



Unilux High Capacity Horizontal Fan coils

Full featured fan coils for concealed application.

Product Specifications and Technical Data



Product Description

The ideal in-suite HVAC solution for high-rise construction, Unilux VFC delivers top performance in a compact, flexible and easy-to-install product that fits into an 18-inch-high space. Easily concealed in a drop ceiling or boxed in drywall location, the horizontal fan coil has been engineered for apartments, condos, seniors living establishments and hotels. The Unilux HFC produces up to 2000 cfm.

- Optional airflow configurations (front supply, bottom supply, rear return or bottom return) to meet multiple design applications.
- Outside air connections are available.

Approvals

Meets standard c22.2, no113 and ul1812.

Key Features

- PSC or ECM motors available
- 600 to 2000 cfm
- Complete with wifi-enabled controller
- Variety of valve packages available

Cabinet

Galvanized steel construction, lined with 1/2" closed-cell insulation. Cabinet dimensions – see table.

Mounting

Horizontal mounting, suspended above ceiling or mounted with access panel. Ceiling mounting kits available.

Blowers

Blowers are single inlet centrifugal impeller types with forward curved blades.

Motors

Unilux has designs for either Permanent Split Capacitor (PSC) motors or Electronically Commutated Modulation (ECM) motors. These motors are IP-44, shielded bearing, high efficiency types with internal thermal overload protection. Motors meet CSA and UL certification.

Electrical Requirements

115 vac, 60 hz, 155 watts

Wall Thermostat

- Large, clear digital display with a blue backlight
- Display shows:
 - Current temperature
 - Current humidity
 - Set temperature
 - Current date and time
 - Battery status
 - Fan mode (Auto, Low, Med, Hi, Off)
 - Operation mode (Heat, Cool, Vacation, Off)
 - Program: 1, 2, 3, 4
- Wired to unit controller for manual inputs
- Battery back-up

Warranty

Limited 2 year warranty.

Configuration

Available in 2-pipe manual changeover series with auxiliary electric heater or 4-pipe.





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Plenum



Dimensions

Nominal CFM	Width	Depth	Height
600	30.375"	32.25"	17.5"
800	30.375"	32.25"	17.5"
1000	40.375"	34.5"	17.5"
1200	40.375"	34.5"	17.5"
1400	50.375"	32.25"	17.5"
1600	50.375"	32.25"	17.5"
1800	60.375"	34.5"	17.5"
2000	60.375"	34.5"	17.5"

Capacity

Nominal CFM	Cooling				Heating			
	HLE Series – 2-pipe changeover		HSC Series – 4 pipe		HLE Series – 2-pipe changeover		HSC Series – 4 pipe	
	Rows	Total Capacity Range MBH	Rows	Total Capacity Range MBH	Rows	Heating Capacity Range MBH	Rows	Heating Capacity Range MBH
600	3	12.6 – 18.5	3	12.6 – 18.5	3	37.7 – 41.7	3	33.8 – 37.8
800	3	16.9 – 24.0	3	16.9 – 24.0	3	47.5 – 52.9	3	40.7 – 46.0
1000	3	26.9 – 31.0	3	26.9 – 31.0	3	63.7 – 69.7	3	56.9 – 63.0
1200	3	30.2 – 36.4	3	30.2 – 36.4	3	73.8 – 81.1	3	63.5 – 69.5
1400	4	40.3 – 44.7	4	40.3 – 44.7	4	94.9 – 100.1	4	78.6 – 83.4
1600	4	41.9 – 48.3	4	41.9 – 48.3	4	100.2 – 111.2	4	82.8 – 88.5
1800	4	48.5 – 56.6	4	48.5 – 56.6	4	110.8 – 124.5	4	94.5 – 101.8
2000	4	50.2 – 60.7	4	50.2 – 60.7	4	117.0 – 133.2	4	99.6 – 108.0

Note: All figures above are based on the following entering temperatures.

- **Cooling:** Entering water temperature (EWT) = 45°F, entering air temperature (EAT) = 80°F dry bulb / 67°F wet bulb
- **Heating:** EWT = 160°F, EAT = 70°F

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