

Mounting instructions and options

5.1 PRUD under-desk and Personal Comfort Controller (PCC)

The **PRUD (PRestyl Under-Desk)** series was developed to resolve heating and air-conditioning problems in buildings with many people in the same space. The units may be plugged into an outlet, or may be controlled by a plug-in thermostat, or PRCC Personal Comfort Controller.



Image of PRUD. This unit can be mounted against the modesty-panel or can be mounted in place of the center desk-drawer. The PRUD warms the lower body and the desk's surface, creating a perfect work-environment (warm legs, warm hands and cool head).



PRCC -120 120V, 350Watt
Personal Comfort Controller



New products for 2020 are:



Installing the PRUD

Locate a suitable AC power outlet capable of supplying 2.3 Amps for the 120 Volt units.

Pre-installation:

Before installing the PRUD2020 (PRUD5050 metric) Far-infrared heating unit it is best to do a dry-run to confirm that the controller is within reach and that the heating unit can be mounted properly; the heater may be mounted horizontally (in place of a desk-drawer) or vertically on the modesty panel. It may be mounted on a side-panel if there is enough room to move about without hitting it with the knees. Select a conveniently located, active AC (Mains) power outlet.

If the outlet has a switch, confirm that it is in the correct position, or switch on the breaker to the outlet. Temporarily insert the power plug and confirm the most convenient location for the heating panel and its cable exit. With the aid of a helper (if needed), hold the heating unit in place and mark the mounting-hole locations; the hole-spacing is 15.5 X 19.8 (394 X 503 mm), but most installers prefer to use the mark and drill method.

