |
| | | 70 | 62.3 | 50.8 | 3.7 | 4.96 |
| | | 80 | 61.0 | 48.4 | 4.1 | 4.40 |
| | 9.8 | 60 | 65.5 | 55.0 | 3.4 | 5.61 |
| | | 70 | 63.8 | 52.6 | 3.8 | 4.96 |
| | | 80 | 62.6 | 49.5 | 4.1 | 4.43 |
| 60 | 2.8 | 60 | 68.2 | 57.2 | 3.5 | 5.77 |
| | | 70 | 66.9 | 54.9 | 3.8 | 5.13 |
| | | 80 | 65.8 | 52.2 | 4.2 | 4.57 |
| | 5.7 | 60 | 71.9 | 60.7 | 3.6 | 5.91 |
| | | 70 | 70.4 | 58.0 | 3.9 | 5.25 |
| | | 80 | 68.9 | 55.3 | 4.3 | 4.67 |
| | 9.5 | 60 | 73.8 | 62.9 | 3.7 | 5.91 |
| | | 70 | 72.2 | 60.0 | 4.0 | 5.27 |
| | | 80 | 70.7 | 56.7 | 4.4 | 4.69 |
| 70 | 2.7 | 60 | 76.6 | 65.1 | 3.6 | 6.17 |
| | | 70 | 75.1 | 62.5 | 4.0 | 5.50 |
| | | 80 | 73.8 | 59.8 | 4.4 | 4.89 |
| | 5.6 | 60 | 81.1 | 69.2 | 3.8 | 6.32 |
| | | 70 | 79.3 | 66.2 | 4.1 | 5.63 |
| | | 80 | 77.6 | 63.2 | 4.5 | 5.01 |
| | 9.2 | 60 | 83.4 | 71.6 | 3.9 | 6.33 |
| | | 70 | 81.4 | 68.5 | 4.2 | 5.64 |
| | | 80 | 79.4 | 65.3 | 4.6 | 5.02 |
| 80 | 2.7 | 60 | 85.3 | 73.2 | 3.8 | 6.53 |
| | | 70 | 83.7 | 70.3 | 4.2 | 5.83 |
| | | 80 | 82.1 | 67.4 | 4.6 | 5.19 |
| | 5.4 | 60 | 90.7 | 78.1 | 4.0 | 6.69 |
| | | 70 | 88.6 | 74.7 | 4.4 | 5.96 |
| | | 80 | 86.6 | 71.4 | 4.8 | 5.31 |
| | 8.9 | 60 | 93.3 | 80.7 | 4.1 | 6.69 |
| | | 70 | 91.0 | 77.2 | 4.5 | 5.97 |
| | | 80 | 88.7 | 73.6 | 4.9 | 5.32 |

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Bosch Thermotechnology Corp.
 Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM060 VT Part Load Cooling Performance Data - 1550 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 7.5 | 2.8 | 75/63 | 50.5 | 39.3 | 54.4 | 1.5 | 34.0 |
| | | | 80/67 | 53.7 | 40.7 | 57.6 | 1.5 | 36.8 |
| | | | 85/71 | 57.3 | 41.6 | 61.1 | 1.4 | 40.1 |
| | 11.25 | 5.7 | 75/63 | 51.7 | 40.0 | 55.4 | 1.4 | 36.5 |
| | | | 80/67 | 55.2 | 41.1 | 58.9 | 1.4 | 40.0 |
| | | | 85/71 | 58.9 | 42.3 | 62.4 | 1.3 | 43.8 |
| | 15 | 9.6 | 75/63 | 52.3 | 40.2 | 56.1 | 1.4 | 36.9 |
| | | | 80/67 | 56.0 | 41.4 | 59.7 | 1.4 | 40.6 |
| | | | 85/71 | 59.7 | 42.6 | 63.2 | 1.3 | 44.5 |
| 60 | 7.5 | 2.7 | 75/63 | 47.7 | 38.1 | 52.4 | 1.7 | 27.9 |
| | | | 80/67 | 51.0 | 39.6 | 55.7 | 1.7 | 30.4 |
| | | | 85/71 | 54.5 | 40.6 | 59.0 | 1.7 | 33.0 |
| | 11.25 | 5.5 | 75/63 | 48.9 | 38.8 | 53.3 | 1.6 | 30.0 |
| | | | 80/67 | 52.3 | 40.1 | 56.7 | 1.6 | 32.8 |
| | | | 85/71 | 55.9 | 41.2 | 60.2 | 1.6 | 35.8 |
| | 15 | 9.3 | 75/63 | 49.6 | 39.1 | 54.0 | 1.6 | 30.5 |
| | | | 80/67 | 53.0 | 40.3 | 57.4 | 1.6 | 33.3 |
| | | | 85/71 | 56.8 | 41.4 | 61.0 | 1.6 | 36.6 |
| 70 | 7.5 | 2.6 | 75/63 | 45.3 | 37.2 | 50.9 | 2.0 | 22.8 |
| | | | 80/67 | 48.6 | 38.5 | 54.1 | 2.0 | 24.8 |
| | | | 85/71 | 51.6 | 40.2 | 57.2 | 1.9 | 26.7 |
| | 11.25 | 5.4 | 75/63 | 46.3 | 37.8 | 51.7 | 1.9 | 24.3 |
| | | | 80/67 | 49.7 | 39.1 | 55.0 | 1.9 | 26.6 |
| | | | 85/71 | 53.3 | 40.2 | 58.5 | 1.8 | 29.2 |
| | 15 | 9.0 | 75/63 | 47.0 | 38.0 | 52.3 | 1.9 | 24.8 |
| | | | 80/67 | 50.7 | 38.9 | 55.8 | 1.9 | 27.3 |
| | | | 85/71 | 53.9 | 40.6 | 59.0 | 1.8 | 29.7 |
| 80 | 7.5 | 2.5 | 75/63 | 42.3 | 36.1 | 48.9 | 2.3 | 18.6 |
| | | | 80/67 | 44.8 | 38.5 | 51.6 | 2.3 | 19.9 |
| | | | 85/71 | 48.0 | 40.1 | 54.7 | 2.2 | 21.5 |
| | 11.25 | 5.2 | 75/63 | 43.5 | 36.4 | 49.7 | 2.2 | 19.9 |
| | | | 80/67 | 46.8 | 37.7 | 52.9 | 2.2 | 21.7 |
| | | | 85/71 | 49.6 | 40.1 | 55.9 | 2.1 | 23.4 |
| | 15 | 8.7 | 75/63 | 43.9 | 36.8 | 50.2 | 2.2 | 20.1 |
| | | | 80/67 | 47.3 | 38.0 | 53.4 | 2.1 | 22.1 |
| | | | 85/71 | 50.6 | 39.9 | 56.7 | 2.1 | 24.1 |
| 90 | 7.5 | 2.5 | 75/63 | 40.4 | 36.0 | 49.2 | 2.9 | 13.8 |
| | | | 80/67 | 45.5 | 33.1 | 53.4 | 2.9 | 15.7 |
| | | | 85/71 | 43.9 | 38.7 | 53.7 | 2.9 | 15.2 |
| | 11.25 | 5.1 | 75/63 | 41.7 | 35.9 | 50.1 | 2.8 | 14.8 |
| | | | 80/67 | 44.4 | 38.3 | 52.9 | 2.8 | 15.9 |
| | | | 85/71 | 47.6 | 40.0 | 56.1 | 2.7 | 17.3 |
| | 15 | 8.5 | 75/63 | 42.1 | 36.3 | 50.4 | 2.8 | 15.0 |
| | | | 80/67 | 45.6 | 37.5 | 53.9 | 2.8 | 16.6 |
| | | | 85/71 | 48.6 | 39.8 | 56.9 | 2.7 | 17.9 |
| 100 | 7.5 | 2.4 | 75/63 | 36.6 | 34.8 | 47.0 | 3.3 | 11.0 |
| | | | 80/67 | 42.6 | 31.2 | 51.7 | 3.3 | 12.9 |
| | | | 85/71 | 41.2 | 37.8 | 52.3 | 3.3 | 12.5 |
| | 11.25 | 4.9 | 75/63 | 37.3 | 35.0 | 47.4 | 3.2 | 11.6 |
| | | | 80/67 | 40.1 | 36.8 | 50.4 | 3.2 | 12.5 |
| | | | 85/71 | 42.1 | 38.1 | 52.8 | 3.2 | 13.3 |
| | 15 | 8.2 | 75/63 | 37.6 | 35.2 | 47.7 | 3.2 | 11.7 |
| | | | 80/67 | 43.7 | 31.0 | 52.5 | 3.2 | 13.5 |
| | | | 85/71 | 42.8 | 38.3 | 53.3 | 3.1 | 13.6 |
| 110 | 7.5 | 2.3 | 75/63 | 35.7 | 31.5 | 46.7 | 3.8 | 9.5 |
| | | | 80/67 | 36.6 | 35.5 | 48.6 | 3.8 | 9.8 |
| | | | 85/71 | 42.4 | 31.4 | 52.9 | 3.7 | 11.4 |
| | 11.25 | 4.8 | 75/63 | 34.8 | 34.1 | 46.3 | 3.7 | 9.5 |
| | | | 80/67 | 39.9 | 31.4 | 50.4 | 3.6 | 11.0 |
| | | | 85/71 | 43.5 | 31.0 | 53.5 | 3.6 | 12.1 |
| | 15 | 8.0 | 75/63 | 35.1 | 34.2 | 46.6 | 3.6 | 9.6 |
| | | | 80/67 | 37.6 | 35.9 | 49.3 | 3.6 | 10.4 |
| | | | 85/71 | 40.1 | 37.4 | 52.1 | 3.6 | 11.2 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM060 VT Part Load Heating Performance Data - 1550 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 20 | 3.3 | 60 | 29.1 | 22.4 | 2.1 | 4.08 |
| | | 70 | 27.8 | 20.4 | 2.3 | 3.46 |
| | | 80 | 26.5 | 18.2 | 2.6 | 2.94 |
| | 6.7 | 60 | 30.1 | 23.5 | 2.1 | 4.14 |
| | | 70 | 28.7 | 21.2 | 2.4 | 3.51 |
| | | 80 | 27.3 | 19.0 | 2.7 | 2.99 |
| | 11.1 | 60 | 30.7 | 24.0 | 2.2 | 4.09 |
| | | 70 | 29.2 | 21.7 | 2.5 | 3.49 |
| | | 80 | 27.7 | 19.3 | 2.7 | 2.97 |
| 30 | 3.1 | 60 | 33.2 | 26.5 | 2.1 | 4.58 |
| | | 70 | 32.0 | 24.6 | 2.4 | 3.92 |
| | | 80 | 31.0 | 22.6 | 2.7 | 3.37 |
| | 6.4 | 60 | 34.9 | 28.4 | 2.2 | 4.72 |
| | | 70 | 33.4 | 26.0 | 2.4 | 4.02 |
| | | 80 | 32.0 | 23.6 | 2.7 | 3.43 |
| | 10.6 | 60 | 35.7 | 29.1 | 2.2 | 4.68 |
| | | 70 | 34.1 | 26.6 | 2.5 | 3.99 |
| | | 80 | 32.6 | 24.2 | 2.8 | 3.41 |
| 40 | 3.0 | 60 | 37.7 | 30.7 | 2.2 | 5.10 |
| | | 70 | 36.4 | 30.9 | 2.4 | 4.36 |
| | | 80 | 35.6 | 26.6 | 2.7 | 3.79 |
| | 6.1 | 60 | 40.0 | 33.1 | 2.2 | 5.30 |
| | | 70 | 38.8 | 31.1 | 2.5 | 4.55 |
| | | 80 | 37.3 | 28.7 | 2.8 | 3.90 |
| | 10.2 | 60 | 41.2 | 34.5 | 2.3 | 5.31 |
| | | 70 | 39.6 | 31.9 | 2.6 | 4.54 |
| | | 80 | 38.0 | 29.4 | 2.9 | 3.89 |
| 50 | 2.9 | 60 | 43.7 | 36.8 | 2.2 | 5.75 |
| | | 70 | 42.1 | 34.3 | 2.5 | 4.91 |
| | | 80 | 40.5 | 31.8 | 2.8 | 4.21 |
| | 5.9 | 60 | 45.4 | 37.4 | 2.3 | 5.87 |
| | | 70 | 44.7 | 37.7 | 2.6 | 5.11 |
| | | 80 | 43.5 | 34.2 | 2.9 | 4.43 |
| | 9.8 | 60 | 47.6 | 40.3 | 2.3 | 5.98 |
| | | 70 | 46.1 | 37.9 | 2.6 | 5.15 |
| | | 80 | 44.5 | 35.2 | 2.9 | 4.44 |
| 60 | 2.8 | 60 | 50.8 | 43.5 | 2.4 | 6.33 |
| | | 70 | 49.2 | 40.7 | 2.6 | 5.45 |
| | | 80 | 47.6 | 38.0 | 3.0 | 4.69 |
| | 5.7 | 60 | 52.9 | 45.8 | 2.4 | 6.48 |
| | | 70 | 51.1 | 42.3 | 2.7 | 5.56 |
| | | 80 | 49.4 | 40.6 | 3.0 | 4.78 |
| | 9.5 | 60 | 53.7 | 46.4 | 2.4 | 6.43 |
| | | 70 | 52.9 | 43.9 | 2.8 | 5.63 |
| | | 80 | 51.9 | 42.0 | 3.1 | 4.92 |
| 70 | 2.7 | 60 | 57.3 | 49.7 | 2.4 | 7.01 |
| | | 70 | 55.5 | 46.9 | 2.7 | 6.02 |
| | | 80 | 53.8 | 44.1 | 3.0 | 5.19 |
| | 5.5 | 60 | 59.8 | 52.4 | 2.4 | 7.19 |
| | | 70 | 57.7 | 49.4 | 2.7 | 6.16 |
| | | 80 | 55.7 | 46.5 | 3.1 | 5.29 |
| | 9.2 | 60 | 61.2 | 53.1 | 2.5 | 7.20 |
| | | 70 | 58.9 | 49.9 | 2.8 | 6.16 |
| | | 80 | 57.6 | 48.4 | 3.2 | 5.36 |
| 80 | 2.6 | 60 | 63.9 | 56.3 | 2.4 | 7.70 |
| | | 70 | 62.1 | 53.4 | 2.8 | 6.61 |
| | | 80 | 60.2 | 50.4 | 3.1 | 5.69 |
| | 5.4 | 60 | 66.9 | 59.4 | 2.5 | 7.92 |
| | | 70 | 64.7 | 56.2 | 2.8 | 6.78 |
| | | 80 | 62.6 | 53.0 | 3.1 | 5.83 |
| | 8.9 | 60 | 68.4 | 61.1 | 2.5 | 7.92 |
| | | 70 | 66.1 | 57.1 | 2.9 | 6.80 |
| | | 80 | 63.7 | 54.1 | 3.2 | 5.83 |

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Bosch Thermotechnology Corp.
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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM070 VT Full Load Cooling Performance Data - 2250 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 9 | 3.8 | 75/63 | 74.5 | 57.4 | 83.7 | 3.2 | 23.4 |
| | | | 80/67 | 79.3 | 59.2 | 88.7 | 3.2 | 24.5 |
| | | | 85/71 | 84.3 | 60.6 | 94.0 | 3.3 | 25.6 |
| | 13.5 | 7.9 | 75/63 | 76.3 | 58.1 | 85.0 | 3.0 | 25.1 |
| | | | 80/67 | 81.3 | 59.9 | 90.2 | 3.1 | 26.4 |
| | | | 85/71 | 86.6 | 61.4 | 95.7 | 3.1 | 27.7 |
| | 18 | 13.2 | 75/63 | 77.1 | 58.5 | 85.8 | 3.0 | 25.5 |
| | | | 80/67 | 82.2 | 60.4 | 91.1 | 3.1 | 26.9 |
| | | | 85/71 | 87.7 | 61.9 | 96.7 | 3.1 | 28.3 |
| 60 | 9 | 3.7 | 75/63 | 71.6 | 56.4 | 81.9 | 3.5 | 20.4 |
| | | | 80/67 | 76.2 | 58.2 | 86.8 | 3.6 | 21.4 |
| | | | 85/71 | 81.0 | 59.8 | 91.8 | 3.6 | 22.4 |
| | 13.5 | 7.6 | 75/63 | 73.3 | 57.0 | 83.1 | 3.4 | 21.8 |
| | | | 80/67 | 78.1 | 58.9 | 88.1 | 3.4 | 23.0 |
| | | | 85/71 | 83.2 | 60.5 | 93.4 | 3.4 | 24.2 |
| | 18 | 12.8 | 75/63 | 74.1 | 57.4 | 83.9 | 3.3 | 22.2 |
| | | | 80/67 | 79.1 | 59.2 | 89.0 | 3.4 | 23.4 |
| | | | 85/71 | 84.4 | 60.6 | 94.4 | 3.4 | 24.7 |
| 70 | 9 | 3.6 | 75/63 | 67.6 | 54.5 | 77.9 | 3.5 | 19.1 |
| | | | 80/67 | 71.9 | 56.4 | 82.4 | 3.6 | 20.1 |
| | | | 85/71 | 76.4 | 58.1 | 87.2 | 3.6 | 21.1 |
| | 13.5 | 7.4 | 75/63 | 69.1 | 55.1 | 79.0 | 3.4 | 20.3 |
| | | | 80/67 | 73.7 | 56.8 | 83.8 | 3.4 | 21.5 |
| | | | 85/71 | 78.6 | 58.5 | 88.7 | 3.5 | 22.7 |
| | 18 | 12.4 | 75/63 | 69.8 | 55.6 | 79.7 | 3.4 | 20.6 |
| | | | 80/67 | 74.5 | 57.4 | 84.5 | 3.4 | 21.8 |
| | | | 85/71 | 79.4 | 59.2 | 89.6 | 3.4 | 23.1 |
| 80 | 9 | 3.5 | 75/63 | 64.5 | 53.2 | 76.1 | 3.9 | 16.5 |
| | | | 80/67 | 68.7 | 55.2 | 80.4 | 3.9 | 17.4 |
| | | | 85/71 | 73.1 | 56.6 | 85.0 | 4.0 | 18.4 |
| | 13.5 | 7.2 | 75/63 | 66.0 | 53.8 | 77.1 | 3.8 | 17.5 |
| | | | 80/67 | 70.4 | 55.6 | 81.7 | 3.8 | 18.6 |
| | | | 85/71 | 75.1 | 57.2 | 86.4 | 3.8 | 19.7 |
| | 18 | 12.0 | 75/63 | 66.6 | 54.4 | 77.7 | 3.7 | 17.8 |
| | | | 80/67 | 71.1 | 56.1 | 82.3 | 3.8 | 18.9 |
| | | | 85/71 | 75.8 | 57.9 | 87.2 | 3.8 | 20.0 |
| 90 | 9 | 3.4 | 75/63 | 61.1 | 52.0 | 75.2 | 4.7 | 13.1 |
| | | | 80/67 | 64.9 | 54.4 | 79.3 | 4.7 | 13.8 |
| | | | 85/71 | 69.9 | 54.2 | 84.2 | 4.8 | 14.7 |
| | 13.5 | 7.0 | 75/63 | 62.8 | 51.9 | 76.3 | 4.5 | 14.0 |
| | | | 80/67 | 66.9 | 54.3 | 80.6 | 4.5 | 14.8 |
| | | | 85/71 | 71.1 | 56.6 | 85.0 | 4.5 | 15.7 |
| | 18 | 11.7 | 75/63 | 63.2 | 53.2 | 76.7 | 4.5 | 14.1 |
| | | | 80/67 | 67.6 | 54.5 | 81.2 | 4.5 | 15.0 |
| | | | 85/71 | 72.1 | 56.4 | 85.8 | 4.5 | 16.0 |
| 100 | 9 | 3.3 | 75/63 | 55.8 | 51.5 | 72.4 | 5.2 | 10.8 |
| | | | 80/67 | 61.7 | 52.6 | 77.8 | 5.2 | 11.8 |
| | | | 85/71 | 65.8 | 54.0 | 82.0 | 5.3 | 12.5 |
| | 13.5 | 6.8 | 75/63 | 59.1 | 51.2 | 74.4 | 5.0 | 11.8 |
| | | | 80/67 | 63.2 | 52.8 | 78.7 | 5.0 | 12.6 |
| | | | 85/71 | 67.2 | 55.4 | 82.8 | 5.0 | 13.3 |
| | 18 | 11.4 | 75/63 | 59.6 | 51.6 | 74.9 | 5.0 | 11.9 |
| | | | 80/67 | 63.9 | 53.0 | 79.2 | 5.0 | 12.7 |
| | | | 85/71 | 68.0 | 55.4 | 83.5 | 5.0 | 13.6 |
| 110 | 9 | 3.2 | 75/63 | 56.0 | 45.1 | 73.1 | 5.8 | 9.6 |
| | | | 80/67 | 55.8 | 52.5 | 74.9 | 5.8 | 9.6 |
| | | | 85/71 | 58.6 | 54.5 | 78.3 | 5.8 | 10.0 |
| | 13.5 | 6.6 | 75/63 | 53.7 | 50.7 | 71.7 | 5.6 | 9.6 |
| | | | 80/67 | 61.4 | 44.8 | 77.7 | 5.7 | 10.7 |
| | | | 85/71 | 60.6 | 55.1 | 79.3 | 5.6 | 10.8 |
| | 18 | 11.1 | 75/63 | 54.0 | 50.8 | 72.0 | 5.5 | 9.7 |
| | | | 80/67 | 57.5 | 53.1 | 75.8 | 5.5 | 10.4 |
| | | | 85/71 | 66.7 | 44.4 | 82.4 | 5.7 | 11.7 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM070 VT Full Load Heating Performance Data - 2250 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 20 | 4.5 | 60 | 46.8 | 35.4 | 3.5 | 3.91 |
| | | 70 | 46.3 | 33.6 | 3.9 | 3.47 |
| | | 80 | 45.7 | 31.5 | 4.4 | 3.07 |
| | 9.2 | 60 | 48.5 | 37.0 | 3.6 | 3.96 |
| | | 70 | 47.9 | 35.0 | 4.0 | 3.50 |
| | | 80 | 47.3 | 33.0 | 4.5 | 3.11 |
| | 15.3 | 60 | 49.5 | 37.9 | 3.7 | 3.91 |
| | | 70 | 48.8 | 35.8 | 4.1 | 3.47 |
| | | 80 | 48.1 | 33.8 | 4.6 | 3.09 |
| 30 | 4.3 | 60 | 53.4 | 41.8 | 3.7 | 4.28 |
| | | 70 | 52.7 | 39.4 | 4.1 | 3.79 |
| | | 80 | 52.3 | 37.6 | 4.5 | 3.39 |
| | 8.8 | 60 | 55.7 | 43.7 | 3.8 | 4.34 |
| | | 70 | 54.7 | 41.2 | 4.2 | 3.85 |
| | | 80 | 54.3 | 39.3 | 4.6 | 3.44 |
| | 14.7 | 60 | 57.0 | 44.9 | 3.9 | 4.31 |
| | | 70 | 56.1 | 42.6 | 4.3 | 3.83 |
| | | 80 | 55.3 | 40.3 | 4.7 | 3.42 |
| 40 | 4.2 | 60 | 61.0 | 48.8 | 3.8 | 4.68 |
| | | 70 | 60.2 | 46.4 | 4.2 | 4.16 |
| | | 80 | 59.4 | 43.9 | 4.7 | 3.70 |
| | 8.5 | 60 | 63.9 | 51.3 | 3.9 | 4.77 |
| | | 70 | 63.0 | 49.1 | 4.4 | 4.24 |
| | | 80 | 61.8 | 46.0 | 4.8 | 3.76 |
| | 14.1 | 60 | 65.6 | 52.8 | 4.1 | 4.74 |
| | | 70 | 64.4 | 50.2 | 4.5 | 4.22 |
| | | 80 | 63.4 | 47.9 | 5.0 | 3.75 |
| 50 | 4.0 | 60 | 69.1 | 56.0 | 4.0 | 5.03 |
| | | 70 | 68.2 | 53.6 | 4.5 | 4.47 |
| | | 80 | 67.3 | 51.1 | 5.0 | 3.98 |
| | 8.2 | 60 | 72.8 | 59.6 | 4.2 | 5.14 |
| | | 70 | 71.5 | 56.4 | 4.6 | 4.56 |
| | | 80 | 70.4 | 53.9 | 5.1 | 4.06 |
| | 13.6 | 60 | 74.9 | 61.4 | 4.3 | 5.13 |
| | | 70 | 73.2 | 58.0 | 4.7 | 4.55 |
| | | 80 | 72.1 | 55.3 | 5.2 | 4.05 |
| 60 | 3.9 | 60 | 77.4 | 63.5 | 4.3 | 5.33 |
| | | 70 | 76.2 | 60.8 | 4.7 | 4.74 |
| | | 80 | 75.2 | 58.1 | 5.2 | 4.22 |
| | 7.9 | 60 | 81.7 | 67.7 | 4.4 | 5.44 |
| | | 70 | 80.2 | 64.7 | 4.9 | 4.84 |
| | | 80 | 78.8 | 61.3 | 5.4 | 4.30 |
| | 13.1 | 60 | 84.1 | 69.8 | 4.5 | 5.44 |
| | | 70 | 82.4 | 66.6 | 5.0 | 4.84 |
| | | 80 | 80.6 | 62.8 | 5.5 | 4.30 |
| 70 | 3.8 | 60 | 86.8 | 72.2 | 4.5 | 5.69 |
| | | 70 | 85.4 | 69.3 | 4.9 | 5.07 |
| | | 80 | 84.1 | 66.2 | 5.5 | 4.51 |
| | 7.7 | 60 | 91.8 | 77.1 | 4.6 | 5.81 |
| | | 70 | 90.0 | 73.7 | 5.1 | 5.17 |
| | | 80 | 88.3 | 70.3 | 5.6 | 4.60 |
| | 12.7 | 60 | 94.7 | 79.5 | 4.8 | 5.81 |
| | | 70 | 92.6 | 75.9 | 5.2 | 5.18 |
| | | 80 | 90.7 | 72.2 | 5.8 | 4.61 |
| 80 | 3.7 | 60 | 96.6 | 81.5 | 4.7 | 6.02 |
| | | 70 | 94.9 | 78.0 | 5.2 | 5.37 |
| | | 80 | 93.4 | 74.7 | 5.7 | 4.79 |
| | 7.4 | 60 | 102.4 | 86.9 | 4.9 | 6.15 |
| | | 70 | 100.3 | 83.1 | 5.4 | 5.48 |
| | | 80 | 98.2 | 79.3 | 5.9 | 4.89 |
| | 12.3 | 60 | 105.7 | 89.7 | 5.0 | 6.15 |
| | | 70 | 103.3 | 85.6 | 5.5 | 5.49 |
| | | 80 | 101.0 | 81.6 | 6.0 | 4.90 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM070 VT Part Load Cooling Performance Data - 1800 CFM | | | | | | | | |
|--|------------------|---------------------|------------------------------|------------------------|---------------------------|---------------------------|------------------|------|
| Entering Fluid Temp (°F) | Water Flow (GPM) | Pressure Drop (PSI) | Entering Air Temp (db/wb) °F | Total Capacity (MBTUH) | Sensible Capacity (MBTUH) | Heat of Rejection (MBTUH) | Power Input (kW) | EER |
| 50 | 9 | 3.8 | 75/63 | 58.3 | 45.7 | 63.7 | 2.0 | 29.7 |
| | | | 80/67 | 62.1 | 47.3 | 67.5 | 1.9 | 32.2 |
| | | | 85/71 | 66.2 | 48.4 | 71.4 | 1.9 | 34.9 |
| | 13.5 | 7.9 | 75/63 | 59.6 | 46.3 | 64.7 | 1.9 | 31.8 |
| | | | 80/67 | 63.6 | 47.6 | 68.6 | 1.8 | 34.8 |
| | | | 85/71 | 67.7 | 49.2 | 72.6 | 1.8 | 38.0 |
| | 18 | 13.2 | 75/63 | 60.1 | 46.7 | 65.3 | 1.9 | 31.8 |
| | | | 80/67 | 64.3 | 47.9 | 69.3 | 1.8 | 35.0 |
| | | | 85/71 | 68.5 | 49.5 | 73.4 | 1.8 | 38.4 |
| 60 | 9 | 3.7 | 75/63 | 55.5 | 44.9 | 62.0 | 2.3 | 24.5 |
| | | | 80/67 | 59.3 | 46.3 | 65.7 | 2.2 | 26.5 |
| | | | 85/71 | 63.1 | 47.7 | 69.5 | 2.2 | 28.6 |
| | 13.5 | 7.7 | 75/63 | 56.9 | 45.1 | 63.0 | 2.2 | 26.2 |
| | | | 80/67 | 60.7 | 46.7 | 66.7 | 2.1 | 28.5 |
| | | | 85/71 | 64.7 | 48.1 | 70.7 | 2.1 | 31.0 |
| | 18 | 12.8 | 75/63 | 57.5 | 45.6 | 63.6 | 2.2 | 26.4 |
| | | | 80/67 | 61.5 | 46.8 | 67.5 | 2.1 | 28.8 |
| | | | 85/71 | 65.6 | 48.2 | 71.5 | 2.1 | 31.5 |
| 70 | 9 | 3.6 | 75/63 | 52.8 | 43.6 | 60.3 | 2.6 | 20.3 |
| | | | 80/67 | 56.4 | 45.1 | 63.9 | 2.6 | 21.9 |
| | | | 85/71 | 60.1 | 46.4 | 67.6 | 2.6 | 23.5 |
| | 13.5 | 7.4 | 75/63 | 53.9 | 44.1 | 61.1 | 2.5 | 21.6 |
| | | | 80/67 | 57.6 | 45.5 | 64.7 | 2.5 | 23.4 |
| | | | 85/71 | 61.5 | 47.0 | 68.5 | 2.4 | 25.4 |
| | 18 | 12.4 | 75/63 | 54.5 | 44.3 | 61.7 | 2.5 | 21.8 |
| | | | 80/67 | 58.4 | 45.6 | 65.4 | 2.5 | 23.7 |
| | | | 85/71 | 62.3 | 47.0 | 69.3 | 2.4 | 25.8 |
| 80 | 9 | 3.5 | 75/63 | 50.0 | 42.5 | 58.9 | 3.0 | 16.7 |
| | | | 80/67 | 53.5 | 44.0 | 62.3 | 3.0 | 18.0 |
| | | | 85/71 | 57.2 | 45.2 | 65.9 | 3.0 | 19.4 |
| | 13.5 | 7.2 | 75/63 | 51.2 | 42.8 | 59.6 | 2.9 | 17.8 |
| | | | 80/67 | 54.8 | 44.2 | 63.1 | 2.8 | 19.2 |
| | | | 85/71 | 58.5 | 45.8 | 66.8 | 2.8 | 20.8 |
| | 18 | 12.0 | 75/63 | 51.7 | 43.0 | 60.1 | 2.9 | 18.0 |
| | | | 80/67 | 55.4 | 44.5 | 63.7 | 2.8 | 19.5 |
| | | | 85/71 | 59.1 | 46.2 | 67.4 | 2.8 | 21.2 |
| 90 | 9 | 3.4 | 75/63 | 45.1 | 41.4 | 55.4 | 3.4 | 13.5 |
| | | | 80/67 | 48.2 | 43.3 | 58.5 | 3.3 | 14.5 |
| | | | 85/71 | 51.3 | 45.1 | 61.7 | 3.3 | 15.5 |
| | 13.5 | 7.0 | 75/63 | 46.0 | 41.9 | 55.9 | 3.2 | 14.2 |
| | | | 80/67 | 49.2 | 43.7 | 59.2 | 3.2 | 15.4 |
| | | | 85/71 | 55.0 | 41.0 | 63.8 | 3.2 | 17.4 |
| | 18 | 11.7 | 75/63 | 46.5 | 42.0 | 56.4 | 3.2 | 14.4 |
| | | | 80/67 | 50.7 | 43.3 | 60.3 | 3.2 | 15.9 |
| | | | 85/71 | 54.5 | 44.5 | 63.9 | 3.1 | 17.3 |
| 100 | 9 | 3.3 | 75/63 | 42.9 | 39.7 | 54.6 | 3.8 | 11.2 |
| | | | 80/67 | 46.1 | 41.0 | 57.7 | 3.8 | 12.1 |
| | | | 85/71 | 47.9 | 43.9 | 60.2 | 3.8 | 12.6 |
| | 13.5 | 6.8 | 75/63 | 43.8 | 40.0 | 55.0 | 3.7 | 11.7 |
| | | | 80/67 | 47.0 | 41.5 | 58.2 | 3.7 | 12.7 |
| | | | 85/71 | 49.4 | 44.4 | 61.0 | 3.7 | 13.5 |
| | 18 | 11.4 | 75/63 | 44.2 | 40.0 | 55.4 | 3.7 | 11.9 |
| | | | 80/67 | 46.8 | 42.8 | 58.3 | 3.7 | 12.7 |
| | | | 85/71 | 52.5 | 39.7 | 62.8 | 3.6 | 14.5 |
| 110 | 9 | 3.2 | 75/63 | 40.4 | 38.3 | 53.7 | 4.4 | 9.2 |
| | | | 80/67 | 43.2 | 40.2 | 56.6 | 4.4 | 9.9 |
| | | | 85/71 | 47.9 | 37.5 | 60.3 | 4.3 | 11.1 |
| | 13.5 | 6.7 | 75/63 | 41.0 | 38.8 | 54.0 | 4.3 | 9.6 |
| | | | 80/67 | 44.1 | 40.4 | 57.0 | 4.2 | 10.4 |
| | | | 85/71 | 45.9 | 43.2 | 59.5 | 4.2 | 10.9 |
| | 18 | 11.1 | 75/63 | 41.5 | 38.8 | 54.4 | 4.3 | 9.7 |
| | | | 80/67 | 44.5 | 40.6 | 57.4 | 4.2 | 10.5 |
| | | | 85/71 | 49.5 | 37.3 | 61.3 | 4.2 | 11.9 |

