

Vertical Stack DX Hybrid Fan Coil

Model DX: Sizes 04-10 / 0.75-3.0 Tons



Leading Manufacturer of High-Rise Residential HVAC Equipment



APARTMENTS | CONDOS | ASSISTED LIVING | HOTELS | RESORTS

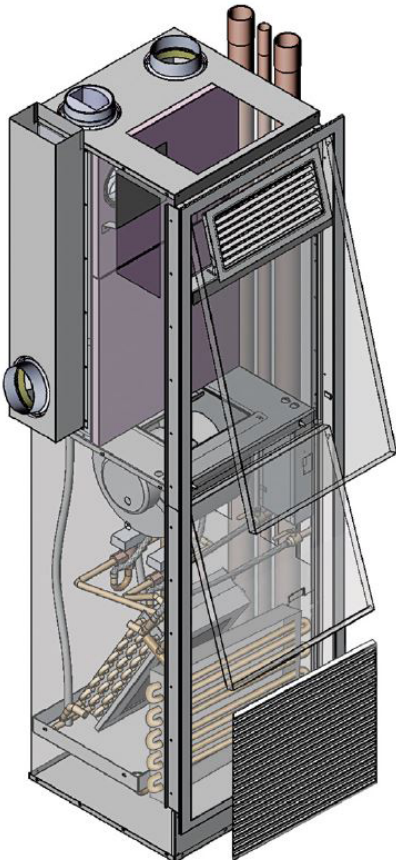
Introducing the DX Series

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 much quieter 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



Standard Features

Cabinet

20-gauge satin coat steel. Cabinet is fully insulated with ½" fiberglass bonded with a thermosetting resin and coated on the air stream side with an acrylic facing, without the use of flammable adhesives. Insulation inside the unit: Flame spread rating no more than 25; Smoke developed rating no more than 50. The cabinet's footprint is 21"x21".

Water Coil Assembly

The coil's corrugated aluminum fins mechanically bonded to 1/2" OD Copper tube. The number of rows and circuiting are selected to suit scheduled capacities. Coils have a minimum working pressure of 300 psig (tested to 450 psig) and can handle heating up to 50,000 BTUH.

Fan Assembly

A thermally protected ECM motor is resiliently mounted to a centrifugal fan which has a galvanized steel forward curved DWDI wheel. Available CFM: 450, 600, 800, 1000.

Hot Water Piping Branches

Supply and return risers are type 'L' copper and condensate risers are type 'DWV' copper. All have 75 mm (3") deep expanded ends to facilitate field installation. Supply & Return risers are insulated with 1" fiberglass covered with 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.

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.

Evaporator Coil

Coil to be r-410a AC compatible, 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 2.5 tons.

Access Panel

Access panel assembly is constructed of 20 gauge steel complete with a durable baked enamel powder finish, with integral grille for the return air opening. The panel is hinged removable to allow for easy filter exchange. The integral core grille has fixed horizontal louvers.

Grilles & 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.

Filters

MERV 8-13 filters available.

Air-to-Air AC Unit

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

Optional Features

Cabinet

- A 2", 4" or 6" raised base.

Coil and Piping assembly

- Alternative control valve: 3-way control valve in lieu of 2-way control valve.
- Automatic balancing valve installed inside the fan coil.
- BTU thermal meter and thermal sensors installed inside the fan coil.
- Pressure independent control valve.
- Flood Protection valve assembly.

Electrical & Fan assembly

- Alternative fan: ECM constant volume fan.
- Rating of motors: can be 115v or 208v

Risers

- Type "M" copper for drain risers.
- Drain risers insulated.
- Riser pipe insulation thickness can be from 1" to 1 ½".
- Alternative riser insulation material: closed-cell material.

Supply & Return air grilles, access panels, and filters

- Aluminum supply air grilles, return air grilles and access panel.
- Alternative filters: 1" pleated MERV-8 filter, 1" pleated MERV-11 filter, or 1" pleated MERV-13 filter.
- Supply air grilles integrated with manual-adjustable balancing damper.

Unilux HVAC Thermostat with Wi-Fi Connectivity

Wi-Fi connectivity enables access to Unilux HVAC thermostat app for total HVAC control anytime at home or on the go through a mobile device.



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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