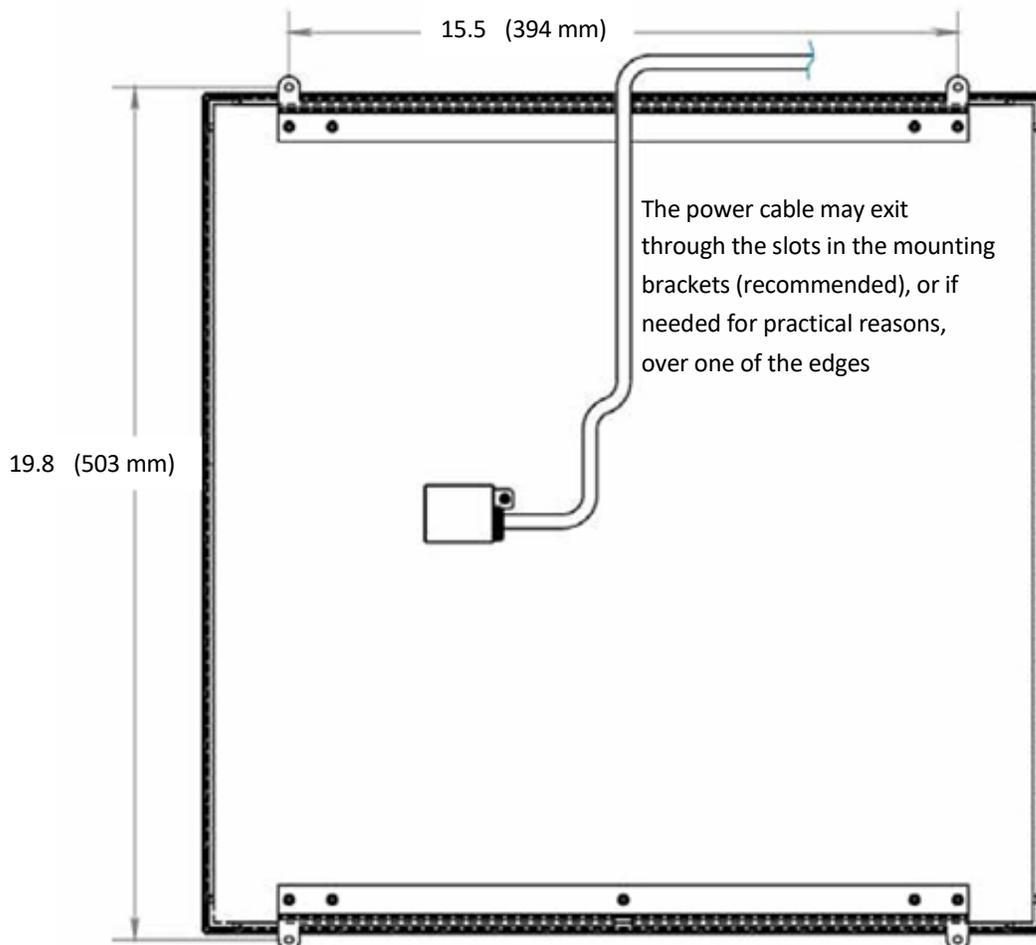
Installing the PRUD continued

Unplug the power cord, locate the (locally acquired) mounting-screws, washers and/or nuts (because there are numerous mounting options, hardware is not included).

Next, prepare the panel for mounting (remove any plastic covering, etc.).

Mechanical Installation:

1. Prior to installing the PRUD5050, select a drill-bit which is compatible with the mounting-screw s size
If mounted to a wood surface (if needed with the aid of a helper), hold the unit in place and predrill two, diagonally opposite lead-in holes (exercise caution not to drill deeper than 80% of the panel s depth).
2. Guide the panel s power cable to the pre-identified exit point.
3. With the appropriate hand, or motorized screwdriver, install the first two mounting screws.
4. With the unit suspended in place, drill the other two lead-in holes.
5. Install the remaining two mounting-screws.
6. If mounted to a metal modesty panel (if needed with the aid of a helper), hold the unit in place and predrill two, diagonally opposite mounting-holes (de-burr the holes if required).
7. Guide the panel s power cable to the pre-identified exit point.
8. With the appropriate hand, or motorized screwdriver and wrench, install the first two mounting screws, washers and/or lock-washers.
9. With the unit suspended in place, drill the other two mounting-in holes
Install the remaining two mounting-screws, washers and/or lock-washers.



Installing the PRUD continued

Electrical installation:

1. If a Personal Comfort Controller (attached or separate) is used, make sure the on/off switch of the PRCC is in the OFF (0) position.
2. Plug the power (mains) plug into the pre-selected (mains) outlet.
3. Switch-on the (mains) outlet, or switch the breaker back on.
4. If a plugin thermostat or external timer is used, follow the instructions provided with these accessories.
5. If supplied with PRCC, rotate the PRCC's side mounted comfort control to approximately mid-position.
7. Rotate the comfort control clockwise (to the wide part of the arrow) and observe the comfort-level indicator; it should be on for most of the time and or for a very short time (this is the maximum power/temperature position).
8. Confirm that the PRUD heater is warming up (caution; in a few minutes, the unit will heat up to the temperature of hot coffee).
9. The system is now ready for service.
10. Set the control for a comfortable (panel-surface) temperature.

- * Notes: If the distance between the mounting location and the heating panel exceeds the cable-length a code-conforming extension cord meeting the following requirements may be used:
The wire size must be no smaller than 16 Gauge (3 X 0.75 mm²); it must have a Line, Neutral, and Ground/Earth). The length may not exceed 8 (2.4 m) No other devices should be plugged into this extension cable The cable must lay straight; it may not be curled or looped

A short extension cable (less than 6 feet, or 1.6 m) with a multiple outlet-strip may be used provided that: It is 3-wire, code-conforming (Line, Neutral, and Ground/Earth)

The total rated current capacity must be greater than the sum of the current for all devices, including the current allocated for the PRUD2020/5050. The cable must be straight, it may not be curled or looped.

Operation:

1. Ensure that the (mains) power-outlet switch, if supplied, is in the ON position, and the breaker to the outlet is ON
2. If supplied with a PRCC, Switch the PRCC's power switch to the ON position by turning the knob clockwise. The PRUD should now be active (ON).
3. Rotate the comfort control counter clockwise (to the wide part of the arrow) and observe the comfort-level.

(CAUTION AFTER A FEW MINUTES, THE PANEL'S SURFACE MAY REACH THE TEMPERATURE OF A HOTCUP OF COFFEE)

4. The comfort-level (representative temperature) may be adjusted to lower levels by rotating the Comfort Control clockwise to reach a comfortable temperature (It may take 3 to 10 minutes to respond, depending on the room's ambient temperature)
5. The Comfort Control can be manipulated until a pleasant temperature is reached; each user is able to set the control for his/her ultimate comfort level . At night the control may be turned to its lowest position, or the power switch may be switched off

Cleaning and maintenance

No maintenance is required; wipe the heater clean with a dry rag, or unplug the heater before cleaning it with mild soap and water.

