

The Pocket Wall Unit

PWU 2/3



SUBMITTAL DATA INFORMATION

Engineering Specifications

Construction. The one piece chassis and grille is manufactured from high grade zinc coated steel. The grille and exposed parts of the chassis are painted with a neutral color baked enamel finish.

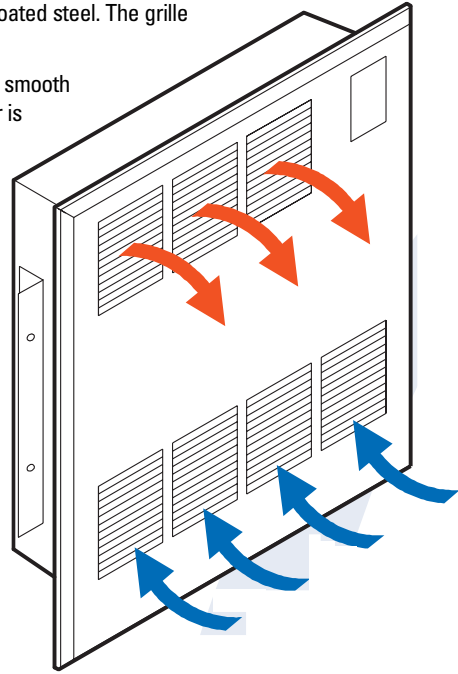
Heat Exchanger. A highly efficient, headered coil, made of copper tubes expanded into smooth aluminum plate fins (10 FPI), tested at 300 PSI, and sealed for quality. The heat exchanger is positioned in the unit for maximum heat transfer over the coil.

Fan and Motor Assembly. High spec tangential SEL fan and motor assembly consists of high static fan wheel and scroll, detachable motor, replaceable "easy glide" sleeve bearings, and the fan and motor cut out are protected to UL/CSA specifications. This fan and the motor assembly are designed to run whisper quiet without vibration.

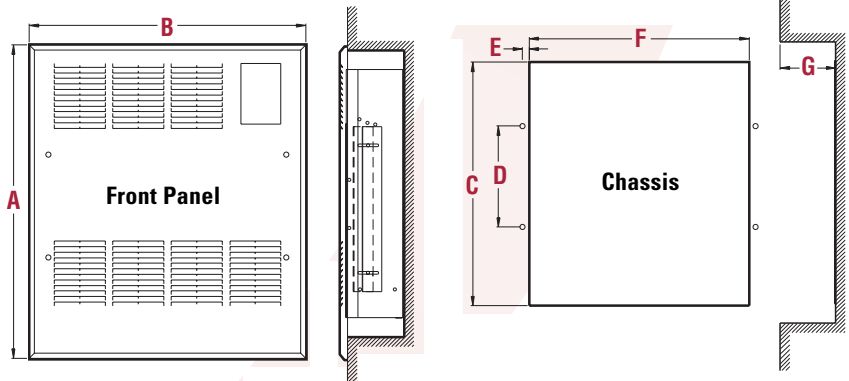
Controls. The units have integral two speed, max.-off-min., fan switches. The LTC – low limit aquastat is also a high spec item with a close tolerance designed to close on a rise to 110°F+/-3°F and open at 90°F+/-3°F. For low temperature systems you will have to change out the aquastat located in the main electrical box easily removed from its hold on clip.

Water Connections. Supply and return connections are 1/2" sweat connections located to the left of the unit as you face the grille. A water vent with wide convenient screwdriver slot is accessible through the grille.

Electrical Connections. 120/60/1 power supply is required. All that's required is to knock out the junction box hole you want to use and wire to the L1 and L2 leads. There is a convenient one screw access plate on the top of the unit to get at the ground.



| Dimensions | | | | | |
|-------------|---------|--------|---------|---------|--------|
| Front Panel | A | | B | | |
| PWU 2/3 | 16 1/2" | | 14 5/8" | | |
| Chassis | C | D | E | F | G |
| PWU 2/3 | 14 1/2" | 7 1/8" | 3/8" | 12 1/8" | 3 1/2" |



| PWU's Thermal Performance | | | | | | | | | | | | |
|---------------------------|--------------|----------------------------|---------|---------|-------|-------|-------|-------|-------|-------|-------|-------|
| Model | Flow (Gals.) | Entering Water Temperature | | | | | | | | | | |
| | | 100°F * | 110°F * | 120°F * | 130°F | 140°F | 150°F | 160°F | 170°F | 180°F | 190°F | 200°F |
| PWU 2/3 | 1 GPM | 950 | 1119 | 1307 | 1517 | 1730 | 1942 | 2153 | 2415 | 2634 | 2864 | 3104 |
| | 3 GPM | 1262 | 1491 | 1707 | 1927 | 2142 | 2359 | 2538 | 2786 | 3037 | 3282 | 3542 |
| | 5 GPM | 1408 | 1628 | 1851 | 2074 | 2298 | 2516 | 2725 | 2983 | 3254 | 3524 | 3800 |

* Excellent low temperature performance makes the PWU perfect for use with high efficiency condensing boilers, geothermal heat pumps, and solar thermal collectors.

