



A **NIBE** GROUP MEMBER



RESIDENTIAL TRANQUILITY® 24 (SZ) VERSATILE TWO-STAGE SERIES PRODUCT CATALOG

Part#: RP3000 | Revised: February 21, 2025

Models: SZ 024-060
60Hz - R-454B



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Models:
SZ
024-060

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THE TRANQUILITY® 24 (SZ) VERSATILE TWO-STAGE SERIES

The Tranquility 24 (SZ) Versatile Two-Stage Series showcases superb efficiency ratings, quiet operation, and application flexibility that is synonymous with the ClimateMaster Tranquility family. The Tranquility SZ surpasses ASHRAE 90.1 efficiency standards and utilizes R-454B low Global Warming Potential (GWP) refrigerant, setting a high standard for eco-friendly performance. The SZ is Energy Star certified due to its innovative and environmentally conscious design.

Available in sizes 2 tons (7.0 kW) through 5 tons (17.6 kW) with multiple cabinet options (vertical upflow and horizontal) the Tranquility SZ offers a wide range of units for most any installation. The Tranquility SZ has an extended range refrigerant circuit, capable of ground loop (geothermal) applications as well as open loop applications. Some of the features of the innovative Tranquility SZ series include: ultra-efficient Two-Stage unloading scroll compressor, EC variable fan motor, microprocessor controls, galvanized-steel cabinet construction, corrosive-resistant stainless-steel drain pan, and acoustic-type fiber insulation are just some of the features of the innovative Tranquility SZ Series.

Recent EPA mandates require an industry transition to low-GWP refrigerants, such as R-454B which is a gas that is classified as having low-toxicity, low-flammability rating. Due to these characteristics, R-454B systems charged with over 62 ounces of refrigerant must contain an integrated Refrigerant Detection System (RDS). In the unlikely event of a system-refrigerant leak, the RDS shuts down compressor operation and runs the unit blower motor to disperse any concentration of leaked refrigerant in compliance with UL 60335-2-40 safety standards. For Tranquility SZ products, only the 5 ton size (060) is required to have the RDS and the feature is optional on all other sizes.

ClimateMaster's exclusive double isolation compressor mounting system makes the Tranquility SZ one of the quietest units on the market. Compressors are mounted using specially engineered sound tested EPDM grommets to a heavy gauge mounting plate, which is then isolated from the cabinet base with EPDM grommets to minimize vibration transmission and maximize sound attenuation. Multiple removable access panels and an easily accessible control box make installation and maintenance user friendly. Options such as coated air coil, internal variable speed pump, modulating water valve, and high efficiency MERV rated air filters allow for customizable design solutions.

iGate® 2 technology provides technicians an interface into the operation of the system in real time without the need for hard tooling. On-board advanced controls communicate the key operating system temperatures allowing technicians to startup, commission, and service equipment remotely by smart phone or website interface. Communication can also be established at the unit via an AWC Thermostat or Wireless Service Tool. Not only does iGate 2 monitor current performance, it also allows the functionality to make system adjustments and captures operating conditions at time of fault. The data is presented in a user-friendly format, enhancing the overall usability of the experience.

vFlow® is ClimateMaster's variable water flow technology. It represents a major advancement in water flow system management efficiency. vFlow not only builds major water circulation components into the unit for a clean installation, it also intelligently varies water flow to minimize pump energy consumption and improve system reliability.

The heart of vFlow is either a variable-speed pump or modulating water valve intelligently controlled with DXM2.5 Advanced Communicating Controls. Water flow is automatically varied based on changes in unit capacity level (stage) and source water temperature to maintain optimum system performance. vFlow allows the use of direct return piping, while eliminating external two-way valves and automatic flow regulators, making vFlow systems inherently self-balancing.

vFlow systems provide reduced water pumping power compared to traditional fixed-speed pumping systems. They also protect the unit against extreme operating conditions, thus extending the life of the compressor and air coil. Since vFlow is built inside the unit, it also saves on installation time and makes for a very clean and compact installation. The Tranquility SZ Series water-source heat pumps are designed to meet the challenges of today's HVAC demands with one of the most innovative products available on the market.

FEATURES

- Sizes 024 (2 ton, 7 kW) through 060 (5 tons, 17.6 kW)
- Exceeds ASHRAE 90.1 efficiency standards
- Environmentally-friendly R-454B low-GWP refrigerant
- Refrigerant Detection System (RDS) (mandatory on size 060, optional feature for sizes 024-048)
- Intelligent variable-speed Constant Volume (CV) EC blower motors for precise airflow control and soft-start feature
- Part-load operation significantly lowers annual operating costs
- Galvanized-steel cabinet construction with matte-black polyester powder-coated finish
- Sound-absorbing glass-fiber insulation
- Unique double-isolation compressor mounting with vibration isolation for quieter operation
- Insulated divider and separate compressor/air-handler compartments
- TXV metering device
- Field-convertible supply-air arrangement (horizontal configurations only)
- Unit Performance Sentinel performance-monitoring system
- Eight standard safety features
- Easy-to-clean rust-prohibitive stainless-steel drain pans
- DXM2.5 Advanced Communicating Controls:
 - Multiple communication pathways for unit access and diagnosis:
 - Cloud-based remote monitoring via iGate 2 Communicating (AWC) Thermostat
 - Connect directly to the system with the Wireless Service Tool
 - Provides real-time unit operating conditions
 - Reduces startup, commissioning, and service time by providing key system temperatures electronically
 - Captures operating conditions in the event of a safety shutdown
- Anti-short cycle and over-/under-voltage protection
- Easy-access control box
- High-pressure, loss-of-charge, and condensate-overflow protection
- LED fault and status indication at controller
- Extended-range insulation for geothermal applications
- Tin-plated air coils for added protection from formicary corrosion
- Return-air filter frames and 1-inch Merv 8 filter

OPTIONS

- Corrosion-resistant cupro-nickel water-heat exchanger
- Domestic Hot Water Generator (HWG)
- vFlow unit-integrated variable-speed water pump
- vFlow unit-integrated modulating water valve for maximum water-flow control (replaces traditional motorized water valve and autoflow regulator)
- Factory-installed compressor soft starter to reduce inrush current for more efficient startups
- Integrated power disconnect

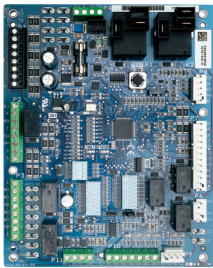
ACCESSORIES

- iGate 2 Communicating (AWC) Thermostat with color touchscreen
- Wide variety of thermostat options to meet your application needs
- Auxiliary electric heaters

iGate 2 Communicating Controls Powered by DXM2.5 Advanced Communicating Controls

Models:
SZ
024-060

iGATE 2 COMMUNICATION – CLOUD CONNECTED, WEB-ENABLED INFORMATION GATEWAY TO MONITOR, CONTROL, AND DIAGNOSE YOUR SYSTEM



The Tranquility SZ is equipped with industry-first, iGate 2 communication information gateway that allows users to interact with their water-source system in easy to read clear language AND delivers improved reliability and efficiency by precisely

controlling smart components.

Monitor/Configure: From the myUplink PRO website, mobile app, AWC Thermostat, or Wireless Service Tool, installers can configure the following: airflow, unit family, size, accessory configuration, and demand reduction (optional, to limit unit operation during peak times). Users can look up the current system status: temperature sensor readings and operational status of the blower.

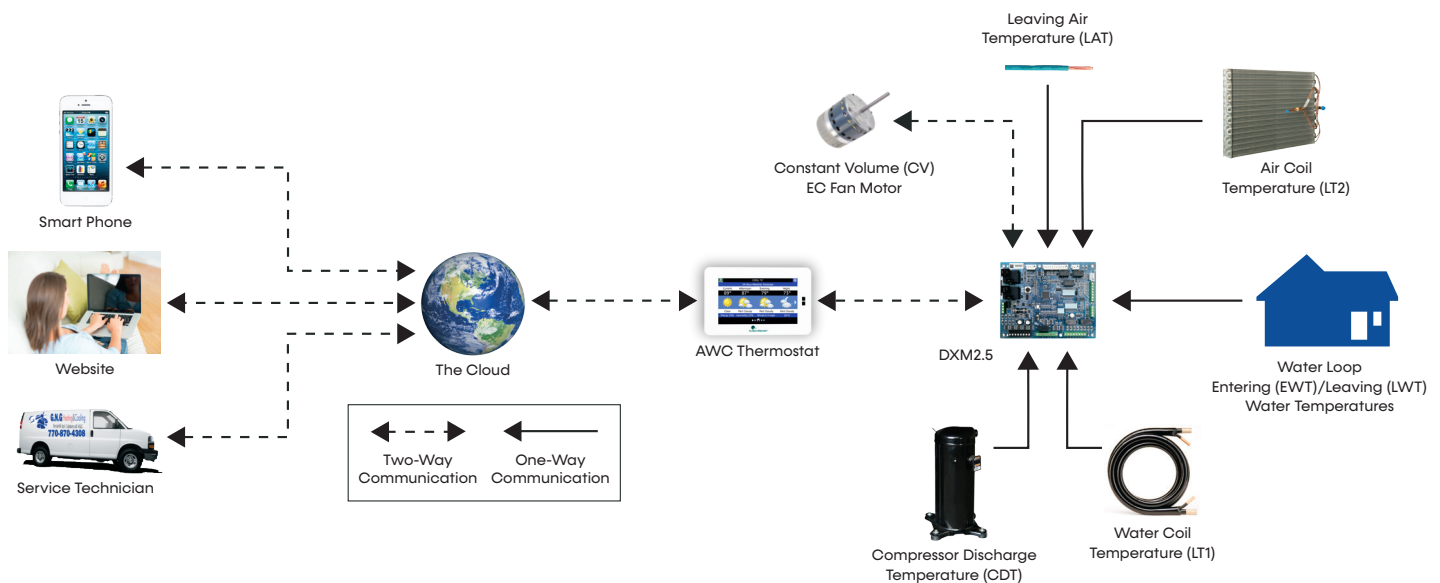
Precise Control: The DXM2.5 enables intelligent, two-way communication between the DXM2.5 and smart components like the AWC Thermostat, Wireless Service Tool, and constant volume CV EC blower motor. DXM2.5 Advanced Communicating Controls uses information received from the smart components and temperature sensors to precisely control operation of the variable speed CV EC fan to deliver higher efficiency, reliability and increased comfort.

Diagnostics: iGate 2 takes diagnosing water-source heat pump units to a next level of simplicity, by providing a dashboard of system and fault information, in clear language, on the AWC Thermostat, Wireless Service Tool, and the web portal/mobile app on the internet.

iGate 2 Service Warnings notify the homeowner and contractor of a fault and displays fault descriptions by app notifications and email with possible causes. Additionally, the current system status can be viewed graphically on the web portal and mobile app.

In iGate 2 Service Mode, the service personnel can access fault description, possible causes and most importantly, the conditions (temp, flow, i/o conditions, configuration) at the time of the fault. Manual Operation mode allows the service personnel to manually command operation for any of the thermostat outputs, blower speed, to help troubleshoot specific components. This operation can either be conducted at the unit with a Wireless Service Tool or remotely with mobile app/website when AWC Thermostat controls are used.

With an iGate 2 communicating system, users and contractors have a web-enabled gateway to system information never before available and exclusive to ClimateMaster products.

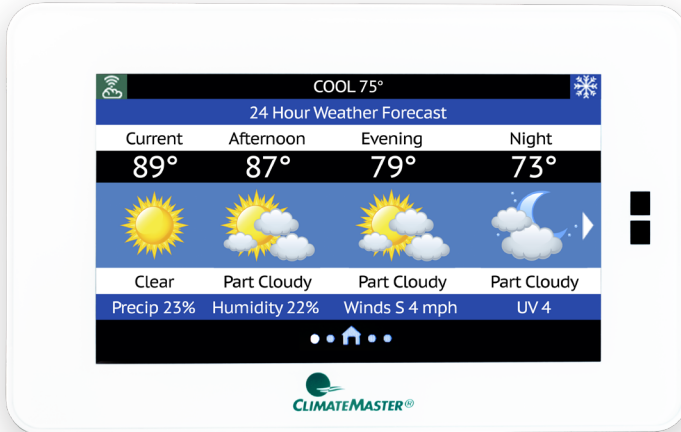


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iGate 2 Communicating (AWC) Thermostat

Models:
SZ
024-060

iGATE 2 COMMUNICATION – CLOUD CONNECTED, WEB-ENABLED INFORMATION GATEWAY TO MONITOR, CONTROL, AND DIAGNOSE YOUR SYSTEM



The iGate 2 Communicating (AWC) Thermostat is innovating the future of comfort technology, one building at a time. The inspired design of the touch screen interface allows you to see real-time data for the efficiency and health of your system, with early warnings for potential system faults. The cloud based information gateway allows technicians to remotely diagnose system issues before occupants even know there is a problem. Control and monitor the system in your home or business from anywhere in the world with an easy to use app on your phone.

Features with Efficiency in Mind



Touchscreen Interface

A brilliantly customizable touchscreen monitor for simple control.



Seamless Integration

Between your AWC Thermostat and comfort system.



(Mobile) Remote System Control

Control temperature and schedule from anywhere in the world.



Early Fault Warnings

Alerts the building owner and the contractor of potential system faults in the future.



Remote Diagnostics

Enable the contractor to remotely diagnose system issues, adjust system settings, and reset faults.



Real-Time Operations Data and System Schematics

Access simply via the myUplink Pro Account and web portal to view system diagrams with current operating temperatures.



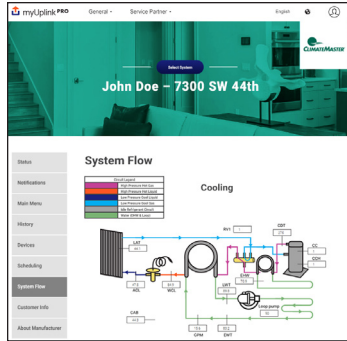
Revenue Stream

HVAC professionals can offer owners service contracts with remote monitoring and diagnostic capabilities without the large expense of a building management system.



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HVAC Professional | User Experience



iGate 2 establishes a two-way link between the AWC Thermostat and the cloud, adding significant value for both residential and commercial customers. Our new thermostat works with your customers' Tranquility comfort systems to

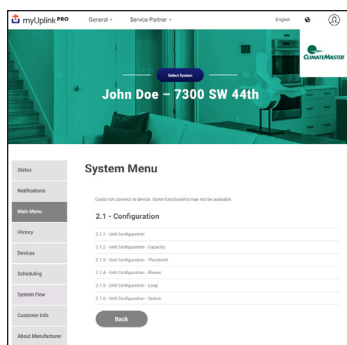
provide the most efficient link between their system and your services. The customizable monitoring from the myUplink PRO web portal or phone app account allows for continuous system monitoring, analysis, repair recognition, and early warnings for potential system faults that are sent to you and your customer.



Benefits

- Remote login from anywhere, anytime from any internet connected device
- View system fault history with possible root causes
- Information is available for contractors to troubleshoot and diagnose systems remotely
- Secure internet connection keeps homeowner information private
- Access thermostat(s) through Android and iPhone mobile apps

Homeowner | User Experience



iGate 2 advanced unit controls enable a two-way communication link for critical system information between the unit and the cloud. From any internet connected device or smart phone, building owners can control and monitor their systems

from anywhere in the world. iGate 2 offers building owners peace of mind their systems are operating at peak performance with advanced operational performance issue notifications. HVAC professionals get notifications when systems are operating out of range. They can log in remotely to check system faults, review current operating conditions, and diagnose issues remotely. This gives the HVAC technician the upper hand when showing up to perform service, saving time which in turn, saves money.



Benefits

- Communicates personal settings and reminders through the iGate 2 communication system
- Easy-to-use, full-color, high-resolution user interface
- Sleek, intuitive control panel
- Secure internet connection keeps your information private
- Contains unit model, serial number and your HVAC professionals contact information
- System monitoring automatically contacts HVAC system providers when service is needed

vFLOW INTERNAL VARIABLE WATER FLOW

Industry-first, Built-in vFlow replaces a traditionally inefficient, external component of the system (water circulation) with an ultra-high-efficient, variable speed, internal water flow system. This saves 70-80% on water circulation compared to traditional single speed pump systems. Multi-unit installations are also much simpler with vFlow systems, as the units automatically adjust water flow across the system.

vFlow is enabled by iGate 2, which facilitates intelligent communication between the thermostat, DXM2.5 Advanced Communicating Controls, sensors, and internal water pump/valve to make true variable water flow a reality.

vFLOW IS AVAILABLE IN FOUR VARIATIONS:

- 1. Low System Pressure Drop Modulating Valve**
The high CV motorized valve is used for a multi-unit or central pumping, closed loop application.
- 2. High System Pressure Drop Modulating Valve**
Motorized valve for higher pressure water systems such as a water well or other open loop applications. A cupro-nickel water coil is standard with this option.
- 3. Standard Head Variable Pump Internal Flow Controller**
Multi-unit or central pumping for a closed loop application. The Internal Flow Controller includes a variable speed pump, flushing ports, 3-way flushing valves, and an expansion tank.
- 4. High Head Variable Pump Internal Flow Controller**
Multi-unit or individual unit for a closed loop application. The Internal Flow Controller includes a variable speed pump, flushing ports, 3-way flushing valves, and an expansion tank.

vFLOW DELIVERS THREE MAIN BENEFITS:

1. Easier and quicker unit installation as the flow control is built in to the unit.
2. Superior reliability by varying the water flow to deliver more stable operation.
3. Increased cost savings by varying the flow (and pump watt consumption) to match the unit's mode of operation.

INTERNAL COMPONENTS

All Tranquility products can be installed more easily and compactly than their predecessors because vFlow components are internal to the unit. They also save installing contractors labor and time by eliminating the need for an external flow regulator or a bulky external pumping module.

VARIABLE FLOW

vFlow technology enables variable water flow through the unit, with the DXM2.5 adjusting the pump speed to maintain an installer-set loop ΔT . By controlling the water flow, the system is able to operate at its optimal capacity and efficiency. vFlow provides a lower flow rate for part load where units typically operate 80% of the time and a higher, more normal flow rate for full load operation.

Variable speed pump or motorized modulating valve delivers variable water-flow, controlled by DXM2.5, based on loop water ΔT .

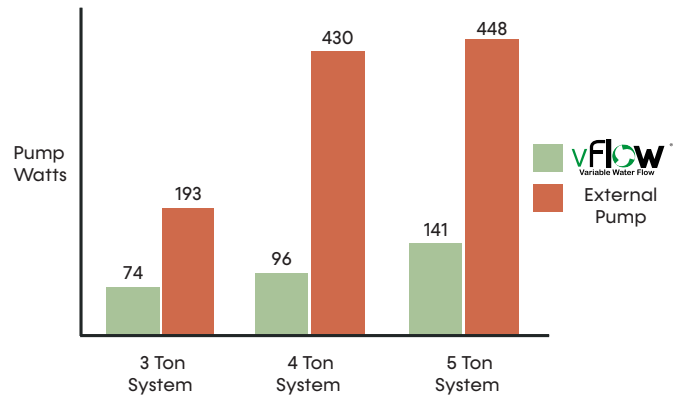


ENERGY SAVINGS WITH WATER CIRCULATION CONTROL

Units with vFlow deliver greater operating cost savings by varying the water flow to match the unit's operation (ex: lower water flow when unit is in part load operation). Lowering the flow results in lower energy consumption by the water pump and cost savings in vFlow units (whether internal or external pump).

In applications using vFlow with internal variable speed electronically commuted (EC) pump, the EC pump uses fewer watts than a fixed speed (PSC) pump even at full load. The EC pump excels in energy savings in part load, saving 70-80% watts compared to fixed speed pumps (see chart). The EC pump can operate with independent flow rates for both heating and cooling operations allowing for more energy savings.

In loop applications, when the motorized modulating valve slows down the water flow during part load operation, the external pump consumes fewer watts, thus saving more energy.



Reference Calculations

| Heating | Cooling |
|---|--|
| $LWT = EWT - \frac{HE}{GPM \times \text{Constant}}$ | $LWT = EWT + \frac{HR}{GPM \times \text{Constant}} \quad LC = TC - SC$ |
| $LAT = EAT + \frac{HC}{CFM \times 1.08}$ | $LAT (DB) = EAT (DB) - \frac{SC}{CFM \times 1.08} \quad S/T = \frac{SC}{TC}$ |

Constant = 500 for water, 485 for antifreeze

Conversion Table - to convert inch-pound (English) to S-I (Metric)

| Airflow | Water Flow | External Static Pressure | Water Pressure Drop |
|-----------------------------|---------------------------------|---------------------------------|---------------------------------|
| Airflow (L/s) = CFM x 0.472 | Water Flow (L/s) = GPM x 0.0631 | ESP (Pa) = ESP (in of wg) x 249 | PD (kPa) = PD (ft of hd) x 2.99 |

Legend and Glossary of Abbreviations

| Abbreviations | Descriptions |
|---------------|--|
| Btuh | Btu (British Thermal Unit) per hour |
| BMS | Building Management System |
| CDT | Compressor discharge temperature |
| CFM | Airflow, cubic feet per minute |
| COP | Coefficient of performance = Btuh output/Btuh input |
| CT EC | Electronically commutated constant torque blower motor |
| CV EC | Electronically commutated constant volume blower motor |
| DB | Dry bulb temperature, °F |
| DT | Delta T |
| EAT | Entering air temperature |
| EER | Energy efficient ratio = Btuh output/Watt input |
| ESP | External static pressure, inches w.g. |
| EWT | Entering water temperature |
| FPT | Female pipe thread |
| GPM | Water flow in U.S., gallons per minute |
| HC | Air heating capacity, Btuh |
| HE | Total heat of extraction, Btuh |
| HGRH | Hot Gas Reheat |

| Abbreviations | Descriptions |
|---------------|---|
| HR | Total heat of rejection, Btuh |
| HWG | Hot water generator (desuperheater) capacity, MBtuh |
| kW | Total power unit input, kilowatts |
| LAT | Leaving air temperature, °F |
| LC | Latent cooling capacity, Btuh |
| LOC | Loss of charge |
| LWT | Leaving water temperature, °F |
| MBtuh | 1,000 Btu per hour |
| MPT | Male pipe thread |
| MWV | Motorized water valve |
| PSC | Permanent split capacitor |
| RDS | Refrigerant Detection System |
| SC | Sensible cooling capacity, Btuh |
| S/T | Sensible to total cooling ratio |
| TC | Total cooling capacity, Btuh |
| TD or delta T | Temperature differential |
| VFD | Variable frequency drive |
| WB | Wet bulb temperature, °F |
| WPD | Waterside pressure drop, psi or feet of head |
| WSE | Waterside economizer |

USE THE FOLLOWING SELECTION STEPS

1. Determine the actual heating and cooling loads at the desired dry bulb and wet bulb conditions.
2. Obtain the following design parameters: Entering water temperature, water flow rate in GPM, airflow in CFM, water flow pressure drop and design wet and dry bulb temperatures. Airflow CFM should be between 300 and 450 CFM per ton. Unit water pressure drop should be kept as close as possible to each other to make water balancing easier. Go to the appropriate tables and find the proper indicated water flow and water temperature.
3. Select a unit based on total and sensible cooling conditions. Select a unit which is closest to, but no larger than, the actual cooling load.
4. Enter tables at the design water flow and water temperature. Read the total and sensible cooling capacities

Note: interpolation is permissible, extrapolation is not.

5. Read the heating capacity. If it exceeds the design criteria it is acceptable. It is quite normal for water-source heat pumps to be selected on cooling capacity only since the heating output is usually greater than the cooling capacity.
6. Determine the correction factors associated with the variable factors of dry bulb and wet bulb.

Corrected Total Cooling =
tabulated total cooling x wet bulb correction.

Corrected Sensible Cooling =
tabulated sensible cooling x wet/dry bulb correction.

7. Compare the corrected capacities to the load requirements. Normally if the capacities are within 10% of the loads, the equipment is acceptable. It is better to undersize than oversize, as undersizing improves humidity control, reduces sound levels and extends the life of the equipment.
8. When completed, calculate water temperature rise and assess the selection. If the units selected are not within 10% of the load calculations, then review what effect changing the GPM, water temperature and/or air flow and air temperature would have on the corrected capacities. If the desired capacity cannot be achieved, select the next larger or smaller unit and repeat the procedure. Remember, when in doubt, undersize slightly for best performance.

EXAMPLE EQUIPMENT SELECTION FOR COOLING

Step 1: Load Determination

Assume we have determined that the appropriate cooling load at the desired dry bulb 80°F and wet bulb 65°F conditions is as follows:

Total Cooling 22,000 Btuh
Sensible Cooling 18,200 Btuh
Entering Air Temp..... 80°F Dry Bulb / 65°F Wet Bulb

Step 2: Design Conditions

Similarly, we have also obtained the following design parameters:

Entering Water Temp 90°F
Water Flow (Based upon 10°F rise in temp) .4.5 GPM
Airflow 600 CFM

Steps 3, 4, and 5: HP Selection

After making our preliminary selection (SZ024), we enter the tables at design water flow and water temperature and read Total Cooling, Sensible Cooling and Heat of Rejection capacities:

Total Cooling 22,500 Btuh
Sensible Cooling 16,500 Btuh
Heat of Rejection 28,800 Btuh

Steps 6 and 7: Entering Airflow Corrections

Next, we determine our correction factors.

| Corrected Values | Table | Ent Air | Airflow | Corrected |
|-----------------------------|------------|---------|---------|-----------|
| Corrected Total Cooling | = 22,500 x | 0.976 | x 0.967 | = 21,235 |
| Corrected Sensible Cooling | = 16,500 x | 0.919 | x 1.089 | = 16,513 |
| Corrected Heat of Rejection | = 28,800 x | 0.969 | x 0.972 | = 27,126 |

Step 8: Water Temperature Rise Calculation and Assessment

Actual Temperature Rise 12.1°F

When we compare the Corrected Total Cooling and Corrected Sensible Cooling figures with our load requirements stated in Step 1, we discover that our selection is within ±10% of our sensible load requirement. Furthermore, we see that our Corrected Total Cooling figure is within 1,000 Btuh the actual indicated load.

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Model Nomenclature

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15
| S | Z | L | O | 2 | 4 | A | G | D | R | O | R | O | V | S |

MODEL

S = R-454B Refrigerant

MODEL TYPE

Z = Versatile Two-Stage Series

SUPPLY & RETURN CONFIGURATIONS

Horizontal Configuration

| | Left | Right |
|----------|------|-------|
| Straight | L | R |
| Back | B | P |

Vertical Configuration

| | Left | Right |
|-----|------|-------|
| Top | T | K |

SIZE

| | |
|-----|-----|
| 024 | 042 |
| 030 | 048 |
| 036 | 060 |

REVISION

A = Current

VOLTAGE¹

G = 208/230-1-60 J = 208/230-1-60 Refrigerant Detection System

CONTROLS

| Control | Standard | Soft Start |
|------------------------|----------|------------|
| DXM2.5 | D | 4 |
| DXM2.5 with Disconnect | B | - |

CABINET

R = Residential

STANDARD

S = Standard

BLOWER MOTOR

V = Constant Volume (CV) EC

EXTENDED OPTIONS

O = Standard

P = HWG and Pump

DRAIN PAN/HEAT EXCHANGER OPTIONS

R = Stainless Steel Drain Pan,
Tin-Coated Air Coil

WATER/HEAT EXCHANGER OPTIONS³

| Water Option | Standard | Cupro-Nickel |
|--|----------|--------------|
| None | 0 | Z |
| MOD Valve, Low System Pressure Drop | C | - |
| MOD Valve, High System Pressure Drop | - | P |
| Internal Flow Controller Standard Head with Check Valve ² | 1 | - |
| Internal Flow Controller Standard Head w/o Check Valve ² | G | |
| Internal Flow Controller High Head with Check Valve | 2 | |
| Internal Flow Controller High Head w/o Check Valve | H | |

NOTES:

- SZ size 060 requires J voltage.
- Available with sizes 024-036.
- All Open Loop vFlow Water Circuit Options require a Cupro-Nickel Heat Exchanger. All Closed Loop vFlow Water Circuit Options require a Standard Heat Exchanger. If no Water Circuit Option is selected, then the Heat Exchanger can be either Standard or Cupro-Nickel.

Performance Data: AHRI/ASHRAE/ISO 13256-1

Models:
SZ
024-060

ASHRAE/AHRI/ISO 13256-1 English (I-P) Units Part Load

| Model | Motor Type | WSHP (Part Load) | | | | | | | | | | | |
|-------|------------|----------------------|------------|---------------|-----|------------------------|------------|---------------|-----|-----------------------|------------|---------------|-----|
| | | Water Loop Heat Pump | | | | Ground Water Heat Pump | | | | Ground Loop Heat Pump | | | |
| | | Cooling 86°F | | Heating 68°F | | Cooling 59°F | | Heating 50°F | | Cooling 68°F | | Heating 41°F | |
| | | Capacity Btuh | EER Btuh/W | Capacity Btuh | COP | Capacity Btuh | EER Btuh/W | Capacity Btuh | COP | Capacity Btuh | EER Btuh/W | Capacity Btuh | COP |
| SZ024 | EC | 17,500 | 17.0 | 19,900 | 5.7 | 20,000 | 29.7 | 16,600 | 4.8 | 19,300 | 25.3 | 14,600 | 4.2 |
| SZ030 | EC | 21,200 | 15.2 | 24,400 | 5.1 | 24,700 | 26.4 | 20,800 | 4.4 | 23,400 | 22.0 | 18,700 | 4.0 |
| SZ036 | EC | 26,100 | 16.1 | 31,600 | 5.3 | 29,900 | 26.0 | 25,700 | 4.4 | 28,500 | 22.6 | 22,600 | 4.1 |
| SZ042 | EC | 32,500 | 17.0 | 36,000 | 5.1 | 36,000 | 28.5 | 29,800 | 4.5 | 35,000 | 23.5 | 26,400 | 4.0 |
| SZ048 | EC | 34,000 | 16.5 | 39,000 | 5.5 | 38,500 | 28.5 | 31,800 | 4.5 | 37,000 | 24.0 | 28,000 | 4.0 |
| SZ060 | EC | 42,000 | 17.5 | 47,300 | 5.5 | 47,000 | 29.0 | 38,500 | 4.7 | 45,500 | 24.9 | 34,000 | 4.2 |

Notes:

- Where dual voltages are available ratings are based on the lower voltage setting.
- Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature.
- Heating capacities based upon 68°F DB, 59°F WB entering air temperature.
- Ground Loop Heat Pump ratings based on 15% antifreeze solution.

ASHRAE/AHRI/ISO 13256-1 English (I-P) Units Full Load

| Model | Motor Type | WSHP (Full Load) | | | | | | | | | | | |
|-------|------------|----------------------|------------|---------------|-----|------------------------|------------|---------------|-----|-----------------------|------------|-------------------|-----|
| | | Water Loop Heat Pump | | | | Ground Water Heat Pump | | | | Ground Loop Heat Pump | | | |
| | | Cooling 86°F | | Heating 68°F | | Cooling 59°F | | Heating 50°F | | Full Cooling 77°F | | Full Heating 32°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 |
| SZ024 | EC | 24,000 | 15.1 | 28,400 | 5.3 | 27,000 | 24.1 | 23,500 | 4.7 | 25,000 | 18.0 | 18,400 | 3.9 |
| SZ030 | EC | 28,700 | 14.0 | 33,200 | 4.6 | 32,900 | 21.7 | 28,700 | 4.1 | 30,200 | 16.3 | 23,200 | 3.6 |
| SZ036 | EC | 35,000 | 14.0 | 44,200 | 4.6 | 39,300 | 20.2 | 36,300 | 4.2 | 36,400 | 16.4 | 28,600 | 3.6 |
| SZ042 | EC | 43,000 | 15.5 | 49,500 | 4.7 | 47,500 | 22.8 | 41,000 | 4.2 | 44,500 | 17.3 | 32,500 | 3.5 |
| SZ048 | EC | 47,500 | 15.5 | 55,000 | 4.8 | 52,000 | 22.9 | 45,000 | 4.3 | 49,000 | 17.7 | 36,000 | 3.7 |
| SZ060 | EC | 59,000 | 15.5 | 67,200 | 5.0 | 65,000 | 22.8 | 55,700 | 4.4 | 61,500 | 17.8 | 44,600 | 3.7 |

Notes:

- Where dual voltages are available ratings are based on the lower voltage setting.
- Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature.
- Heating capacities based upon 68°F DB, 59°F WB entering air temperature.
- Ground Loop Heat Pump ratings based on 15% antifreeze solution.

Performance Data: AHRI/ASHRAE/ISO 13256-1

Models:
SZ
024-060

ASHRAE/AHRI/ISO 13256-1 Metric (S-I) Units Part Load

| Model | Motor Type | WSHP (Part Load) | | | | | | | | | | | |
|-------|------------|----------------------|---------|--------------|-----|------------------------|---------|--------------|-----|-----------------------|---------|-------------|-----|
| | | Water Loop Heat Pump | | | | Ground Water Heat Pump | | | | Ground Loop Heat Pump | | | |
| | | Cooling 30°C | | Heating 20°C | | Cooling 15°C | | Heating 10°C | | Cooling 25°F | | Heating 0°F | |
| | | Capacity kW | EER W/W | Capacity kW | COP | Capacity kW | EER W/W | Capacity kW | COP | Capacity kW | EER W/W | Capacity kW | COP |
| SZ024 | EC | 5 | 5.0 | 6 | 5.7 | 6 | 8.7 | 5 | 4.8 | 6 | 7.4 | 4 | 4.2 |
| SZ030 | EC | 6 | 4.5 | 7 | 5.1 | 7 | 7.7 | 6 | 4.4 | 7 | 6.5 | 5 | 4.0 |
| SZ036 | EC | 8 | 4.7 | 9 | 5.3 | 9 | 7.6 | 8 | 4.4 | 8 | 6.6 | 7 | 4.1 |
| SZ042 | EC | 10 | 5.0 | 11 | 5.1 | 11 | 8.4 | 9 | 4.5 | 10 | 6.9 | 8 | 4.0 |
| SZ048 | EC | 10 | 4.8 | 11 | 5.5 | 11 | 8.4 | 9 | 4.5 | 11 | 7.0 | 8 | 4.0 |
| SZ060 | EC | 12 | 5.1 | 14 | 5.5 | 14 | 8.5 | 11 | 4.7 | 13 | 7.3 | 10 | 4.2 |

Notes:

- Where dual voltages are available ratings are based on the lower voltage setting.
- Cooling capacities based upon 20°C DB, 15°C WB entering air temperature.
- Heating capacities based upon 20°C DB, 15°C WB entering air temperature.
- Ground Loop Heat Pump ratings based on 15% antifreeze solution.

ASHRAE/AHRI/ISO 13256-1 Metric (S-I) Units Full Load

| Model | Motor Type | WSHP (Full Load) | | | | | | | | | | | |
|-------|------------|----------------------|---------|--------------|-----|------------------------|---------|---------------|-----|-----------------------|---------|------------------|-----|
| | | Water Loop Heat Pump | | | | Ground Water Heat Pump | | | | Ground Loop Heat Pump | | | |
| | | Cooling 30°C | | Heating 30°C | | Cooling 15°C | | Heating 10°C | | Full Cooling 25°F | | Full Heating 0°F | |
| | | Capacity kW | EER W/W | Capacity kW | COP | Capacity kW | EER W/W | Capacity Btuh | COP | Capacity kW | EER W/W | Capacity kW | COP |
| SZ024 | EC | 7 | 4.4 | 8 | 5.3 | 8 | 7.1 | 7 | 4.7 | 7 | 5.3 | 5 | 3.9 |
| SZ030 | EC | 8 | 4.1 | 10 | 4.6 | 10 | 6.4 | 8 | 4.1 | 9 | 4.8 | 7 | 3.6 |
| SZ036 | EC | 10 | 4.1 | 13 | 4.6 | 12 | 5.9 | 11 | 4.2 | 11 | 4.8 | 8 | 3.6 |
| SZ042 | EC | 13 | 4.5 | 15 | 4.7 | 14 | 6.7 | 12 | 4.2 | 13 | 5.1 | 10 | 3.5 |
| SZ048 | EC | 14 | 4.5 | 16 | 4.8 | 15 | 6.7 | 13 | 4.3 | 14 | 5.2 | 11 | 3.7 |
| SZ060 | EC | 17 | 4.5 | 20 | 5.0 | 19 | 6.7 | 16 | 4.4 | 18 | 5.2 | 13 | 3.7 |

Notes:

- Where dual voltages are available ratings are based on the lower voltage setting.
- Cooling capacities based upon 27°C DB, 19°C WB entering air temperature.
- Heating capacities based upon 20°C DB, 15°C WB entering air temperature.
- Ground Loop Heat Pump ratings based on 15% antifreeze solution.

Performance Data: Selection Notes

Models:
SZ
024-060

For operation in the shaded area when water is used instead of an antifreeze solution, the LWT (Leaving Water Temperature) must be calculated. Flow must be maintained to a level such that the LWT is maintained above 40°F (4.4°C) when the JW3 jumper is not clipped (see example below). Otherwise, appropriate levels of a proper antifreeze solution should be used in systems with leaving water temperatures of 40°F (4.4°C) or below and the JW3 jumper should be clipped. This is due to the potential of the refrigerant temperature being as low as 32°F (0°C) with 40°F (4.4°C) LWT, which may lead to a nuisance cutout due to the activation of the Low Temperature Protection. JW3 should never be clipped for standard-range equipment or systems without antifreeze.

Example:

At 50°F EWT (Entering Water Temperature) and 1.5 GPM/ton, a 3-ton unit has a HE of 22,500 Btuh. To calculate LWT, rearrange the formula for HE as follows:

$HE = TD \times GPM \times 500$, where HE = Heat of Extraction (Btuh); TD = temperature difference (EWT - LWT) and GPM = U.S. Gallons per Minute.

$$TD = HE / (GPM \times 500)$$

$$TD = 22,500 / (1.5 \times 500)$$

$$TD = 10^\circ F$$

$$LWT = EWT - TD$$

$$LWT = 50 - 10 = 40^\circ F$$

In this example, as long as the EWT does not fall below 50°F, the system will operate as designed. For EWTs below 50°F, higher flow rates will be required (open loop systems, for example, require at least 2 GPM/ton when EWT is below 50°F).

| | | Heating - EAT 70°F | | | | |
|-----------------|------|--------------------|----------|-----|-------|-----|
| | EER | HC | Power kW | HE | LAT | COP |
| Not Recommended | | | | | | |
| | | 4.0 | 0.45 | 2.5 | 84.6 | 2.6 |
| 8.6 | 27.4 | 4.6 | 0.46 | 3.0 | 86.8 | 2.9 |
| 8.6 | 31.0 | 4.8 | 0.47 | 3.2 | 87.8 | 3.0 |
| 8.6 | 33.0 | 4.9 | 0.47 | 3.3 | 88.3 | 3.1 |
| 8.4 | 23.3 | 5.4 | 0.48 | 3.8 | 90.2 | 3.3 |
| 8.5 | 26.3 | 5.7 | 0.49 | 4.0 | 91.4 | 3.4 |
| 8.6 | 27.9 | 5.9 | 0.49 | 4.2 | 92.1 | 3.5 |
| 8.2 | 19.8 | 6.2 | 0.50 | 4.5 | 93.6 | 3.7 |
| 4 | 22.3 | 6.6 | 0.50 | 4.9 | 95.0 | 3.8 |
| | 23.7 | 6.8 | 0.51 | 5.0 | 95.8 | 3.9 |
| | 16.7 | 7.0 | 0.51 | 5.3 | 96.9 | 4.0 |
| | 18.8 | 7.4 | 0.52 | 5.6 | 98.5 | 4.1 |
| | | 7.6 | 0.52 | 5.8 | 99.3 | 4.2 |
| | | | 0.53 | 6.0 | 100.0 | 4.3 |

Performance Data SZ*024 EC Blower Motor (Part Load)

Models:
SZ
024-060

600 CFM Rated Airflow

| EWT °F | GPM | WPD | | COOLING - EAT 80/67°F | | | | | | | GPM | WPD | | HEATING - EAT 70°F | | | | | | | | | | | | | | |
|-----------|---------------------------|-----|-----|-----------------------|------|------|------|------|-------|------------|-----|-----|-----|--------------------|------|------|-----|------|------------|-----|-----|-----|------|------|------|------|-------|-----|
| | | PSI | FT | TC | SC | kW | HR | EER | LWT | HWG Cap | | PSI | FT | HC | kW | HE | COP | LWT | HWG Cap | | | | | | | | | |
| 20 | Operation Not Recommended | | | | | | | | | | 4.3 | 2.6 | 5.9 | 10.7 | 1.10 | 6.8 | 2.8 | 16.9 | 1.4 | | | | | | | | | |
| 30 | 1.6 | 0.5 | 1.1 | 21.2 | 15.3 | 0.65 | 23.4 | 32.6 | 60.0 | 0.4 | 2.2 | 0.8 | 1.9 | 12.2 | 1.11 | 8.2 | 3.2 | 22.5 | 1.5 | | | | | | | | | |
| | | | | | | | | | | | 3.2 | 1.4 | 3.3 | 12.7 | 1.12 | 8.7 | 3.3 | 24.6 | 1.5 | | | | | | | | | |
| | | | | | | | | | | | 4.3 | 2.1 | 4.7 | 13.0 | 1.12 | 9.0 | 3.4 | 25.8 | 1.6 | | | | | | | | | |
| 40 | 2.3 | 0.7 | 1.6 | 20.6 | 14.9 | 0.67 | 22.9 | 30.6 | 60.0 | 0.4 | 2.2 | 0.6 | 1.5 | 14.2 | 1.12 | 10.2 | 3.7 | 30.7 | 1.6 | | | | | | | | | |
| | | | | | | | | | | | 3.2 | 1.1 | 2.6 | 14.8 | 1.13 | 10.8 | 3.9 | 33.2 | 1.7 | | | | | | | | | |
| | | | | | | | | | | | 4.3 | 1.7 | 3.9 | 15.2 | 1.13 | 11.2 | 3.9 | 34.8 | 1.7 | | | | | | | | | |
| 50 | 2.2 | 0.5 | 1.1 | 20.2 | 14.9 | 0.76 | 22.9 | 26.5 | 70.8 | 0.6 | 2.2 | 0.5 | 1.1 | 16.2 | 1.14 | 12.2 | 4.2 | 38.9 | 1.8 | | | | | | | | | |
| | | | | | | | | | | | 3.2 | 0.9 | 2.1 | 16.9 | 1.14 | 12.9 | 4.4 | 41.9 | 1.8 | | | | | | | | | |
| | | | | | | | | | | | 4.3 | 1.4 | 3.3 | 17.4 | 1.14 | 13.3 | 4.5 | 43.8 | 1.9 | | | | | | | | | |
| 60 | 2.2 | 0.4 | 1.0 | 19.5 | 14.6 | 0.89 | 22.6 | 22.0 | 80.6 | 1.0 | 2.2 | 0.4 | 1.0 | 18.2 | 1.15 | 14.1 | 4.6 | 47.2 | 2.0 | | | | | | | | | |
| | | | | | | | | | | | 3.2 | 0.8 | 1.8 | 19.0 | 1.15 | 14.9 | 4.8 | 50.7 | 2.0 | | | | | | | | | |
| | | | | | | | | | | | 4.3 | 1.3 | 2.9 | 19.5 | 1.16 | 15.4 | 4.9 | 52.9 | 2.1 | | | | | | | | | |
| 70 | 2.2 | 0.4 | 0.9 | 18.5 | 14.2 | 1.03 | 22.1 | 18.0 | 90.1 | 1.5 | 2.2 | 0.4 | 0.9 | 20.1 | 1.16 | 15.9 | 5.1 | 55.5 | 2.2 | | | | | | | | | |
| | | | | | | | | | | | 3.2 | 0.7 | 1.7 | 20.9 | 1.16 | 16.8 | 5.3 | 59.5 | 2.2 | | | | | | | | | |
| | | | | | | | | | | | 4.3 | 1.2 | 2.7 | 21.5 | 1.17 | 17.3 | 5.4 | 61.9 | 2.3 | | | | | | | | | |
| 80 | 2.2 | 0.4 | 0.8 | 17.4 | 13.6 | 1.18 | 21.6 | 14.7 | 99.6 | 2.0 | 2.2 | 0.4 | 0.8 | 21.9 | 1.17 | 17.7 | 5.5 | 63.9 | 2.4 | | | | | | | | | |
| | | | | | | | | | | | 3.2 | 0.7 | 1.6 | 22.8 | 1.17 | 18.6 | 5.7 | 68.4 | 2.4 | | | | | | | | | |
| | | | | | | | | | | | 4.3 | 1.1 | 2.6 | 23.4 | 1.18 | 19.2 | 5.8 | 71.1 | 2.5 | | | | | | | | | |
| 90 | 2.2 | 0.3 | 0.8 | 16.1 | 13.0 | 1.35 | 20.9 | 12.0 | 109.0 | 2.7 | 1.9 | 0.2 | 0.5 | 23.2 | 1.23 | 19.0 | 5.5 | 70.0 | 2.6 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 3.2 | 0.7 | 1.5 | 16.9 | 1.25 | 21.3 | 13.6 | 103.3 | 2.5 |
| | | | | | | | | | | | | | | | | | | | | 4.3 | 1.1 | 2.6 | 17.3 | 1.19 | 21.5 | 14.6 | 100.0 | 3.8 |
| 100 | 2.2 | 0.3 | 0.8 | 15.0 | 12.4 | 1.53 | 20.4 | 9.8 | 118.5 | 3.5 | 1.3 | 0.1 | 0.2 | 23.2 | 1.23 | 19.0 | 5.5 | 70.0 | 2.6 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 3.2 | 0.6 | 1.5 | 15.6 | 1.42 | 20.7 | 11.0 | 112.9 | 3.2 |
| | | | | | | | | | | | | | | | | | | | | 4.3 | 1.1 | 2.5 | 16.1 | 1.36 | 20.9 | 11.8 | 109.7 | 4.8 |
| 110 | 2.2 | 0.3 | 0.7 | 13.9 | 12.0 | 1.73 | 20.0 | 8.0 | 128.2 | 4.4 | 0.9 | 0.1 | 0.2 | 23.2 | 1.23 | 19.0 | 5.5 | 70.0 | 2.6 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 3.2 | 0.6 | 1.4 | 14.5 | 1.62 | 20.2 | 9.0 | 122.6 | 4.0 |
| | | | | | | | | | | | | | | | | | | | | 4.3 | 1.0 | 2.3 | 14.8 | 1.55 | 20.4 | 9.6 | 119.5 | 5.9 |
| 120 | 2.2 | 0.2 | 0.5 | 13.0 | 11.7 | 1.95 | 19.9 | 6.7 | 138.1 | 5.4 | 0.8 | 0.1 | 0.2 | 23.2 | 1.23 | 19.0 | 5.5 | 70.0 | 2.6 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 3.2 | 0.5 | 1.1 | 13.4 | 1.83 | 19.9 | 7.4 | 132.5 | 4.9 |
| | | | | | | | | | | | | | | | | | | | | 4.3 | 0.9 | 2.0 | 13.8 | 1.76 | 20.0 | 7.8 | 129.3 | 4.9 |

- Interpolation is permissible; extrapolation is not.
- All entering air conditions are 80°F (26.6°C) DB and 67°F (19.4°C) WB in cooling, and 70°F (21°C) DB in heating.
- AHRI/ISO certified conditions are 80.6°F (27°C) DB and 66.2°F (19°C) WB in cooling and 68°F (20°C) DB in heating.
- Table does not reflect fan or pump power corrections for AHRI/ISO conditions.
- All performance is based upon the lower voltage of dual voltage rated units.
- Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.
- Operation below 40°F (10.0°C) EWT is based upon 20% methanol antifreeze solution.
- Operation below 60°F (15.5°C) EWT requires optional insulated water/refrigerant circuit.
- See performance correction tables for operating conditions other than those listed above.
- See Performance Data Selection Notes for operation in the shaded areas.
- Regular Cooling operation with an EWT of less than 50°F (10.0°C) is not recommended unless variable water flow is available.
- Regular Heating operation with an EWT of more than 90°F (32°C) is not recommended unless variable water flow is available.
- For quiet operation and long term reliability, it is recommended that systems be designed to avoid continuous operation in the outlined areas.
- Performance capacities shown in thousands of Btuh
- Hot Water Generator Capacity is based on 90°F entering water and 0.5 GPM/Ton.

Performance Data SZ*024 EC Blower Motor (Full Load)

Models:
SZ
024-060

800 CFM Rated Airflow

| EWT °F | GPM | WPD | | COOLING - EAT 80/67°F | | | | | | | GPM | WPD | | HEATING - EAT 70°F | | | | | |
|-----------|---------------------------|-----|-----|-----------------------|------|------|------|------|-------|------------|-----|-----|------|--------------------|------|------|-----|------|------------|
| | | PSI | FT | TC | SC | kW | HR | EER | LWT | HWG Cap | | PSI | FT | HC | kW | HE | COP | LWT | HWG Cap |
| 20 | Operation Not Recommended | | | | | | | | | | 6.0 | 4.4 | 10.1 | 15.7 | 1.45 | 10.5 | 3.2 | 16.5 | 1.9 |
| 30 | 2.1 | 0.7 | 1.7 | 28.1 | 20.1 | 1.16 | 32.1 | 24.2 | 60.0 | 1.2 | 3.0 | 1.3 | 3.1 | 17.4 | 1.48 | 12.1 | 3.4 | 21.9 | 2.0 |
| | | | | | | | | | | | 4.5 | 2.4 | 5.6 | 18.2 | 1.49 | 12.9 | 3.6 | 24.3 | 2.1 |
| | | | | | | | | | | | 6.0 | 3.5 | 8.1 | 18.6 | 1.50 | 13.3 | 3.6 | 25.6 | 2.1 |
| 40 | 3.2 | 1.1 | 2.6 | 27.6 | 19.7 | 1.17 | 31.5 | 23.6 | 60.0 | 1.2 | 3.0 | 1.0 | 2.4 | 20.1 | 1.53 | 14.7 | 3.9 | 30.2 | 2.3 |
| | | | | | | | | | | | 4.5 | 1.9 | 4.5 | 21.0 | 1.54 | 15.5 | 4.0 | 33.1 | 2.3 |
| | | | | | | | | | | | 6.0 | 2.9 | 6.6 | 21.5 | 1.55 | 16.0 | 4.1 | 34.7 | 2.4 |
| 50 | 3.0 | 0.8 | 1.9 | 26.8 | 19.4 | 1.23 | 31.2 | 21.8 | 70.8 | 1.5 | 3.0 | 0.8 | 1.9 | 22.8 | 1.58 | 17.2 | 4.2 | 38.6 | 2.5 |
| | 4.5 | 1.6 | 3.7 | 27.3 | 19.7 | 1.16 | 31.5 | 23.6 | 64.0 | 1.3 | 4.5 | 1.6 | 3.7 | 23.9 | 1.60 | 18.2 | 4.4 | 41.9 | 2.6 |
| | 6.0 | 2.5 | 5.7 | 27.5 | 19.7 | 1.12 | 31.5 | 24.5 | 60.5 | 1.2 | 6.0 | 2.5 | 5.7 | 24.4 | 1.61 | 18.7 | 4.4 | 43.8 | 2.7 |
| 60 | 3.0 | 0.7 | 1.6 | 25.8 | 19.0 | 1.34 | 30.6 | 19.2 | 80.4 | 1.9 | 3.0 | 0.7 | 1.6 | 25.5 | 1.63 | 19.7 | 4.6 | 46.9 | 2.8 |
| | 4.5 | 1.4 | 3.2 | 26.5 | 19.3 | 1.26 | 31.0 | 21.0 | 73.8 | 1.7 | 4.5 | 1.4 | 3.2 | 26.7 | 1.66 | 20.8 | 4.7 | 50.8 | 2.9 |
| | 6.0 | 2.2 | 5.1 | 26.8 | 19.5 | 1.22 | 31.2 | 21.9 | 70.4 | 1.6 | 6.0 | 2.2 | 5.1 | 27.4 | 1.67 | 21.4 | 4.8 | 52.9 | 3.0 |
| 70 | 3.0 | 0.6 | 1.5 | 24.5 | 18.3 | 1.49 | 29.8 | 16.5 | 89.9 | 2.4 | 3.0 | 0.6 | 1.5 | 28.1 | 1.69 | 22.1 | 4.9 | 55.3 | 3.1 |
| | 4.5 | 1.3 | 3.0 | 25.4 | 18.8 | 1.39 | 30.3 | 18.3 | 83.5 | 2.2 | 4.5 | 1.3 | 3.0 | 29.5 | 1.72 | 23.4 | 5.0 | 59.6 | 3.2 |
| | 6.0 | 2.1 | 4.8 | 25.8 | 19.0 | 1.34 | 30.6 | 19.2 | 80.2 | 2.0 | 6.0 | 2.1 | 4.8 | 30.3 | 1.74 | 24.1 | 5.1 | 62.0 | 3.3 |
| 80 | 3.0 | 0.6 | 1.4 | 23.2 | 17.6 | 1.66 | 29.1 | 14.0 | 99.4 | 3.1 | 3.0 | 0.6 | 1.4 | 30.8 | 1.75 | 24.6 | 5.2 | 63.6 | 3.5 |
| | 4.5 | 1.2 | 2.9 | 24.1 | 18.1 | 1.54 | 29.6 | 15.6 | 93.1 | 2.9 | 4.5 | 1.2 | 2.9 | 32.3 | 1.78 | 25.9 | 5.3 | 68.5 | 3.6 |
| | 6.0 | 2.0 | 4.6 | 24.5 | 18.3 | 1.49 | 29.8 | 16.5 | 89.9 | 2.6 | 6.0 | 2.0 | 4.6 | 33.1 | 1.80 | 26.7 | 5.4 | 71.1 | 3.7 |
| 90 | 3.0 | 0.6 | 1.4 | 21.8 | 17.0 | 1.87 | 28.5 | 11.7 | 109.0 | 3.9 | 2.6 | 0.4 | 0.9 | 32.8 | 1.87 | 26.4 | 5.1 | 70.0 | 3.8 |
| | 4.5 | 1.2 | 2.8 | 22.7 | 17.4 | 1.73 | 28.9 | 13.1 | 102.8 | 3.6 | | | | | | | | | |
| | 6.0 | 2.0 | 4.6 | 23.1 | 17.6 | 1.66 | 29.1 | 13.9 | 99.7 | 3.3 | | | | | | | | | |
| 100 | 3.0 | 0.6 | 1.3 | 20.6 | 16.4 | 2.14 | 28.2 | 9.6 | 118.8 | 4.8 | 1.8 | 0.1 | 0.2 | 32.8 | 1.87 | 26.4 | 5.1 | 70.0 | 3.8 |
| | 4.5 | 1.2 | 2.7 | 21.3 | 16.7 | 1.97 | 28.3 | 10.9 | 112.6 | 4.4 | | | | | | | | | |
| | 6.0 | 1.9 | 4.5 | 21.8 | 16.9 | 1.89 | 28.5 | 11.5 | 109.5 | 4.0 | | | | | | | | | |
| 110 | 3.0 | 0.5 | 1.2 | 19.5 | 16.0 | 2.47 | 28.3 | 7.9 | 128.8 | 5.8 | 1.3 | 0.1 | 0.2 | 32.8 | 1.87 | 26.4 | 5.1 | 70.0 | 3.8 |
| | 4.5 | 1.1 | 2.6 | 20.1 | 16.2 | 2.26 | 28.1 | 8.9 | 122.5 | 5.3 | | | | | | | | | |
| | 6.0 | 1.8 | 4.2 | 20.5 | 16.4 | 2.16 | 28.2 | 9.5 | 119.4 | 4.9 | | | | | | | | | |
| 120 | 3.0 | 0.4 | 1.0 | 18.8 | 16.0 | 2.89 | 29.0 | 6.5 | 139.4 | 7.0 | 1.1 | 0.1 | 0.2 | 32.8 | 1.87 | 26.4 | 5.1 | 70.0 | 3.8 |
| | 4.5 | 0.9 | 2.2 | 19.2 | 16.0 | 2.61 | 28.5 | 7.3 | 132.6 | 6.4 | | | | | | | | | |
| | 6.0 | 1.6 | 3.8 | 19.4 | 16.0 | 2.49 | 28.3 | 7.8 | 129.4 | 5.8 | | | | | | | | | |

- Interpolation is permissible; extrapolation is not.
- All entering air conditions are 80°F (26.6°C) DB and 67°F (19.4°C) WB in cooling, and 70°F (21°C) DB in heating.
- AHRI/ISO certified conditions are 80.6°F (27°C) DB and 66.2°F (19°C) WB in cooling and 68°F (20°C) DB in heating.
- Table does not reflect fan or pump power corrections for AHRI/ISO conditions.
- All performance is based upon the lower voltage of dual voltage rated units.
- Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.
- Operation below 40°F (10.0°C) EWT is based upon 20% methanol antifreeze solution.
- Operation below 60°F (15.5°C) EWT requires optional insulated water/refrigerant circuit.
- See performance correction tables for operating conditions other than those listed above.
- See Performance Data Selection Notes for operation in the shaded areas.
- Regular Cooling operation with an EWT of less than 50°F (10.0°C) is not recommended unless variable water flow is available.
- Regular Heating operation with an EWT of more than 90°F (32°C) is not recommended unless variable water flow is available.
- For quiet operation and long term reliability, it is recommended that systems be designed to avoid continuous operation in the outlined areas.
- Performance capacities shown in thousands of Btuh
- Hot Water Generator Capacity is based on 90°F entering water and 0.5 GPM/Ton.

Performance Data SZ*030 EC Blower Motor (Part Load)

Models:
SZ
024-060

750 CFM Rated Airflow

| EWT °F | GPM | WPD | | COOLING - EAT 80/67°F | | | | | | | GPM | WPD | | HEATING - EAT 70°F | | | | | | | | | | | | | | |
|-----------|---------------------------|-----|-----|-----------------------|------|------|------|------|-------|------------|-----|-----|-----|--------------------|------|------|-----|------|------------|-----|-----|-----|------|------|------|------|-------|-----|
| | | PSI | FT | TC | SC | kW | HR | EER | LWT | HWG Cap | | PSI | FT | HC | kW | HE | COP | LWT | HWG Cap | | | | | | | | | |
| 20 | Operation Not Recommended | | | | | | | | | | 5.5 | 3.6 | 8.3 | 14.7 | 1.47 | 9.5 | 2.9 | 16.5 | 1.4 | | | | | | | | | |
| 30 | 1.9 | 0.5 | 1.1 | 25.3 | 18.0 | 0.89 | 28.3 | 28.5 | 60.0 | 0.2 | 2.8 | 1.1 | 2.5 | 16.3 | 1.50 | 11.0 | 3.2 | 22.1 | 1.5 | | | | | | | | | |
| | | | | | | | | | | | 4.1 | 2.0 | 4.5 | 17.0 | 1.51 | 11.6 | 3.3 | 24.3 | 1.5 | | | | | | | | | |
| | | | | | | | | | | | 5.5 | 2.9 | 6.6 | 17.3 | 1.51 | 12.0 | 3.4 | 25.7 | 1.6 | | | | | | | | | |
| 40 | 2.8 | 0.8 | 1.8 | 25.1 | 18.0 | 0.92 | 28.2 | 27.4 | 60.0 | 0.2 | 2.8 | 0.8 | 1.8 | 18.7 | 1.53 | 13.2 | 3.6 | 30.5 | 1.6 | | | | | | | | | |
| | | | | | | | | | | | 4.1 | 1.5 | 3.5 | 19.4 | 1.54 | 13.9 | 3.7 | 33.2 | 1.7 | | | | | | | | | |
| | | | | | | | | | | | 5.5 | 2.3 | 5.4 | 19.8 | 1.54 | 14.4 | 3.8 | 34.8 | 1.7 | | | | | | | | | |
| 50 | 2.8 | 0.6 | 1.4 | 24.3 | 17.6 | 1.02 | 27.9 | 24.0 | 70.0 | 0.7 | 2.8 | 0.6 | 1.4 | 21.0 | 1.55 | 15.4 | 4.0 | 39.0 | 1.8 | | | | | | | | | |
| | | | | | | | | | | | 4.1 | 1.2 | 2.9 | 24.8 | 1.56 | 16.2 | 4.1 | 42.1 | 1.9 | | | | | | | | | |
| | | | | | | | | | | | 5.5 | 2.0 | 4.6 | 25.1 | 1.56 | 16.7 | 4.2 | 43.9 | 1.9 | | | | | | | | | |
| 60 | 2.8 | 0.5 | 1.1 | 23.4 | 17.2 | 1.17 | 27.6 | 20.0 | 79.7 | 1.2 | 2.8 | 0.5 | 1.1 | 23.2 | 1.57 | 17.6 | 4.3 | 47.4 | 2.0 | | | | | | | | | |
| | | | | | | | | | | | 4.1 | 1.1 | 2.4 | 24.0 | 1.57 | 18.5 | 4.5 | 51.0 | 2.1 | | | | | | | | | |
| | | | | | | | | | | | 5.5 | 1.8 | 4.1 | 24.3 | 1.57 | 19.0 | 4.6 | 53.1 | 2.2 | | | | | | | | | |
| 70 | 2.8 | 0.4 | 1.0 | 22.4 | 16.8 | 1.35 | 27.2 | 16.6 | 89.4 | 1.9 | 2.8 | 0.4 | 1.0 | 25.3 | 1.58 | 19.7 | 4.7 | 55.9 | 2.3 | | | | | | | | | |
| | | | | | | | | | | | 4.1 | 1.0 | 2.2 | 23.1 | 1.58 | 20.7 | 4.9 | 59.9 | 2.3 | | | | | | | | | |
| | | | | | | | | | | | 5.5 | 1.7 | 3.8 | 23.4 | 1.58 | 21.3 | 5.0 | 62.3 | 2.4 | | | | | | | | | |
| 80 | 2.8 | 0.4 | 0.9 | 21.3 | 16.3 | 1.55 | 26.8 | 13.7 | 99.2 | 2.6 | 2.8 | 0.4 | 0.9 | 27.4 | 1.59 | 21.8 | 5.1 | 64.4 | 2.5 | | | | | | | | | |
| | | | | | | | | | | | 4.1 | 0.9 | 2.1 | 22.0 | 1.60 | 22.8 | 5.2 | 68.9 | 2.6 | | | | | | | | | |
| | | | | | | | | | | | 5.5 | 1.6 | 3.7 | 22.4 | 1.60 | 23.4 | 5.3 | 71.5 | 2.7 | | | | | | | | | |
| 90 | 2.8 | 0.4 | 0.9 | 20.2 | 15.7 | 1.77 | 26.4 | 11.4 | 108.9 | 3.5 | 2.3 | 0.2 | 0.4 | 28.8 | 1.66 | 23.1 | 5.1 | 70.0 | 2.8 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 4.1 | 0.9 | 2.0 | 20.9 | 1.64 | 26.7 | 12.8 | 103.0 | 3.2 |
| | | | | | | | | | | | | | | | | | | | | 5.5 | 1.6 | 3.6 | 21.3 | 1.56 | 26.8 | 13.6 | 99.7 | 2.9 |
| 100 | 2.8 | 0.4 | 0.9 | 18.9 | 15.2 | 2.01 | 26.1 | 9.4 | 118.6 | 4.4 | 1.5 | 0.1 | 0.2 | 28.8 | 1.66 | 23.1 | 5.1 | 70.0 | 2.8 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 4.1 | 0.9 | 2.0 | 19.7 | 1.86 | 26.3 | 10.6 | 112.8 | 4.1 |
| | | | | | | | | | | | | | | | | | | | | 5.5 | 1.5 | 3.5 | 20.1 | 1.79 | 26.4 | 11.2 | 109.6 | 3.7 |
| 110 | 2.8 | 0.3 | 0.8 | 17.7 | 14.6 | 2.26 | 25.7 | 7.8 | 128.4 | 5.4 | 1.2 | 0.1 | 0.2 | 28.8 | 1.66 | 23.1 | 5.1 | 70.0 | 2.8 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 4.1 | 0.8 | 1.8 | 18.4 | 2.11 | 25.9 | 8.7 | 122.6 | 5.0 |
| | | | | | | | | | | | | | | | | | | | | 5.5 | 1.4 | 3.2 | 18.8 | 2.03 | 26.0 | 9.3 | 119.5 | 4.5 |
| 120 | 2.8 | 0.2 | 0.5 | 16.4 | 14.0 | 2.52 | 25.4 | 6.5 | 138.1 | 6.6 | 0.9 | 0.1 | 0.2 | 28.8 | 1.66 | 23.1 | 5.1 | 70.0 | 2.8 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 4.1 | 0.6 | 1.5 | 17.2 | 2.37 | 25.6 | 7.2 | 132.5 | 6.0 |
| | | | | | | | | | | | | | | | | | | | | 5.5 | 1.2 | 2.7 | 17.6 | 2.28 | 25.7 | 7.7 | 129.3 | 5.5 |

- Interpolation is permissible; extrapolation is not.
- All entering air conditions are 80°F (26.6°C) DB and 67°F (19.4°C) WB in cooling, and 70°F (21°C) DB in heating.
- AHRI/ISO certified conditions are 80.6°F (27°C) DB and 66.2°F (19°C) WB in cooling and 68°F (20°C) DB in heating.
- Table does not reflect fan or pump power corrections for AHRI/ISO conditions.
- All performance is based upon the lower voltage of dual voltage rated units.
- Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.
- Operation below 40°F (10.0°C) EWT is based upon 20% methanol antifreeze solution.
- Operation below 60°F (15.5°C) EWT requires optional insulated water/refrigerant circuit.
- See performance correction tables for operating conditions other than those listed above.
- See Performance Data Selection Notes for operation in the shaded areas.
- Regular Cooling operation with an EWT of less than 50°F (10.0°C) is not recommended unless variable water flow is available.
- Regular Heating operation with an EWT of more than 90°F (32°C) is not recommended unless variable water flow is available.
- For quiet operation and long term reliability, it is recommended that systems be designed to avoid continuous operation in the outlined areas.
- Performance capacities shown in thousands of Btuh
- Hot Water Generator Capacity is based on 90°F entering water and 0.5 GPM/Ton.

Performance Data SZ*030 EC Blower Motor (Full Load)

Models:
SZ
024-060

900 CFM Rated Airflow

| EWT °F | GPM | WPD | | COOLING - EAT 80/67°F | | | | | | | GPM | WPD | | HEATING - EAT 70°F | | | | | | | | | | | | | | | |
|-----------|---------------------------|-----|-----|-----------------------|------|------|------|------|-------|------------|-----|-----|------|--------------------|------|------|------|------|------------|-----|-----|-----|------|------|------|------|------|-------|-----|
| | | PSI | FT | TC | SC | kW | HR | EER | LWT | HWG Cap | | PSI | FT | HC | kW | HE | COP | LWT | HWG Cap | | | | | | | | | | |
| 20 | Operation Not Recommended | | | | | | | | | | 7.5 | 6.0 | 13.8 | 20.9 | 1.93 | 14.0 | 3.2 | 16.3 | 1.9 | | | | | | | | | | |
| 30 | 2.6 | 0.8 | 1.9 | 33.8 | 22.9 | 1.49 | 38.8 | 22.7 | 60.0 | 1.0 | 3.8 | 1.8 | 4.1 | 22.8 | 1.98 | 15.8 | 3.4 | 21.7 | 2.0 | | | | | | | | | | |
| | | | | | | | | | | | 5.6 | 3.3 | 7.5 | 23.6 | 2.01 | 16.5 | 3.5 | 24.1 | 2.0 | | | | | | | | | | |
| | | | | | | | | | | | 7.5 | 4.8 | 11.0 | 24.1 | 2.02 | 16.9 | 3.5 | 25.5 | 2.1 | | | | | | | | | | |
| 40 | 3.9 | 1.4 | 3.2 | 33.6 | 22.8 | 1.51 | 38.7 | 22.2 | 60.0 | 1.0 | 3.8 | 1.3 | 3.1 | 25.8 | 2.07 | 18.5 | 3.7 | 30.3 | 2.2 | | | | | | | | | | |
| | | | | | | | | | | | 5.6 | 2.6 | 5.9 | 26.8 | 2.10 | 19.3 | 3.7 | 33.1 | 2.3 | | | | | | | | | | |
| | | | | | | | | | | | 7.5 | 3.9 | 9.0 | 27.4 | 2.11 | 19.8 | 3.8 | 34.7 | 2.3 | | | | | | | | | | |
| 50 | 3.8 | 1.0 | 2.4 | 32.6 | 22.4 | 1.60 | 38.3 | 20.4 | 70.2 | 1.5 | 3.8 | 1.0 | 2.4 | 28.8 | 2.15 | 21.2 | 3.9 | 38.9 | 2.5 | | | | | | | | | | |
| | | | | | | | | | | | 5.6 | 2.1 | 4.8 | 29.9 | 2.19 | 22.2 | 4.0 | 42.1 | 2.6 | | | | | | | | | | |
| | | | | | | | | | | | 7.5 | 3.3 | 7.6 | 30.6 | 2.20 | 22.8 | 4.1 | 43.9 | 2.6 | | | | | | | | | | |
| 60 | 3.8 | 0.9 | 2.0 | 31.5 | 22.0 | 1.77 | 37.8 | 17.8 | 79.9 | 2.1 | 3.8 | 0.9 | 2.0 | 31.8 | 2.24 | 23.9 | 4.2 | 47.4 | 2.9 | | | | | | | | | | |
| | | | | | | | | | | | 5.6 | 1.8 | 4.2 | 32.2 | 2.23 | 1.66 | 38.1 | 19.4 | 73.6 | 2.0 | 5.6 | 1.8 | 4.2 | 33.1 | 2.27 | 25.0 | 4.3 | 51.1 | 3.0 |
| | | | | | | | | | | | 7.5 | 3.0 | 6.8 | 32.6 | 22.4 | 1.60 | 38.3 | 20.3 | 70.2 | 1.8 | 7.5 | 3.0 | 6.8 | 33.8 | 2.29 | 25.6 | 4.3 | 53.2 | 3.0 |
| 70 | 3.8 | 0.8 | 1.8 | 30.3 | 21.5 | 1.97 | 37.3 | 15.4 | 89.6 | 2.9 | 3.8 | 0.8 | 1.8 | 34.8 | 2.32 | 26.5 | 4.4 | 56.0 | 3.3 | | | | | | | | | | |
| | | | | | | | | | | | 5.6 | 1.7 | 3.8 | 31.1 | 21.8 | 1.84 | 37.6 | 16.9 | 83.4 | 2.6 | 5.6 | 1.7 | 3.8 | 36.1 | 2.36 | 27.7 | 4.5 | 60.1 | 3.4 |
| | | | | | | | | | | | 7.5 | 2.8 | 6.4 | 31.5 | 22.0 | 1.78 | 37.8 | 17.7 | 80.1 | 2.4 | 7.5 | 2.8 | 6.4 | 36.9 | 2.38 | 28.5 | 4.5 | 62.4 | 3.5 |
| 80 | 3.8 | 0.7 | 1.7 | 28.9 | 20.9 | 2.20 | 36.8 | 13.1 | 99.3 | 3.7 | 3.8 | 0.7 | 1.7 | 37.7 | 2.40 | 29.1 | 4.6 | 64.7 | 3.8 | | | | | | | | | | |
| | | | | | | | | | | | 5.6 | 1.6 | 3.7 | 29.8 | 21.3 | 2.05 | 37.1 | 14.5 | 93.2 | 3.4 | 5.6 | 1.6 | 3.7 | 39.1 | 2.45 | 30.4 | 4.7 | 69.1 | 3.9 |
| | | | | | | | | | | | 7.5 | 2.7 | 6.3 | 30.2 | 21.4 | 1.98 | 37.3 | 15.3 | 89.9 | 3.1 | 7.5 | 2.7 | 6.3 | 40.0 | 2.47 | 31.2 | 4.7 | 71.7 | 4.0 |
| 90 | 3.8 | 0.7 | 1.7 | 27.5 | 20.3 | 2.46 | 36.2 | 11.2 | 109.1 | 4.6 | 3.1 | 0.3 | 0.7 | 39.5 | 2.56 | 30.7 | 4.5 | 70.0 | 4.4 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 5.6 | 1.6 | 3.7 | 28.4 | 20.7 | 2.30 | 36.6 | 12.4 | 103.1 | 4.2 |
| | | | | | | | | | | | | | | | | | | | | 7.5 | 2.7 | 6.2 | 28.9 | 20.9 | 2.21 | 36.7 | 13.1 | 99.8 | 3.8 |
| 100 | 3.8 | 0.7 | 1.7 | 25.9 | 19.6 | 2.76 | 35.7 | 9.4 | 118.8 | 5.6 | 2.0 | 0.1 | 0.2 | 39.5 | 2.56 | 30.7 | 4.5 | 70.0 | 4.4 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 5.6 | 1.5 | 3.6 | 26.9 | 20.0 | 2.57 | 36.0 | 10.4 | 112.9 | 5.2 |
| | | | | | | | | | | | | | | | | | | | | 7.5 | 2.6 | 6.1 | 27.4 | 20.2 | 2.48 | 36.2 | 11.0 | 109.7 | 4.7 |
| 110 | 3.8 | 0.7 | 1.5 | 24.3 | 18.8 | 3.10 | 35.3 | 7.8 | 128.6 | 6.8 | 1.5 | 0.1 | 0.2 | 39.5 | 2.56 | 30.7 | 4.5 | 70.0 | 4.4 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 5.6 | 1.4 | 3.3 | 25.3 | 19.3 | 2.89 | 35.6 | 8.7 | 122.7 | 6.2 |
| | | | | | | | | | | | | | | | | | | | | 7.5 | 2.5 | 5.8 | 25.8 | 19.5 | 2.78 | 35.7 | 9.3 | 119.5 | 5.6 |
| 120 | 3.8 | 0.5 | 1.2 | 22.6 | 17.9 | 3.48 | 34.9 | 6.5 | 138.4 | 8.0 | 1.2 | 0.1 | 0.2 | 39.5 | 2.56 | 30.7 | 4.5 | 70.0 | 4.4 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 5.6 | 1.2 | 2.9 | 23.6 | 18.4 | 3.25 | 35.1 | 7.3 | 132.5 | 7.3 |
| | | | | | | | | | | | | | | | | | | | | 7.5 | 2.2 | 5.1 | 24.1 | 18.7 | 3.13 | 35.3 | 7.7 | 129.4 | 6.6 |

- Interpolation is permissible; extrapolation is not.
- All entering air conditions are 80°F (26.6°C) DB and 67°F (19.4°C) WB in cooling, and 70°F (21°C) DB in heating.
- AHRI/ISO certified conditions are 80.6°F (27°C) DB and 66.2°F (19°C) WB in cooling and 68°F (20°C) DB in heating.
- Table does not reflect fan or pump power corrections for AHRI/ISO conditions.
- All performance is based upon the lower voltage of dual voltage rated units.
- Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.
- Operation below 40°F (10.0°C) EWT is based upon 20% methanol antifreeze solution.
- Operation below 60°F (15.5°C) EWT requires optional insulated water/refrigerant circuit.
- See performance correction tables for operating conditions other than those listed above.
- See Performance Data Selection Notes for operation in the shaded areas.
- Regular Cooling operation with an EWT of less than 50°F (10.0°C) is not recommended unless variable water flow is available.
- Regular Heating operation with an EWT of more than 90°F (32°C) is not recommended unless variable water flow is available.
- For quiet operation and long term reliability, it is recommended that systems be designed to avoid continuous operation in the outlined areas.
- Performance capacities shown in thousands of Btuh
- Hot Water Generator Capacity is based on 90°F entering water and 0.5 GPM/Ton.

Performance Data SZ*036 EC Blower Motor (Part Load)

Models:
SZ
024-060

950 CFM Rated Airflow

| EWT °F | GPM | WPD | | COOLING - EAT 80/67°F | | | | | | | GPM | WPD | | HEATING - EAT 70°F | | | | | |
|-----------|---------------------------|-----|-----|-----------------------|------|------|------|------|-------|------------|-----|-----|-----|--------------------|------|------|-----|------|------------|
| | | PSI | FT | TC | SC | kW | HR | EER | LWT | HWG Cap | | PSI | FT | HC | kW | HE | COP | LWT | HWG Cap |
| 20 | Operation Not Recommended | | | | | | | | | | 6.8 | 3.3 | 7.7 | 17.3 | 1.67 | 11.3 | 3.0 | 16.7 | 1.7 |
| 30 | 2.3 | 0.4 | 0.9 | 30.7 | 22.7 | 1.10 | 34.4 | 27.9 | 60.0 | 0.2 | 3.4 | 1.0 | 2.3 | 19.2 | 1.70 | 13.1 | 3.3 | 22.3 | 1.7 |
| | | | | | | | | | | | 5.1 | 1.9 | 4.3 | 19.9 | 1.71 | 13.9 | 3.4 | 24.6 | 1.8 |
| | | | | | | | | | | | 6.8 | 2.8 | 6.5 | 20.4 | 1.71 | 14.3 | 3.5 | 25.8 | 1.8 |
| 40 | 3.4 | 0.8 | 1.9 | 30.4 | 22.4 | 1.13 | 34.2 | 27.0 | 60.0 | 0.2 | 3.4 | 0.8 | 1.9 | 22.1 | 1.73 | 15.9 | 3.7 | 30.6 | 1.9 |
| | | | | | | | | | | | 5.1 | 1.6 | 3.6 | 23.1 | 1.74 | 16.9 | 3.9 | 33.4 | 2.0 |
| | | | | | | | | | | | 6.8 | 2.4 | 5.6 | 23.6 | 1.75 | 17.4 | 4.0 | 34.9 | 2.0 |
| 50 | 3.4 | 0.7 | 1.7 | 29.4 | 22.0 | 1.21 | 33.7 | 24.3 | 69.8 | 0.7 | 3.4 | 0.7 | 1.7 | 25.1 | 1.76 | 18.9 | 4.2 | 38.9 | 2.2 |
| | 5.1 | 1.4 | 3.1 | 30.1 | 22.3 | 1.12 | 34.1 | 26.8 | 63.4 | 0.7 | 5.1 | 1.4 | 3.1 | 26.4 | 1.77 | 20.1 | 4.4 | 42.1 | 2.2 |
| | 6.8 | 2.1 | 4.9 | 30.4 | 22.4 | 1.08 | 34.2 | 28.1 | 60.1 | 0.6 | 6.8 | 2.1 | 4.9 | 27.0 | 1.78 | 20.7 | 4.5 | 43.9 | 2.3 |
| 60 | 3.4 | 0.7 | 1.6 | 28.3 | 21.4 | 1.36 | 33.2 | 20.8 | 79.5 | 1.5 | 3.4 | 0.7 | 1.6 | 28.3 | 1.79 | 21.9 | 4.6 | 47.1 | 2.5 |
| | 5.1 | 1.2 | 2.8 | 29.1 | 21.8 | 1.26 | 33.6 | 23.0 | 73.2 | 1.4 | 5.1 | 1.2 | 2.8 | 29.7 | 1.80 | 23.3 | 4.8 | 50.9 | 2.5 |
| | 6.8 | 1.9 | 4.5 | 29.4 | 22.0 | 1.21 | 33.7 | 24.3 | 69.9 | 1.3 | 6.8 | 1.9 | 4.5 | 30.5 | 1.80 | 24.1 | 5.0 | 52.9 | 2.6 |
| 70 | 3.4 | 0.6 | 1.5 | 27.0 | 20.8 | 1.54 | 32.5 | 17.6 | 89.1 | 2.4 | 3.4 | 0.6 | 1.5 | 31.4 | 1.81 | 25.0 | 5.1 | 55.3 | 2.8 |
| | 5.1 | 1.2 | 2.7 | 27.9 | 21.2 | 1.42 | 32.9 | 19.6 | 82.9 | 2.2 | 5.1 | 1.2 | 2.7 | 33.1 | 1.82 | 26.6 | 5.3 | 59.6 | 2.9 |
| | 6.8 | 1.8 | 4.2 | 28.3 | 21.4 | 1.37 | 33.1 | 20.7 | 79.7 | 2.0 | 6.8 | 1.8 | 4.2 | 34.0 | 1.83 | 27.4 | 5.4 | 61.9 | 2.9 |
| 80 | 3.4 | 0.6 | 1.4 | 25.6 | 20.1 | 1.74 | 31.8 | 14.7 | 98.7 | 3.2 | 3.4 | 0.6 | 1.4 | 34.6 | 1.84 | 28.0 | 5.5 | 63.5 | 3.2 |
| | 5.1 | 1.1 | 2.6 | 26.5 | 20.5 | 1.61 | 32.2 | 16.5 | 92.6 | 2.9 | 5.1 | 1.1 | 2.6 | 36.4 | 1.85 | 29.8 | 5.8 | 68.3 | 3.3 |
| | 6.8 | 1.7 | 4.0 | 27.0 | 20.7 | 1.55 | 32.5 | 17.4 | 89.5 | 2.7 | 6.8 | 1.7 | 4.0 | 37.3 | 1.86 | 30.7 | 5.9 | 71.0 | 3.3 |
| 90 | 3.4 | 0.6 | 1.4 | 24.1 | 19.4 | 1.96 | 31.1 | 12.3 | 108.3 | 4.1 | 3.0 | 0.5 | 1.1 | 37.0 | 1.94 | 30.4 | 5.6 | 70.0 | 3.6 |
| | 5.1 | 1.1 | 2.5 | 25.1 | 19.8 | 1.82 | 31.5 | 13.8 | 102.4 | 3.7 | | | | | | | | | |
| | 6.8 | 1.7 | 3.9 | 25.5 | 20.1 | 1.75 | 31.7 | 14.6 | 99.3 | 3.4 | | | | | | | | | |
| 100 | 3.4 | 0.6 | 1.4 | 22.6 | 18.8 | 2.20 | 30.4 | 10.2 | 117.9 | 4.9 | 2.0 | 0.1 | 0.2 | 37.0 | 1.94 | 30.4 | 5.6 | 70.0 | 3.6 |
| | 5.1 | 1.1 | 2.5 | 23.5 | 19.2 | 2.05 | 30.8 | 11.5 | 112.1 | 4.5 | | | | | | | | | |
| | 6.8 | 1.7 | 3.9 | 24.0 | 19.4 | 1.98 | 31.0 | 12.1 | 109.1 | 4.1 | | | | | | | | | |
| 110 | 3.4 | 0.6 | 1.3 | 21.0 | 18.3 | 2.47 | 29.8 | 8.5 | 127.5 | 5.8 | 1.5 | 0.1 | 0.2 | 37.0 | 1.94 | 30.4 | 5.6 | 70.0 | 3.6 |
| | 5.1 | 1.0 | 2.4 | 21.9 | 18.6 | 2.31 | 30.2 | 9.5 | 121.8 | 5.3 | | | | | | | | | |
| | 6.8 | 1.6 | 3.8 | 22.4 | 18.7 | 2.23 | 30.3 | 10.0 | 118.9 | 4.9 | | | | | | | | | |
| 120 | 3.4 | 0.5 | 1.3 | 19.5 | 17.8 | 2.77 | 29.3 | 7.0 | 137.3 | 6.7 | 1.2 | 0.1 | 0.2 | 37.0 | 1.94 | 30.4 | 5.6 | 70.0 | 3.6 |
| | 5.1 | 1.0 | 2.2 | 20.4 | 18.1 | 2.59 | 29.6 | 7.9 | 131.6 | 6.2 | | | | | | | | | |
| | 6.8 | 1.5 | 3.6 | 20.8 | 18.2 | 2.51 | 29.8 | 8.3 | 128.8 | 5.6 | | | | | | | | | |

- Interpolation is permissible; extrapolation is not.
- All entering air conditions are 80°F (26.6°C) DB and 67°F (19.4°C) WB in cooling, and 70°F (21°C) DB in heating.
- AHRI/ISO certified conditions are 80.6°F (27°C) DB and 66.2°F (19°C) WB in cooling and 68°F (20°C) DB in heating.
- Table does not reflect fan or pump power corrections for AHRI/ISO conditions.
- All performance is based upon the lower voltage of dual voltage rated units.
- Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.
- Operation below 40°F (10.0°C) EWT is based upon 20% methanol antifreeze solution.
- Operation below 60°F (15.5°C) EWT requires optional insulated water/refrigerant circuit.
- See performance correction tables for operating conditions other than those listed above.
- See Performance Data Selection Notes for operation in the shaded areas.
- Regular Cooling operation with an EWT of less than 50°F (10.0°C) is not recommended unless variable water flow is available.
- Regular Heating operation with an EWT of more than 90°F (32°C) is not recommended unless variable water flow is available.
- For quiet operation and long term reliability, it is recommended that systems be designed to avoid continuous operation in the outlined areas.
- Performance capacities shown in thousands of Btuh
- Hot Water Generator Capacity is based on 90°F entering water and 0.5 GPM/Ton.

Performance Data SZ*036 EC Blower Motor (Full Load)

Models:
SZ
024-060

1150 CFM Rated Airflow

| EWT °F | GPM | WPD | | COOLING - EAT 80/67°F | | | | | | | GPM | WPD | | HEATING - EAT 70°F | | | | | |
|-----------|---------------------------|-----|-----|-----------------------|------|------|------|------|-------|------------|-----|-----|------|--------------------|------|------|-----|------|------------|
| | | PSI | FT | TC | SC | kW | HR | EER | LWT | HWG Cap | | PSI | FT | HC | kW | HE | COP | LWT | HWG Cap |
| 20 | Operation Not Recommended | | | | | | | | | | 9.0 | 5.2 | 12.1 | 25.1 | 2.26 | 17.0 | 3.3 | 16.2 | 2.4 |
| 30 | 3.1 | 0.7 | 1.5 | 40.0 | 28.3 | 1.87 | 46.3 | 21.4 | 60.0 | 1.2 | 4.5 | 1.6 | 3.6 | 27.4 | 2.32 | 19.2 | 3.5 | 21.5 | 2.4 |
| | | | | | | | | | | | 6.8 | 3.0 | 6.8 | 28.6 | 2.35 | 20.3 | 3.6 | 24.0 | 2.5 |
| | | | | | | | | | | | 9.0 | 4.4 | 10.1 | 29.2 | 2.36 | 20.8 | 3.6 | 25.4 | 2.6 |
| 40 | 4.6 | 1.3 | 3.1 | 39.8 | 28.2 | 1.90 | 46.3 | 20.9 | 60.0 | 1.2 | 4.5 | 1.3 | 3.0 | 31.4 | 2.42 | 22.8 | 3.8 | 29.9 | 2.7 |
| | | | | | | | | | | | 6.8 | 2.4 | 5.5 | 32.9 | 2.46 | 24.1 | 3.9 | 32.9 | 2.8 |
| | | | | | | | | | | | 9.0 | 3.7 | 8.6 | 33.7 | 2.48 | 24.8 | 4.0 | 34.5 | 2.8 |
| 50 | 4.5 | 1.1 | 2.6 | 38.6 | 27.4 | 1.96 | 45.6 | 19.7 | 70.3 | 1.8 | 4.5 | 1.1 | 2.6 | 35.5 | 2.53 | 26.5 | 4.1 | 38.2 | 3.0 |
| | 6.8 | 2.0 | 4.7 | 39.4 | 27.9 | 1.87 | 46.0 | 21.1 | 63.5 | 1.6 | 6.8 | 2.0 | 4.7 | 37.3 | 2.58 | 28.1 | 4.2 | 41.7 | 3.1 |
| | 9.0 | 3.3 | 7.6 | 39.7 | 28.2 | 1.83 | 46.3 | 21.7 | 60.3 | 1.5 | 9.0 | 3.3 | 7.6 | 38.2 | 2.60 | 29.0 | 4.3 | 43.6 | 3.2 |
| 60 | 4.5 | 1.0 | 2.4 | 37.4 | 26.7 | 2.13 | 45.0 | 17.5 | 80.0 | 2.5 | 4.5 | 1.0 | 2.4 | 39.7 | 2.64 | 30.4 | 4.4 | 46.5 | 3.5 |
| | 6.8 | 1.8 | 4.2 | 38.2 | 27.2 | 2.01 | 45.4 | 19.0 | 73.4 | 2.3 | 6.8 | 1.8 | 4.2 | 41.8 | 2.70 | 32.2 | 4.5 | 50.5 | 3.6 |
| | 9.0 | 3.0 | 6.9 | 38.6 | 27.4 | 1.96 | 45.6 | 19.7 | 70.1 | 2.1 | 9.0 | 3.0 | 6.9 | 42.9 | 2.73 | 33.2 | 4.6 | 52.6 | 3.7 |
| 70 | 4.5 | 1.0 | 2.2 | 35.9 | 26.0 | 2.34 | 44.3 | 15.4 | 89.7 | 3.4 | 4.5 | 1.0 | 2.2 | 44.0 | 2.77 | 34.2 | 4.7 | 54.8 | 4.1 |
| | 6.8 | 1.7 | 4.0 | 36.9 | 26.4 | 2.20 | 44.7 | 16.8 | 83.2 | 3.1 | 6.8 | 1.7 | 4.0 | 46.3 | 2.84 | 36.3 | 4.8 | 59.3 | 4.2 |
| | 9.0 | 2.8 | 6.5 | 37.4 | 26.7 | 2.13 | 45.0 | 17.5 | 80.0 | 2.9 | 9.0 | 2.8 | 6.5 | 47.6 | 2.88 | 37.3 | 4.8 | 61.7 | 4.3 |
| 80 | 4.5 | 0.9 | 2.1 | 34.4 | 25.3 | 2.58 | 43.6 | 13.3 | 99.4 | 4.4 | 4.5 | 0.9 | 2.1 | 48.3 | 2.90 | 38.0 | 4.9 | 63.1 | 4.7 |
| | 6.8 | 1.7 | 4.0 | 35.4 | 25.7 | 2.42 | 44.0 | 14.7 | 92.9 | 4.1 | 6.8 | 1.7 | 4.0 | 50.8 | 2.99 | 40.2 | 5.0 | 68.2 | 4.8 |
| | 9.0 | 2.7 | 6.3 | 35.9 | 25.9 | 2.34 | 44.2 | 15.3 | 89.8 | 3.7 | 9.0 | 2.7 | 6.3 | 52.1 | 3.04 | 41.3 | 5.0 | 70.8 | 5.0 |
| 90 | 4.5 | 0.9 | 2.1 | 32.7 | 24.6 | 2.86 | 42.8 | 11.4 | 109.0 | 5.6 | 4.1 | 0.7 | 1.6 | 51.8 | 3.15 | 41.0 | 4.8 | 70.0 | 5.4 |
| | 6.8 | 1.7 | 3.9 | 33.8 | 25.0 | 2.67 | 43.3 | 12.6 | 102.7 | 5.1 | | | | | | | | | |
| | 9.0 | 2.7 | 6.2 | 34.3 | 25.2 | 2.59 | 43.5 | 13.3 | 99.7 | 4.7 | | | | | | | | | |
| 100 | 4.5 | 0.9 | 2.1 | 30.8 | 24.0 | 3.18 | 42.1 | 9.7 | 118.7 | 6.9 | 2.7 | 0.1 | 0.2 | 51.8 | 3.15 | 41.0 | 4.8 | 70.0 | 5.4 |
| | 6.8 | 1.7 | 3.9 | 32.0 | 24.4 | 2.97 | 42.6 | 10.8 | 112.5 | 6.3 | | | | | | | | | |
| | 9.0 | 2.7 | 6.1 | 32.6 | 24.6 | 2.88 | 42.8 | 11.3 | 109.5 | 5.7 | | | | | | | | | |
| 110 | 4.5 | 0.9 | 2.0 | 28.9 | 23.3 | 3.53 | 41.4 | 8.2 | 128.4 | 8.3 | 2.1 | 0.1 | 0.2 | 51.8 | 3.15 | 41.0 | 4.8 | 70.0 | 5.4 |
| | 6.8 | 1.6 | 3.6 | 30.1 | 23.7 | 3.30 | 41.8 | 9.1 | 122.3 | 7.6 | | | | | | | | | |
| | 9.0 | 2.6 | 5.9 | 30.7 | 23.9 | 3.20 | 42.1 | 9.6 | 119.3 | 6.9 | | | | | | | | | |
| 120 | 4.5 | 0.8 | 1.8 | 26.8 | 22.7 | 3.91 | 40.7 | 6.8 | 138.1 | 9.9 | 1.6 | 0.1 | 0.2 | 51.8 | 3.15 | 41.0 | 4.8 | 70.0 | 5.4 |
| | 6.8 | 1.4 | 3.1 | 28.1 | 23.1 | 3.67 | 41.1 | 7.6 | 132.1 | 9.0 | | | | | | | | | |
| | 9.0 | 2.4 | 5.6 | 28.7 | 23.3 | 3.56 | 41.3 | 8.1 | 129.2 | 8.2 | | | | | | | | | |

- Interpolation is permissible; extrapolation is not.
- All entering air conditions are 80°F (26.6°C) DB and 67°F (19.4°C) WB in cooling, and 70°F (21°C) DB in heating.
- AHRI/ISO certified conditions are 80.6°F (27°C) DB and 66.2°F (19°C) WB in cooling and 68°F (20°C) DB in heating.
- Table does not reflect fan or pump power corrections for AHRI/ISO conditions.
- All performance is based upon the lower voltage of dual voltage rated units.
- Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.
- Operation below 40°F (10.0°C) EWT is based upon 20% methanol antifreeze solution.
- Operation below 60°F (15.5°C) EWT requires optional insulated water/refrigerant circuit.
- See performance correction tables for operating conditions other than those listed above.
- See Performance Data Selection Notes for operation in the shaded areas.
- Regular Cooling operation with an EWT of less than 50°F (10.0°C) is not recommended unless variable water flow is available.
- Regular Heating operation with an EWT of more than 90°F (32°C) is not recommended unless variable water flow is available.
- For quiet operation and long term reliability, it is recommended that systems be designed to avoid continuous operation in the outlined areas.
- Performance capacities shown in thousands of Btuh
- Hot Water Generator Capacity is based on 90°F entering water and 0.5 GPM/Ton.

Performance Data SZ*042 EC Blower Motor (Part Load)

Models:
SZ
024-060

1050 CFM Rated Airflow

| EWT °F | GPM | WPD | | COOLING - EAT 80/67°F | | | | | | | GPM | WPD | | HEATING - EAT 70°F | | | | | | | | | | | | | | | |
|-----------|---------------------------|-----|-----|-----------------------|------|------|------|------|-------|------------|-----|-----|-----|--------------------|------|------|------|------|------------|-----|-----|-----|------|------|------|------|------|-------|-----|
| | | PSI | FT | TC | SC | kW | HR | EER | LWT | HWG Cap | | PSI | FT | HC | kW | HE | COP | LWT | HWG Cap | | | | | | | | | | |
| 20 | Operation Not Recommended | | | | | | | | | | 8.5 | 3.3 | 7.7 | 19.2 | 2.06 | 11.9 | 2.7 | 17.2 | 2.7 | | | | | | | | | | |
| 30 | 2.8 | 0.2 | 0.5 | 37.1 | 27.0 | 1.30 | 41.5 | 28.6 | 60.0 | 1.0 | 4.3 | 0.9 | 2.2 | 21.4 | 2.09 | 14.0 | 3.0 | 23.4 | 2.7 | | | | | | | | | | |
| | | | | | | | | | | | 6.4 | 1.9 | 4.3 | 22.2 | 2.10 | 14.7 | 3.1 | 25.4 | 2.8 | | | | | | | | | | |
| | | | | | | | | | | | 8.5 | 3.0 | 6.9 | 22.6 | 2.10 | 15.1 | 3.2 | 26.4 | 2.8 | | | | | | | | | | |
| 40 | 4.0 | 0.7 | 1.7 | 35.8 | 25.9 | 1.34 | 40.4 | 26.7 | 60.0 | 1.0 | 4.3 | 0.9 | 2.0 | 24.9 | 2.12 | 17.4 | 3.4 | 31.8 | 2.9 | | | | | | | | | | |
| | | | | | | | | | | | 6.4 | 1.7 | 3.9 | 26.0 | 2.13 | 18.4 | 3.6 | 34.2 | 3.0 | | | | | | | | | | |
| | | | | | | | | | | | 8.5 | 2.8 | 6.4 | 26.6 | 2.14 | 19.0 | 3.6 | 35.5 | 3.0 | | | | | | | | | | |
| 50 | 4.3 | 0.8 | 1.9 | 35.9 | 26.4 | 1.45 | 41.0 | 24.8 | 69.3 | 1.4 | 4.3 | 0.8 | 1.9 | 28.7 | 2.15 | 21.1 | 3.9 | 40.1 | 3.1 | | | | | | | | | | |
| | | | | | | | | | | | 6.4 | 1.6 | 3.7 | 35.8 | 26.0 | 1.33 | 40.6 | 26.9 | 62.7 | 1.3 | 6.4 | 1.6 | 3.7 | 30.1 | 2.16 | 22.4 | 4.1 | 43.0 | 3.2 |
| | | | | | | | | | | | 8.5 | 2.6 | 6.0 | 35.7 | 25.8 | 1.28 | 40.2 | 27.8 | 59.5 | 1.2 | 8.5 | 2.6 | 6.0 | 30.9 | 2.16 | 23.2 | 4.2 | 44.5 | 3.3 |
| 60 | 4.3 | 0.8 | 1.9 | 35.3 | 26.3 | 1.66 | 41.2 | 21.3 | 79.4 | 2.0 | 4.3 | 0.8 | 1.9 | 32.6 | 2.18 | 24.9 | 4.4 | 48.3 | 3.4 | | | | | | | | | | |
| | | | | | | | | | | | 6.4 | 1.6 | 3.6 | 35.8 | 26.4 | 1.52 | 41.2 | 23.6 | 72.9 | 1.8 | 6.4 | 1.6 | 3.6 | 34.3 | 2.19 | 26.5 | 4.6 | 51.7 | 3.5 |
| | | | | | | | | | | | 8.5 | 2.5 | 5.8 | 35.9 | 26.4 | 1.46 | 41.1 | 24.6 | 69.7 | 1.7 | 8.5 | 2.5 | 5.8 | 35.1 | 2.19 | 27.4 | 4.7 | 53.6 | 3.6 |
| 70 | 4.3 | 0.8 | 1.9 | 34.1 | 25.8 | 1.89 | 40.9 | 18.0 | 89.2 | 2.7 | 4.3 | 0.8 | 1.9 | 36.5 | 2.20 | 28.7 | 4.9 | 56.5 | 3.7 | | | | | | | | | | |
| | | | | | | | | | | | 6.4 | 1.5 | 3.5 | 35.0 | 26.2 | 1.74 | 41.1 | 20.1 | 82.9 | 2.5 | 6.4 | 1.5 | 3.5 | 38.2 | 2.21 | 30.4 | 5.1 | 60.5 | 3.8 |
| | | | | | | | | | | | 8.5 | 2.4 | 5.6 | 35.3 | 26.3 | 1.66 | 41.2 | 21.2 | 79.7 | 2.3 | 8.5 | 2.4 | 5.6 | 39.1 | 2.21 | 31.3 | 5.2 | 62.6 | 3.9 |
| 80 | 4.3 | 0.8 | 1.9 | 32.5 | 24.9 | 2.16 | 40.2 | 15.0 | 98.9 | 3.6 | 4.3 | 0.8 | 1.9 | 40.0 | 2.22 | 32.1 | 5.3 | 64.9 | 4.1 | | | | | | | | | | |
| | | | | | | | | | | | 6.4 | 1.5 | 3.5 | 33.6 | 25.5 | 1.99 | 40.7 | 16.9 | 92.7 | 3.3 | 6.4 | 1.5 | 3.5 | 41.8 | 2.23 | 33.8 | 5.5 | 69.4 | 4.2 |
| | | | | | | | | | | | 8.5 | 2.4 | 5.5 | 34.1 | 25.7 | 1.90 | 40.8 | 17.9 | 89.6 | 3.0 | 8.5 | 2.4 | 5.5 | 42.6 | 2.24 | 34.6 | 5.6 | 71.9 | 4.3 |
| 90 | 4.3 | 0.8 | 1.9 | 30.6 | 23.9 | 2.46 | 39.3 | 12.4 | 108.5 | 4.7 | 3.4 | 0.5 | 1.2 | 42.2 | 2.33 | 34.3 | 5.3 | 70.0 | 4.6 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 6.4 | 1.5 | 3.4 | 31.8 | 24.6 | 2.27 | 39.9 | 14.0 | 102.5 | 4.3 |
| | | | | | | | | | | | | | | | | | | | | 8.5 | 2.3 | 5.4 | 32.4 | 24.9 | 2.18 | 40.1 | 14.9 | 99.4 | 3.9 |
| 100 | 4.3 | 0.8 | 1.8 | 28.4 | 22.9 | 2.78 | 38.3 | 10.2 | 118.0 | 6.0 | 2.3 | 0.1 | 0.2 | 42.2 | 2.33 | 34.3 | 5.3 | 70.0 | 4.6 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 6.4 | 1.4 | 3.3 | 29.8 | 23.5 | 2.58 | 38.9 | 11.5 | 112.2 | 5.5 |
| | | | | | | | | | | | | | | | | | | | | 8.5 | 2.3 | 5.2 | 30.4 | 23.8 | 2.48 | 39.2 | 12.3 | 109.2 | 5.0 |
| 110 | 4.3 | 0.7 | 1.7 | 26.2 | 21.9 | 3.14 | 37.4 | 8.3 | 127.6 | 7.5 | 1.7 | 0.1 | 0.2 | 42.2 | 2.33 | 34.3 | 5.3 | 70.0 | 4.6 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 6.4 | 1.3 | 3.1 | 27.5 | 22.5 | 2.92 | 37.9 | 9.4 | 121.9 | 6.8 |
| | | | | | | | | | | | | | | | | | | | | 8.5 | 2.1 | 5.0 | 28.2 | 22.8 | 2.82 | 38.2 | 10.0 | 119.0 | 6.2 |
| 120 | 4.3 | 0.6 | 1.4 | 24.0 | 21.1 | 3.54 | 36.6 | 6.8 | 137.2 | 9.1 | 1.4 | 0.1 | 0.2 | 42.2 | 2.33 | 34.3 | 5.3 | 70.0 | 4.6 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 6.4 | 1.2 | 2.7 | 25.3 | 21.6 | 3.30 | 37.0 | 7.7 | 131.6 | 8.3 |
| | | | | | | | | | | | | | | | | | | | | 8.5 | 2.0 | 4.5 | 25.9 | 21.8 | 3.19 | 37.3 | 8.1 | 128.8 | 7.6 |

- Interpolation is permissible; extrapolation is not.
- All entering air conditions are 80°F (26.6°C) DB and 67°F (19.4°C) WB in cooling, and 70°F (21°C) DB in heating.
- AHRI/ISO certified conditions are 80.6°F (27°C) DB and 66.2°F (19°C) WB in cooling and 68°F (20°C) DB in heating.
- Table does not reflect fan or pump power corrections for AHRI/ISO conditions.
- All performance is based upon the lower voltage of dual voltage rated units.
- Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.
- Operation below 40°F (10.0°C) EWT is based upon 20% methanol antifreeze solution.
- Operation below 60°F (15.5°C) EWT requires optional insulated water/refrigerant circuit.
- See performance correction tables for operating conditions other than those listed above.
- See Performance Data Selection Notes for operation in the shaded areas.
- Regular Cooling operation with an EWT of less than 50°F (10.0°C) is not recommended unless variable water flow is available.
- Regular Heating operation with an EWT of more than 90°F (32°C) is not recommended unless variable water flow is available.
- For quiet operation and long term reliability, it is recommended that systems be designed to avoid continuous operation in the outlined areas.
- Performance capacities shown in thousands of Btuh
- Hot Water Generator Capacity is based on 90°F entering water and 0.5 GPM/Ton.

Performance Data SZ*042 EC Blower Motor (Full Load)

Models:
SZ
024-060

1350 CFM Rated Airflow

| EWT °F | GPM | WPD | | COOLING - EAT 80/67°F | | | | | | | GPM | WPD | | HEATING - EAT 70°F | | | | | | | | | | | | | | | |
|-----------|---------------------------|-----|-----|-----------------------|------|------|------|------|-------|------------|------|-----|------|--------------------|------|------|------|------|------------|------|------|-----|------|------|------|------|------|-------|-----|
| | | PSI | FT | TC | SC | kW | HR | EER | LWT | HWG Cap | | PSI | FT | HC | kW | HE | COP | LWT | HWG Cap | | | | | | | | | | |
| 20 | Operation Not Recommended | | | | | | | | | | 10.5 | 4.9 | 11.2 | 27.7 | 2.78 | 17.8 | 2.9 | 16.6 | 3.3 | | | | | | | | | | |
| 30 | 3.6 | 0.4 | 0.9 | 47.2 | 32.7 | 2.14 | 54.5 | 22.0 | 60.0 | 2.3 | 5.3 | 1.4 | 3.1 | 30.1 | 2.85 | 19.9 | 3.1 | 22.4 | 3.3 | | | | | | | | | | |
| | | | | | | | | | | | 7.9 | 2.7 | 6.3 | 31.1 | 2.87 | 20.9 | 3.2 | 24.7 | 3.4 | | | | | | | | | | |
| | | | | | | | | | | | 10.5 | 4.3 | 10.0 | 31.7 | 2.88 | 21.5 | 3.2 | 25.9 | 3.5 | | | | | | | | | | |
| 40 | 5.3 | 1.2 | 2.8 | 45.9 | 31.6 | 2.15 | 53.2 | 21.3 | 60.0 | 2.3 | 5.3 | 1.2 | 2.9 | 34.3 | 2.93 | 23.9 | 3.4 | 30.9 | 3.6 | | | | | | | | | | |
| | | | | | | | | | | | 7.9 | 2.5 | 5.7 | 35.8 | 2.96 | 25.3 | 3.6 | 33.6 | 3.7 | | | | | | | | | | |
| | | | | | | | | | | | 10.5 | 4.0 | 9.2 | 36.7 | 2.97 | 26.1 | 3.6 | 35.0 | 3.8 | | | | | | | | | | |
| 50 | 5.3 | 1.2 | 2.7 | 46.5 | 32.5 | 2.27 | 54.6 | 20.5 | 70.8 | 2.7 | 5.3 | 1.2 | 2.7 | 39.1 | 3.01 | 28.4 | 3.8 | 39.2 | 4.0 | | | | | | | | | | |
| | | | | | | | | | | | 7.9 | 2.3 | 5.3 | 46.2 | 32.0 | 2.13 | 53.8 | 21.7 | 63.6 | 2.5 | 7.9 | 2.3 | 5.3 | 41.0 | 3.04 | 30.2 | 4.0 | 42.4 | 4.1 |
| | | | | | | | | | | | 10.5 | 3.7 | 8.6 | 45.9 | 31.6 | 2.07 | 53.2 | 22.2 | 60.1 | 2.3 | 10.5 | 3.7 | 8.6 | 42.1 | 3.06 | 31.2 | 4.0 | 44.1 | 4.2 |
| 60 | 5.3 | 1.1 | 2.6 | 46.2 | 32.6 | 2.50 | 55.1 | 18.5 | 81.0 | 3.2 | 5.3 | 1.1 | 2.6 | 44.1 | 3.09 | 33.1 | 4.2 | 47.4 | 4.3 | | | | | | | | | | |
| | | | | | | | | | | | 7.9 | 2.2 | 5.1 | 46.5 | 32.6 | 2.34 | 54.8 | 19.9 | 73.9 | 3.0 | 7.9 | 2.2 | 5.1 | 46.4 | 3.13 | 35.3 | 4.4 | 51.1 | 4.5 |
| | | | | | | | | | | | 10.5 | 3.6 | 8.2 | 46.5 | 32.5 | 2.26 | 54.6 | 20.5 | 70.4 | 2.7 | 10.5 | 3.6 | 8.2 | 47.7 | 3.15 | 36.5 | 4.4 | 53.1 | 4.6 |
| 70 | 5.3 | 1.1 | 2.6 | 45.1 | 32.1 | 2.77 | 54.9 | 16.3 | 90.9 | 3.9 | 5.3 | 1.1 | 2.6 | 49.2 | 3.17 | 37.9 | 4.5 | 55.6 | 4.8 | | | | | | | | | | |
| | | | | | | | | | | | 7.9 | 2.1 | 4.9 | 45.9 | 32.5 | 2.58 | 55.1 | 17.8 | 83.9 | 3.6 | 7.9 | 2.1 | 4.9 | 51.7 | 3.22 | 40.3 | 4.7 | 59.8 | 4.9 |
| | | | | | | | | | | | 10.5 | 3.5 | 8.0 | 46.2 | 32.6 | 2.49 | 55.1 | 18.6 | 80.5 | 3.3 | 10.5 | 3.5 | 8.0 | 53.1 | 3.25 | 41.5 | 4.8 | 62.1 | 5.1 |
| 80 | 5.3 | 1.1 | 2.6 | 43.5 | 31.2 | 3.08 | 54.4 | 14.1 | 100.7 | 4.8 | 5.3 | 1.1 | 2.6 | 54.1 | 3.27 | 42.4 | 4.8 | 63.8 | 5.3 | | | | | | | | | | |
| | | | | | | | | | | | 7.9 | 2.1 | 4.9 | 44.7 | 31.9 | 2.85 | 54.8 | 15.7 | 93.9 | 4.5 | 7.9 | 2.1 | 4.9 | 56.7 | 3.33 | 44.8 | 5.0 | 68.7 | 5.4 |
| | | | | | | | | | | | 10.5 | 3.4 | 7.8 | 45.2 | 32.1 | 2.75 | 55.0 | 16.4 | 90.5 | 4.0 | 10.5 | 3.4 | 7.8 | 58.0 | 3.36 | 46.0 | 5.1 | 71.2 | 5.6 |
| 90 | 5.3 | 1.1 | 2.6 | 41.4 | 30.2 | 3.45 | 53.6 | 12.0 | 110.4 | 6.0 | 4.6 | 0.8 | 1.8 | 57.5 | 3.48 | 45.6 | 4.8 | 70.0 | 5.9 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 7.9 | 2.1 | 4.8 | 42.9 | 30.9 | 3.18 | 54.2 | 13.5 | 103.7 | 5.5 |
| | | | | | | | | | | | | | | | | | | | | 10.5 | 3.3 | 7.7 | 43.5 | 31.3 | 3.07 | 54.4 | 14.2 | 100.4 | 5.0 |
| 100 | 5.3 | 1.1 | 2.5 | 38.9 | 28.9 | 3.88 | 52.7 | 10.0 | 120.1 | 7.4 | 3.0 | 0.1 | 0.2 | 57.5 | 3.48 | 45.6 | 4.8 | 70.0 | 5.9 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 7.9 | 2.0 | 4.6 | 40.6 | 29.8 | 3.58 | 53.3 | 11.4 | 113.5 | 6.8 |
| | | | | | | | | | | | | | | | | | | | | 10.5 | 3.2 | 7.5 | 41.4 | 30.2 | 3.44 | 53.6 | 12.0 | 110.2 | 6.1 |
| 110 | 5.3 | 1.0 | 2.3 | 36.3 | 27.7 | 4.40 | 51.9 | 8.2 | 129.8 | 8.9 | 2.3 | 0.1 | 0.2 | 57.5 | 3.48 | 45.6 | 4.8 | 70.0 | 5.9 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 7.9 | 1.9 | 4.4 | 38.1 | 28.5 | 4.05 | 52.5 | 9.4 | 123.3 | 8.2 |
| | | | | | | | | | | | | | | | | | | | | 10.5 | 3.1 | 7.1 | 39.0 | 28.9 | 3.88 | 52.7 | 10.0 | 120.0 | 7.5 |
| 120 | 5.3 | 0.8 | 1.9 | 33.5 | 26.5 | 5.01 | 51.3 | 6.7 | 139.6 | 10.8 | 1.8 | 0.1 | 0.2 | 57.5 | 3.48 | 45.6 | 4.8 | 70.0 | 5.9 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 7.9 | 1.7 | 3.9 | 35.4 | 27.3 | 4.60 | 51.7 | 7.7 | 133.1 | 9.9 |
| | | | | | | | | | | | | | | | | | | | | 10.5 | 2.9 | 6.6 | 36.3 | 27.7 | 4.41 | 51.9 | 8.2 | 129.9 | 9.0 |

- Interpolation is permissible; extrapolation is not.
- All entering air conditions are 80°F (26.6°C) DB and 67°F (19.4°C) WB in cooling, and 70°F (21°C) DB in heating.
- AHRI/ISO certified conditions are 80.6°F (27°C) DB and 66.2°F (19°C) WB in cooling and 68°F (20°C) DB in heating.
- Table does not reflect fan or pump power corrections for AHRI/ISO conditions.
- All performance is based upon the lower voltage of dual voltage rated units.
- Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.
- Operation below 40°F (10.0°C) EWT is based upon 20% methanol antifreeze solution.
- Operation below 60°F (15.5°C) EWT requires optional insulated water/refrigerant circuit.
- See performance correction tables for operating conditions other than those listed above.
- See Performance Data Selection Notes for operation in the shaded areas.
- Regular Cooling operation with an EWT of less than 50°F (10.0°C) is not recommended unless variable water flow is available.
- Regular Heating operation with an EWT of more than 90°F (32°C) is not recommended unless variable water flow is available.
- For quiet operation and long term reliability, it is recommended that systems be designed to avoid continuous operation in the outlined areas.
- Performance capacities shown in thousands of Btuh
- Hot Water Generator Capacity is based on 90°F entering water and 0.5 GPM/Ton.

Performance Data SZ*048 EC Blower Motor (Part Load)

Models:
SZ
024-060

1250 CFM Rated Airflow

| EWT °F | GPM | WPD | | COOLING - EAT 80/67°F | | | | | | | GPM | WPD | | HEATING - EAT 70°F | | | | | | | | | | | | | | | |
|-----------|---------------------------|-----|-----|-----------------------|------|------|------|------|-------|------------|-----|-----|-----|--------------------|------|------|------|------|------------|-----|-----|-----|------|------|------|------|------|-------|-----|
| | | PSI | FT | TC | SC | kW | HR | EER | LWT | HWG Cap | | PSI | FT | HC | kW | HE | COP | LWT | HWG Cap | | | | | | | | | | |
| 20 | Operation Not Recommended | | | | | | | | | | 8.5 | 2.7 | 6.2 | 22.0 | 2.19 | 14.2 | 2.9 | 16.6 | 2.6 | | | | | | | | | | |
| 30 | 2.9 | 0.1 | 0.2 | 39.5 | 30.0 | 1.38 | 44.2 | 28.7 | 60.0 | 0.7 | 4.2 | 0.6 | 1.5 | 24.2 | 2.19 | 16.4 | 3.2 | 22.2 | 2.4 | | | | | | | | | | |
| | | | | | | | | | | | 6.3 | 1.5 | 3.6 | 25.2 | 2.19 | 17.4 | 3.4 | 24.5 | 2.5 | | | | | | | | | | |
| | | | | | | | | | | | 8.5 | 2.5 | 5.8 | 25.7 | 2.20 | 17.9 | 3.4 | 25.8 | 2.5 | | | | | | | | | | |
| 40 | 4.4 | 0.7 | 1.6 | 38.9 | 29.7 | 1.40 | 43.7 | 27.8 | 60.0 | 0.7 | 4.2 | 0.6 | 1.5 | 27.9 | 2.22 | 20.0 | 3.7 | 30.5 | 2.4 | | | | | | | | | | |
| | | | | | | | | | | | 6.3 | 1.4 | 3.3 | 29.2 | 2.23 | 21.2 | 3.8 | 33.3 | 2.5 | | | | | | | | | | |
| | | | | | | | | | | | 8.5 | 2.4 | 5.5 | 29.9 | 2.24 | 21.9 | 3.9 | 34.8 | 2.6 | | | | | | | | | | |
| 50 | 4.2 | 0.6 | 1.5 | 38.0 | 29.5 | 1.56 | 43.6 | 24.4 | 70.7 | 1.2 | 4.2 | 0.6 | 1.5 | 31.8 | 2.27 | 23.7 | 4.1 | 38.7 | 2.6 | | | | | | | | | | |
| | | | | | | | | | | | 6.3 | 1.3 | 3.1 | 38.7 | 29.7 | 1.42 | 43.7 | 27.3 | 63.9 | 1.1 | 6.3 | 1.3 | 3.1 | 33.3 | 2.29 | 25.2 | 4.3 | 42.0 | 2.6 |
| | | | | | | | | | | | 8.5 | 2.3 | 5.2 | 38.9 | 29.7 | 1.35 | 43.7 | 28.9 | 60.3 | 1.0 | 8.5 | 2.3 | 5.2 | 34.2 | 2.30 | 26.1 | 4.4 | 43.8 | 2.7 |
| 60 | 4.2 | 0.7 | 1.5 | 36.8 | 29.0 | 1.78 | 43.1 | 20.7 | 80.5 | 1.8 | 4.2 | 0.7 | 1.5 | 35.7 | 2.32 | 27.5 | 4.5 | 46.9 | 2.8 | | | | | | | | | | |
| | | | | | | | | | | | 6.3 | 1.2 | 2.9 | 37.7 | 29.4 | 1.62 | 43.4 | 23.2 | 73.8 | 1.7 | 6.3 | 1.2 | 2.9 | 37.6 | 2.35 | 29.2 | 4.7 | 50.7 | 2.9 |
| | | | | | | | | | | | 8.5 | 2.2 | 5.0 | 38.1 | 29.5 | 1.55 | 43.6 | 24.6 | 70.3 | 1.5 | 8.5 | 2.2 | 5.0 | 38.6 | 2.36 | 30.2 | 4.8 | 52.8 | 3.0 |
| 70 | 4.2 | 0.7 | 1.6 | 35.1 | 28.4 | 2.03 | 42.3 | 17.3 | 90.2 | 2.6 | 4.2 | 0.7 | 1.6 | 39.7 | 2.38 | 31.2 | 4.9 | 55.1 | 3.2 | | | | | | | | | | |
| | | | | | | | | | | | 6.3 | 1.2 | 2.7 | 36.3 | 28.9 | 1.86 | 42.9 | 19.5 | 83.6 | 2.4 | 6.3 | 1.2 | 2.7 | 41.7 | 2.40 | 33.2 | 5.1 | 59.5 | 3.2 |
| | | | | | | | | | | | 8.5 | 2.1 | 4.8 | 36.8 | 29.1 | 1.77 | 43.1 | 20.8 | 80.2 | 2.2 | 8.5 | 2.1 | 4.8 | 42.8 | 2.41 | 34.2 | 5.2 | 61.9 | 3.3 |
| 80 | 4.2 | 0.7 | 1.6 | 33.2 | 27.7 | 2.30 | 41.4 | 14.4 | 99.7 | 3.6 | 4.2 | 0.7 | 1.6 | 43.4 | 2.41 | 34.9 | 5.3 | 63.4 | 3.6 | | | | | | | | | | |
| | | | | | | | | | | | 6.3 | 1.1 | 2.6 | 34.5 | 28.2 | 2.11 | 42.0 | 16.3 | 93.3 | 3.3 | 6.3 | 1.1 | 2.6 | 45.5 | 2.42 | 36.9 | 5.5 | 68.3 | 3.7 |
| | | | | | | | | | | | 8.5 | 2.0 | 4.6 | 35.2 | 28.4 | 2.02 | 42.3 | 17.4 | 90.0 | 3.0 | 8.5 | 2.0 | 4.6 | 46.5 | 2.42 | 37.9 | 5.6 | 71.0 | 3.8 |
| 90 | 4.2 | 0.7 | 1.5 | 31.1 | 26.7 | 2.60 | 40.3 | 11.9 | 109.2 | 4.7 | 3.8 | 0.5 | 1.1 | 46.3 | 2.53 | 37.6 | 5.4 | 70.0 | 4.3 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 6.3 | 1.1 | 2.5 | 32.5 | 27.4 | 2.40 | 41.0 | 13.5 | 103.0 | 4.3 |
| | | | | | | | | | | | | | | | | | | | | 8.5 | 1.9 | 4.4 | 33.2 | 27.6 | 2.30 | 41.4 | 14.4 | 99.8 | 3.9 |
| 100 | 4.2 | 0.6 | 1.4 | 28.8 | 25.7 | 2.93 | 39.2 | 9.8 | 118.7 | 5.9 | 2.5 | 0.1 | 0.2 | 46.3 | 2.53 | 37.6 | 5.4 | 70.0 | 4.3 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 6.3 | 1.1 | 2.5 | 30.2 | 26.4 | 2.72 | 39.9 | 11.1 | 112.7 | 5.4 |
| | | | | | | | | | | | | | | | | | | | | 8.5 | 1.8 | 4.2 | 31.0 | 26.7 | 2.61 | 40.3 | 11.9 | 109.5 | 4.9 |
| 110 | 4.2 | 0.5 | 1.2 | 26.3 | 24.5 | 3.30 | 38.0 | 8.0 | 128.1 | 7.3 | 1.9 | 0.1 | 0.2 | 46.3 | 2.53 | 37.6 | 5.4 | 70.0 | 4.3 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 6.3 | 1.0 | 2.4 | 27.8 | 25.3 | 3.07 | 38.7 | 9.1 | 122.3 | 6.7 |
| | | | | | | | | | | | | | | | | | | | | 8.5 | 1.7 | 4.0 | 28.6 | 25.6 | 2.96 | 39.1 | 9.7 | 119.3 | 6.1 |
| 120 | 4.2 | 0.4 | 0.9 | 23.7 | 23.2 | 3.69 | 36.8 | 6.4 | 137.5 | 8.9 | 1.5 | 0.1 | 0.2 | 46.3 | 2.53 | 37.6 | 5.4 | 70.0 | 4.3 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 6.3 | 1.0 | 2.3 | 25.3 | 24.0 | 3.45 | 37.5 | 7.3 | 131.9 | 8.2 |
| | | | | | | | | | | | | | | | | | | | | 8.5 | 1.7 | 3.9 | 26.1 | 24.4 | 3.33 | 37.9 | 7.8 | 129.0 | 7.4 |

- Interpolation is permissible; extrapolation is not.
- All entering air conditions are 80°F (26.6°C) DB and 67°F (19.4°C) WB in cooling, and 70°F (21°C) DB in heating.
- AHRI/ISO certified conditions are 80.6°F (27°C) DB and 66.2°F (19°C) WB in cooling and 68°F (20°C) DB in heating.
- Table does not reflect fan or pump power corrections for AHRI/ISO conditions.
- All performance is based upon the lower voltage of dual voltage rated units.
- Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.
- Operation below 40°F (10.0°C) EWT is based upon 20% methanol antifreeze solution.
- Operation below 60°F (15.5°C) EWT requires optional insulated water/refrigerant circuit.
- See performance correction tables for operating conditions other than those listed above.
- See Performance Data Selection Notes for operation in the shaded areas.
- Regular Cooling operation with an EWT of less than 50°F (10.0°C) is not recommended unless variable water flow is available.
- Regular Heating operation with an EWT of more than 90°F (32°C) is not recommended unless variable water flow is available.
- For quiet operation and long term reliability, it is recommended that systems be designed to avoid continuous operation in the outlined areas.
- Performance capacities shown in thousands of Btuh
- Hot Water Generator Capacity is based on 90°F entering water and 0.5 GPM/Ton.

Performance Data SZ*048 EC Blower Motor (Full Load)

Models:
SZ
024-060

1550 CFM Rated Airflow

| EWT °F | GPM | WPD | | COOLING - EAT 80/67°F | | | | | | | GPM | WPD | | HEATING - EAT 70°F | | | | | |
|-----------|---------------------------|-----|------|-----------------------|------|------|------|------|-------|------------|------|-----|------|--------------------|------|------|-----|------|------------|
| | | PSI | FT | TC | SC | kW | HR | EER | LWT | HWG Cap | | PSI | FT | HC | kW | HE | COP | LWT | HWG Cap |
| 20 | Operation Not Recommended | | | | | | | | | | 12.0 | 5.2 | 12.1 | 33.3 | 3.03 | 22.5 | 3.2 | 16.2 | 3.4 |
| 30 | 4.1 | 0.2 | 0.6 | 53.3 | 38.3 | 2.45 | 61.6 | 21.7 | 60.0 | 1.8 | 6.0 | 1.4 | 3.2 | 36.5 | 3.13 | 25.4 | 3.4 | 21.5 | 3.4 |
| | | | | | | | | | | | 9.0 | 3.0 | 6.8 | 37.9 | 3.17 | 26.7 | 3.5 | 24.1 | 3.5 |
| | | | | | | | | | | | 12.0 | 4.9 | 11.3 | 38.7 | 3.19 | 27.4 | 3.6 | 25.4 | 3.6 |
| 40 | 6.1 | 1.3 | 3.0 | 52.6 | 38.3 | 2.38 | 60.7 | 22.1 | 60.0 | 1.8 | 6.0 | 1.3 | 3.0 | 41.3 | 3.26 | 29.8 | 3.7 | 30.1 | 3.6 |
| | | | | | | | | | | | 9.0 | 2.8 | 6.4 | 43.0 | 3.30 | 31.3 | 3.8 | 33.1 | 3.7 |
| | | | | | | | | | | | 12.0 | 4.6 | 10.6 | 43.9 | 3.32 | 32.0 | 3.9 | 34.7 | 3.8 |
| 50 | 6.0 | 1.2 | 2.9 | 51.6 | 37.8 | 2.54 | 60.6 | 20.3 | 70.2 | 2.4 | 6.0 | 1.2 | 2.9 | 46.0 | 3.37 | 34.0 | 4.0 | 38.7 | 3.9 |
| | 9.0 | 2.6 | 6.0 | 52.3 | 38.1 | 2.38 | 60.7 | 22.0 | 63.5 | 2.2 | 9.0 | 2.6 | 6.0 | 47.8 | 3.42 | 35.7 | 4.1 | 42.1 | 4.0 |
| | 12.0 | 4.4 | 10.1 | 52.6 | 38.3 | 2.29 | 60.7 | 22.9 | 60.1 | 2.0 | 12.0 | 4.4 | 10.1 | 48.8 | 3.44 | 36.6 | 4.2 | 43.9 | 4.1 |
| 60 | 6.0 | 1.2 | 2.7 | 50.1 | 37.3 | 2.77 | 60.0 | 18.1 | 80.0 | 3.0 | 6.0 | 1.2 | 2.7 | 50.5 | 3.48 | 38.2 | 4.3 | 47.3 | 4.2 |
| | 9.0 | 2.4 | 5.6 | 51.2 | 37.7 | 2.61 | 60.4 | 19.6 | 73.4 | 2.8 | 9.0 | 2.4 | 5.6 | 52.5 | 3.52 | 40.0 | 4.4 | 51.1 | 4.3 |
| | 12.0 | 4.2 | 9.6 | 51.6 | 37.9 | 2.53 | 60.6 | 20.4 | 70.1 | 2.5 | 12.0 | 4.2 | 9.6 | 53.6 | 3.55 | 41.0 | 4.4 | 53.2 | 4.5 |
| 70 | 6.0 | 1.1 | 2.6 | 48.3 | 36.7 | 3.01 | 59.0 | 16.0 | 89.7 | 3.8 | 6.0 | 1.1 | 2.6 | 55.0 | 3.58 | 42.3 | 4.5 | 55.9 | 4.6 |
| | 9.0 | 2.3 | 5.4 | 49.6 | 37.1 | 2.85 | 59.7 | 17.4 | 83.3 | 3.5 | 9.0 | 2.3 | 5.4 | 57.3 | 3.63 | 44.4 | 4.6 | 60.1 | 4.7 |
| | 12.0 | 4.0 | 9.2 | 50.1 | 37.3 | 2.77 | 60.0 | 18.1 | 80.0 | 3.2 | 12.0 | 4.0 | 9.2 | 58.5 | 3.66 | 45.5 | 4.7 | 62.4 | 4.8 |
| 80 | 6.0 | 1.1 | 2.5 | 46.2 | 35.9 | 3.30 | 57.9 | 14.0 | 99.3 | 4.8 | 6.0 | 1.1 | 2.4 | 59.6 | 3.69 | 46.5 | 4.7 | 64.5 | 5.0 |
| | 9.0 | 2.2 | 5.2 | 47.6 | 36.5 | 3.11 | 58.6 | 15.3 | 93.0 | 4.4 | 9.0 | 2.2 | 5.2 | 62.1 | 3.75 | 48.8 | 4.9 | 69.2 | 5.1 |
| | 12.0 | 3.8 | 8.8 | 48.3 | 36.7 | 3.02 | 59.0 | 16.0 | 89.8 | 4.0 | 12.0 | 3.8 | 8.8 | 63.5 | 3.79 | 50.1 | 4.9 | 71.7 | 5.2 |
| 90 | 6.0 | 1.0 | 2.4 | 43.8 | 35.0 | 3.66 | 56.8 | 12.0 | 108.9 | 6.0 | 4.9 | 0.5 | 1.1 | 62.5 | 3.91 | 49.2 | 4.7 | 70.0 | 5.5 |
| | 9.0 | 2.1 | 5.0 | 45.4 | 35.6 | 3.42 | 57.5 | 13.3 | 102.8 | 5.5 | | | | | | | | | |
| | 12.0 | 3.6 | 8.4 | 46.1 | 35.9 | 3.31 | 57.9 | 13.9 | 99.6 | 5.0 | | | | | | | | | |
| 100 | 6.0 | 1.0 | 2.3 | 41.3 | 33.8 | 4.11 | 55.9 | 10.1 | 118.6 | 7.3 | 3.3 | 0.1 | 0.2 | 62.5 | 3.91 | 49.2 | 4.7 | 70.0 | 5.5 |
| | 9.0 | 2.1 | 4.8 | 42.9 | 34.5 | 3.81 | 56.5 | 11.3 | 112.5 | 6.7 | | | | | | | | | |
| | 12.0 | 3.5 | 8.0 | 43.7 | 34.9 | 3.68 | 56.8 | 11.9 | 109.5 | 6.1 | | | | | | | | | |
| 110 | 6.0 | 1.0 | 2.3 | 38.7 | 32.4 | 4.69 | 55.4 | 8.3 | 128.5 | 8.8 | 2.5 | 0.1 | 0.2 | 62.5 | 3.91 | 49.2 | 4.7 | 70.0 | 5.5 |
| | 9.0 | 2.0 | 4.5 | 40.3 | 33.3 | 4.31 | 55.7 | 9.4 | 122.4 | 8.1 | | | | | | | | | |
| | 12.0 | 3.3 | 7.6 | 41.2 | 33.7 | 4.14 | 55.9 | 9.9 | 119.3 | 7.4 | | | | | | | | | |
| 120 | 6.0 | 1.0 | 2.3 | 36.1 | 30.7 | 5.43 | 55.4 | 6.6 | 138.5 | 10.5 | 2.0 | 0.1 | 0.2 | 62.5 | 3.91 | 49.2 | 4.7 | 70.0 | 5.5 |
| | 9.0 | 1.9 | 4.3 | 37.7 | 31.8 | 4.95 | 55.3 | 7.6 | 132.3 | 9.7 | | | | | | | | | |
| | 12.0 | 3.1 | 7.1 | 38.5 | 32.2 | 4.74 | 55.4 | 8.1 | 129.2 | 8.8 | | | | | | | | | |

- Interpolation is permissible; extrapolation is not.
- All entering air conditions are 80°F (26.6°C) DB and 67°F (19.4°C) WB in cooling, and 70°F (21°C) DB in heating.
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- Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.
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- See performance correction tables for operating conditions other than those listed above.
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- For quiet operation and long term reliability, it is recommended that systems be designed to avoid continuous operation in the outlined areas.
- Performance capacities shown in thousands of Btuh
- Hot Water Generator Capacity is based on 90°F entering water and 0.5 GPM/Ton.

Performance Data SZ*060 EC Blower Motor (Part Load)

Models:
SZ
024-060

1500 CFM Rated Airflow

| EWT °F | GPM | WPD | | COOLING - EAT 80/67°F | | | | | | | GPM | WPD | | HEATING - EAT 70°F | | | | | | | | | | | | | | | |
|-----------|---------------------------|-----|-----|-----------------------|------|------|------|------|-------|------------|------|-----|------|--------------------|------|------|------|------|------------|------|------|-----|------|------|------|------|------|-------|-----|
| | | PSI | FT | TC | SC | kW | HR | EER | LWT | HWG Cap | | PSI | FT | HC | kW | HE | COP | LWT | HWG Cap | | | | | | | | | | |
| 20 | Operation Not Recommended | | | | | | | | | | 10.5 | 4.9 | 11.3 | 25.9 | 2.59 | 16.6 | 2.9 | 16.8 | 3.4 | | | | | | | | | | |
| 30 | 3.6 | 0.6 | 1.3 | 47.8 | 34.5 | 1.65 | 53.5 | 29.0 | 60.0 | 1.1 | 5.3 | 1.6 | 3.6 | 28.9 | 2.63 | 19.5 | 3.2 | 22.6 | 3.3 | | | | | | | | | | |
| | | | | | | | | | | | 7.9 | 2.9 | 6.6 | 30.1 | 2.64 | 20.7 | 3.3 | 24.8 | 3.4 | | | | | | | | | | |
| | | | | | | | | | | | 10.5 | 4.5 | 10.4 | 30.7 | 2.65 | 21.3 | 3.4 | 25.9 | 3.4 | | | | | | | | | | |
| 40 | 5.3 | 1.4 | 3.2 | 47.4 | 34.2 | 1.71 | 53.3 | 27.7 | 60.0 | 1.1 | 5.3 | 1.4 | 3.3 | 33.4 | 2.67 | 23.9 | 3.7 | 30.9 | 3.4 | | | | | | | | | | |
| | | | | | | | | | | | 7.9 | 2.7 | 6.1 | 34.8 | 2.68 | 25.3 | 3.8 | 33.6 | 3.5 | | | | | | | | | | |
| | | | | | | | | | | | 10.5 | 4.2 | 9.7 | 35.6 | 2.69 | 26.0 | 3.9 | 35.0 | 3.6 | | | | | | | | | | |
| 50 | 5.3 | 1.3 | 3.0 | 46.4 | 33.9 | 1.85 | 53.0 | 25.0 | 70.2 | 1.8 | 5.3 | 1.3 | 3.0 | 37.8 | 2.70 | 28.2 | 4.1 | 39.2 | 3.6 | | | | | | | | | | |
| | | | | | | | | | | | 7.9 | 2.5 | 5.8 | 47.1 | 34.1 | 1.71 | 53.2 | 27.5 | 63.5 | 1.7 | 7.9 | 2.5 | 5.8 | 39.5 | 2.71 | 29.9 | 4.3 | 42.4 | 3.6 |
| | | | | | | | | | | | 10.5 | 4.0 | 9.2 | 47.4 | 34.2 | 1.65 | 53.3 | 28.8 | 60.1 | 1.5 | 10.5 | 4.0 | 9.2 | 40.4 | 2.72 | 30.8 | 4.4 | 44.1 | 3.7 |
| 60 | 5.3 | 1.2 | 2.8 | 45.0 | 33.3 | 2.11 | 52.5 | 21.3 | 80.0 | 2.5 | 5.3 | 1.2 | 2.8 | 42.2 | 2.73 | 32.5 | 4.5 | 47.6 | 3.8 | | | | | | | | | | |
| | | | | | | | | | | | 7.9 | 2.4 | 5.5 | 45.9 | 33.7 | 1.93 | 52.8 | 23.8 | 73.4 | 2.3 | 7.9 | 2.4 | 5.5 | 44.1 | 2.74 | 34.4 | 4.7 | 51.3 | 3.9 |
| | | | | | | | | | | | 10.5 | 3.8 | 8.7 | 46.4 | 33.9 | 1.85 | 53.0 | 25.0 | 70.1 | 2.1 | 10.5 | 3.8 | 8.7 | 45.2 | 2.74 | 35.4 | 4.8 | 53.3 | 4.0 |
| 70 | 5.3 | 1.2 | 2.7 | 43.2 | 32.6 | 2.41 | 51.8 | 18.0 | 89.7 | 3.3 | 5.3 | 1.2 | 2.7 | 46.5 | 2.75 | 36.8 | 5.0 | 56.0 | 4.0 | | | | | | | | | | |
| | | | | | | | | | | | 7.9 | 2.3 | 5.2 | 44.4 | 33.1 | 2.20 | 52.2 | 20.2 | 83.3 | 3.1 | 7.9 | 2.3 | 5.2 | 48.6 | 2.76 | 38.8 | 5.2 | 60.1 | 4.1 |
| | | | | | | | | | | | 10.5 | 3.6 | 8.4 | 45.0 | 33.3 | 2.11 | 52.5 | 21.3 | 80.0 | 2.8 | 10.5 | 3.6 | 8.4 | 49.7 | 2.76 | 39.9 | 5.3 | 62.4 | 4.2 |
| 80 | 5.3 | 1.1 | 2.6 | 41.2 | 31.7 | 2.74 | 50.9 | 15.0 | 99.4 | 4.4 | 5.3 | 1.1 | 2.6 | 50.7 | 2.76 | 40.9 | 5.4 | 64.4 | 4.3 | | | | | | | | | | |
| | | | | | | | | | | | 7.9 | 2.2 | 5.0 | 42.5 | 32.3 | 2.52 | 51.5 | 16.9 | 93.1 | 4.0 | 7.9 | 2.2 | 5.0 | 52.8 | 2.77 | 43.0 | 5.6 | 69.1 | 4.4 |
| | | | | | | | | | | | 10.5 | 3.5 | 8.1 | 43.2 | 32.6 | 2.41 | 51.8 | 17.9 | 89.9 | 3.6 | 10.5 | 3.5 | 8.1 | 54.0 | 2.77 | 44.1 | 5.7 | 71.6 | 4.6 |
| 90 | 5.3 | 1.1 | 2.5 | 38.8 | 30.7 | 3.11 | 49.9 | 12.5 | 109.0 | 5.6 | 4.3 | 0.6 | 1.4 | 53.3 | 2.89 | 43.5 | 5.4 | 70.0 | 4.8 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 7.9 | 2.1 | 4.8 | 40.4 | 31.4 | 2.87 | 50.6 | 14.1 | 102.8 | 5.1 |
| | | | | | | | | | | | | | | | | | | | | 10.5 | 3.4 | 7.9 | 41.1 | 31.7 | 2.75 | 50.9 | 14.9 | 99.7 | 4.7 |
| 100 | 5.3 | 1.1 | 2.4 | 36.2 | 29.6 | 3.51 | 48.7 | 10.3 | 118.5 | 7.0 | 2.9 | 0.1 | 0.2 | 53.3 | 2.89 | 43.5 | 5.4 | 70.0 | 4.8 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 7.9 | 2.0 | 4.7 | 37.9 | 30.3 | 3.26 | 49.5 | 11.6 | 112.6 | 6.4 |
| | | | | | | | | | | | | | | | | | | | | 10.5 | 3.3 | 7.6 | 38.7 | 30.7 | 3.13 | 49.8 | 12.4 | 109.5 | 5.8 |
| 110 | 5.3 | 1.0 | 2.4 | 33.4 | 28.4 | 3.93 | 47.3 | 8.5 | 128.0 | 8.6 | 2.2 | 0.1 | 0.2 | 53.3 | 2.89 | 43.5 | 5.4 | 70.0 | 4.8 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 7.9 | 2.0 | 4.5 | 35.1 | 29.1 | 3.67 | 48.2 | 9.6 | 122.2 | 7.9 |
| | | | | | | | | | | | | | | | | | | | | 10.5 | 3.2 | 7.4 | 36.0 | 29.5 | 3.54 | 48.6 | 10.2 | 119.3 | 7.2 |
| 120 | 5.3 | 1.0 | 2.2 | 30.3 | 26.9 | 4.36 | 45.8 | 6.9 | 137.4 | 10.4 | 1.7 | 0.1 | 0.2 | 53.3 | 2.89 | 43.5 | 5.4 | 70.0 | 4.8 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | 7.9 | 1.9 | 4.4 | 32.1 | 27.8 | 4.10 | 46.7 | 7.8 | 131.9 | 9.5 |
| | | | | | | | | | | | | | | | | | | | | 10.5 | 3.1 | 7.1 | 33.1 | 28.2 | 3.97 | 47.2 | 8.3 | 129.0 | 8.6 |

- Interpolation is permissible; extrapolation is not.
- All entering air conditions are 80°F (26.6°C) DB and 67°F (19.4°C) WB in cooling, and 70°F (21°C) DB in heating.
- AHRI/ISO certified conditions are 80.6°F (27°C) DB and 66.2°F (19°C) WB in cooling and 68°F (20°C) DB in heating.
- Table does not reflect fan or pump power corrections for AHRI/ISO conditions.
- All performance is based upon the lower voltage of dual voltage rated units.
- Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.
- Operation below 40°F (10.0°C) EWT is based upon 20% methanol antifreeze solution.
- Operation below 60°F (15.5°C) EWT requires optional insulated water/refrigerant circuit.
- See performance correction tables for operating conditions other than those listed above.
- See Performance Data Selection Notes for operation in the shaded areas.
- Regular Cooling operation with an EWT of less than 50°F (10.0°C) is not recommended unless variable water flow is available.
- Regular Heating operation with an EWT of more than 90°F (32°C) is not recommended unless variable water flow is available.
- For quiet operation and long term reliability, it is recommended that systems be designed to avoid continuous operation in the outlined areas.
- Performance capacities shown in thousands of Btuh
- Hot Water Generator Capacity is based on 90°F entering water and 0.5 GPM/Ton.

Performance Data SZ*060 EC Blower Motor (Full Load)

Models:
SZ
024-060

1900 CFM Rated Airflow

| EWT °F | GPM | WPD | | COOLING - EAT 80/67°F | | | | | | | GPM | WPD | | HEATING - EAT 70°F | | | | | | |
|-----------|---------------------------|-----|------|-----------------------|------|------|------|------|-------|------------|------|-----|------|--------------------|------|------|-----|------|------------|--|
| | | PSI | FT | TC | SC | kW | HR | EER | LWT | HWG Cap | | PSI | FT | HC | kW | HE | COP | LWT | HWG Cap | |
| 20 | Operation Not Recommended | | | | | | | | | | 15.0 | 9.0 | 20.7 | 38.8 | 3.58 | 26.1 | 3.2 | 16.5 | 4.1 | |
| 30 | 5.0 | 0.7 | 1.6 | 65.3 | 44.8 | 2.97 | 75.4 | 22.0 | 60.0 | 2.5 | 7.5 | 2.6 | 6.1 | 42.3 | 3.65 | 29.3 | 3.4 | 22.2 | 4.2 | |
| | | | | | | | | | | | 11.3 | 5.1 | 11.8 | 43.8 | 3.69 | 30.7 | 3.5 | 24.5 | 4.3 | |
| | | | | | | | | | | | 15.0 | 8.2 | 19.0 | 44.6 | 3.70 | 31.5 | 3.5 | 25.8 | 4.4 | |
| 40 | 7.5 | 2.3 | 5.3 | 64.3 | 44.4 | 2.99 | 74.5 | 21.5 | 60.0 | 2.5 | 7.5 | 2.4 | 5.6 | 47.9 | 3.77 | 34.5 | 3.7 | 30.8 | 4.5 | |
| | | | | | | | | | | | 11.3 | 4.8 | 11.0 | 49.8 | 3.81 | 36.3 | 3.8 | 33.6 | 4.6 | |
| | | | | | | | | | | | 15.0 | 7.6 | 17.6 | 50.8 | 3.84 | 37.2 | 3.9 | 35.0 | 4.7 | |
| 50 | 7.5 | 2.3 | 5.2 | 63.6 | 44.0 | 3.11 | 74.7 | 20.5 | 69.9 | 3.4 | 7.5 | 2.3 | 5.2 | 53.8 | 3.90 | 39.9 | 4.0 | 39.3 | 4.8 | |
| | 11.3 | 4.4 | 10.3 | 64.2 | 44.3 | 2.94 | 74.6 | 21.8 | 63.3 | 3.1 | 11.3 | 4.4 | 10.3 | 56.0 | 3.95 | 42.0 | 4.2 | 42.5 | 4.9 | |
| | 15.0 | 7.2 | 16.5 | 64.3 | 44.4 | 2.87 | 74.5 | 22.4 | 59.9 | 2.8 | 15.0 | 7.2 | 16.5 | 57.2 | 3.98 | 43.1 | 4.2 | 44.3 | 5.1 | |
| 60 | 7.5 | 2.1 | 4.9 | 62.3 | 43.5 | 3.39 | 74.3 | 18.4 | 79.8 | 4.0 | 7.5 | 2.1 | 4.9 | 59.8 | 4.03 | 45.5 | 4.3 | 47.9 | 5.2 | |
| | 11.3 | 4.2 | 9.7 | 63.3 | 43.9 | 3.20 | 74.6 | 19.8 | 73.3 | 3.7 | 11.3 | 4.2 | 9.7 | 62.4 | 4.09 | 47.8 | 4.5 | 51.5 | 5.4 | |
| | 15.0 | 6.8 | 15.7 | 63.6 | 44.0 | 3.11 | 74.7 | 20.5 | 70.0 | 3.4 | 15.0 | 6.8 | 15.7 | 63.7 | 4.12 | 49.1 | 4.5 | 53.5 | 5.5 | |
| 70 | 7.5 | 2.0 | 4.7 | 60.3 | 42.6 | 3.71 | 73.5 | 16.3 | 89.6 | 4.9 | 7.5 | 2.0 | 4.7 | 65.8 | 4.17 | 51.0 | 4.6 | 56.4 | 5.7 | |
| | 11.3 | 4.0 | 9.2 | 61.7 | 43.2 | 3.49 | 74.1 | 17.7 | 83.2 | 4.5 | 11.3 | 4.0 | 9.2 | 68.7 | 4.24 | 53.6 | 4.7 | 60.5 | 5.8 | |
| | 15.0 | 6.5 | 15.0 | 62.3 | 43.4 | 3.39 | 74.3 | 18.4 | 79.9 | 4.1 | 15.0 | 6.5 | 15.0 | 70.2 | 4.28 | 55.0 | 4.8 | 62.7 | 6.0 | |
| 80 | 7.5 | 2.0 | 4.5 | 57.8 | 41.6 | 4.08 | 72.4 | 14.2 | 99.3 | 5.9 | 7.5 | 2.0 | 4.5 | 71.8 | 4.32 | 56.5 | 4.9 | 64.9 | 6.2 | |
| | 11.3 | 3.8 | 8.8 | 59.5 | 42.3 | 3.83 | 73.1 | 15.5 | 93.0 | 5.5 | 11.3 | 3.8 | 8.8 | 74.9 | 4.40 | 59.3 | 5.0 | 69.5 | 6.4 | |
| | 15.0 | 6.3 | 14.5 | 60.3 | 42.6 | 3.72 | 73.5 | 16.2 | 89.8 | 5.0 | 15.0 | 6.3 | 14.4 | 76.5 | 4.44 | 60.8 | 5.1 | 71.9 | 6.6 | |
| 90 | 7.5 | 1.9 | 4.3 | 55.0 | 40.4 | 4.51 | 71.0 | 12.2 | 108.9 | 7.2 | 6.0 | 0.9 | 2.2 | 75.3 | 4.59 | 59.7 | 4.8 | 70.0 | 7.0 | |
| | 11.3 | 3.7 | 8.5 | 56.9 | 41.2 | 4.23 | 71.9 | 13.4 | 102.8 | 6.6 | | | | | | | | | | |
| | 15.0 | 6.1 | 14.0 | 57.8 | 41.6 | 4.10 | 72.3 | 14.1 | 99.6 | 6.0 | | | | | | | | | | |
| 100 | 7.5 | 1.8 | 4.2 | 51.8 | 39.1 | 5.01 | 69.6 | 10.3 | 118.6 | 8.8 | 4.0 | 0.1 | 0.2 | 75.3 | 4.59 | 59.7 | 4.8 | 70.0 | 7.0 | |
| | 11.3 | 3.6 | 8.2 | 53.8 | 39.9 | 4.69 | 70.5 | 11.5 | 112.5 | 8.0 | | | | | | | | | | |
| | 15.0 | 5.9 | 13.5 | 54.8 | 40.3 | 4.54 | 71.0 | 12.1 | 109.5 | 7.3 | | | | | | | | | | |
| 110 | 7.5 | 1.7 | 4.0 | 48.4 | 37.6 | 5.59 | 68.3 | 8.7 | 128.2 | 10.5 | 3.0 | 0.1 | 0.2 | 75.3 | 4.59 | 59.7 | 4.8 | 70.0 | 7.0 | |
| | 11.3 | 3.4 | 7.9 | 50.5 | 38.5 | 5.22 | 69.1 | 9.7 | 122.3 | 9.6 | | | | | | | | | | |
| | 15.0 | 5.6 | 13.0 | 51.6 | 39.0 | 5.05 | 69.5 | 10.2 | 119.3 | 8.8 | | | | | | | | | | |
| 120 | 7.5 | 1.6 | 3.8 | 44.9 | 35.9 | 6.25 | 67.1 | 7.2 | 137.9 | 12.5 | 2.4 | 0.1 | 0.2 | 75.3 | 4.59 | 59.7 | 4.8 | 70.0 | 7.0 | |
| | 11.3 | 3.3 | 7.5 | 47.0 | 36.9 | 5.84 | 67.8 | 8.1 | 132.1 | 11.5 | | | | | | | | | | |
| | 15.0 | 5.4 | 12.5 | 48.1 | 37.4 | 5.64 | 68.2 | 8.5 | 129.1 | 10.4 | | | | | | | | | | |

- Interpolation is permissible; extrapolation is not.
- All entering air conditions are 80°F (26.6°C) DB and 67°F (19.4°C) WB in cooling, and 70°F (21°C) DB in heating.
- AHRI/ISO certified conditions are 80.6°F (27°C) DB and 66.2°F (19°C) WB in cooling and 68°F (20°C) DB in heating.
- Table does not reflect fan or pump power corrections for AHRI/ISO conditions.
- All performance is based upon the lower voltage of dual voltage rated units.
- Performance stated is at the rated power supply; performance may vary as the power supply varies from the rated.
- Operation below 40°F (10.0°C) EWT is based upon 20% methanol antifreeze solution.
- Operation below 60°F (15.5°C) EWT requires optional insulated water/refrigerant circuit.
- See performance correction tables for operating conditions other than those listed above.
- See Performance Data Selection Notes for operation in the shaded areas.
- Regular Cooling operation with an EWT of less than 50°F (10.0°C) is not recommended unless variable water flow is available.
- Regular Heating operation with an EWT of more than 90°F (32°C) is not recommended unless variable water flow is available.
- For quiet operation and long term reliability, it is recommended that systems be designed to avoid continuous operation in the outlined areas.
- Performance capacities shown in thousands of Btuh
- Hot Water Generator Capacity is based on 90°F entering water and 0.5 GPM/Ton.

Blower Performance: CV EC Standard Unit

Models:
SZ
024-060

CV EC MOTOR ADVANTAGE

A major benefit of the CV EC motor over other blower motor types is its ability to adjust airflow remotely through the iGate 2 web portal/mobile app or directly at the unit with the Wireless Service Tool. Airflow levels can be adjusted in increments of 25 CFM from the unit's minimum and maximum CFM range (see the Blower Performance: CV EC Blower Motor Standard Unit table for details).

Blower Performance: CV EC Blower Motor Standard Unit

| Model | Max ESP (in wg) | Fan Motor (hp) | Range | Cooling Mode | | Heating Mode | | Dehumid Mode | | Fan Only Mode | Aux Emergency Mode |
|-------|-----------------|----------------|---------|--------------|---------|--------------|---------|--------------|---------|---------------|--------------------|
| | | | | Stage 2 | Stage 1 | Stage 2 | Stage 1 | Stage 2 | Stage 1 | | |
| SZ024 | 0.75 | 1/2 | Minimum | 600 | 450 | 600 | 450 | 600 | 450 | 300 | 600 |
| | | | Default | 750 | 600 | 750 | 600 | 650 | 500 | 350 | 750 |
| | | | Maximum | 850 | 650 | 850 | 650 | 800 | 600 | 850 | 850 |
| SZ030 | 0.5 | 1/2 | Minimum | 750 | 550 | 750 | 550 | 750 | 550 | 375 | 750 |
| | | | Default | 925 | 750 | 925 | 750 | 800 | 625 | 425 | 925 |
| | | | Maximum | 1,050 | 800 | 1,050 | 800 | 1,000 | 750 | 1,050 | 1,050 |
| SZ036 | 0.6 | 3/4 | Minimum | 900 | 675 | 900 | 675 | 900 | 675 | 450 | 900 |
| | | | Default | 1,125 | 900 | 1,125 | 900 | 975 | 750 | 525 | 1,125 |
| | | | Maximum | 1,275 | 975 | 1,275 | 975 | 1,200 | 900 | 1,275 | 1,275 |
| SZ042 | 0.6 | 3/4 | Minimum | 1,050 | 775 | 1,050 | 775 | 1,050 | 775 | 525 | 1,050 |
| | | | Default | 1,300 | 1,050 | 1,300 | 1,050 | 1,125 | 875 | 600 | 1,300 |
| | | | Maximum | 1,475 | 1,125 | 1,475 | 1,125 | 1,400 | 1,050 | 1,475 | 1,475 |
| SZ048 | 0.6 | 3/4 | Minimum | 1,200 | 900 | 1,200 | 900 | 1,200 | 900 | 600 | 1,200 |
| | | | Default | 1,500 | 1,200 | 1,500 | 1,200 | 1,300 | 1,000 | 700 | 1,500 |
| | | | Maximum | 1,700 | 1,300 | 1,700 | 1,300 | 1,600 | 1,200 | 1,700 | 1,700 |
| SZ060 | 0.75 | 1 | Minimum | 1,500 | 1,125 | 1,500 | 1,125 | 1,500 | 1,125 | 750 | 1,500 |
| | | | Default | 1,875 | 1,500 | 1,875 | 1,500 | 1,625 | 1,250 | 875 | 1,875 |
| | | | Maximum | 2,125 | 1,625 | 2,125 | 1,625 | 2,000 | 1,500 | 2,125 | 2,125 |

- Blower performance data is based on the lowest nameplate voltage setting.
- Blower performance is based on a wet coil with clean 1-inch filter.
- Blower performance is based on operating conditions of 80°F DB and 67°F WB.
- CFM Tolerance is ±7%
- The maximum allowable altitude of installation for this product is 6,561 ft (2,000 m).

Electrical Data: CV EC Blower Motor

Models:
SZ
024-060

Units without Internal Flow Controller

| Model | Voltage Code | Voltage | Voltage Min/Max | Compressor | | | | Fan Motor FLA | Pump HWG FLA | Total Unit FLA | Min Circ Amp | Max Fuse Calc'd | Fuse HACR |
|--------|--------------|--------------|-----------------|------------|------|-------|-----|---------------|--------------|----------------|--------------|-----------------|-----------|
| | | | | MCC | RLA | LRA | Qty | | | | | | |
| SZ*024 | G.J. | 208/230-1-60 | 187/252 | 16.0 | 10.3 | 62.0 | 1 | 4.2 | 0.28 | 14.8 | 17.4 | 27.7 | 25 |
| SZ*030 | G.J. | 208/230-1-60 | 187/252 | 22.7 | 14.6 | 82.0 | 1 | 4.2 | 0.28 | 19.1 | 22.7 | 37.3 | 35 |
| SZ*036 | G.J. | 208/230-1-60 | 187/252 | 22.7 | 14.6 | 76.0 | 1 | 5.9 | 0.28 | 20.8 | 24.4 | 39.0 | 35 |
| SZ*042 | G.J. | 208/230-1-60 | 187/252 | 28.4 | 18.2 | 37.0 | 1 | 5.9 | 0.28 | 24.4 | 28.9 | 47.1 | 45 |
| SZ*048 | G.J. | 208/230-1-60 | 187/252 | 28.6 | 18.3 | 138.0 | 1 | 5.9 | 0.28 | 24.5 | 29.1 | 47.4 | 45 |
| SZ*060 | J. | 208/230-1-60 | 187/252 | 34.8 | 22.3 | 149.0 | 1 | 7.5 | 0.28 | 30.1 | 35.7 | 58.0 | 50 |

Note:

- Total Unit FLA includes HWG FLA

Units with Internal Flow Controller - Standard Head Variable Pump

| Model | Voltage Code | Voltage | Voltage Min/Max | Compressor | | | | Fan Motor FLA | Pump | | Total Unit FLA | Min Circ Amp | Max Fuse Calc'd | Fuse HACR |
|--------|--------------|--------------|-----------------|------------|------|-------|-----|---------------|-----------|---------|----------------|--------------|-----------------|-----------|
| | | | | MCC | RLA | LRA | Qty | | Motor FLA | HWG FLA | | | | |
| SZ*024 | G.J. | 208/230-1-60 | 187/252 | 16.0 | 10.3 | 62.0 | 1 | 4.2 | 0.64 | 0.28 | 15.4 | 18.0 | 28.3 | 25 |
| SZ*030 | G.J. | 208/230-1-60 | 187/252 | 22.7 | 14.6 | 82.0 | 1 | 4.2 | 0.64 | 0.28 | 19.7 | 23.4 | 38.0 | 35 |
| SZ*036 | G.J. | 208/230-1-60 | 187/252 | 22.7 | 14.6 | 76.0 | 1 | 5.9 | 0.64 | 0.28 | 21.4 | 25.1 | 39.7 | 35 |
| SZ*042 | G.J. | 208/230-1-60 | 187/252 | 28.4 | 18.2 | 37.0 | 1 | 5.9 | 0.64 | 0.28 | 25.0 | 29.6 | 47.8 | 45 |
| SZ*048 | G.J. | 208/230-1-60 | 187/252 | 28.6 | 18.3 | 138.0 | 1 | 5.9 | 0.64 | 0.28 | 25.1 | 29.7 | 48.0 | 45 |
| SZ*060 | J. | 208/230-1-60 | 187/252 | 34.8 | 22.3 | 149.0 | 1 | 7.5 | 0.64 | 0.28 | 30.7 | 36.3 | 58.6 | 50 |

Note:

- Total Unit FLA includes HWG FLA

Units with Internal Flow Controller - High Head Variable Pump

| Model | Voltage Code | Voltage | Voltage Min/Max | Compressor | | | | Fan Motor FLA | Pump | | Total Unit FLA | Min Circ Amp | Max Fuse Calc'd | Fuse HACR |
|--------|--------------|--------------|-----------------|------------|------|-------|-----|---------------|-----------|---------|----------------|--------------|-----------------|-----------|
| | | | | MCC | RLA | LRA | Qty | | Motor FLA | HWG FLA | | | | |
| SZ*024 | G.J. | 208/230-1-60 | 187/252 | 16.0 | 10.3 | 62.0 | 1 | 4.2 | 1.44 | 0.28 | 16.2 | 18.8 | 29.1 | 25 |
| SZ*030 | G.J. | 208/230-1-60 | 187/252 | 22.7 | 14.6 | 82.0 | 1 | 4.2 | 1.44 | 0.28 | 20.5 | 24.2 | 38.8 | 35 |
| SZ*036 | G.J. | 208/230-1-60 | 187/252 | 22.7 | 14.6 | 76.0 | 1 | 5.9 | 1.44 | 0.28 | 22.2 | 25.9 | 40.5 | 40 |
| SZ*042 | G.J. | 208/230-1-60 | 187/252 | 28.4 | 18.2 | 37.0 | 1 | 5.9 | 1.44 | 0.28 | 25.8 | 30.4 | 48.6 | 45 |
| SZ*048 | G.J. | 208/230-1-60 | 187/252 | 28.6 | 18.3 | 138.0 | 1 | 5.9 | 1.44 | 0.28 | 25.9 | 30.5 | 48.8 | 45 |
| SZ*060 | J. | 208/230-1-60 | 187/252 | 34.8 | 22.3 | 149.0 | 1 | 7.5 | 1.44 | 0.28 | 31.5 | 37.1 | 59.4 | 50 |

Note:

- Total Unit FLA includes HWG FLA

Part Load Performance: Correction Tables

Models:
SZ
024-060

Cooling Correction

| Entering Air WB °F | Total Capacity | Sensible Cooling Capacity Multipliers - Entering DB °F | | | | | | Power | Heat of Rejection |
|--------------------|----------------|--|-------|-------|-------|-------|-------|-------|-------------------|
| | | 65 | 70 | 75 | 80 | 85 | 90 | | |
| 50 | 0.708 | 1.115 | * | * | * | * | * | 1.015 | 0.783 |
| 55 | 0.794 | 0.893 | 1.105 | * | * | * | * | 1.011 | 0.847 |
| 60 | 0.880 | 0.671 | 0.883 | * | * | * | * | 1.006 | 0.911 |
| 65 | 0.966 | | 0.662 | 0.868 | 1.088 | 1.279 | * | 1.002 | 0.975 |
| 67 | 1.000 | | 0.574 | 0.779 | 1.000 | 1.190 | 1.396 | 1.000 | 1.000 |
| 70 | 1.051 | | | 0.646 | 0.868 | 1.057 | 1.263 | 0.997 | 1.038 |
| 75 | 1.137 | | | | 0.648 | 0.835 | 1.041 | 0.993 | 1.102 |

Notes:

- AHRI/ISO/ASHRAE 13256-1 uses entering air conditions of Cooling - 80.6°F (27°C) DB/ 66.2°F (19°C) WB, and Heating 68°F (20°C) DB/ 59°F (15°C) WB entering air temperature.
- Asterisks indicate that no correction factor is needed, Total Capacity equals Sensible capacity.
- Entering DB temperature range is based on operating limits, not on commission limits.
- Cooling and heating air corrections based on rated airflow.

Entering Air Heating Correction

| Entering Air WB °F | Heating Capacity | Power | Heat of Rejection |
|--------------------|------------------|-------|-------------------|
| 50 | 1.020 | 0.763 | 1.102 |
| 55 | 1.015 | 0.822 | 1.076 |
| 60 | 1.010 | 0.882 | 1.051 |
| 65 | 1.005 | 0.941 | 1.025 |
| 70 | 1.000 | 1.000 | 1.000 |
| 75 | 0.995 | 1.059 | 0.975 |
| 80 | 0.990 | 1.118 | 0.949 |

Airflow Correction

| % of Rated | Heating | | | Cooling | | | | |
|------------|------------------|-------|--------------------|----------------|-------------------|-------|-------|-------------------|
| | Heating Capacity | Power | Heat of Extraction | Total Capacity | Sensible Capacity | S/T | Power | Heat of Rejection |
| 80 | 0.969 | 1.009 | 0.974 | 0.979 | 0.905 | 0.924 | 0.947 | 0.979 |
| 85 | 0.977 | 1.007 | 0.980 | 0.984 | 0.929 | 0.944 | 0.961 | 0.984 |
| 90 | 0.984 | 1.005 | 0.987 | 0.989 | 0.952 | 0.963 | 0.974 | 0.989 |
| 95 | 0.992 | 1.002 | 0.993 | 0.995 | 0.976 | 0.981 | 0.987 | 0.995 |
| 100 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 105 | 1.008 | 0.998 | 1.007 | 1.005 | 1.024 | 1.018 | 1.013 | 1.005 |
| 110 | 1.016 | 0.995 | 1.013 | 1.011 | 1.048 | 1.037 | 1.026 | 1.011 |

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Full Load Performance: Correction Tables

Models:
SZ
024-060

Cooling Correction

| Entering Air WB °F | Total Capacity | Sensible Cooling Capacity Multipliers - Entering DB °F | | | | | | Power | Heat of Rejection |
|--------------------|----------------|--|-------|-------|-------|-------|-------|-------|-------------------|
| | | 65 | 70 | 75 | 80 | 85 | 90 | | |
| 50 | 0.730 | 1.137 | * | * | * | * | * | 0.944 | 0.786 |
| 55 | 0.809 | 0.913 | 1.117 | * | * | * | * | 0.960 | 0.849 |
| 60 | 0.889 | 0.689 | 0.894 | * | * | * | * | 0.977 | 0.912 |
| 65 | 0.968 | | 0.672 | 0.877 | 1.087 | 1.287 | * | 0.993 | 0.975 |
| 67 | 1.000 | | 0.583 | 0.788 | 1.000 | 1.199 | 1.404 | 1.000 | 1.000 |
| 70 | 1.048 | | | 0.655 | 0.869 | 1.067 | 1.272 | 1.010 | 1.038 |
| 75 | 1.127 | | | | 0.650 | 0.847 | 1.053 | 1.027 | 1.101 |

Notes:

- AHRI/ISO/ASHRAE 13256-1 uses entering air conditions of Cooling - 80.6°F (27°C) DB/ 66.2°F (19°C) WB, and Heating 68°F (20°C) DB/ 59°F (15°C) WB entering air temperature.
- Asterisks indicate that no correction factor is needed, Total Capacity equals Sensible capacity.
- Entering DB temperature range is based on operating limits, not on commission limits.
- Cooling and heating air corrections based on rated airflow.

Entering Air Heating Correction

| Entering Air WB °F | Heating Capacity | Power | Heat of Rejection |
|--------------------|------------------|-------|-------------------|
| 50 | 1.026 | 0.807 | 1.103 |
| 55 | 1.019 | 0.855 | 1.077 |
| 60 | 1.013 | 0.904 | 1.052 |
| 65 | 1.006 | 0.952 | 1.026 |
| 70 | 1.000 | 1.000 | 1.000 |
| 75 | 0.994 | 1.048 | 0.974 |
| 80 | 0.987 | 1.096 | 0.948 |

Airflow Correction

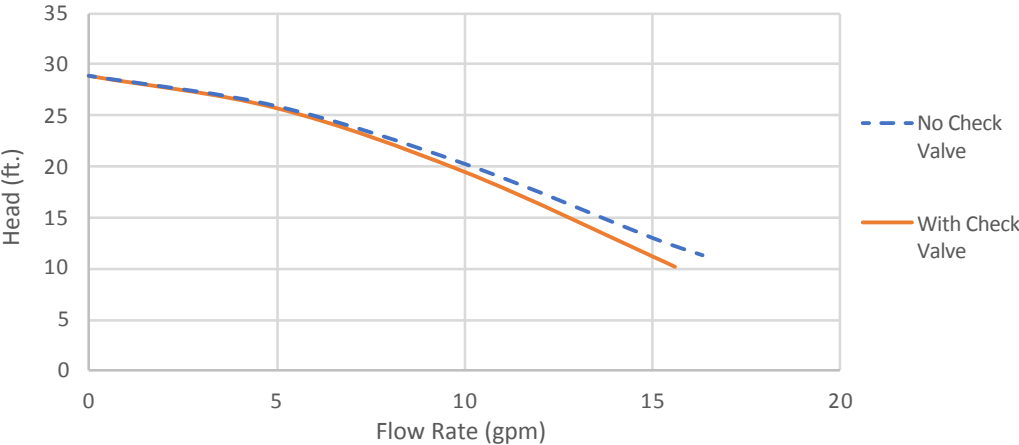
| % of Rated | Heating | | | Cooling | | | | |
|------------|------------------|-------|--------------------|----------------|-------------------|-------|-------|-------------------|
| | Heating Capacity | Power | Heat of Extraction | Total Capacity | Sensible Capacity | S/T | Power | Heat of Rejection |
| 80 | 0.963 | 1.008 | 0.965 | 0.975 | 0.913 | 0.936 | 0.937 | 0.974 |
| 85 | 0.972 | 1.006 | 0.974 | 0.981 | 0.935 | 0.952 | 0.952 | 0.980 |
| 90 | 0.981 | 1.004 | 0.983 | 0.988 | 0.956 | 0.968 | 0.968 | 0.987 |
| 95 | 0.991 | 1.002 | 0.991 | 0.994 | 0.978 | 0.984 | 0.984 | 0.993 |
| 100 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| 105 | 1.009 | 0.998 | 1.009 | 1.006 | 1.022 | 1.015 | 1.016 | 1.007 |
| 110 | 1.019 | 0.996 | 1.017 | 1.012 | 1.044 | 1.031 | 1.032 | 1.013 |

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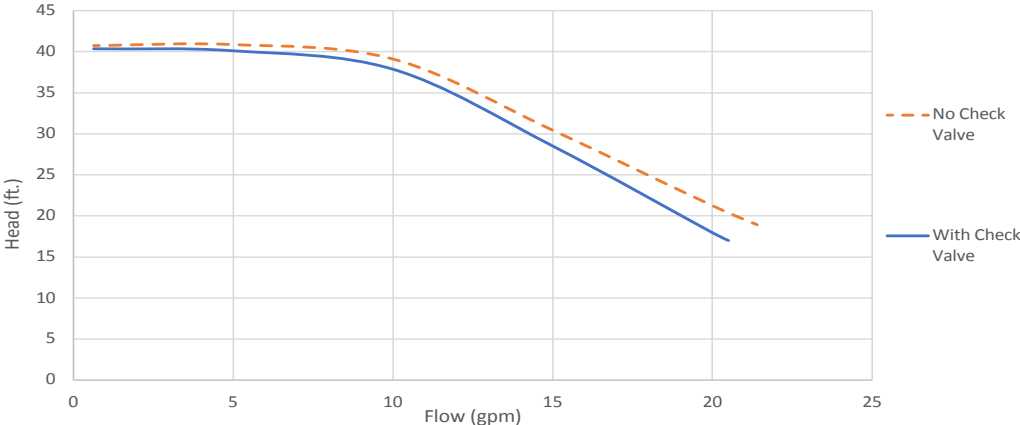
High Head and Standard Variable Pump Performance

Models:
SZ
024-060

Standard Head Variable Pump Performance



High Head Variable Pump Performance



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Antifreeze Correction Table

Models:
SZ
024-060

| EWT (°F) | Antifreeze Type | Antifreeze % | Cooling | | | Heating | | WPD |
|-------------|------------------|--------------|-----------|--------------|-------|-----------|-------|-------|
| | | | Total Cap | Sensible Cap | Watts | Total Cap | Watts | |
| 90 | Water | 0% | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| | Ethanol | 5% | 0.998 | 0.998 | 1.002 | 0.996 | 0.999 | 1.025 |
| | | 10% | 0.996 | 0.996 | 1.003 | 0.991 | 0.997 | 1.048 |
| | | 15% | 0.994 | 0.994 | 1.005 | 0.987 | 0.996 | 1.098 |
| | | 20% | 0.991 | 0.991 | 1.006 | 0.982 | 0.994 | 1.142 |
| | | 25% | 0.986 | 0.986 | 1.009 | 0.972 | 0.991 | 1.207 |
| | | 30% | 0.981 | 0.981 | 1.012 | 0.962 | 0.988 | 1.265 |
| | | 35% | 0.977 | 0.977 | 1.015 | 0.953 | 0.985 | 1.312 |
| | | 40% | 0.972 | 0.972 | 1.018 | 0.943 | 0.982 | 1.370 |
| | | 45% | 0.966 | 0.966 | 1.023 | 0.931 | 0.978 | 1.431 |
| | | 50% | 0.959 | 0.959 | 1.027 | 0.918 | 0.974 | 1.494 |
| | Ethylene Glycol | 5% | 0.998 | 0.998 | 1.002 | 0.996 | 0.999 | 1.021 |
| | | 10% | 0.996 | 0.996 | 1.003 | 0.991 | 0.997 | 1.040 |
| | | 15% | 0.994 | 0.994 | 1.004 | 0.987 | 0.996 | 1.079 |
| | | 20% | 0.991 | 0.991 | 1.005 | 0.982 | 0.995 | 1.114 |
| | | 25% | 0.988 | 0.988 | 1.008 | 0.976 | 0.993 | 1.146 |
| | | 30% | 0.985 | 0.985 | 1.010 | 0.969 | 0.990 | 1.175 |
| | | 35% | 0.982 | 0.982 | 1.012 | 0.963 | 0.988 | 1.208 |
| | | 40% | 0.979 | 0.979 | 1.014 | 0.956 | 0.986 | 1.243 |
| | | 45% | 0.976 | 0.976 | 1.016 | 0.950 | 0.984 | 1.278 |
| | | 50% | 0.972 | 0.972 | 1.018 | 0.943 | 0.982 | 1.314 |
| | Methanol | 5% | 0.997 | 0.997 | 1.002 | 0.993 | 0.998 | 1.039 |
| | | 10% | 0.993 | 0.993 | 1.004 | 0.986 | 0.996 | 1.075 |
| | | 15% | 0.990 | 0.990 | 1.007 | 0.979 | 0.994 | 1.116 |
| | | 20% | 0.986 | 0.986 | 1.009 | 0.972 | 0.991 | 1.154 |
| | | 25% | 0.982 | 0.982 | 1.012 | 0.964 | 0.989 | 1.189 |
| | | 30% | 0.978 | 0.978 | 1.014 | 0.955 | 0.986 | 1.221 |
| | | 35% | 0.974 | 0.974 | 1.017 | 0.947 | 0.984 | 1.267 |
| | | 40% | 0.970 | 0.970 | 1.020 | 0.939 | 0.981 | 1.310 |
| | | 45% | 0.966 | 0.966 | 1.023 | 0.930 | 0.978 | 1.353 |
| | | 50% | 0.961 | 0.961 | 1.026 | 0.920 | 0.975 | 1.398 |
| | Propylene Glycol | 5% | 0.995 | 0.995 | 1.003 | 0.990 | 0.997 | 1.065 |
| | | 10% | 0.990 | 0.990 | 1.006 | 0.980 | 0.994 | 1.119 |
| | | 15% | 0.986 | 0.986 | 1.009 | 0.971 | 0.991 | 1.152 |
| | | 20% | 0.981 | 0.981 | 1.012 | 0.962 | 0.988 | 1.182 |
| | | 25% | 0.978 | 0.978 | 1.014 | 0.956 | 0.986 | 1.227 |
| | | 30% | 0.975 | 0.975 | 1.016 | 0.950 | 0.984 | 1.267 |
| | | 35% | 0.972 | 0.972 | 1.018 | 0.944 | 0.982 | 1.312 |
| | | 40% | 0.969 | 0.969 | 1.020 | 0.938 | 0.980 | 1.356 |
| | | 45% | 0.965 | 0.965 | 1.023 | 0.929 | 0.977 | 1.402 |
| | | 50% | 0.960 | 0.960 | 1.026 | 0.919 | 0.974 | 1.450 |

Table continued on next page

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Antifreeze Correction Table

Models:
SZ
024-060

Table continued from previous page

| EWT (°F) | Antifreeze Type | Antifreeze % | Cooling | | | Heating | | WPD |
|-------------|------------------|--------------|-----------|--------------|-------|-----------|-------|-------|
| | | | Total Cap | Sensible Cap | Watts | Total Cap | Watts | |
| 30 | Water | 0% | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 | 1.000 |
| | Ethanol | 5% | 0.991 | 0.991 | 1.006 | 0.981 | 0.994 | 1.140 |
| | | 10% | 0.981 | 0.981 | 1.012 | 0.961 | 0.988 | 1.242 |
| | | 15% | 0.973 | 0.973 | 1.018 | 0.944 | 0.983 | 1.295 |
| | | 20% | 0.964 | 0.964 | 1.024 | 0.927 | 0.977 | 1.343 |
| | | 25% | 0.959 | 0.959 | 1.028 | 0.917 | 0.974 | 1.363 |
| | | 30% | 0.954 | 0.954 | 1.031 | 0.907 | 0.970 | 1.383 |
| | | 35% | 0.949 | 0.949 | 1.035 | 0.897 | 0.967 | 1.468 |
| | | 40% | 0.944 | 0.944 | 1.038 | 0.887 | 0.964 | 1.523 |
| | | 45% | 0.940 | 0.940 | 1.041 | 0.880 | 0.962 | 1.580 |
| | 50% | 0.936 | 0.936 | 1.043 | 0.872 | 0.959 | 1.639 | |
| | Ethylene Glycol | 5% | 0.997 | 0.997 | 1.002 | 0.993 | 0.998 | 1.040 |
| | | 10% | 0.993 | 0.993 | 1.004 | 0.986 | 0.996 | 1.075 |
| | | 15% | 0.990 | 0.990 | 1.006 | 0.980 | 0.994 | 1.122 |
| | | 20% | 0.987 | 0.987 | 1.008 | 0.973 | 0.992 | 1.163 |
| | | 25% | 0.983 | 0.983 | 1.011 | 0.966 | 0.990 | 1.195 |
| | | 30% | 0.979 | 0.979 | 1.013 | 0.958 | 0.987 | 1.225 |
| | | 35% | 0.976 | 0.976 | 1.016 | 0.951 | 0.985 | 1.279 |
| | | 40% | 0.972 | 0.972 | 1.018 | 0.943 | 0.982 | 1.324 |
| | | 45% | 0.969 | 0.969 | 1.021 | 0.937 | 0.980 | 1.371 |
| | 50% | 0.966 | 0.966 | 1.023 | 0.930 | 0.978 | 1.419 | |
| | Methanol | 5% | 0.995 | 0.995 | 1.004 | 0.989 | 0.997 | 1.069 |
| | | 10% | 0.989 | 0.989 | 1.007 | 0.978 | 0.993 | 1.127 |
| | | 15% | 0.984 | 0.984 | 1.011 | 0.968 | 0.990 | 1.164 |
| | | 20% | 0.979 | 0.979 | 1.014 | 0.957 | 0.986 | 1.197 |
| | | 25% | 0.975 | 0.975 | 1.017 | 0.949 | 0.984 | 1.216 |
| | | 30% | 0.971 | 0.971 | 1.019 | 0.941 | 0.981 | 1.235 |
| | | 35% | 0.967 | 0.967 | 1.022 | 0.933 | 0.979 | 1.286 |
| | | 40% | 0.963 | 0.963 | 1.025 | 0.924 | 0.976 | 1.323 |
| | | 45% | 0.959 | 0.959 | 1.028 | 0.917 | 0.974 | 1.360 |
| | 50% | 0.955 | 0.955 | 1.030 | 0.910 | 0.971 | 1.399 | |
| | Propylene Glycol | 5% | 0.995 | 0.995 | 1.004 | 0.989 | 0.997 | 1.071 |
| | | 10% | 0.989 | 0.989 | 1.007 | 0.978 | 0.993 | 1.130 |
| | | 15% | 0.985 | 0.985 | 1.010 | 0.968 | 0.990 | 1.206 |
| | | 20% | 0.980 | 0.980 | 1.013 | 0.958 | 0.987 | 1.270 |
| | | 25% | 0.974 | 0.974 | 1.017 | 0.947 | 0.983 | 1.359 |
| | | 30% | 0.968 | 0.968 | 1.021 | 0.935 | 0.979 | 1.433 |
| | | 35% | 0.963 | 0.963 | 1.025 | 0.924 | 0.976 | 1.522 |
| | | 40% | 0.957 | 0.957 | 1.029 | 0.913 | 0.972 | 1.614 |
| | | 45% | 0.949 | 0.949 | 1.034 | 0.898 | 0.967 | 1.712 |
| | 50% | 0.941 | 0.941 | 1.039 | 0.882 | 0.962 | 1.816 | |

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Water Pressure Drop Adder for Options: Correction Tables

Models:
SZ
024-060

System Pressure Drop Valve

| Model | GPM | Low System Pressure Drop Valve (Adders) | | | | | High System Pressure Drop Valve (Adders) | | | | |
|-------|------|---|-----------|------|------|------|--|-----------|------|------|------|
| | | CV | Close Off | MOPD | PSI | FT | CV | Close Off | MOPD | PSI | FT |
| SZ024 | 6 | 4.7 | 200 | 30 | 1.63 | 3.76 | 4.7 | 200 | 30 | 0.64 | 1.48 |
| | 4.5 | | | | 0.92 | 2.12 | | | | 0.20 | 0.47 |
| | 3 | | | | 0.41 | 0.94 | | | | 0.04 | 0.09 |
| SZ030 | 7.5 | 7.4 | 200 | 30 | 1.03 | 2.37 | 4.7 | 200 | 30 | 0.25 | 0.59 |
| | 5.6 | | | | 0.57 | 1.32 | | | | 0.08 | 0.18 |
| | 3.8 | | | | 0.26 | 0.61 | | | | 0.02 | 0.04 |
| SZ036 | 9 | 7.4 | 200 | 30 | 1.48 | 3.42 | 4.7 | 200 | 30 | 0.53 | 1.22 |
| | 6.8 | | | | 0.84 | 1.95 | | | | 0.17 | 0.40 |
| | 4.5 | | | | 0.37 | 0.85 | | | | 0.03 | 0.08 |
| SZ042 | 10.5 | 10 | 200 | 30 | 1.10 | 2.55 | 4.7 | 200 | 30 | 0.29 | 0.68 |
| | 7.9 | | | | 0.62 | 1.44 | | | | 0.09 | 0.22 |
| | 5.2 | | | | 0.27 | 0.62 | | | | 0.02 | 0.04 |
| SZ048 | 12 | 10 | 200 | 30 | 1.44 | 3.33 | 4.7 | 200 | 30 | 0.50 | 1.16 |
| | 9 | | | | 0.81 | 1.87 | | | | 0.16 | 0.37 |
| | 6 | | | | 0.36 | 0.83 | | | | 0.03 | 0.07 |
| SZ060 | 15 | 19 | 200 | 30 | 0.62 | 1.44 | 7.4 | 200 | 30 | 0.04 | 0.09 |
| | 11.3 | | | | 0.35 | 0.82 | | | | 0.01 | 0.03 |
| | 7.5 | | | | 0.16 | 0.36 | | | | 0.00 | 0.01 |

Tranquility (SZ) Series

| Unit Size | 024 | 030 | 036 | 042 | 048 | 060 |
|--|--------|-------|---------|---------|--------------------|--------------------|
| Compressor (1 Each) | Scroll | | | | | |
| Number of refrigerant circuits | 1 | 1 | 1 | 1 | 1 | 1 |
| Factory Charge R-454B (oz) | 40 | 36 | 46 | 56 | 56 | 69 |
| Refrigerant Leak Detection System | O | O | O | O | O | R |
| Number of Sensors | 2 | 2 | 2 | 2 | 2 | 2 |
| Water Connection Size | | | | | | |
| Swivel | 1" | 1" | 1" | 1" | 1" | 1" |
| System Water Volume (gal) ¹ | 0.323 | 0.323 | 0.738 | 0.890 | 0.890 | 0.939 |
| Vertical | | | | | | |
| Filter Standard - 1" Throwaway (inch) | 20x20 | 20x20 | 24x24 | 24x24 | 28x28 | 28x28 |
| Weight - Operating (lbs.) | 216 | 224 | 245 | 260 | 315 | 330 |
| Weight - Packaged (lbs.) | 221 | 229 | 251 | 266 | 322 | 337 |
| Horizontal | | | | | | |
| Filter Standard - 1" Throwaway | 18x24 | 18x24 | 2-14x20 | 2-14x20 | 1-20x24 1-14x20 | 1-20x24 1-14x20 |
| Weight - Operating (lbs.) | 208 | 208 | 233 | 244 | 299 | 314 |
| Weight - Packaged (lbs.) | 213 | 213 | 239 | 250 | 306 | 321 |
| Hot Water Generator | | | | | | |
| Swivel - Residential Class | 1" | 1" | 1" | 1" | 1" | 1" |
| Weight - HWG Adder (lbs.) | +15 | +15 | +15 | +15 | +15 | +15 |

Notes:

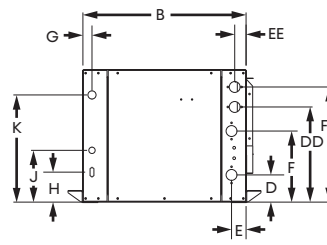
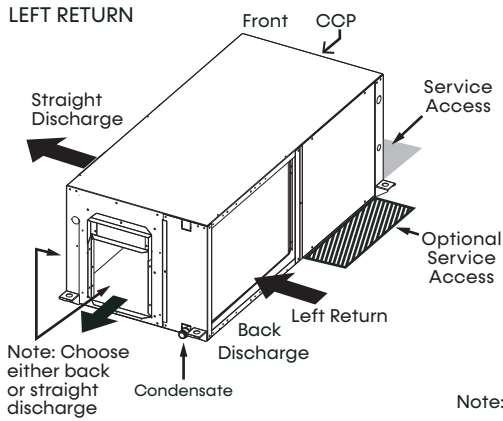
- All dimensions displayed above are in inches unless otherwise marked.
 - The standard Condensate Drain Connection is rubber coupling that couples to ¾-inch schedule 40/80 PVC.
 - The optional Stainless Steel Condensate Drain Connection is ¾-inch FPT.
 - FPT = Female Pipe Thread.
 - O = Optional, R = Required
1. Volume without water options.

Unit Maximum Water Working Pressure

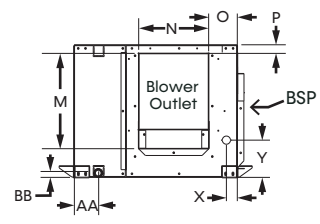
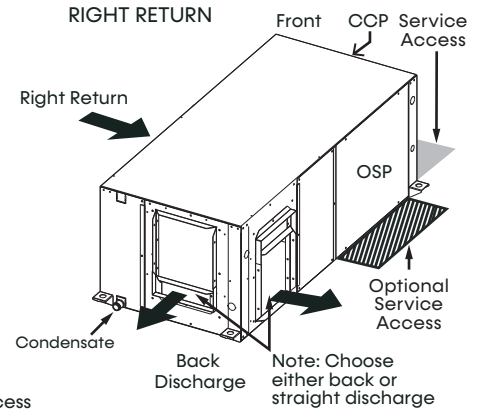
| Options | Max Pressure PSIG [kPa] |
|---------------------------|-------------------------|
| Base Unit | 300 [2,068] |
| Internal Modulating Valve | 300 [2,068] |

Horizontal Dimensional Data

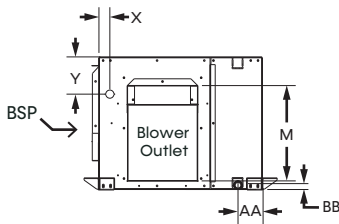
Models:
SZ
024-060



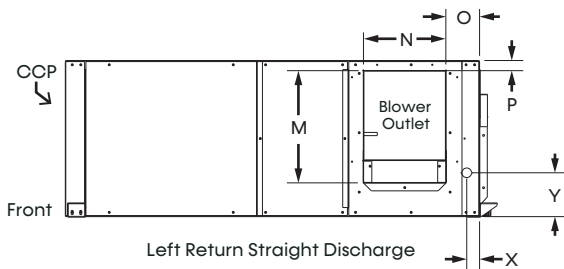
Note: Blower service panel requires 2-foot service access



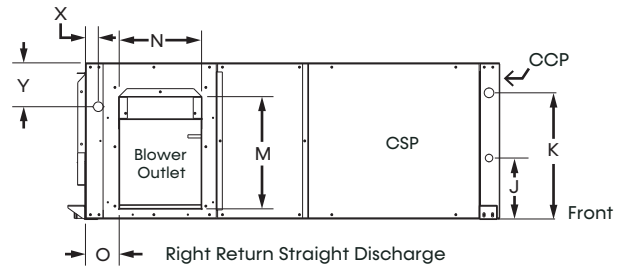
Right Return Back Discharge



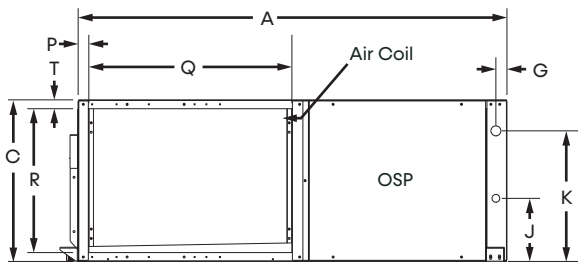
Left Return Back Discharge



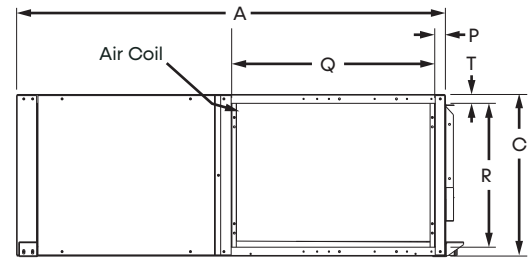
Left Return Straight Discharge



Right Return Straight Discharge



Left Return Left View
Air Coil Opening



Right Return Right View
Air Coil Opening

Notes:

1. While clear access to all removable panels is not required, installer should take care to comply with all building codes and allow adequate clearance for future field service.
2. Units come standard with air-filter rails. For duct connections, order optional filter frames. See product options decoder for details. You can convert filter rails in the field with an accessory air-filter-frame kit. Please see the accessory submittal for details.
3. Discharge flange and hanger brackets are factory installed.
4. Condensate connection is 3/4-inch MPT.
5. Blower service panel requires 2-foot service access.
6. Blower service access is through back panel on straight-discharge units or through panel opposite air coil on back-discharge units.
7. Water connections for optional hot water generator are 1-inch swivels.
8. OSP are removable panels that provide additional access to the units interior. Clear access to OSP panels is not required and they are not to be used in place of the mandatory CCP and BSP panels.

Legend:

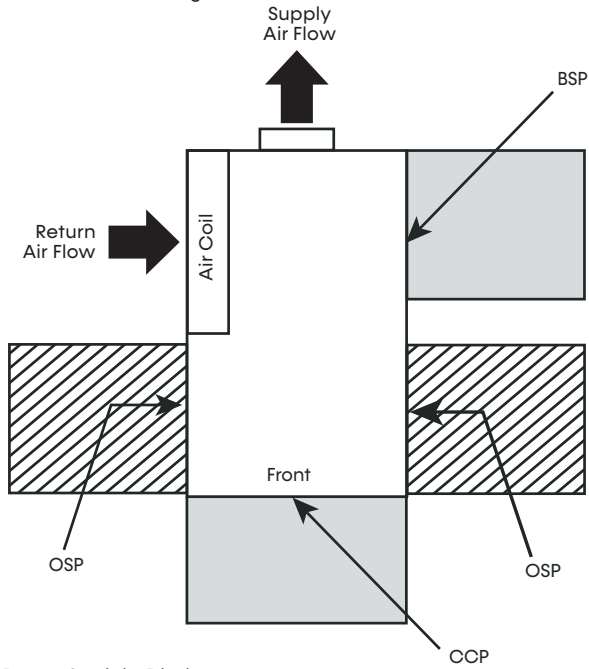
- CCP = Control/Compressor Access
- BSP = Blower Service Panel
- OSP = Optional Service Panel (not required)

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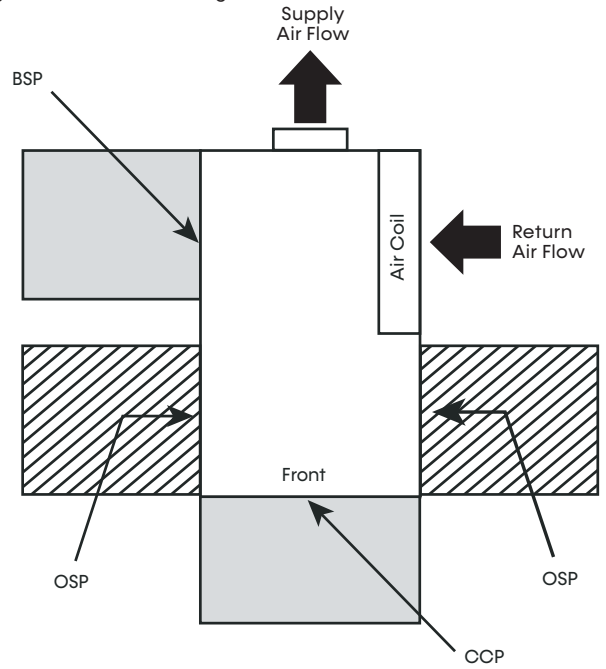
Horizontal Service Access

Models:
SZ
024-060

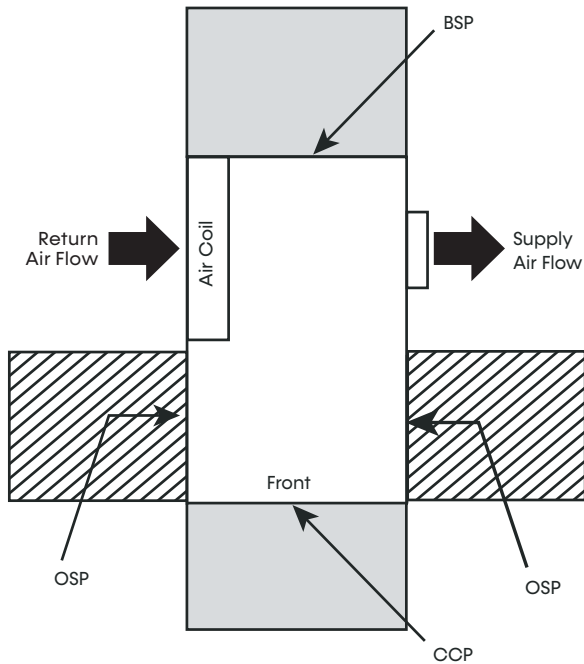
Left Return Back Discharge



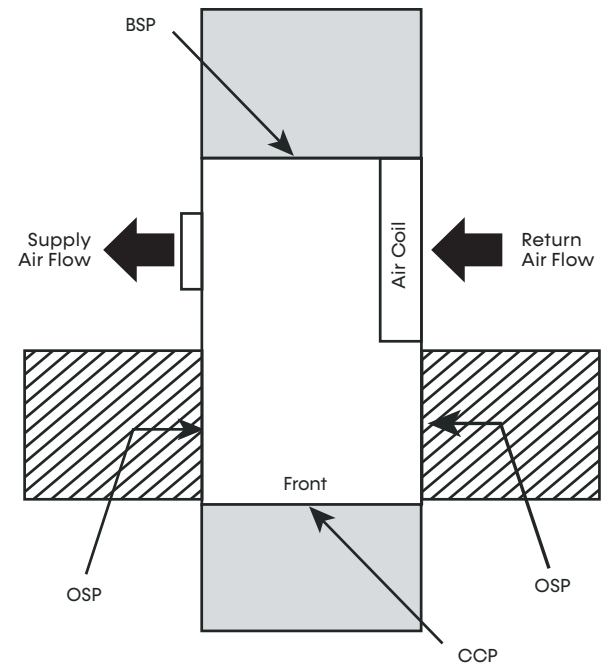
Right Return Back Discharge



Left Return Straight Discharge



Right Return Straight Discharge



Notes:

1. While clear access to all removable panels is not required, installer should take care to comply with all building codes and allow adequate clearance for future field service.
2. CCP and BSP requires 2-feet of service access.
3. Blower service access is through back panel on straight discharge units or through panel opposite air coil on back discharge units.
4. OSP are removable panels that provide additional access to the units interior. Clear access to OSP panels is not required and they are not to be used in place of the mandatory CCP and BSP panels.

 = Mandatory Service Access 2-foot (61 cm)

 = Optional Service Access 2-foot (61 cm)

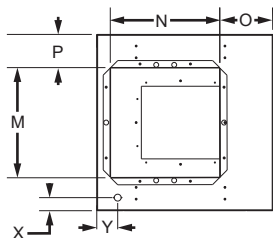
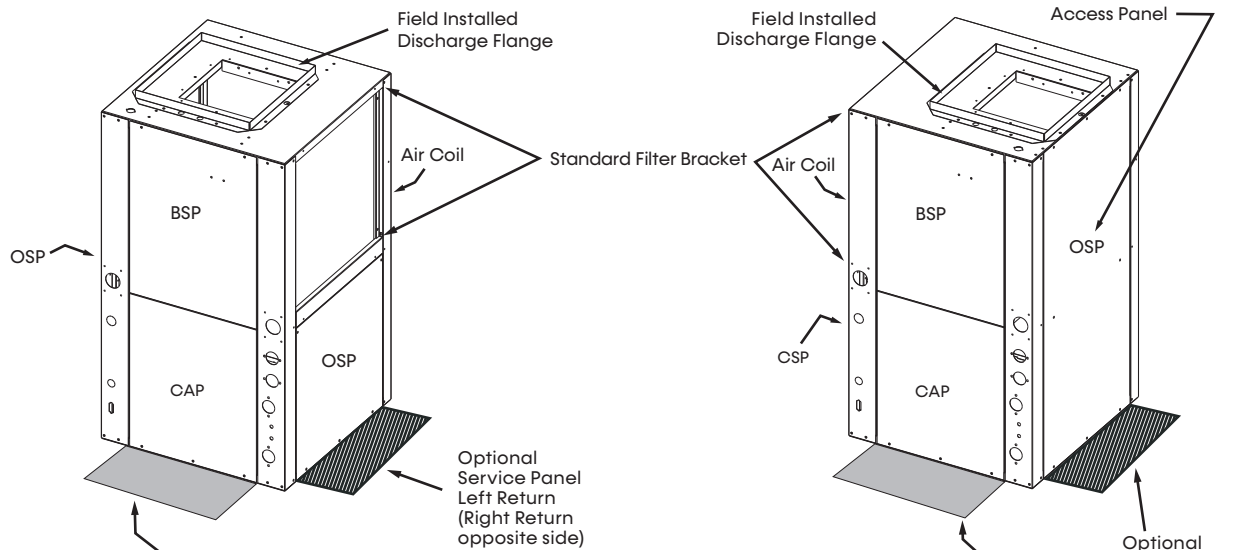
Legend:

- CCP = Control/Compressor Access
- BSP = Blower Service Panel
- OSP = Optional Service Panel (not required)

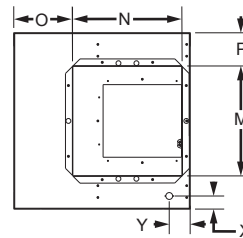
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Vertical Upflow Dimensional Data

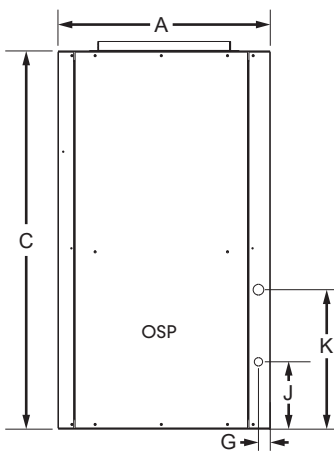
Models:
SZ
024-060



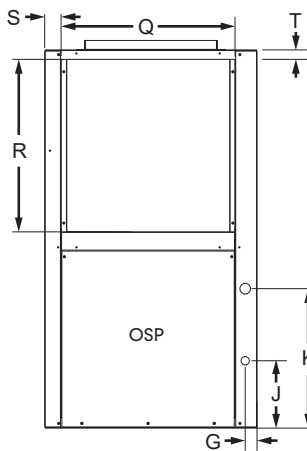
Top View - Right Return



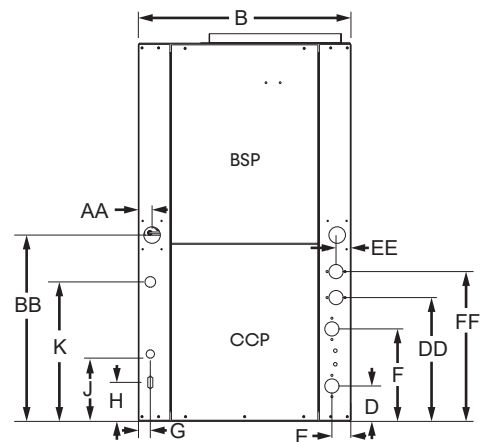
Top View - Left Return



Right Return Right View
Air Coil Opening



Left Return Left View
Air Coil Opening



Notes:

1. While clear access to all removable panels is not required, installer should take care to comply with all building codes and allow adequate clearance for future field service.
2. Front and Side access is preferred for service access. However, all components may be serviced from the front access panel if side access is not available.
3. Discharge flange is field installed.
4. Condensate connection is 3/4-inch MPT.
5. Water connections for optional hot water generator are 1-inch swivels.
6. Units come standard with air filter rails. For duct connections, optional filter frames should be ordered. See product options decoder for details. Filter rails can be converted in the field with an accessory air filter frame kit. Please see the accessory submittal for details.

Legend:

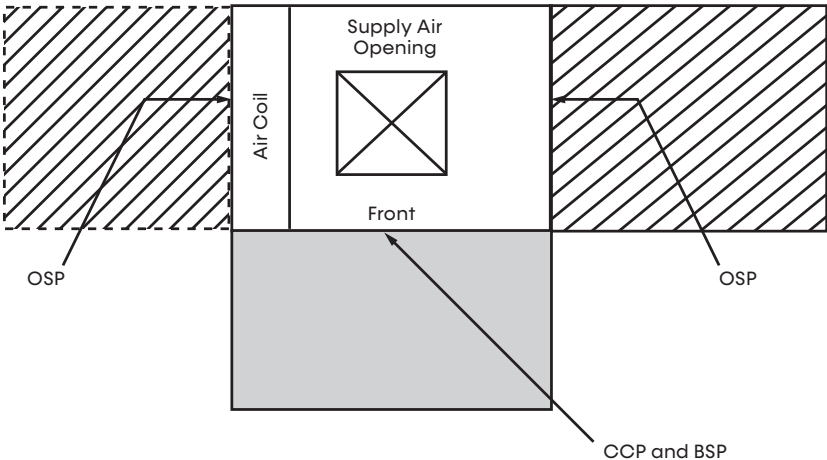
- CCP = Control/Compressor Access
- BSP = Blower Service Panel
- OSP = Optional Service Panel (not required)

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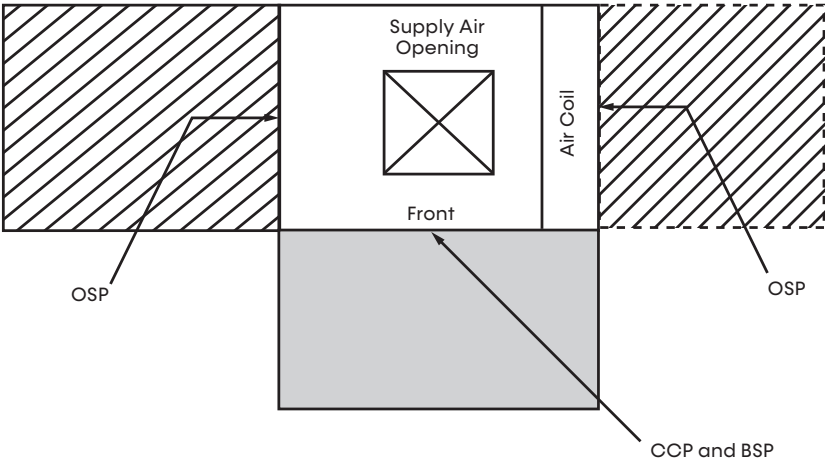
Vertical Service Access

Models:
SZ
024-060

Left Return





Right Return



Notes:

1. While clear access to all removable panels is not required, installer should take care to comply with all building codes and allow adequate clearance for future field service.
2. Front and side access is preferred for service access. However, all components may be serviced from the front access panel if side access is not available.
3. OSP are removable panels that provide additional access to the units interior. Clear access to OSP panels is not required and they are not to be used in place of the mandatory CCP and BSP panels.
4. Top supply air is shown, the same clearances apply to bottom supply air units.

-  = Mandatory Service Access 2-foot (61 cm)
-  = Optional Service Access 2-foot (61 cm)

- Legend:
- CCP = Control/Compressor Access
 - BSP = Blower Service Panel
 - OSP = Optional Service Panel (not required)

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Dimensional Data

Models:
SZ
024-060

Cabinet Dimensions (inch)

| Model | Cabinet Config | Depth/Length | Width | Height |
|-----------|----------------|--------------|-------|--------|
| | | A | B | C |
| SZ024-030 | H | 48.4 | 22.5 | 18.3 |
| | V | 22.5 | 22.5 | 40.0 |
| SZ036-042 | H | 53.3 | 22.5 | 21.0 |
| | V | 26.0 | 22.5 | 45.0 |
| SZ048-060 | H | 68.0 | 25.5 | 21.0 |
| | V | 29.3 | 25.5 | 50.5 |

Electrical Knockouts (inch)

| Model | Cabinet Config | H | Low Voltage | High Voltage | G |
|-----------|----------------|-----|--------------|--------------|-----|
| | | | J KO 1/2" | K KO 3/4" | |
| SZ024-030 | H | 4.1 | 7.1 | 14.8 | 1.3 |
| | V | 4.1 | 6.7 | 14.8 | 1.3 |
| SZ036-042 | H | 4.1 | 7.1 | 15.8 | 1.3 |
| | V | 4.1 | 7.1 | 15.8 | 1.3 |
| SZ048-060 | H | 4.1 | 7.1 | 16.7 | 1.3 |
| | V | 4.1 | 7.1 | 16.7 | 1.3 |

Shipping Dimensions and Water Connections (inch)

| Model | Cabinet Config | Shipping Dimensions | | | Water Connections | | | | | | | | | | Condensate Drain Pan | | |
|-----------|----------------|---------------------|-------|--------|-------------------|-----|-----------|-----|------------------|------------------|--------|-----|---------|-----|----------------------|------|---|
| | | Depth/Length | Width | Height | Water In | | Water Out | | Water In/Out | | HWG In | | HWG Out | | AA | BB | Condensate Drain Pan Fitting ³ |
| | | A | B | C | D | E | F | E | Com ¹ | Res ² | DD | EE | FF | EE | | | |
| SZ024-030 | H | 53.5 | 28.4 | 24.3 | 3.7 | 2.0 | 9.8 | 2.0 | 3/4" | 1" | 13.1 | 1.6 | 15.8 | 1.6 | 3.4 | 0.8 | 3/4" MPT |
| | V | 27.3 | 27.3 | 46.0 | 3.7 | 2.0 | 9.8 | 2.0 | 3/4" | 1" | 13.1 | 1.6 | 15.8 | 1.6 | 1.4 | 19.7 | 3/4" MPT |
| SZ036-042 | H | 58.5 | 28.4 | 27.0 | 3.7 | 2.0 | 11.1 | 2.0 | 3/4" | 1" | 14.8 | 1.6 | 17.6 | 1.6 | 3.4 | 0.8 | 3/4" MPT |
| | V | 31.0 | 28.0 | 51.0 | 3.7 | 2.0 | 11.1 | 2.0 | 3/4" | 1" | 14.8 | 1.6 | 17.6 | 1.6 | 1.4 | 20.7 | 3/4" MPT |
| SZ048-060 | H | 74.5 | 31.4 | 27.0 | 3.7 | 2.0 | 11.1 | 2.0 | 1" | 1" | 15.8 | 1.6 | 18.5 | 1.6 | 3.4 | 0.8 | 3/4" MPT |
| | V | 36.0 | 31.0 | 56.5 | 3.7 | 2.0 | 11.1 | 2.0 | 1" | 1" | 15.8 | 1.6 | 18.5 | 1.6 | 1.4 | 22.2 | 3/4" MPT |

Notes:

- Commercial water connections are Female Pipe Thread (FPT) fittings
- Residential water connections are 1-inch swivel connections
- See PDF drawings for reference

Discharge and Return Connections (inch)

| Model | Cabinet Config | Discharge Connection Duct Flange Installed | | | | Return Connection Using Return Air Opening | | | |
|-----------|----------------|--|--------------|-----|-----|--|---------------|-----|-----|
| | | Supply Height | Supply Width | O | P | Return Width | Return Height | S | T |
| | | M | N | | | Q | R | | |
| SZ024-030 | H | 13.1 | 9.6 | 3.9 | 1.2 | 22.9 | 16.3 | 1.2 | 1.0 |
| | V | 14.0 | 14.0 | 7.5 | 4.2 | 18.4 | 18.2 | 1.7 | 1.0 |
| SZ036-042 | H | 16.0 | 11.0 | 2.9 | 2.5 | 26.1 | 19.0 | 1.2 | 1.0 |
| | V | 14.0 | 14.0 | 7.5 | 6.0 | 22.9 | 22.2 | 0.8 | 1.0 |
| SZ048-060 | H | 15.9 | 13.5 | 4.1 | 1.2 | 36.1 | 19.0 | 1.2 | 1.0 |
| | V | 18.0 | 16.0 | 8.5 | 5.7 | 26.2 | 26.2 | 0.8 | 1.0 |

Hanger Dimensions (inch)

| Model | Cabinet Config | Unit Hanger Detail | | |
|-----------|----------------|--------------------|------|------|
| | | U | V | W |
| SZ024-030 | H | 48.1 | 24.6 | 20.3 |
| SZ036-042 | H | 53.1 | 24.6 | 20.3 |
| SZ048-060 | H | 67.8 | 27.6 | 23.3 |

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Dimensional Data

Models:
SZ
024-060

Cabinet Dimensions (cm)

| Model | Cabinet Config | Depth/Length | Width | Height |
|-----------|----------------|--------------|-------|--------|
| | | A | B | C |
| SZ024-030 | H | 123.0 | 57.0 | 46.4 |
| | V | 57.0 | 57.1 | 101.6 |
| SZ036-042 | H | 135.4 | 57.0 | 53.3 |
| | V | 66.2 | 57.1 | 114.3 |
| SZ048-060 | H | 172.8 | 64.7 | 53.3 |
| | V | 74.4 | 64.7 | 128.3 |

Electrical Knockouts (cm)

| Model | Cabinet Config | H | Low Voltage | High Voltage | G |
|-----------|----------------|------|--------------|--------------|-----|
| | | | J KO 1/2" | K KO 3/4" | |
| SZ024-030 | H | 10.5 | 18.1 | 37.5 | 3.2 |
| | V | 10.5 | 17.0 | 37.5 | 3.2 |
| SZ036-042 | H | 10.5 | 18.1 | 40.1 | 3.2 |
| | V | 10.5 | 18.1 | 40.1 | 3.2 |
| SZ048-060 | H | 10.5 | 18.1 | 42.4 | 3.2 |
| | V | 10.5 | 18.1 | 42.4 | 3.2 |

Shipping Dimensions and Water Connections (cm)

| Model | Cabinet Config | Shipping Dimensions | | | Water Connections | | | | | | | | | | Condensate Drain Pan | | |
|-----------|----------------|---------------------|-------|--------|-------------------|-----|-----------|-----|------------------|------------------|--------|-----|---------|-----|----------------------|------|---|
| | | Depth/Length | Width | Height | Water In | | Water Out | | Water In/Out | | HWG In | | HWG Out | | AA | BB | Condensate Drain Pan Fitting ³ |
| | | A | B | C | D | E | F | E | Com ¹ | Res ² | DD | EE | FF | EE | | | |
| SZ024-030 | H | 135.9 | 72.1 | 61.6 | 9.5 | 5.1 | 24.8 | 5.1 | 3/4" | 1" | 33.3 | 4.0 | 40.2 | 4.0 | 8.6 | 2.1 | 3/4" MPT |
| | V | 69.2 | 69.2 | 116.8 | 9.5 | 5.1 | 24.8 | 5.1 | 3/4" | 1" | 33.3 | 4.0 | 40.2 | 4.0 | 3.7 | 50.1 | 3/4" MPT |
| SZ036-042 | H | 148.6 | 72.1 | 68.6 | 9.5 | 5.1 | 28.1 | 5.1 | 3/4" | 1" | 37.7 | 4.0 | 44.7 | 4.0 | 8.6 | 2.1 | 3/4" MPT |
| | V | 78.7 | 71.1 | 129.5 | 9.5 | 5.1 | 28.1 | 5.1 | 3/4" | 1" | 37.7 | 4.0 | 44.7 | 4.0 | 3.7 | 52.5 | 3/4" MPT |
| SZ048-060 | H | 189.2 | 79.7 | 68.6 | 9.5 | 5.1 | 28.1 | 5.1 | 1" | 1" | 40.0 | 4.0 | 47.0 | 4.0 | 8.6 | 2.1 | 3/4" MPT |
| | V | 91.4 | 78.7 | 143.5 | 9.5 | 5.1 | 28.1 | 5.1 | 1" | 1" | 40.0 | 4.0 | 47.0 | 4.0 | 3.7 | 56.4 | 3/4" MPT |

Notes:

- Commercial water connections are Female Pipe Thread (FPT) fittings
- Residential water connections are 1-inch swivel connections
- See PDF drawings for reference

Discharge and Return Connections (cm)

| Model | Cabinet Config | Discharge Connection Duct Flange Installed | | | | Return Connection Using Return Air Opening | | | |
|-----------|----------------|--|--------------|------|------|--|---------------|-----|-----|
| | | Supply Height | Supply Width | O | P | Return Width | Return Height | S | T |
| | | M | N | | | Q | R | | |
| SZ024-030 | H | 33.3 | 24.5 | 10.0 | 3.0 | 58.3 | 41.3 | 3.1 | 2.5 |
| | V | 35.6 | 35.5 | 19.0 | 10.7 | 46.7 | 46.3 | 4.4 | 2.5 |
| SZ036-042 | H | 40.6 | 27.9 | 7.4 | 6.4 | 66.2 | 48.3 | 3.0 | 2.5 |
| | V | 35.6 | 35.5 | 19.0 | 15.3 | 58.2 | 56.5 | 2.1 | 2.5 |
| SZ048-060 | H | 40.4 | 34.4 | 10.3 | 3.0 | 91.6 | 48.3 | 3.0 | 2.5 |
| | V | 45.7 | 40.6 | 21.5 | 14.4 | 66.5 | 66.7 | 2.1 | 2.5 |

Hanger Dimensions (cm)

| Model | Cabinet Config | Unit Hanger Detail | | |
|-----------|----------------|--------------------|------|------|
| | | U | V | W |
| SZ024-030 | H | 122.3 | 62.4 | 51.5 |
| SZ036-042 | H | 134.7 | 62.4 | 51.6 |
| SZ048-060 | H | 172.2 | 70.0 | 59.2 |

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Electric Heater Knockouts

Models:
SZ
024-060

Electric Heater Knockouts (inch)

| Model | Cabinet Config | X | Y |
|-------|----------------|-----|-----|
| SZ024 | H | 1.5 | 5.1 |
| | V | 1.7 | 2.7 |
| SZ030 | H | 1.5 | 5.1 |
| | V | 1.7 | 2.7 |
| SZ036 | H | 1.1 | 6.3 |
| | V | 1.7 | 2.7 |
| SZ042 | H | 1.1 | 6.3 |
| | V | 1.7 | 2.7 |
| SZ048 | H | 1.5 | 6.3 |
| | V | 2.3 | 3.3 |
| SZ060 | H | 1.5 | 6.3 |
| | V | 2.3 | 3.3 |

Electric Heater Knockouts (cm)

| Model | Cabinet Config | X | Y |
|-------|----------------|-----|------|
| SZ024 | H | 3.8 | 13.0 |
| | V | 4.2 | 6.8 |
| SZ030 | H | 3.8 | 13.0 |
| | V | 4.2 | 6.8 |
| SZ036 | H | 2.9 | 15.9 |
| | V | 4.2 | 6.8 |
| SZ042 | H | 2.9 | 15.9 |
| | V | 4.2 | 6.8 |
| SZ048 | H | 3.8 | 15.9 |
| | V | 5.8 | 8.4 |
| SZ060 | H | 3.8 | 15.9 |
| | V | 5.8 | 8.4 |

Corner Weights

Models:
SZ
024-060

Corner Weights (lb)

| Model | Left - Front | Right - Front | Left - Back | Right - Back |
|-------|--------------|---------------|-------------|--------------|
| SZ024 | 68.0 | 56.0 | 42.0 | 42.0 |
| SZ030 | 68.0 | 56.0 | 42.0 | 42.0 |
| SZ036 | 76.0 | 63.0 | 47.0 | 47.0 |
| SZ042 | 80.0 | 66.0 | 49.0 | 49.0 |
| SZ048 | 98.0 | 81.0 | 60.0 | 60.0 |
| SZ060 | 103.0 | 85.0 | 63.0 | 63.0 |

Corner Weights (kg)

| Model | Left - Front | Right - Front | Left - Back | Right - Back |
|-------|--------------|---------------|-------------|--------------|
| SZ024 | 30.8 | 25.4 | 19.1 | 19.1 |
| SZ030 | 30.8 | 25.4 | 19.1 | 19.1 |
| SZ036 | 34.5 | 28.6 | 21.3 | 21.3 |
| SZ042 | 36.3 | 29.9 | 22.2 | 22.2 |
| SZ048 | 44.5 | 36.7 | 27.2 | 27.2 |
| SZ060 | 46.7 | 38.6 | 28.6 | 28.6 |

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MINIMUM INSTALLATION AREA

Minimum area where a blower-equipped unit must be installed, and mechanical/natural ventilation is not required

| Model | Charge (oz) | Configuration | Minimum Installation Area ft ² (m ²) [A _{min}] | | | |
|-------|-------------|---------------|---|---------------|-------------|-------------|
| | | | Floor | Window | Wall | Ceiling |
| SZ060 | 69 | Vertical | 237 (22.0) | 132 (12.2) | 76 (7.0) | 63 (5.9) |
| | | Horizontal | 237 (22.0) | 141 (13.1) | 79 (7.3) | 65 (6.0) |

| | |
|-------------------------------|--|
| A _{min} = | Minimum area where unit is installed where unit has incorporated airflow |
| h _{inst} (floor) = | 0.0 ft (0.0 m) |
| h _{inst} (window) = | 3.3 ft (1.0 m) |
| h _{inst} (wall) = | 5.9 ft (1.8 m) |
| h _{inst} (ceiling) = | 7.2 ft (2.2 m) |

Minimum area and CFM requirements for the conditioned space

| Model | Charge (oz) | Minimum CFM [Q _{min}] | |
|-------|-------------|--------------------------------------|---|
| | | TA _{min} (ft ²) | Q _{min} (ft ³ /min) |
| SZ060 | 69 | 3.54 | 117 |

| | |
|---------------------|---|
| TA _{min} = | Minimum conditioned area for venting leaked refrigerant |
| Q _{min} = | Minimum ventilation flow rate for conditioned space if space is less than TA _{min} |

Minimum area of opening for natural ventilation

| Model | Charge (oz) | Anv _{min} in ² (m ²) |
|-------|-------------|--|
| SZ060 | 69 | 111.57 (0.07) |

| | |
|----------------------|--|
| Anv _{min} = | Minimum natural ventilation area opening |
|----------------------|--|

When the openings for connected rooms or natural ventilation are required, the following conditions shall be applied:

- The area of any openings above 11.8 inches (300 mm) from the floor shall not be considered in determining compliance with Anv_{min}.
- At least 50% of the required opening area Anv_{min} shall be below 7.8 inches (200 mm) from the floor.
- The bottom of the lowest openings shall not be higher than the point of release when the unit is installed and not more than 3.9 inches (100 mm) from the floor.
- Openings are permanent openings which cannot be closed.
- For openings extending to the floor, the height shall not be less than 0.78 inch (20 mm) above the surface of the floor covering.
- A second higher opening shall be provided. The total size of the second opening shall not be less than 50% of minimum opening area for Anv_{min} and shall be at least 3.3 ft (1.5 m) above the floor.

ACCESSORIES AND OPTIONS

Hot Water Generator

An optional insulated heat reclaiming desuperheater coil of vented double-wall copper construction suitable for potable water shall be provided. The coil, hot water circulating pump, and associated controls shall be factory mounted inside the unit cabinet. Sensors mounted on the compressor discharge line and the potable water inlet shall transmit temperatures to the unit microprocessor where internal logic will determine when hot water generation is feasible. The microprocessor shall cycle the pump periodically during unit operation to sample the DHW tank temperature. The microprocessor shall include multiple temperature set points to select from for hot water generation control.

Cupro-Nickel Heat Exchanger

An optional corrosion resistant CuNi coaxial heat exchanger shall be factory installed in lieu of standard copper construction.

Thermostat (field installed)

An electronic communicating LCD thermostat shall be provided. The thermostat shall offer three stages of heating and two stages of cooling with precise temperature control and have a four-wire connection to the unit. The thermostat shall be capable of manual or automatic change-over operation and shall operate in standard or programmable mode. An integrated humidity control feature shall be included to control a humidifier and/or a dehumidifier. The thermostat shall include a utility demand reduction feature to be initiated by an independent time program or an external input.

The thermostat shall have a comprehensive installation setup menu to include configuration of the unit CFM for each mode of operation and configuration of the water flow rate through the unit, including variation of the water flow rate based on the stage of unit operation.

The thermostat shall display system faults with probable cause and troubleshooting guidance. Comprehensive service diagnostics menus shall display, system inputs, system outputs, configuration settings, Geo source inlet and outlet temperatures, compressor discharge line temperature, liquid line temperature, leaving air temperature, and entering potable water temperature (on units equipped with a Hot Water Generator). The thermostat shall allow for immediate manual control of all DXM2.5 outputs at the thermostat for rapid troubleshooting.

Auxiliary Heater (field installed)

An external, field-installed electric heater shall provide supplemental and/or emergency heating capability when used with the three stage heating thermostat.

Warranty

WARRANTY INFORMATION

ClimateMaster residential class heat pumps are backed by a ten-year limited warranty on all unit parts, including the following accessories when installed with ClimateMaster units: Thermostats & Electric Heaters. Warranty Certificate RP851 for specific coverage and limitation.

ClimateMaster goes even further to back up its commitment to quality by including a service labor allowance for the first five years on unit parts and thermostats, auxiliary electric heaters and geothermal pumping modules.

The Optional Extended Factory Service Labor Allowance Warranty offers additional length of term protection to the consumer by offsetting service labor costs for 10 years.

To order this warranty, contact your ClimateMaster distributor. This coverage will be purchased within 90 days of unit installation. See Limited Express Extended Labor Warranty Certificate RP852 for details.



CLIMATE MASTER, INC.

LIMITED EXPRESS WARRANTY AND LIMITATION OF LIABILITY AND REMEDIES FOR RESIDENTIAL CLASS PRODUCTS WITH LABOR ALLOWANCE

This Limited Express Warranty (and Limitation of Liability and Remedies) Affects Your Legal Rights and Should Be Read Carefully In Its Entirety. Subject to the terms and conditions below, ClimateMaster, Inc. ("CM") extends a limited warranty ("Limited Warranty") for Residential Class heating and cooling equipment manufactured or sold by CM ("Products"), that was purchased on or after May 1, 2010 (this would generally include CM Units with serial numbers beginning with "N11" and "N12" suffixes) and installed in a one or two family residential dwelling, for personal, household or family purposes in the United States of America or Canada, ("Application"), to be free from defects and workmanship under normal use and maintenance. If you are unsure if the Limited Warranty applies to a Product you have purchased, contact CM at the phone number or address reflected below.

This Limited Warranty DOES NOT cover commercial applications of the Products. Commercial applications include any application other than installation in a one or two family residential dwelling for personal, household or family purposes. Refer to ClimateMaster Commercial Limited Express Warranty for details. Full application available for download at ClimateMaster.com.

This Limited Warranty provides a complete delineation of CM's responsibilities to purchasers of the Products. No oral or written statement made by CM, any person or entity associated with CM or by any person or entity claiming to be associated with CM, including but not limited to statements made in sales literature, catalogs, or agreements to purchase or install the Products, is intended to provide an express or implied warranty of any kind and does not form a part of the basis of the bargain. Further, no such statement shall operate to extend, alter or modify the scope or terms of this Limited Warranty.

EXCEPT AS SPECIFICALLY SET FORTH HEREIN, THERE IS NO EXPRESS WARRANTY AS TO ANY OF CM'S PRODUCTS. CM MAKES NO WARRANTY AGAINST LATENT DEFECTS, MERCHANTABILITY OF THE PRODUCTS OR THE PRODUCTS FOR ANY PARTICULAR PURPOSE.

TERMS: This Limited Warranty shall commence on the earlier to occur of the following dates: (1) proof of date of first occupancy; (2) proof of date of start-up of the Product by a qualified and trained HVAC contractor; or (iii) six (6) months from the shipment date of the Product from CM if items (1) or (ii) are not available ("Warranty Inception Date"). The Limited Warranty shall extend as follows:

Coverage of Repair or Replacement of Covered Product Parts:

- (1) Ten (10) years from the Warranty Inception Date for thermostats, auxiliary electric heaters, water storage tanks, and geothermal pumping modules built or sold by CM ("CM Units").
- (2) Ten (10) years from the Warranty Inception Date for thermostats, auxiliary electric heaters, water storage tanks, and geothermal pumping modules built or sold by CM, when installed with CM Units.
- (3) One (1) year from the date of shipment from CM for all accessories or parts not sold by CM, when installed with CM Units, and
- (4) Ninety (90) days from the date of shipment from CM for all repair or replacement parts that are not supplied under this warranty.

Coverage of Labor for Installation or Repair of Covered Product Parts:

- (1) Ten (10) years from the Warranty Inception Date for air conditioning, heating and hot water pump units built or sold by CM ("CM Units").
- (2) Ten (10) years from the Warranty Inception Date for thermostats, auxiliary electric heaters, water storage tanks, and geothermal pumping modules built or sold by CM, when installed with CM Units.
- (3) One (1) year from the date of shipment from CM for all accessories or parts not sold by CM, when installed with CM Units, and
- (4) Ninety (90) days from the date of shipment from CM for all repair or replacement parts that are not supplied under this warranty.

WHAT IS COVERED: Subject to the Terms, this Limited Express Warranty covers the (1) cost of repair or replacement of any covered Product or Product part, and (ii) the cost of labor incurred by CM authorized service personnel in connection with the installation of a repaired or replaced covered Product or Product part.

If a Product part is not available, CM will, at its option, provide a free suitable substitute part or provide a credit in the amount of the then factory selling price for a new suitable substitute part to be used by the claimant toward the retail purchase price of a new CM Product. All labor costs are subject and limited to amounts specifically set forth in the existing labor allowance schedule provided by CM's Warranty Department. Actual labor costs are not covered by this Limited Warranty; the other (ii) exceed the amount allowed under the allowance schedule; (iii) are not specifically provided for in the allowance schedule; (iv) are not performed by CM authorized service personnel; (v) are required to commission modification of part not covered by this Limited Warranty; or (vi) are required outside the Terms.

WHAT IS NOT COVERED: This Limited Warranty does not cover and does not apply to (1) air filters, fuses, refrigerant, fluids, oil; (2) Products relocated after initial installation; (3) any portion or component of any system that is not supplied by CM, regardless of the cause of the failure of such portion or component; (4) Products on which the identification tags or labels, or serial numbers, have been removed or defaced; (5) products on which payment to CM, or to the owner, seller or installing contractor, is in default; (6) Products which have not been installed and maintained by a qualified and trained HVAC contractor; (7) Products installed in inappropriate, contaminated or corrosive air or liquid supply; or (8) Products that have been operated in a manner contrary to CM's printed instructions. (9) Products which have insufficient performance as a result of improper system design, improper application, installation or use of CM's products; (10) electrical or fuel units, or any increases or uncorrected savings in same, for any reason whatsoever; or (11) any operation exceeding the maximum setting of the operating high limit controls, or pressures greater than those shown on the rating label, with non-potable water, with alterations or attachments (including energy saving devices not specifically authorized in writing by CM), or with high temperature condensation of water. CM may require a return demonstration during compliance with the above limitations.

In connection with repair or replacement of covered Product parts, CM is not responsible for: (1) the cost of any fluids, refrigerant or system components supplied by others, or associated labor to repair or replace the same, which is incurred as a result of repair or replacement of a covered Product part; (2) the costs of labor, refrigerant, materials or service incurred in diagnosis and removal of a covered Product part subject to repair or replacement under this Limited Warranty; (3) shipping costs incurred in sending or receiving a covered Product Part; and (4) shipping costs to return a claimed defective part from CM to the installation site of the part not covered by this Limited Warranty; (5) removal or disposal costs associated with the repair or replacement of covered Product Parts; and (6) loss of normal maintenance.

OTHER WARRANTY LIMITATIONS: This Limited Warranty is given in lieu of all other warranties express or implied, in law or in fact. It does not displace the disclaimer contained herein, it is determined that other warranties apply, any such warranty, including without limitation any express warranties or any implied warranties of fitness for particular purpose and merchantability, shall be limited in case of the Terms of this Limited Warranty.

LIMITATION OF REMEDIES: In the event of a breach of the Limited Warranty, a claimant's remedies will be limited to repair or replacement of a part or unit, or to furnish a new or rebuilt part or unit in exchange for the part or unit which has failed. If other written notice to CM's factory or Oklahoma City, Oklahoma of a defect, malfunction or other failure, and a reasonable number of attempts by CM to correct the defect, malfunction or other failure, the remedy fails or is essential for safety, CM shall refund the purchase price paid to CM in exchange for the return of the sold goods. Such refund shall be the maximum liability of CM. THIS REMEDY IS THE SOLE AND EXCLUSIVE REMEDY OF THE BUYER OR THEIR PURCHASER AGAINST CM FOR AN ACTION OR BREACH OF CONTRACT, TORT OR OTHERWISE, INCLUDING WITHOUT LIMITATION ANY EXPRESS, IMPLIED, OR STATUTORY REMEDY.

LIMITATION OF LIABILITY: CM shall have no liability for accident, deterioration, contamination, fire, mold, material, or labor, unless CM EXPRESSLY DISCLAIMS AND EXCLUDES ANY LIABILITY FOR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION ANY EXPRESS, IMPLIED, OR STATUTORY DAMAGES.

OBAINING WARRANTY PERFORMANCE: Normally, the dealer or service organization which installed the Product will provide warranty performance for the owner. Should the installer be unavailable, contact any CM recognized distributor, dealer or service organization. If assistance is required in obtaining warranty performance, write or call:

ClimateMaster, Inc. • Customer Service • 7300 SW 44th Street • Oklahoma City, Oklahoma 73179 • (405) 745-6000 • e-service@climatemaster.com

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Revision History

Models:
SZ
024-060

| Date | Section | Description |
|----------|--|---|
| 02/21/25 | Performance Data | Added a note concerning Hot Water Generator Capacity calculation |
| | Electrical Data: CV EC Blower Motor | Updated Voltage Code for size 060 |
| | Part Load Performance: Correction Tables | Updated correction data for Cooling, Entering Air Heating, and Airflow |
| | Full Load Performance: Correction Tables | Updated correction data for Cooling, Entering Air Heating, and Airflow |
| | Dimensional Data | Added shipping dimensions |
| | All | Added the Wireless Service Tool |
| | All | Updated the document's section order |
| 01/28/25 | Model Nomenclature | Updated footnote numbering |
| | Minimum Installation Area | Updated metric data |
| | Electrical Data: CV EC Blower Motor | Updated data |
| 11/25/24 | All | Updated naming conventions for DXM2.5 and AWC Thermostat |
| | Model Nomenclature | Updated Footnote references, Updated Model Nomenclature Updated Voltage and Water/Heat Exchanger options |
| | Performance Data | Clarified temperature ranges of performance notes, Updated Data |
| | Physical Data | Updated representation of HWG weight, Updated Unit Maximum Water Working Pressure |
| | Blower Performance Data | Updated data |
| | Minimum Installation Area | Updated Minimum Installation Area data |
| | Electrical Data | Added electrical data for the Standard unit with HWG |
| 07/11/24 | All | First Published |



A NIBE GROUP MEMBER

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RP3000

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