PR series standard surface-mounting configurations

The **PR (PREstyl)** series far-infrared heaters may be installed at any elevation or mounting height; this section addresses mounting the panels using the supplied mounting brackets.

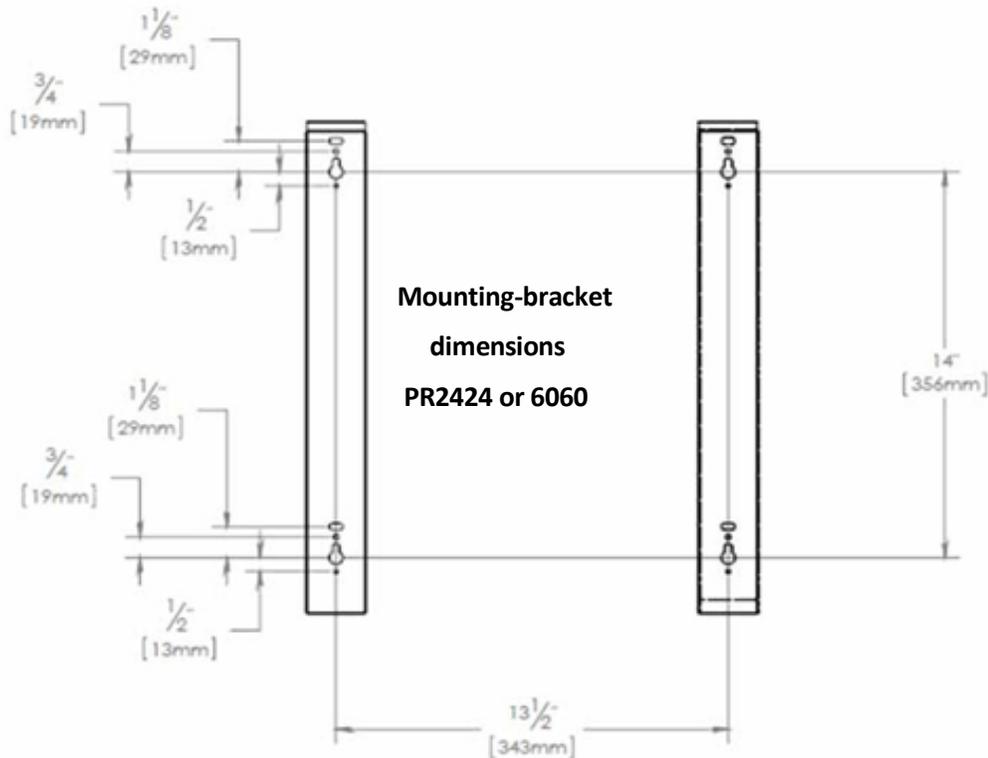
For ease of installation, Prestyl’s mounting brackets are supplied with a safety latch mechanism that replaces the need to use safety screws or security-wire in wall and on-ceiling installations. To comply with safety regulations, the latches can be closed by hand, but require a flat-blade screwdriver or similar device to open.

For single person installation, the installer may fabricate two simple S-hooks from 12-8 Ga (2 to 3 mm diameter) steel wire to suspend the panels during the electrical wiring operation. See sketch.

The brackets may be mounted on the wall or ceiling using appropriate screws or wall-anchors (not supplied). □□ To ensure a smooth installation, please use a carpenter’s square or a square piece of cardboard as a guide to ensure that the mounting brackets are positioned correctly. Carefully mark the distance between the two brackets as misalignment may make it difficult to install the panels.

The power supply cable may be plugged into an outlet (or hardwired into an electrical box) located immediately above the panels, or it may exit over the panels’ edges or through the opening between the panel and the mounting-bracket.