Job Name:
 Engineer:
 Contractor:
 Submitted by:



ENVIRONMENTAL PRODUCTS

300 Pond Street, Randolph, MA 02368 • (781) 986-2525 • www.smithsenvironmental.com

The Pocket Wall Unit

PWU 4/6 - 8/10 - 13/15



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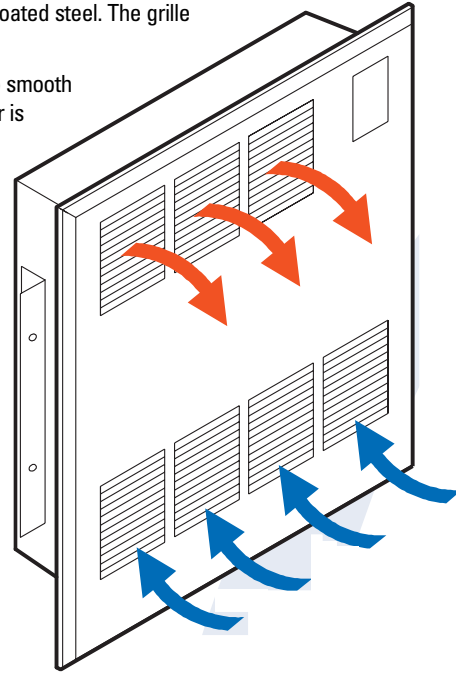
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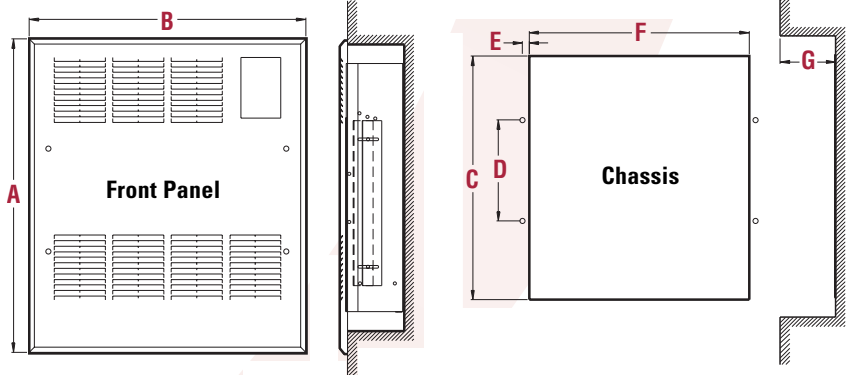
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| Dimensions | | | | | |
|-------------|---------|--------|---------|---------|--------|
| Front Panel | A | | B | | |
| PWU 4/6 | 19 1/2" | | 17 1/2" | | |
| PWU 8/10 | 19 1/2" | | 21" | | |
| PWU 13/15 | 19 1/2" | | 31 1/2" | | |
| Chassis | C | D | E | F | G |
| PWU 4/6 | 17 1/2" | 7 1/8" | 3/8" | 14 1/8" | 3 1/2" |
| PWU 8/10 | 17 1/2" | 7 1/8" | 3/8" | 18 1/8" | 3 1/2" |
| PWU 13/15 | 17 1/2" | 7 1/8" | 3/8" | 28 1/8" | 3 1/2" |



| PWU BTU/HR Ratings at high speed - Water Flow Rate (Gallons Per Minute) | | | | | | | | | |
|---|-----------|------------|-------------|-----------|------------|-------------|-----------|------------|-------------|
| Entering Water Temperature (°F) | 1 GPM | | | 3 GPM | | | 5 GPM | | |
| | Model 4/6 | Model 8/10 | Model 13/15 | Model 4/6 | Model 8/10 | Model 13/15 | Model 4/6 | Model 8/10 | Model 13/15 |
| 140° | 2529 | 4185 | 7002 | 3294 | 5211 | 8154 | 4050 | 6030 | 8640 |
| 150° | 2961 | 4689 | 8352 | 3645 | 5724 | 9045 | 4410 | 6480 | 9675 |
| 160° | 3285 | 5175 | 9180 | 4050 | 6291 | 10017 | 4815 | 7110 | 10575 |
| 170° | 3663 | 5634 | 10215 | 4482 | 6966 | 11556 | 5220 | 7840 | 12060 |
| 180° | 3906 | 6174 | 11088 | 4941 | 7614 | 13068 | 5490 | 8505 | 13500 |
| 190° | 4167 | 6696 | 12105 | 5292 | 8289 | 14121 | 5895 | 9180 | 14715 |
| 200° | 4572 | 7200 | 12951 | 5670 | 8991 | 15120 | 6390 | 9855 | 15795 |

Ambient air temp: 65°F • Flow rates 1, 3 and 5 Gallons per Minute



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