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GreenSource SM Rev A/B Series - Residential Geothermal Heat Pumps



BOSCH

| SM070 VT Part Load Heating Performance Data - 1800 CFM | | | | | | |
|--|---------------------|------------------------|------------------------|----------------------------|------------------|------|
| Entering Fluid Temp (°F) | Pressure Drop (PSI) | Entering Air Temp (°F) | Total Capacity (MBTUH) | Heat of Absorption (MBTUH) | Power Input (kW) | COP |
| 20 | 4.5 | 60 | 34.6 | 26.2 | 2.7 | 3.80 |
| | | 70 | 33.9 | 24.4 | 3.0 | 3.29 |
| | | 80 | 33.2 | 22.7 | 3.4 | 2.84 |
| | 9.2 | 60 | 35.6 | 27.2 | 2.7 | 3.82 |
| | | 70 | 34.8 | 25.3 | 3.1 | 3.31 |
| | | 80 | 33.9 | 23.5 | 3.5 | 2.85 |
| | 15.3 | 60 | 36.2 | 27.7 | 2.8 | 3.74 |
| | | 70 | 35.2 | 25.7 | 3.2 | 3.24 |
| | | 80 | 34.8 | 23.4 | 3.6 | 2.84 |
| 30 | 4.3 | 60 | 39.8 | 31.5 | 2.7 | 4.28 |
| | | 70 | 39.1 | 29.3 | 3.1 | 3.72 |
| | | 80 | 38.5 | 27.2 | 3.5 | 3.23 |
| | 8.8 | 60 | 41.2 | 32.9 | 2.8 | 4.33 |
| | | 70 | 40.3 | 30.4 | 3.2 | 3.75 |
| | | 80 | 39.5 | 28.5 | 3.6 | 3.25 |
| | 14.6 | 60 | 42.0 | 33.3 | 2.9 | 4.26 |
| | | 70 | 40.9 | 31.3 | 3.3 | 3.69 |
| | | 80 | 40.1 | 28.9 | 3.7 | 3.21 |
| 40 | 4.1 | 60 | 45.7 | 37.1 | 2.8 | 4.80 |
| | | 70 | 44.7 | 34.9 | 3.2 | 4.14 |
| | | 80 | 44.1 | 32.5 | 3.6 | 3.61 |
| | 8.5 | 60 | 47.5 | 38.9 | 2.9 | 4.87 |
| | | 70 | 46.4 | 36.5 | 3.2 | 4.20 |
| | | 80 | 45.4 | 34.2 | 3.6 | 3.65 |
| | 14.1 | 60 | 48.4 | 39.9 | 3.0 | 4.81 |
| | | 70 | 47.3 | 37.4 | 3.3 | 4.16 |
| | | 80 | 46.2 | 35.0 | 3.7 | 3.61 |
| 50 | 4.0 | 60 | 52.5 | 43.2 | 2.9 | 5.33 |
| | | 70 | 51.5 | 40.8 | 3.3 | 4.62 |
| | | 80 | 50.5 | 38.5 | 3.7 | 4.01 |
| | 8.2 | 60 | 54.6 | 45.8 | 3.0 | 5.42 |
| | | 70 | 53.4 | 42.9 | 3.3 | 4.69 |
| | | 80 | 52.3 | 40.5 | 3.8 | 4.07 |
| | 13.5 | 60 | 55.8 | 47.0 | 3.1 | 5.36 |
| | | 70 | 54.5 | 44.1 | 3.4 | 4.65 |
| | | 80 | 53.4 | 41.3 | 3.9 | 4.04 |
| 60 | 3.9 | 60 | 59.9 | 50.7 | 3.0 | 5.88 |
| | | 70 | 58.8 | 47.9 | 3.4 | 5.09 |
| | | 80 | 57.7 | 45.2 | 3.8 | 4.42 |
| | 7.9 | 60 | 62.6 | 53.5 | 3.1 | 6.00 |
| | | 70 | 61.2 | 50.7 | 3.5 | 5.18 |
| | | 80 | 59.9 | 47.5 | 3.9 | 4.50 |
| | 13.1 | 60 | 64.1 | 55.0 | 3.2 | 5.96 |
| | | 70 | 62.5 | 52.1 | 3.6 | 5.15 |
| | | 80 | 61.1 | 48.9 | 4.0 | 4.47 |
| 70 | 3.7 | 60 | 67.4 | 57.9 | 3.1 | 6.45 |
| | | 70 | 66.0 | 55.2 | 3.5 | 5.57 |
| | | 80 | 64.8 | 52.0 | 3.9 | 4.84 |
| | 7.6 | 60 | 70.7 | 61.2 | 3.1 | 6.59 |
| | | 70 | 69.0 | 58.2 | 3.6 | 5.68 |
| | | 80 | 67.4 | 55.1 | 4.0 | 4.92 |
| | 12.7 | 60 | 72.4 | 63.1 | 3.2 | 6.54 |
| | | 70 | 70.6 | 59.9 | 3.7 | 5.65 |
| | | 80 | 68.9 | 56.7 | 4.1 | 4.91 |
| 80 | 3.6 | 60 | 75.3 | 65.5 | 3.2 | 7.00 |
| | | 70 | 73.7 | 62.5 | 3.6 | 6.04 |
| | | 80 | 72.2 | 59.5 | 4.0 | 5.24 |
| | 7.4 | 60 | 79.0 | 69.3 | 3.2 | 7.15 |
| | | 70 | 77.2 | 66.0 | 3.7 | 6.17 |
| | | 80 | 75.4 | 62.7 | 4.1 | 5.35 |
| | 12.3 | 60 | 81.1 | 71.5 | 3.3 | 7.12 |
| | | 70 | 79.0 | 68.0 | 3.8 | 6.15 |
| | | 80 | 77.1 | 64.5 | 4.2 | 5.34 |

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Bosch Thermotechnology Corp.
Londonderry, NH • Watertown, MA • Ft. Lauderdale, FL

