



Rinnai Water Heating Systems with Hydronic Air Handlers



Rinnai®

Deliver Comfortable Central Heating with the Rinnai Combination Heating and Domestic Hot Water

When integrated with a Rinnai Tankless Water Heater or Condensing Gas Boiler, the Rinnai Hydronic Air Handler offers hydronic solutions for comfortable space heating as well as a continuous supply of domestic hot water. This integrated solution is ideal for both new construction and retrofit applications.

Rinnai Hydronic Air Handler models with or without an integrated pump can be customized to specific installation needs for maximum efficiency and comfort. An internal pump allows integration with Rinnai Tankless Water Heaters to simultaneously provide home heat and Domestic Hot Water. The no-pump models can be integrated with combi boilers offering hot water to the home while isolating the space-heating loop from the DHW loop.

FEATURES:

- Vertical configuration (upflow with left, right or side return) and horizontal configuration (upflow with bottom return)
- Corrosion-free, heavy gauge steel cabinet is insulated with 5/8 in faced foil for noise suppression
- Suitable for potable water systems
- Freeze protection – factory-installed activated at 40° F (4° C)
- Operates based on input from a thermostat connected to the Hydronic Air Handler
- 24VAC Isolation Valve controls solenoid during recirculation of DHW capability
- Auxiliary contact for boiler activation
- Domestic priority switch, when installed with a Rinnai Tankless Water Heater or I-Series Combi Boiler, offers endless hot water during high DHW demand
- 60-second time delay for blower activation enhances user comfort during space cooling and heating
- Pump timer circulate water in the system for one minute every six hours (requires pump to be controlled by the Hydronic Air Handler control board)
- For use with Rinnai Tankless Water Heaters and I-Series Condensing Gas Boilers (See the “Rinnai Hydronic Air Handler Installation and Operation Manual” for specific models)

MODEL CHART AND SPECIFICATIONS

AIR HANDLER WITH / WITHOUT INTERNAL RECIRCULATION PUMP					
MODELS	AH083CP / AH083P	AH084CP / AH084P	AH125CP / AH125P	AH166CP / AH166P	AH206CP / AH206P
Shipping Dimensions – l, w, h Inches	21.85 x 17.50 x 30	21.85 x 17.50 x 30	21.85 x 17.50 x 30	21.85 x 17.50 x 31	21.85 x 17.50 x 31
Unit Weight – lbs (kg)	66 (30) / 57 (26)	66 (30) / 57 (26)	66 (30) / 57 (26)	71 (32) / 62 (28)	83 (38) / 74 (34)
Installation	Indoor				
Nominal Airflow (CFM)	800	800	1200	1600	2000
Nominal Heating @140° F (BTU/hr)	30,000	40,000	50,000	60,000	60,000
Motor Speed	3-Speed PSC (preselect by field)				

AHXXCP = Model with internal circulation pump / AHXXP = Model without internal circulation pump

Pump can be internal or external to the air handler.

ADDITIONAL ACCESSORIES	
Part Number	Description
AHRACK-1	Air Handler Rack Assembly (All Hydronic Air Handler Models)
REU-OPU3	Domestic Priority Switch
607000018	24V NC Brass Solenoid Valve (3/4" NPT)
PCD03-SM2	Pipe Cover Enclosure - RL Model Tankless Water Heaters
PCD07	Pipe Cover Enclosure - SENSEI™ Tankless Water Heaters and I-Series Combi Boilers

NOTE: Approved for potable water systems

NOTE: FOR ILLUSTRATION ONLY.

Rinnai Hydronic Air Handlers are compatible with multiple AHRI certified cooling solutions that include outdoor condenser units and cooling coil systems.

Hydronic Heating Coil
High-efficiency, multi-row coil

Left or Right Side HVAC Duct Return
Allows flexibility during installation

Bottom HVAC Return Duct
Allows for horizontal or plenum installations.

3-Speed PSC Blower Motor Housing

Rinnai Tankless Water Heater or Boiler (purchased separately)

Water Inlet
Water from water heater into air handler

Recirculation Pump
(for models with integrated pump). Circulates hot water between the air handler and tankless water heater

Water Outlet
Water returning from air handler to water heater

Control Board
(not visible)

Corrosion Resistant Cabinet

Air Handler Rack Assembly (Accessory)

5/8 Foil-Faced Insulation

Hydronic Air Handler (integrated pump model) installed with Rinnai Tankless Water Heater and Assembly Rack. Each sold separately.



Water Heating Solutions



Home Heating Solutions



Commercial Water Heating Solutions

Creating a Healthier Way of Living

Learn more about Rinnai high-performance Tankless Water Heaters, Hybrid Water Heating Systems, Boilers, Vent-Free Fan Convectors and EnergySaver® Direct Vent Wall Furnaces at:

rinnai.us | rinnai.ca



Rinnai America Corporation

103 International Drive | Peachtree City, GA 30269
1-800-621-9419 | rinnai.us | rinnai.ca