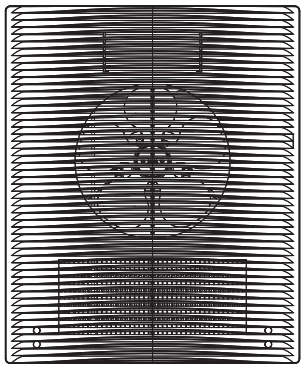
BERKO®
A Marley Engineered Products Brand
470 Beauty Spot Rd. E
Bennettsville, SC 29512



# SUBMITTAL SHEET
# SSARWH ARCHITECTURAL SMARTSERIES®
# PROGRAMMABLE WALL HEATER



SMART™ ENERGY SAVER

ETL LISTED c US
Intertek

| CAPACITIES |
|---|
| 900–4800W<br>120V, 208V, 240V, or 277V<br>1Ø<br>Temperature Range: 40°–99° F<br>Air Movement: 100 CFM |

See Selection Chart for all Options

JOB NAME: _____

LOCATION: _____

ARCHITECT: _____

ENGINEER: _____

CONTRACTOR: _____

SUBMITTED BY: _____ DATE: _____

| TAG/ITEM | QTY. | CATALOG NUMBER | HEATER | | | AMPS | BMS CONNECTION (Y/N) |
|---|---|---|---|---|---|---|---|
| | | | WATTS | VOLTS | Ø | | |
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| ACCESSORIES AND CONTROLS | TAG/ITEM | QTY. | CATALOG NUMBER | DESCRIPTION |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

| SUBMITTED BY: | DATE |
|---|---|
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| APPROVED BY: | DATE |
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SSAR ARCHITECTURAL SMARTSERIES

# ARCHITECT'S AND ENGINEER'S SPECIFICATIONS*

The electric fan-forced architectural wall heater shall be as manufactured by Berko,® A Marley Engineered Products® Brand, Bennettsville, SC. Heaters shall be certified by ETL to standard for heating equipment and meet UL standard 2021. All capacities, voltages, physical sizes, grille arrangements and options shall be specified in the heater schedule. The heater shall be designed for wall recess or surface mounting.

**HEATER ASSEMBLY**: The heater assembly which fits into the back box shall consist of an 0.120" thick, powder coated aluminum die cast part fan panel / panel grille which are mounted all of the operational parts of the heater. The front grille shall be of the louvered type finished in polyester powder coating which resists fading and abrasion.

**HEATING ELEMENTS**: The heating elements shall be warranted for five years and shall be of non-glowing design consisting of 80-20 Ni/Cr resistance wire enclosed in a steel sheath to which steel plate fins are brazed. The heating element shall cover the entire air discharge area to ensure uniform heating of all discharge air.

**THERMAL LIMIT**: The heater shall be equipped with a manual-reset safety limit control that will automatically shut off heater in event of overheating due to any cause. The safety cutouts shall directly interrupt power to the elements. A red warning light will illuminate (visible at top of heater grille) to alert that this control has been activated.

**FAN AND MOTOR ASSEMBLY**: The motor and fan assembly shall be direct drive and mounted on rigid heavy gauge brackets for quiet operation. The fan shall be five-bladed aluminum. The fan motor shall be totally enclosed.

**FAN DELAY CONTROL**: Fan control shall delay fan startup of the fan motor until the heating elements have warmed up. It shall maintain motor operation after heating elements have been de-energized to dissipate residual heat build-up.

**TEMPERATURE CONTROL**: The unit is designed to be controlled electronically with a built-in electronic digital LED touch screen display mounted on the grille and control board mounted on the fan panel. This control will maintain room temperatures within 1-½ degrees of set point. The output of heat is proportionally controlled as to how much heat is needed to satisfy the set point. Heater automatically adjusts wattage output for optimum comfort. Heater settings can be locked out for security purposes.

