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Unilux RHP Retrofit Heat Pump Solutions

Unilux RHP was formed to provide a turnkey solution for owners who have heat pumps that are beyond their useful life or are experiencing high failure rates. We custom design heat pump replacement chassis to replace all aging heat pumps with minimal impact to the suite. Unilux RHP offers a direct chassis replacement and a full turnkey solution to replace all aging aspects of the heat pump unit.

About Us

Unilux VFC Corp. has been manufacturing and selling fan coils for new construction since 1972, specializing in high-rise residential applications such as condos and apartments. Unilux VFC, located in Toronto, Canada, is one of the largest manufacturers of fan coils in North America.

Unilux RHP was formed in 2019 to leverage Unilux’s HVAC knowledge and their experience in the fan coil retrofit market. Unilux RHP will manage each project from inspection, to quote, to a completed install, ensuring quality control every step of the way.

Common Problems with Aged Heat Pumps

Heat pumps, like a lot of HVAC equipment, are built to have an expected useful life of 20 years. Since heat pumps became very popular in North American high-rise construction during the 1980s, there are many heat pumps which are well past their useful life. Common issues include:

• Poor heating and cooling performance
• High noise levels
• Excessive energy use
• Water damage both inside the unit and to the suite walls and floors
• Poor indoor air quality

Heat pumps are designed to be built into the walls or above ceilings in suites in order to save space. This makes them very challenging to replace. Various designs from many manufacturers over the past 40 years have made it even more difficult to build a product that meets all customer needs.

Unilux RHP custom builds products to meet exact requirements and provides complete installation.
A Simple Solution For Replacing In-Suite Heat Pumps – Unilux RHP

Unilux RHP provides a full turnkey solution for owners. We will custom engineer a replacement heat pump chassis. Our factory-trained technicians can install the retrofit unit through the original heat pump opening. The replacement heat pump will provide the homeowner with many years of trouble-free operation:

- Reduced noise with use of new motor and compressor technology
- Improved air quality
- Greatly improved cooling and heating performance
- Access to latest thermostat technologies including Wi-Fi connectivity

A technician will remove the current access panel and remove the existing chassis, motor/blower and controls.

A technician will install the Unilux Retrofit RHP components into the cavity, make water and electrical connections and then install your access panel and start up your brand new Unilux RHP.
Model UVHP – Standard Features

Unilux vertical stack heat pumps are designed to meet industry-leading performance requirements and are ETL tested. The units are ETL listed for safety requirements UL 1995 / CSA22.2 #236 – Issue 2011 / UL 60335-2-40 2nd Edition.

1. Fan assembly:
A thermally-protected, multi-speed ECM motor is resiliently mounted to a centrifugal fan which has a galvanized steel forward curved DWI wheel in a painted housing.

2. Refrigeration chassis:
A completely removable, floating-design chassis minimizes vibration and allows easy access for service. The chassis is complete with a rotary or scroll compressor enclosed in a sound dampening and isolated box, coax heat exchanger, TX valve, 4-way reversing valve, balancing valve, 2-way valve and motorized actuator, DX coil and R410a refrigerant piping.

3. Unilux microprocessor-based controller:
The proprietary Unilux micro-processor controls all operations, including a wall-mount touchscreen thermostat with Wi-Fi control capabilities. Control comfort settings from anywhere at anytime with the Universe app.

4. Water hoses:
Used to connect chassis to supply and return water pipes. Isolates compressor noise from the building’s pipe system.

5. Cabinet insulation:
Fiberglass or closed-cell 1/2-inch insulation.

Optional Equipment

1. Access panel:
20-gauge steel construction finished in a durable baked enamel powder coat. Includes a hinged door for easy filter change.

2. Grilles and registers:
Double deflection supply grilles and registers have adjustable vertical or horizontal louvers. Registers constructed with light-gauge steel complete with adjustable opposed blade dampers.

3. Filters:
Multiple filter options available.

4. Stainless steel drain pan and overflow sensor assembly:
Drain pan assembly is fully TIG welded to ensure the pan never rusts or leaks. The pan includes an overflow sensor to detect rising water levels and turns off the unit to prevent flooding.