Mounting-bracket installation dimensions for the PR2424/6060, the PR2448/12060, and the PR 4242/105105 series:

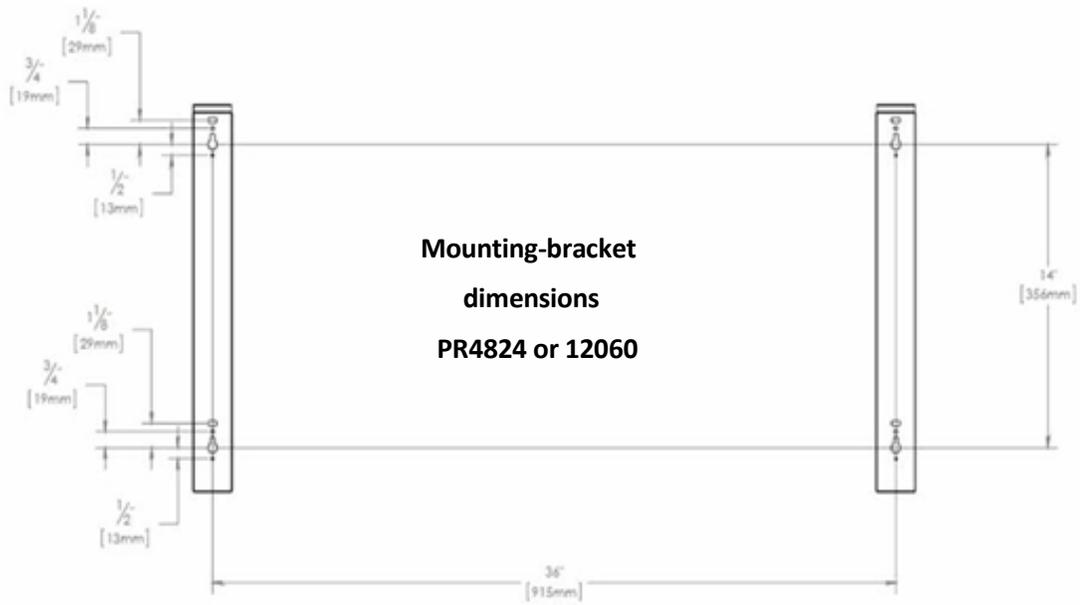


Note: The primary fastener (hole) pattern is 13.5 X 14.0 (343 by 356 mm)

Please observe the 13.5 /343 mm dimension as it is critical for proper bracket insertion

For reference, the typical distance between the installed brackets should be 11.4 (11 - 7/16) or 290 mm.

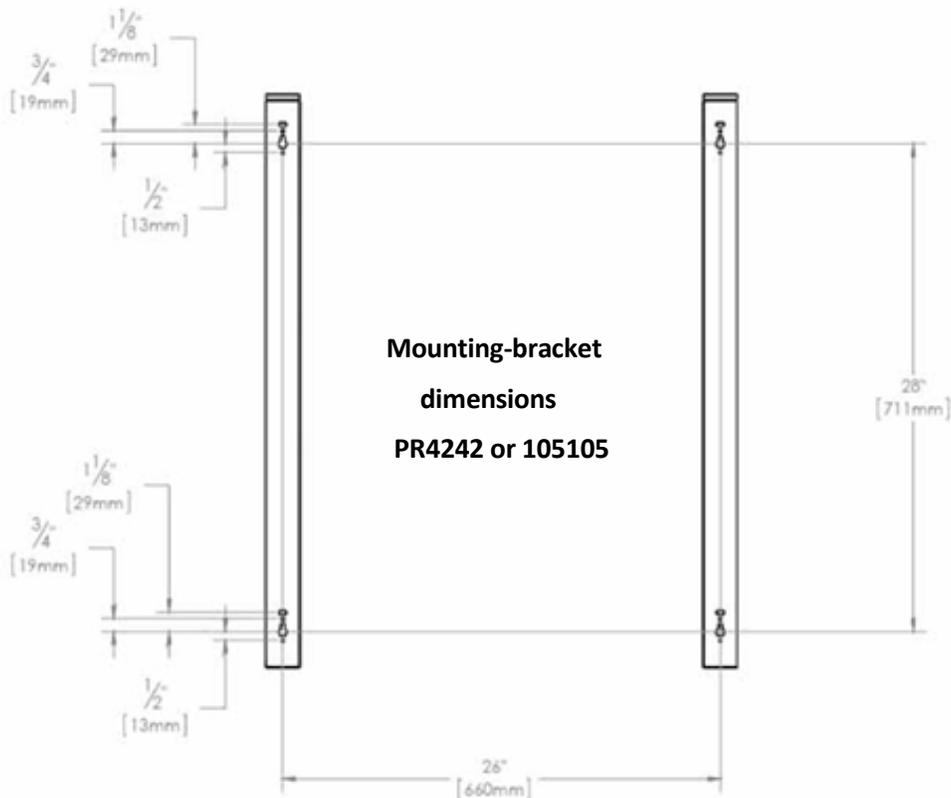
PR series standard surface-mounting configurations continued



