



>> Technical Outline

Prestyl's panels may be installed in commercial, residential and institutional environments; installation may be as simple as plugging the panel into a wall outlet (with or without a line-voltage thermostat), or these may be installed as a system. Panels are available in a variety of voltages (USA and Canada) and power levels.

Prestyl's housings are constructed from 100% recyclable Aluminum. The unique (proprietary) design creates a lightweight, durable product while providing the best far-infrared transfer possible.

All panels are finished size of 1/2" (13 mm) thick in 4 standard sizes: 20" x 20" 24" x 24" 24" x 48" 41.5" x 41.5"
 In millimeters: 500 x 500 600 x 600 600 x 1200 1050 x 1050

Installed as a system:

A system typically contains a number of Prestyl heating panels, thermostats and relays to control the panels. Photo panels may be wall-mounted, others may be mounted on the ceiling, placed in a suspended or system ceiling, or if higher than 14 feet (4.2 meters) can be installed as perimeter-heat (mounted at 45 degree angles) or suspended from chains.

Technology:

The core of our heating technology is a unique proprietary thin-film element built to ISO 9001 standards. The film features heating characteristics not found in any competitor's product. It is extremely efficient and reliable, typically providing savings of 15% to up to 50% over traditional heating methods (savings percentages are based on many factors such as the age of a building, old heating system, etc.). The panels contain no carbon film, no heating coils and no moving parts and are expected to have a usable life of dozens of years. Prestyl's artwork panels are printed and UV cured to be enjoyed for many years.

The typical installed wattage 4 to 5.5 Watts per square foot, or 41-56 Watts per square meter (depending on building conditions, mounting-height and glass present).

All panels feature a 5 year limited Warranty.

>> Specifications US/Canada, EU/World (DC to 50/60 Hz)



Standard product

Optional voltages

| Operating Voltage (Volts) | Nominal Size (Inches) or (millimeters) | Power (Watts) | Current Nominal (Amps) | Max Current (Amps) | Operating Voltage (Volts) | Nominal Size (Inches) | Power (Watts) | Current Nominal (Amps) | Max Current (Amps) |
|---------------------------|--|---------------|------------------------|--------------------|---------------------------|-----------------------|---------------|------------------------|--------------------|
| 120 | 20" x 20" | 275 | 2.3 | 2.5 | 208 | 20" x 20" | 275 | N/A | N/A |
| 120 | 24" x 24" | 400 | 3.3 | 4.5 | 208 | 24" x 24" | 400 | 1.9 | 2.6 |
| 120 | 24" x 48" | 750 | 6.3 | 8.4 | 208 | 24" x 48" | 750 | 3.6 | 4.8 |
| 120 | 42" x 42" | 1100 | 9.2 | 12.4 | 208 | 42" x 42" | 1100 | 5.3 | 7.1 |
| 240 | 20" x 20" | 275 | 1.1 | 1.3 | | 20" x 20" | 275 | N/A | N/A |
| 240 | 24" x 24" | 400 | 1.7 | 2.3 | 277 | 24" x 24" | 400 | 1.4 | 2.0 |
| 240 | 24" x 48" | 750 | 3.1 | 4.2 | 277 | 24" x 48" | 750 | 2.7 | 3.7 |
| 240 | 42" x 42" | 1100 | 4.6 | 6.2 | 277 | 42" x 42" | 1100 | 4.0 | 5.4 |

The above conforms to UL Standard 1278; Certified to CSA Standard C22.2 No. 46

| | | | | |
|---------|----------------|------|-----|-----|
| 230/240 | 500 X 500 mm | 275 | 1.1 | 1.3 |
| 230/240 | 600 X 600 mm | 400 | 1.7 | 2.3 |
| 230/240 | 600 X 1200 mm | 750 | 3.1 | 4.2 |
| 230/240 | 1050 X 1050 mm | 1100 | 4.6 | 6.2 |



The sizing of Prestyl's radiant heating panels is based on a number of different criteria.

If one wanted to use these as the primary heat-sourced, the size or number of panels can be calculated using the [Prestyl sizing calculator](#) and controlled by one of the thermostat options. Even if the panels are not used as the primary heat-source, the best method to determine the size (or quantity) of the panels is to use the calculator. Below please find some typical panel size examples and the average sizes rooms these would heat. Please note that results may vary as there are many building/room and furnishing factors (material, insulation quality, window type and undesired cold air flows) that will affect the performance of any heating systems. You may use a "trial and error" method and install a smaller system than calculated, but the results may not be optimum and energy usage will likely be higher.

Typical coverage:

A ceiling mounted 2' X 2' (600 mm x 600 mm) panel, rated at 400 Watts, typically heats a 70 square foot (6.5 m²) room with an 8'6" (2.6 m) ceiling, a 7' x 3' (2.1 m x 0.91 m) interior door and a 2' X 3' (0.6 m x 0.91 m) double glazed window; when the same unit is wall-mounted it typically heats an area of 50 square feet (4.65 m²).

A ceiling mounted 4' X 2' (600 mm x 1200 mm) panel, rated at 750 Watts, typically heats a 150 square foot (14 m²) room with an 8'6" (2.6 m) ceiling, a 7' x 3' (2.1 m x 0.91 m) interior door and a 2' X 4' (0.6 m x 1.2 m) double glazed window when the same unit is wall-mounted it typically heats an area of 110 square feet (10.2 m²), regardless of ceiling height. The same panel can also heat a 216 square foot (24.15 m²) well-insulated windowless basement with a 7'6" (2.3 m) ceiling.

An 1100 Watt wall-mounted 42"x 42" (1050 mm x 1050 mm) panel, typically heats a 160 square foot (14.9 m²) room of any ceiling height with a 7' x 3' (2.1 m x 0.91 m) interior door and a 2' X 4' (0.6 m x 1.2 m) double glazed window



PR2424/6060



PR4824/12060



PR4242/105105

