

High Efficient Condensing Indoor Direct Vent Models

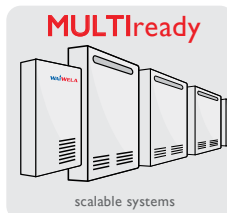
2 Sizes to Choose From

1. PHH-32RDV - 199,900 Btu Max*
2. PHH-25RDV - 157,000 Btu Max**

Performance

| PHH-32RDV (199,900 Btu/Hour Max) | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Temperature Rise (ΔT@°F) | 35 | 45 | 50 | 60 | 70 | 77 | 80 | 90 | 100 |
| Gallons Per Minute | 9.5 | 8.4 | 7.6 | 6.3 | 5.4 | 4.9 | 4.7 | 4.2 | 3.8 |
| Gallons Per Hour | 570 | 504 | 456 | 378 | 324 | 294 | 282 | 252 | 228 |

| PHH-25RDV (157,000 Btu/Hour Max) | | | | | | | | | |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Temperature Rise (ΔT@°F) | 35 | 45 | 50 | 60 | 70 | 77 | 80 | 90 | 100 |
| Gallons Per Minute | 8.5 | 6.6 | 5.9 | 5.0 | 4.2 | 3.8 | 3.7 | 3.3 | 3.0 |
| Gallons Per Hour | 510 | 396 | 354 | 300 | 252 | 228 | 222 | 198 | 180 |



Features

- 94% Efficient - .94 Energy Factor
- Stainless Steel Condensing Heat Exchanger
- Residential and Commercial Applications
- .26 GPM Minimum Flow Rate / .4 GPM Activation
- Sealed Combustion Burner
- 2 Pipe Direct Vent System Designed for PVC
- Vent with 3" or 2" PVC Pipe
- Supports both Horizontal and Vertical Venting
- Wired Temperature Remote Control Included
- Connect up to 20 Units in Tandem
- High Altitude Capable
- Self Diagnostic System
- Supplied 120V Power Cord
- Freeze Protected to -30°F
- Low NOx Burner

Safety

ICAD: Incomplete Combustion Avoidance Device
- Monitors Combustion for Evidence of Unsafe Carbon Monoxide

Overheat Limit Wrap: Resin Film Surrounds the Combustion Chamber, Detecting Overheating

Flame Failure Monitor: Flame Rods Ensure Proper Firing and Detect Flame Failure

Anti-Scald Protection: Temperature Controller can be Adjusted to Prevent Scalding

* Available February 2011

** Available April 2011

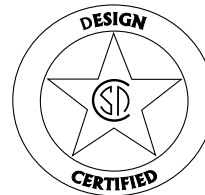
Specifications

| Model Number | PHH-32RDV | PHH-25RDV |
|---------------------------|---|-----------|
| Installation Type | Indoor - Sealed Combustion - Condensing | |
| Gas Type | Natural Gas or Propane Gas | |
| Minimum BTU/Hour | 11,000 | |
| Maximum Btu/Hour | 199,900 | 157,000 |
| Efficiency % | 94% | |
| Energy Factor (EF) | 0.94 | |
| Minimum Water Flow | .26 GPM (.4 GPM Activation Flow) | |
| Max Water Flow @35°F ΔT | 9.5 GPM | 8.5 GPM |
| Dimensions | 27 1/2" High x 18 1/2" Wide x 9 3/4" Deep | |
| Temperature Range °F | 85-140 (185 with Hi-Temp Chip) | |
| Gas Connection | 3/4" MNPT | |
| Water Connection | 3/4" MNPT | |
| Inlet Gas Pressure (W.C.) | Natural Gas: 4.0 - 10.5 / Propane: 8.0 - 13.0 | |
| Water Pressure PSI | 14 - 150 | |
| Electrical Requirement | 120V / 60 Hz AC / 2 Amps | |
| Power Cord Installed | Yes | |
| Freeze Protection | Yes - (-30°F not including wind chill) | |
| Digital Controller | Yes - UMC-117 Main Controller | |
| Electronic Manifold Ready | Yes - with optional controller | |
| DUOnex Ready | Yes - with optional DUOnex cable | |
| Venting | 3" or 2" PVC - 2 Pipe | |
| Max Vent length | 38 Feet - including one 90° Elbow (using 3" pipe) | |
| High Altitude Capable | Yes | |
| Low Nox Compliant | Yes | |
| Approvals | Energy Star - CSA - GAMA - NSF | |
| Ship Weight | 81 Lbs. | |
| Warranty | 12 yrs. Heat Exchanger / 5 yrs. Parts / 1 yr. Labor | |

*Specifications subject to change without notice
Made In Japan

Accessories

- Hi-Temp Commercial Chip
- DUOnex Cable (2 unit manifold system)
- MIC-6 (up to 6 unit manifold system)
- MIC-180 & MICS-180 (Up to 20 unit manifold system)
- Cables for MIC manifold systems
- UMC-117 (main controller)
- USC1-117 (bathroom 1 controller)
- USC2-117 (bathroom 2 controller)
- Vent Terminations
- Cosmetic Pipe Cover
- TIV - Tankless Installation Valves
- Un-Clog-It (descaling kit)



Available Locally at: