



Horizontal Water Source Heat Pumps

Leading Manufacturer of High-Rise Residential HVAC Equipment

Experience The Difference

Unilux Water Source Heat Pumps are engineered to be as efficient as they are versatile. Thoughtfully designed to simplify installation, reduce ongoing maintenance, and deliver consistently quiet operation.

A Proven Choice for New Construction and Renovation

Water Source Heat Pumps remain one of the most reliable and adaptable solutions for conditioning a wide range of buildings. Unilux units are well suited for both new construction and retrofit projects, including apartments, condominiums, hotels, senior living communities, dormitories, office buildings and schools.

At Unilux, we believe HVAC systems should conform to the building—not impose limitations on it. That philosophy informs every aspect of our design. The Water source heat pump operates efficiently across entering water temperatures from 60° to 110°F, with an extended geothermal range of 20° to 110°F. This flexibility supports both water-source and ground-source applications, allowing the system to adapt seamlessly to the demands of the project.

Standard Features

Unilux Water Source Heat Pumps are designed to meet industry-leading performance requirements and are ETL tested. The units are ETL listed for safety requirements and meet UL-60335-2-40 / CSA-C22.2 No. 60335-2-40. They conform to ANSI/AHRI/ASHRAE/ISO Standard 13256-1: 1998.



How It Works

Water Source Heat Pumps operate on a closed water loop. They either extract heat from the loop and disperse it throughout the space to provide heating, or absorb heat from the space and expel it back to the loop to provide cooling. This provides on-demand heating and cooling year-round, with each heat pump operating independently.

APARTMENTS | CONDOS | ASSISTED LIVING | HOTELS | RESORTS

Benefits Overview

1. Metal Casing

Manufactured with galvanized steel, the metal casing offers supply openings on the back, left, or right. It is fully lined with fiberglass insulation reinforced by a thermosetting resin. It is coated on the air stream side with an acrylic facing without the use of flammable adhesives. Insulation inside the unit has a flame-spread rating no more than 25 and a smoke-developed rating no more than 50.

2. Stainless Steel Drain Pan & Overflow Sensor

Stainless-steel drain pan with neoprene insulation. The pan includes an overflow sensor to detect rising water levels and turn off the unit to prevent flooding.

3. Refrigerant Circuit

A refrigerant circuit with compressor isolation reduces vibration and provides easy and convenient service access. The unit is complete with a rotary or scroll compressor, DX coil, coax heat exchanger, TX valve, flow control, reversing valve, 2-way valve and motorized actuator - all housed within a sound dampening metal casing. The unit operates using low GWP R454B refrigerant.

4. Fan & Motor Assembly

A thermally-protected, multi-speed ECM motor is resiliently mounted to a centrifugal fan which has a galvanized steel forward-curved DWDI wheel in a galvanized housing.

5. Water Hoses

Flexible supply and return hoses for easy removal during maintenance.

6. Filter

One 1" MERV 8 filter and one disposable filter are included with the return air intake opening.

7. Unit Tagging

Units can be tagged with specific room numbers, riser numbers and other unique requirements.

OPTIONAL ACCESSORIES

8. Thermostat

Low voltage; plug-in for remote mounted; manual or automatic change-over; all electronic/digital.

9. Ball Valves

Manual shut-off valves.

Performance Schedule


Model	Nominal Tons	CFM	Fluid Flow Rate (GPM)	Cooling Data		Heating Data	
				Total BTUH	EER	Capacity BTUH	COP
UZHP02L	0.50	250	1.74	5,600	12.26	7,400	5.04
UZHP03L	0.75	340	2.50	9,500	13.97	11,400	4.37
UZHP04L	1.00	450	3.00	11,700	12.35	14,500	4.30
UZHP05L	1.25	540	3.76	13,800	14.63	17,300	5.32
UZHP06L	1.50	650	5.00	17,100	13.97	22,200	4.94
UZHP08L	2.00	810	5.52	24,800	14.44	29,400	4.85
UZHP10L	2.50	1,060	7.52	29,200	15.20	33,800	4.94
UZHP12L	3.00	1,200	9.00	36,200	16.63	39,000	5.04




UNILUX

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Our state-of-the-art designs are demanded by today's best developers, engineers and owners. Contact us to learn why Unilux HVAC is the preferred choice of professionals throughout North America for vertical stack HVAC solutions.

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