

## High Efficient Condensing Indoor Direct Vent Models

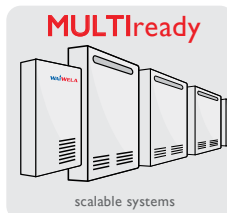
2 Sizes to Choose From

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

### Performance

<b>PHH-32RDV (199,900 Btu/Hour Max)</b>									
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

<b>PHH-25RDV (157,000 Btu/Hour Max)</b>									
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

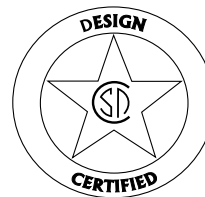
# Specifications

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:

