

# Vertical Stack DX Hybrid Fan Coil

Model UVDX: Sizes 02-12 / 0.5-3 Tons



Leading Manufacturer of High-Rise Residential HVAC Equipment



APARTMENTS | CONDOS | ASSISTED LIVING | HOTELS | RESORTS

# DX Series

## Designed for Efficiency and Performance

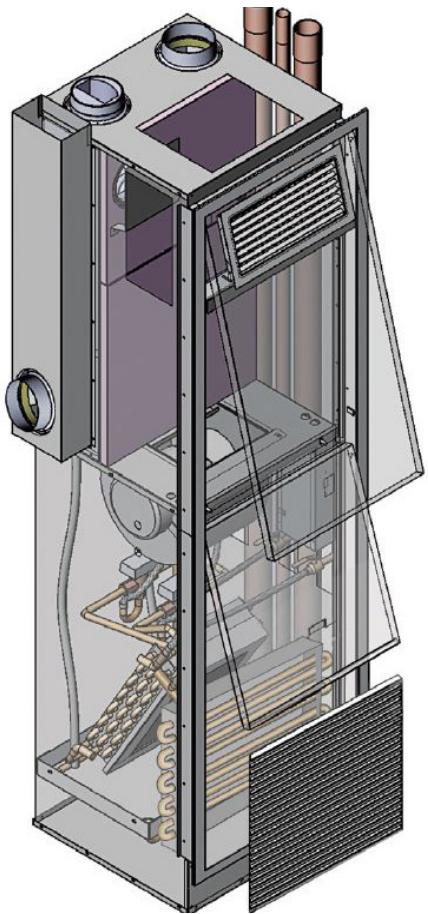
The hybrid DX split system vertical stack fan coil that offers high efficiency heating and cooling year-round. Heat is provided to the suite through a building-wide hot water system, providing heat using the highly-efficient and reliable hydronic solution. Cooling is provided through an eco-friendly DX cooling coil mounted in the vertical stack fan coil and paired with an external condensing unit located outside of the suite.

## DX Hybrid Benefits

- Highly-efficient and reliable hydronic heating
- On-demand heating and cooling
- Compressor located outside of suite, providing a quiet environment
- Reliable products, low maintenance, inexpensive to service and maintain
- Eliminate need for building-wide cold water system and chillers
- Resident has complete control of cooling and cost management

## ERV Upgrade

Unilux HVAC has developed a patented energy recovery ventilation system (ERV) that can be integrated with our full line of vertical stack heat pumps. Our integrated ERV solutions include multiple dampers and temperature sensors to ensure cores do not freeze when outside temperatures drop below freezing, without the need for an electric heater.



# Standard Features

## 1. Cabinet

Manufactured with satin-finished steel, the cabinet offers supply openings on the front, back, left, right or top. 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. Hydronic Hot Water Coil Assembly

Coils are corrugated aluminum fins mechanically bonded to ½" OD copper tube. The number of rows and circuiting are selected to suit scheduled capacities. Coils are rated for a maximum working pressure of 300 psig.

## 3. Evaporator Coil

High-efficiency fin design with down flow drip shield molded into the drain pan. Coils are air pressure tested to 600 psi, and come sealed with rubber plugs and charged with nitrogen. Copper refrigerant connections for easy braising, copper tubing. Cooling up to 3 tons.

## 4. Fan and Motor Assembly

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

## 5. Stainless Steel Drain Pan and Overflow Sensor

Stainless-steel drain pan with neoprene insulation. A pre-formed rubber drain hose will connect the drain pan with the condensate riser to form P-trap and will be easily accessible for cleaning. The pan includes an overflow sensor to detect rising water levels and turn off the unit to prevent flooding.

## 6. Risers

Supply and return risers are type 'L' copper and condensate risers are type 'dwv'. All have 75mm (3") deep expanded ends to facilitate field installation. Condensate risers are insulated with 1" fibreglass covered with a vapour barrier jacket, which complies with ASTM 84 for flame-spread and smoke-developed ratings. The insulation is continuous over the riser length within the height of the cabinet.

## 7. Control Valve Package

Provide a standard factory assembled 2-way control valve with motorized electrical "ON/OFF" controlling. Provide 3-way motorized valves on top and bottom of each riser to allow for continuous flow through riser system. Maximum entering water temperature on the control valve shall be 200°F, and maximum operating pressure shall be 300 psig.

## 8. Access Panel

Steel construction with a durable baked-enamel powder coat finish, featuring a hinged door for easy filter exchange.

## 9. Supply Air Grilles & Registers

Double-deflection supply air grilles have adjustable vertical and horizontal louvers. They are constructed with light-gauge, powder-coated metal.

## 10. Filter

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

## 11. Air-to-Air AC Unit

Compact external air-to-air air-conditioning unit to be supplied by others.



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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