Note: The primary fastener (hole) pattern is 36 X 14.0 (915 by 356 mm)

Please observe the 36 /915 mm dimension as it is critical for proper bracket insertion

For reference, the typical distance between the installed brackets should be 33.9in (33-15/16) or 861 mm.



Note: The primary fastener (hole) pattern is 26 X 14.0 (660 by 356 mm)

Please observe the 26 /660 mm dimension as it is critical for proper bracket insertion

For reference, the typical distance between the installed brackets should be 23.9in (23-15/16) or 607 mm.

PR series standard surface-mounting configurations continued

Prestyl's Mounting System

Please review the following procedure to properly install a Prestyl far-infrared heating panel; be sure to properly space the brackets, observing the notes on critical dimensions in the Mounting Dimensions section of this manual

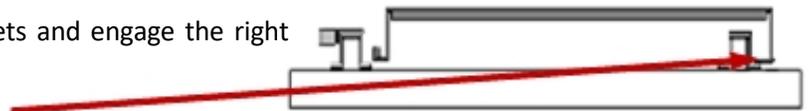
For wall or ceiling-mounting of the PR2424/6060, the PR4824/12060, and the PR4242/105105, mark the mounting locations using a carpenter's square or a straight piece of cardboard, a tape measure or ruler, and the dimensional information on page. With locally acquired hardware, install the mounting brackets (be sure the brackets face the same direction; straight hooks on one end and curved hooks on the other).

Where possible (with joist ceilings and/or stud-walls), at least one of the brackets mounting holes should be over a stud or joist; the other(s) should be installed using appropriate anchors. (Please note that mounting hardware is not included as installations vary by building and region.)

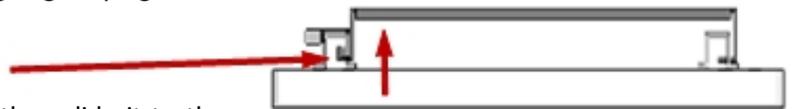
Installation:

1. Locate an area near an active power-outlet, or employ an electrician to provide a power outlet at or near the heating panel (in certain areas the panels may need to be hardwired; in these cases, an electrician should install a suitable electrical box behind or near the panel).
2. Install the two mounting brackets; wherever possible utilize the holes which are closets to each end.
3. Using a flat-blade screw driver open the safety latches.
4. Ensure that the intended power outlet or branch-breaker is switched on.
5. While a helper holds the panel, route the power cord to the outlet (or termination-box); deactivate/switch on the switch, or breaker for this circuit until the installation is complete.
6. Plug the power-plug into the outlet or hard-wire the connection.

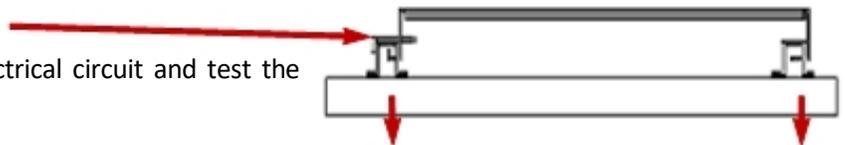
7. Place the panel near the mounting brackets and engage the right-hand (straight hook).



8. Slide the panel onto the bracket by holding it gently against the wall or ceiling to engage the left-hand hook.



9. Allow the panel to rest in on the brackets, then slide it to the latch-side and close the safety latches.



10. Plug-in the panel or switch on the electrical circuit and test the panel.

Note: Single person installation is possible by using temporary "S"- hooks in the "boxed-hook" (left-hand side) of the mounting bracket and the holes in the reinforcement bars (replaces the helper in step 5). These hooks temporarily suspend one end of the panel while the electrical connections are made; to remove the hooks simply shake the panel (the hooks will drop); then, install it as outlined above. The size of these hooks is 4.5" for the 4242/105105 and 3" for all other sizes.