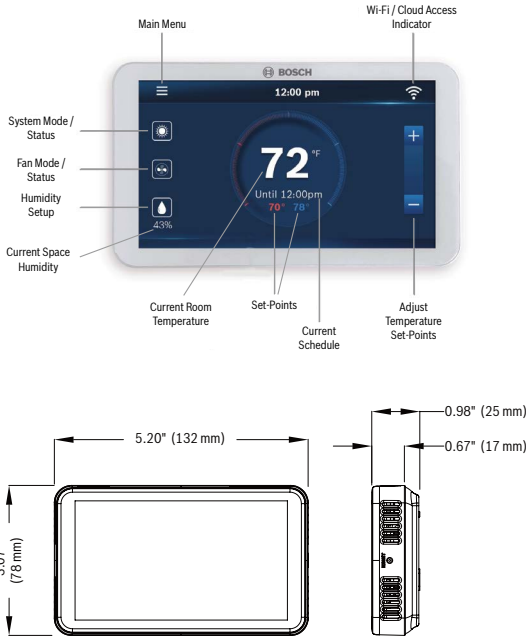


| Antifreeze Correction | | | | | | | |
|-----------------------|--------------|--------------|-----------|-------|---------------|-------|---------------------------------|
| Antifreeze Type | Antifreeze % | Cooling | | | Heating | | WPD Correction Factor EWT 30 °F |
| | | EWT 90 Deg.F | | | EWT 30 Deg. F | | |
| | | Total Cap. | Sens. Cap | Power | Htg. Cap | Power | |
| Water | 0 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| Propylene Glycol | 5 | 0.997 | 0.997 | 1.004 | 0.989 | 0.997 | 1.060 |
| | 10 | 0.994 | 0.994 | 1.006 | 0.986 | 0.995 | 1.125 |
| | 15 | 0.990 | 0.990 | 1.009 | 0.978 | 0.988 | 1.190 |
| | 25 | 0.983 | 0.983 | 1.016 | 0.960 | 0.979 | 1.300 |
| Methanol | 5 | 0.997 | 0.997 | 1.003 | 0.990 | 0.997 | 1.060 |
| | 10 | 0.996 | 0.996 | 1.005 | 0.979 | 0.993 | 1.100 |
| | 15 | 0.994 | 0.994 | 1.008 | 0.970 | 0.990 | 1.140 |
| Ethanol | 5 | 0.998 | 0.998 | 1.002 | 0.981 | 0.994 | 1.160 |
| | 10 | 0.996 | 0.996 | 1.004 | 0.960 | 0.988 | 1.230 |
| | 15 | 0.992 | 0.992 | 1.006 | 0.944 | 0.983 | 1.280 |
| | 25 | 0.986 | 0.986 | 1.009 | 0.917 | 0.974 | 1.400 |
| Ethylene Glycol | 5 | 0.997 | 0.997 | 1.003 | 0.993 | 0.998 | 1.060 |
| | 10 | 0.995 | 0.995 | 1.004 | 0.986 | 0.996 | 1.120 |
| | 15 | 0.992 | 0.992 | 1.005 | 0.980 | 0.993 | 1.190 |
| | 25 | 0.988 | 0.988 | 1.009 | 0.970 | 0.990 | 1.330 |
| | 30 | 0.985 | 0.985 | 1.012 | 0.965 | 0.987 | 1.400 |

| Blower Performance Data | | | | | | | |
|-------------------------|--------------------------------------|--------------------------|-------------------------|-------------------------|---|------------------------|---------------|
| Model | Rated Airflow at default 400 CFM/Ton | Fan Only Ventilation 50% | DeHum Reduction Percent | Effective DeHum Airflow | Most efficient effective Airflow Config SCT | Min Airflow/ton Heater | Static in. WC |
| SM024 Full Load | 800 | 400 | 15.00% | 680 | 800 | 400 | 0-0.8 |
| SM024 Part Load | 704 | 352 | 15.00% | 598 | 704 | 400 | 0-0.8 |
| SM036 Full Load | 1200 | 600 | 15.00% | 1020 | 1350 | 400 | 0-1.2 |
| SM036 Part Load | 1056 | 528 | 15.00% | 898 | 1188 | 400 | 0-1.2 |
| SM048 Full Load | 1600 | 800 | 15.00% | 1360 | 1600 | 400 | 0-1.2 |
| SM048 Part Load | 1408 | 704 | 15.00% | 1197 | 1408 | 400 | 0-1.2 |
| SM060 Full Load | 2000 | 1000 | 15.00% | 1700 | 2050 | 400 | 0-1.2 |
| SM060 Part Load | 1760 | 880 | 15.00% | 1496 | 1804 | 400 | 0-1.2 |
| SM070 Full Load | 2400 | 1200 | 15.00% | 2040 | 2250 | 400 | 0-1.2 |
| SM070 Part Load | 2112 | 1056 | 15.00% | 1795 | 1980 | 400 | 0-1.2 |

i Min CFM/ton in cooling is 270 CFM/ton;
If calculated values fall below this limit, the control will default to this minimum limit.

Field Install Accessory - Bosch Connected Control Wi-Fi Thermostat



| Description | Part Number | Heat | Cool | Humidity |
|----------------------------------|---------------|------|------|----------|
| Bosch Connected Control (BCC100) | 8-733-948-009 | 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 website 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

Field Install Accessory - SmartStart Assist Kit

| Part Number | SM024 | | SM036 | | SM048 | | SM060 | | SM070 | |
|-------------|-------|----|-------|----|-------|----|-------|----|-------|----|
| | VT | HZ | VT | HZ | VT | HZ | VT | HZ | VT | HZ |
| 8733957159 | • | • | • | • | | | | | | |
| 8733957160 | | | | | • | • | • | • | • | • |

Field Install Accessory - Internally Mounted Electric Heat Kits

| Part Number | Kilowatt Heater - 208/230V | Availability per Unit | | | | |
|-------------|------------------------------|-----------------------|-------|-------|-------|-------|
| | | SM024 | SM036 | SM048 | SM060 | SM070 |
| 8733960682 | Electric Heat - 3.6/4.8 kW | • | • | • | • | • |
| 8733960683 | Electric Heat - 7.8/9.6 kW | • | • | • | • | • |
| 8733960684 | Electric Heat - 10.8/14.4 kW | | • | • | • | • |
| 8733960685 | Electric Heat - 14.4/19.2 kW | | | • | • | • |

