

AQUAZONE™
Water Source Heat Pumps



Turn to the Experts.™





Water Source Heat Pumps (WSHPs) are a great solution for year-round multizone heating and cooling. The Carrier Aquazone™ System offers a broad range of models delivering efficient, reliable temperature and humidity control for a wide variety of applications. Whether your requirement is for replacement or new construction, for a boiler/tower or geothermal (open or ground loop) configuration, there is an Aquazone system that's perfect for your needs.



AQUAZONE™ Water Source Heat Pumps

Versatile Systems for Affordable Comfort

Efficiency

Our Aquazone heat pumps are designed to use energy efficiently with operating flexibility that reduces utility costs, especially under part-load conditions and over a lifetime of operation. Puron® refrigerant two-stage models offer Energy Efficiency Ratios (EERs) up to 18.5 in boiler/tower applications and up to 31.5 in geothermal applications — ratios that are among the highest in the industry. Choose from standard, high or premium efficiency models or Puron two or single-stage models to fit your building's comfort requirements and your budget.



Reliability

Carrier's Aquazone WSHPs are built to last. The heavy-gage, galvanized sheet metal cabinets feature a corrosion-resistant, powder-painted finish for durability and long life. Maintenance is simple with three-side service access and built-in visual diagnostics. Standard electronic condensate overflow protection along with powder-painted and insulated drain pans give you added peace of mind. And Carrier's standard five-year compressor warranty for most of its units is unique in the industry and a true benefit for you.

Puron Refrigerant 50PTH, PTV, PTD 2 to 5-1/2 tons



Quiet

Carrier's engineering advances have made Aquazone heat pumps among the quietest in the market. Noise-reduction features such as fully insulated cabinets, low-speed blowers and fan-motor insulation are Aquazone heat pump standards. The isolated compressor railing system minimizes vibration transmission, and most units feature spring-mounted compressors for additional sound protection.



Flexibility

WSHPs let you put heating and cooling capacity exactly where and when it's needed. Aquazone heat pumps give you unprecedented flexibility with many sizes, configurations and factory-installed options, both for now and future expansion.

The Right Level of Control

Centralized control is easily accomplished by using the Aquazone heat pump system control panel to handle information for system pumps, boilers and cooling towers. This ready-to-use, preprogrammed control panel can be used with either stand-alone WSHP units or units with PremierLink™ Controller.

In stand-alone systems, the system controller enables ancillary equipment operation, as well as scheduled operation of multiple WSHP zones. For Carrier Comfort Network® (CCN) installations, PremierLink controllers transmit unit information back to a central computer for managing system operation, monitoring and diagnostics.

All Aquazone heat pumps feature state-of-the-art, microprocessor-based unit controllers. Our standard Complete C unit controller package gives you all the advantages of Carrier control engineering. For even more sophisticated features, such as fan speed control, a larger transformer and multiple accessory options, choose our enhanced Deluxe D package. For additional humidity control, choose the optional Carrier modulating reheat option.

Carrier also offers a complete direct digital control solution, featuring our factory-mounted PremierLink controller. WSHP information from PremierLink sensors is sent over the CCN, enabling convenient control of multiple zones.

For all your comfort needs, Carrier has the right level of control.



Horizontal, Vertical and Downflow

- Standard Efficiency
- High Efficiency
- Premium Efficiency
- Puron Single-Stage
- Puron Two-Stage



Large-Capacity Horizontal and Vertical

- 50HQL
- 50VQL



Console

- 50KQL

Selection Guide

Model	Description	Capacity Range (tons)	Application Comments
50RHC & RVC	Standard-efficiency horizontal and vertical series	1/2 to 5	Compact units for commercial water loop applications
50RHR & RVR	High-efficiency horizontal, vertical upflow and vertical downflow series	1/2 to 5	High-efficiency units for water loop and geothermal applications
50RHS, RVS & RDS	Premium-efficiency horizontal, vertical upflow and vertical downflow series	1-1/2 to 6	Premium-efficiency units for water loop and geothermal applications
50PSH, PSV & PSD	Puron® single-stage horizontal, vertical upflow and vertical downflow series	1-1/2 to 6	Premium-efficiency units with Puron refrigerant for water loop and geothermal applications
50PTH, PTV & PTD	Puron two-stage horizontal, vertical upflow and vertical downflow series	2 to 5-1/2	Highest-efficiency units that provide the ultimate temperature and humidity control for water loop and geothermal applications
50HQL	Large horizontal series	6 to 10	Horizontal units for large zoned areas for water loop and geothermal applications
50VQL	Large vertical series	6-1/2 to 25	Vertical units for large zoned areas for water loop and geothermal applications
50KQL	Console series	1/2 to 1-1/2	Finished interiors for under window installations, hallways or stairways for water loop and geothermal applications
50RTG	Rooftop water source heat pump series	3 to 20	For outdoor rooftop installations, 100% outside air capable with factory-installed energy recovery wheel option
50RWS	Water-to-water water source heat pump series	3 to 30	Perfect for treating ventilation air or as a stand-alone boiler/chiller with standard extended water temperature range capability

Benefits at a Glance

For Building Owners & Managers

- Delivers greater occupant comfort
- Quiet operation
- Low life-cycle costs
- Reliable operation
- Supports LEED™ certification

For Consulting Engineers

- ASHRAE 90.1 compliant
- Quiet operation
- Reduces energy consumption
- High efficiency
- Plug-and-play design

For Contractors

- Extensive factory-installed options
- 100% run-tested
- Easy to start up and operate
- Easy to service

Turn to the Experts

Whatever your HVAC needs, from specifying and purchasing to installation and maintenance, Carrier has the solution. As the world leader in heating, ventilation and air conditioning, Carrier is committed to continually improving the quality of comfort for our customers.

From concept to finished product, your local Carrier sales representatives walk with you every step of the way.

Whether you have one building, multiple sites nationwide, or special equipment and facility requirements, Carrier sales representatives will recommend a solution that fits your scope and budget.



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Stock symbol UTX. 04-850276-25

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