**DISCONNECT SWITCH**: This ON/OFF switch shall be mounted on the fan deck to disconnect single point connection to power supply for the internal electrical components, including the heating element. It will be completely concealed behind the front grille panel.

**BUILDING MANAGEMENT CONNECTION**: The unit shall include a unique built-in Building Management System (BMS) connection. This allows the building management system to connect directly to the heater using a dry contact switch (no voltage) to control the heater. A BMS icon is illuminated and all other icons are turned OFF and all buttons are disabled.

*Berko *reserves the right to change specifications without prior notice.*

## *Models & Specifications:*

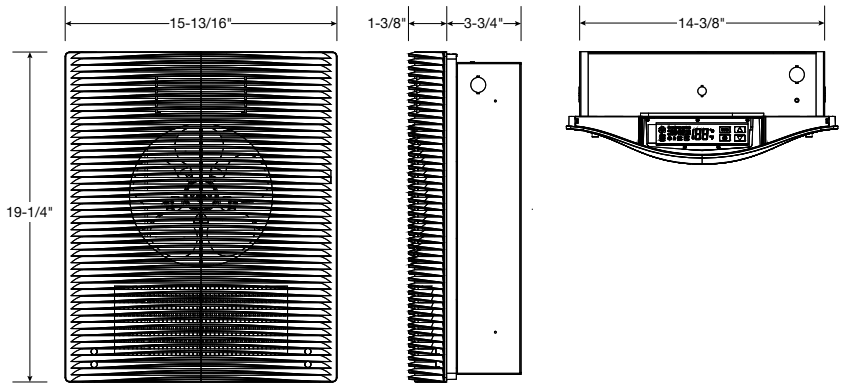
| ITEM INFORMATION | | ELECTRICAL DATA | | | | | |
|---|---|---|---|---|---|---|---|
| CATALOG NO. | UPC | VOLTS | PHASES | WATTS | AMPS | BTU/HR. | SHIP WT. |
| SSARWH1802 | 685360156842 | 120 | 1 | 900/1800 | 15 | 6,142 | 25 lbs |
| SSARWH4808 | 685360156767 | 208 | 1 | 1440/4800 | 23.1 | 16,378 | 25 lbs |
| SSARWH4804 | 685360156774 | 240 | 1 | 1440/4800 | 20 | 16,378 | 25 lbs |
| SSARWH4807 | 685360156804 | 277 | 1 | 1440/4800 | 17.3 | 16,378 | 25 lbs |

NOTE: For handling 208V Max AMP loads, contact your local Marley Sales Representative. Standard grille color is White. Add AL (Aluminum) suffix to catalog number of both the heater and mounting frame (ex. SSAR1802AL).

## *Optional Accessories:*

| CATALOG NO. | UPC | DESCRIPTION | COLOR | SHIP WT. |
|---|---|---|---|---|
| HTWHSM | 685360155456 | Surface Mounting Frame 15 ⅜" W x 19 ³⁄₁₆" H x 3 ¾" D | White | 4 lbs |
| HTWHS1 | 685360155487 | 1 in. Semi-Recess Mounting Frame 15 ⅜" W x 19 ³⁄₁₆" H x 1" D | White | 4 lbs |
| HTWHS2 | 685360155517 | 2 in. Semi-Recess Mounting Frame 15 ⅜" W x 19 ³⁄₁₆" H x 2" D | White | 4 lbs |

## *Dimensions and Clearances:*




**MOUNTING LIMITATIONS**:
Do not install heater closer than 12 inches to the floor, 12 inches to an adjacent wall, 36 inches to the ceiling. Do not install heater behind towel rack or door, upside down or sideways, in the floor, in the ceiling, or in closets.

No matter the industry or application, Marley Engineered Products has a robust portfolio of innovative, reliable, high-performance comfort heating and ventilation solutions for all your heating needs.

For more information or assistance on your next project, contact Technical Services at 800-642-4328

**Scan the QR code to access additional specs and features**

Approvals: _____ _____ _____