Field Install Accessory - Pump/Valve Relay Kit

| Part Number | SM024 | | SM036 | | SM048 | | SM060 | | SM070 | |
|-------------|-------|----|-------|----|-------|----|-------|----|-------|----|
| | VT | HZ | VT | HZ | VT | HZ | VT | HZ | VT | HZ |
| 8733951906 | • | • | • | • | • | • | • | • | • | • |



| Field Install Accessory - Duct Mounted Electric Heaters 208/230V | | | | | | | |
|--|------------|------------|------------|------------|-------------|----------------------------------|-----------------------------|
| Nominal BTUH | Order # | | | | Nominal CFM | Duct Flange Connection in Inches | Nominal Dimension in Inches |
| | 5 kW | 10 kW | 15 kW | 20 kW | | | |
| 18000 | 7738002745 | N/A | N/A | N/A | 600 | 13.75 x 13.75 | 14 x 14 |
| 24000 | 7738002746 | 7738002747 | N/A | N/A | 800 | 13.75 x 13.75 | 14 x 14 |
| 30000 | 7738002748 | 7738002749 | N/A | N/A | 1000 | 15.75 x 15.75 | 16 x 16 |
| 36000 | 7738002748 | 7738002749 | N/A | N/A | 1200 | 15.75 x 15.75 | 16 x 16 |
| 42000 | 7738002747 | 7738002751 | 7738002752 | N/A | 1400 | 17.75 x 17.75 | 18 x 18 |
| 48000 | 7738002747 | 7738002751 | 7738002752 | N/A | 1600 | 17.75 x 17.75 | 18 x 18 |
| 60000 | 7738002747 | 7738002751 | 7738002752 | 7738002753 | 2000 | 17.75 x 17.75 | 18 x 18 |
| 70000 | 7738002747 | 7738002751 | 7738002752 | 7738002753 | 2200 | 17.75 x 17.75 | 18 x 18 |

i Duct mounted heaters are only available in single phase 208/230 V. Please refer to Manufacturer's Installation and Operation Manual for proper installation and guidelines. It is recommended to use a seven (7) conductor cables for thermostat interface. It is required for the duct mounted heater to have an independent power supply. In fiberglass duct systems, a metal sleeve **MUST** be used as an insert and support to the heater.

| Field Install Accessory - Swivel Connector Kit (two connectors shipped loose with each unit) | | | | | | | | | | | |
|--|------------------------------------|-------|----|-------|----|-------|----|-------|----|-------|----|
| Order Number | Type and Size | SM024 | | SM036 | | SM048 | | SM060 | | SM070 | |
| | | VT | HZ | VT | HZ | VT | HZ | VT | HZ | VT | HZ |
| 8733927179 | Male 3/4" NPT MPT to 1" swivel FPT | • | | | | | | | | | |
| 8733927180 | Male 1" NPT MPT to 1" swivel FPT | | • | • | • | • | • | • | • | • | • |

i Swivel fittings are used in typical residential installations where water pressure ratings are below 125 psi. For higher pressure ratings which are typical to commercial installations, swivel fittings **MUST NOT** be used.

| Replacement Air Filter Information | | | | | | | | | | |
|--|------------------------|----|-------|----|-------|----|-------|----|-------|----|
| Nominal Filter Size (MERV8 filters recommended MERV13 filters used only with horizontal units) | SM024 | | SM036 | | SM048 | | SM060 | | SM070 | |
| | VT | HZ | VT | HZ | VT | HZ | VT | HZ | VT | HZ |
| | Quantity Need per Unit | | | | | | | | | |
| 16 X 30 X 2 | | | 2 | | 2 | | | | | |
| 18 X 18 X 2 | | 2 | | | | | | | | |
| 18 X 20 X 2 | | | | | | | 3 | | | 3 |
| 20 X 24 X 2 | | | | 2 | | 2 | | | | |
| 20 X 30 X 2 | | | | | | | 2 | | 2 | |
| 24 X 24 X 2 | 1 | | | | | | | | | |



| Field Install Accessory - Stainless Steel Hose Kits | | | | | | |
|---|---------------------------|---|--|--|--|--|
| Options | Option 1 | Option 2 | Option 3** | Option 4**,*** | Option 5**, *** | Option 6**, *** |
| Hose Size (Length, Diameter) | Hoses Only with Swivel | Hose Kit Hoses with Ported Ball Valves, Swivel and One P/T* | Hose Kit with Automatic Flow Valve (AFV)* | Hose kit with AFV, Y-Strainer & Blow Down Valve* | Hose Kit with AFV and Electric Valve* | Hose Kit with AFV, Y-Strainer, BDV and Electric Valve* |
| | Part # | Part # | Part # | Part # | Part # | Part # |
| 12 Inch | | | | | | |
| 1/2" L | T111H02121 | T111H02122 | T111H02123 | T111H02124 | T111H02125 | T111H02126 |
| 24 Inch | | | | | | |
| 3/4" S | T111H03241 | T111H03242 | T111H03243 | T111H03244 | T111H03245 | T111H03246 |
| 1" L | T111H04241 | T111H04242 | T111H04243 | T111H04244 | T111H04245 | T111H04246 |
| 1" S | T111H04241 | T111H04242 | T111H04247 | T111H04248 | T111H04249 | T111H04240 |
| 1 - 1/4" S | T111H05241 | T111H05242 | T111H05243 | T111H05244 | T111H05245 | T111H05246 |
| 1 - 1/2" L | T111H06241 | T111H06242 | T111H06243 | T111H06244 | T111H06245 | T111H06246 |
| 1 - 1/2" S | T111H06241 | T111H06242 | T111H06247 | T111H06248 | T111H06249 | T111H06240 |
| 2" S | T111H08241 | T111H08242 | T111H08243 | T111H08244 | T111H08245 | T111H08246 |
| 36 Inch | | | | | | |
| 3/4" S | T111H03361 | T111H03362 | T111H03363 | T111H03364 | T111H03365 | T111H03366 |
| 1" L | T111H04361 | T111H04362 | T111H04363 | T111H04364 | T111H04365 | T111H04366 |
| 1" S | T111H04361 | T111H04362 | T111H04367 | T111H04368 | T111H04369 | T111H04360 |
| 1 - 1/4" S | T111H05361 | T111H05362 | T111H05363 | T111H05364 | T111H05365 | T111H05366 |
| 1 - 1/2" L | T111H06361 | T111H06362 | T111H06363 | T111H06364 | T111H06365 | T111H06366 |
| 1 - 1/2" S | T111H06361 | T111H06362 | T111H06367 | T111H06368 | T111H06369 | T111H06360 |
| 2" S | T111H08361 | T111H08362 | T111H08363 | T111H08364 | T111H08365 | T111H08366 |

* All Hose Kits include S/R ported ball valves with swivel and P/T port.

** 'L' and 'S' only apply to kit options 3 through 6

*** GMP's are required for hose kits in options 3-6

Hose Kit Flow Rates by Size

Please see Technical Service Bulletin: Heat Pump Hose Kits – Water Flow Rates.
This document is located at www.bosch-climate.us under Support Center > Downloads > Downloads for Bosch Products > Service Bulletins.