# USER GUIDE
## *4100 SERIES*
## *FORCED AIR SYSTEM*

## OPERATING YOUR HEATER

### ROOM TEMPERATURE CONTROL
During normal operation, the heating system will show C, P, or A. Room temperature control is maintained by the room thermostat(s). A heat call from the room thermostat energizes the blowers to automatically circulate room air through the brick core. The supply air blower then delivers this heated air into the home through the duct system to maintain a constant, comfortable room temperature.

### CHARGING THE BRICK CORE
The heater charges the brick core automatically, based on outdoor temperature and energy usage. As the outdoor temperature decreases, heating requirements increase, and the heating system stores more heat accordingly.

### TURNING THE HEATER OFF AND ON
The element (charging) circuits can be turned OFF by switching all the 60-amp breakers located on the front of the electrical panel to the DOWN position. To turn the element circuits ON, switch all the 60-amp breakers to the UP position. The 15-amp breaker MUST remain ON to operate controls in the system; in conjunction with a heat pump or air conditioner; to control other loads; or using the optional Steffes time clock module.

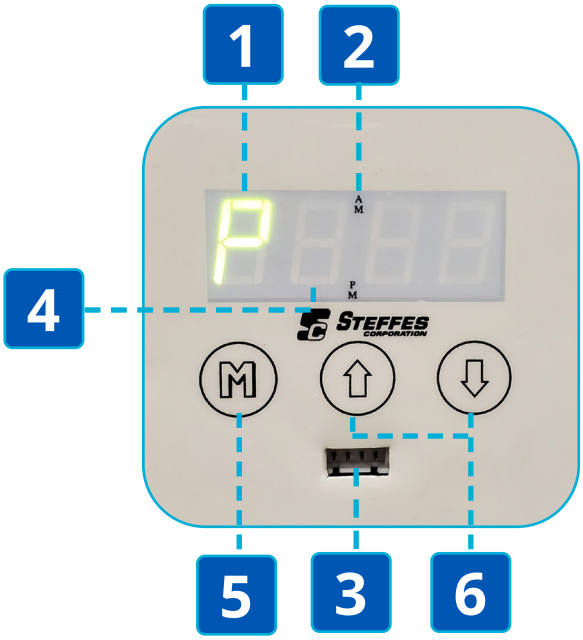
### MAINTENANCE & CLEANING
General cleaning of the system's cabinet should be conducted at the user's discretion. The air filter in the return air duct of the system should be replaced on a regular basis to ensure proper operation. Odors can be amplified. It is recommended not to operate the heater if odors from paints, varnishes, or other chemicals are present in the air.

If a heat pump or air conditioner is interfaced with the heating system, the indoor coil of these devices should be cleaned periodically, to maintain efficiency. Follow the manufacturer's cleaning recommendation for these devices.

### CLEARANCE REQUIREMENTS
Three inches (3") from back, six inches (6") from top, and two inches (2") from left side to ducting. Allow thirty-six inches (36") from front for servicing. No clearances are required from ducting, right side to ducting, or to floor surfaces. Combustible materials must remain at least three inches (3") from sides, front, and back.

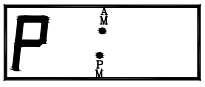
### TROUBLESHOOTING
If the heater displays an error code or is not operating as it has in the past, contact your local Steffes dealer. To find a dealer near you, visit www.steffes.com and type in your postal code on the ETS Dealer Locator page.

# 4100 SERIES HEATER DISPLAY KEY

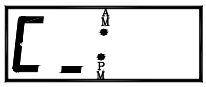



## 1 PEAK STATUS

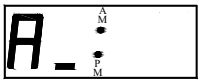
The letter displayed indicates:



**Peak (P)**
During this period, the system is not allowed to charge. In time-of-use (TOU) areas, the heater can charge; ***however, the cost of power will be more expensive***.



**Charge (C)**
During this period, the system is allowed to charge, and ***power costs are at their lowest***.



**Anticipated Peak (A)**
This is often referred to as a pre-peak, mid-peak, or shoulder charge period. It is generally used in time-of-use (TOU) areas where there is a three-tiered rate. ***Electricity used during this period is less expensive than during peak but more expensive than during charge.***

## 2 AM & PM INDICATORS

Between the second and third digits of the display, two dots are used to indicate a.m. and p.m. times when using a Steffes time clock module. When the heater is programmed for a time clock module, the lights will illuminate. One of the lights will be solid, and the other light will flash. For example, if the heater is set for 7 p.m., the light next to the p.m. flashes. If it is set for 7 a.m., the a.m. light flashes.

## 3 PROGRAMMING PORT

Allows qualified technicians external access for advanced operating modes, updating software, and troubleshooting.

## 4 ELEMENTS ENERGIZED

The lower dash indicates if any of the elements are energized. If the lower dash is illuminated, Serenity has energized at least one of the eight elements.

The upper dash indicates an internal timer is active. For example, in Nova Scotia, Canada, the upper dash would be illuminated from 7 a.m. to 4 p.m. as internal timers are used to build in Nova Scotia Power's afternoon shoulder (anticipated peak) period. The dash is on from 7 a.m. to noon to indicate the timer for a 5 hour peak period and from noon to 4 p.m. to indicate the timer for their 4 hour anticipated peak period.

## 5 M BUTTON

The M button is used to access menus. To see the HELP menu, press and release the M button. For more information on the HELP menu, refer to: https://youtu.be/51IpRkNhCGw

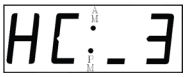
## 6 UP & DOWN ARROW BUTTONS

When in the Operation and HELP menu, the up and down arrow buttons are used to scroll through the entries in the menu.

## OPERATING STATUS MENU:

Press the up arrow to access the operating status.

**Outdoor Temperature -** indicates current outdoor temperature.



**Heat Call Status -** indicates the current heat call status as determined by the room thermostat(s). The display shows the highest heat call value present.

**Brick Core Charge Level -** indicates the current percentage of heat stored in the brick core. CL: _ represents zero percent and CL:F represents a full core charge level.

**Targeted Brick Core Charge Level-** indicates the current percentage of brick core charge being targeted by the system. tL: _ represents a target level of zero percent and tL:F represents a full core charge target level.

**Model #** _____

**Serial #** _____

**Install Date** _____

Save these instructions.