

## Ventilation device

## Zehnder Focus 200

### Use

The Zehnder Focus (F) 200 comfort ventilation unit was specially developed for use in demanding residential and commercial buildings. It combines maximum comfort, simple operation and high efficiency with flexible integration in building services. The Zehnder Focus (F) 200 ventilation unit moves up to 118 cfm of air at an external pressure of 0.80 "wc.

### Efficiency

The integrated counterflow-duct heat exchanger achieves efficiencies of up to 93%. For user comfort this means: no unpleasant draft effects because the supply air is heated almost to room temperature even at temperatures around freezing.

### Fans

Supply/extract fans are maintenance-free 230 VAC radial fans with integrated power supply and electronic switching. The fans run at a constant volume flow to keep the air volume constant at any selected fan speed. The air volume is not affected even if the filters become soiled. Supply air and extract air settings can be made separately for each fan level in increments of 1% from 35 to 118 cfm.

### Filters

The Zehnder Focus (F) 200 ventilation unit is fitted with class G4 filters (MERV 7/8) as standard for outside air and extract air. An optional F7 pollen filter (MERV 13) is available for outside air.

### Installation

The Zehnder Focus (F) 200 ventilation unit is characterised by its compact design. All air connections are located on the top of the unit. The unit can either be mounted on a wall or installed standing vertically on a mounting frame. As the design of the unit means that it can be supplied in a left-hand or right-hand version, installation is flexible and air ducts can be routed exactly where they are needed.

### Control and operation

The ventilation unit is controlled and operated using the control unit, which is usually installed in the main living area of the home. The high-quality TFT touch panel with colour display and intuitive user guidance provides the means for control and operation via a touch screen and optimises communication with the ventilation unit.

### Maintenance

To maintain the Zehnder Focus (F) 200, users simply have to change the integrated filters in the front of the unit regularly (every 6 months) and visually inspect the heat exchanger. The heat exchanger should be cleaned at least every 2 years (more often if it gets very dirty). This can be done by simply removing the heat exchanger from the device and cleaning it with soapy water. Please see the unit manual for additional servicing tasks.



Zehnder Focus 200

### Frost protection

The unit must be installed in a frost-free location. The Zehnder Focus (F) 200 is equipped with automatic protection against freezing. This prevents the heat exchanger from freezing should the outside air temperature drop to a very low level. If the outside air temperature or the supply air temperature at the unit drops below the threshold value, the fans will shut down temporarily. A suitable means of frost protection specifically for the unit can be connected upstream to heat the outside air (during winter).

### Options

- **Humidity recovery**

Unit versions with a humidity heat exchanger are available as alternative options to the standard heat exchanger. The optional enthalpy exchanger (Zehnder Focus F 200) is fitted with an anti-microbial polymer membrane which is capable of recovering both heat and significant humidity. There is no risk of odours, germs or other particles being transferred during the physical process of humidity recovery.

- **Pollen filter**

A large pollen filter installed in the supply air line keeps the inside of the house pollen-free and reduces the particulate, spore and germ load: breathe freely in times of increasing allergies.

Ventilation unit

**Zehnder Focus 200**

**Benefits**

- Comfort ventilation up to 118 cfm
- Heat recovery with an efficiency of up to 93%
- Humidity recovery with enthalpy exchanger (optional)
- Low power consumption thanks to the high energy efficiency of the ventilation unit (0.53 Wh /cfm)
- Low noise level (26 dB(A) 10 ft. distance to the unit)
- Frost protection controller (including protection against the downstream hot water heating element icing over)
- Quick, safe installation and maintenance
- Easy operation with intuitive colour TFT touch panel
- Filter replacement indicator
- Preheater and postheater integration possible
- Small minimum air volume, designed specifically for residential buildings
- Set up for operation in conjunction with heat-producing appliances
- Automatic controller for external air quality sensors

**Article numbers**

L = supply air left, R = supply air right, V = preheater  
Luxe = advanced control

Description	Article number	Reference number
Focus 200 L	527 002 060	93 51
Focus 200 L Enthalpy	527 002 080	93 76

**Tender text**

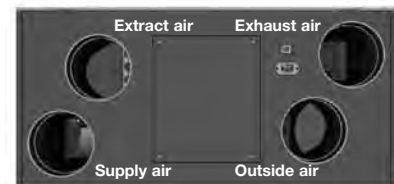
**Zehnder Focus (F) 200 comfort ventilation unit**

with plastic counterflow-duct heat exchanger with thermal efficiency of up to 93%, optional: counterflow humidity heat exchanger with selective polymer membrane film, supply and extract fans with separate variable control in 1% increments, EC fans with constant volume flow control, maximum air volume up to 118 cfm at 0.80 "wc, H x W x D: 21.3 x 29.6 x 14.0 inch, left-hand/ right-hand design. Unit with universal controller for automatic timers or sensors, function to monitor filter running time, frost protection control, communication unit to control preheater and postheater, geothermal heat exchanger flap.

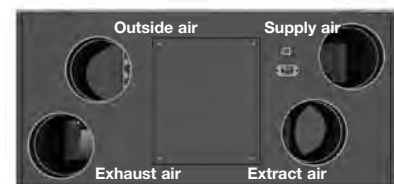
**Air directions**

The figures on the right show air directions when looking from above.

- A = extract air
- B = supply air
- C = exhaust air
- D = outside air



Left-hand unit version



Right-hand unit version

always  
around you

**zehnder**®

## Ventilation unit

## Zehnder Focus 200

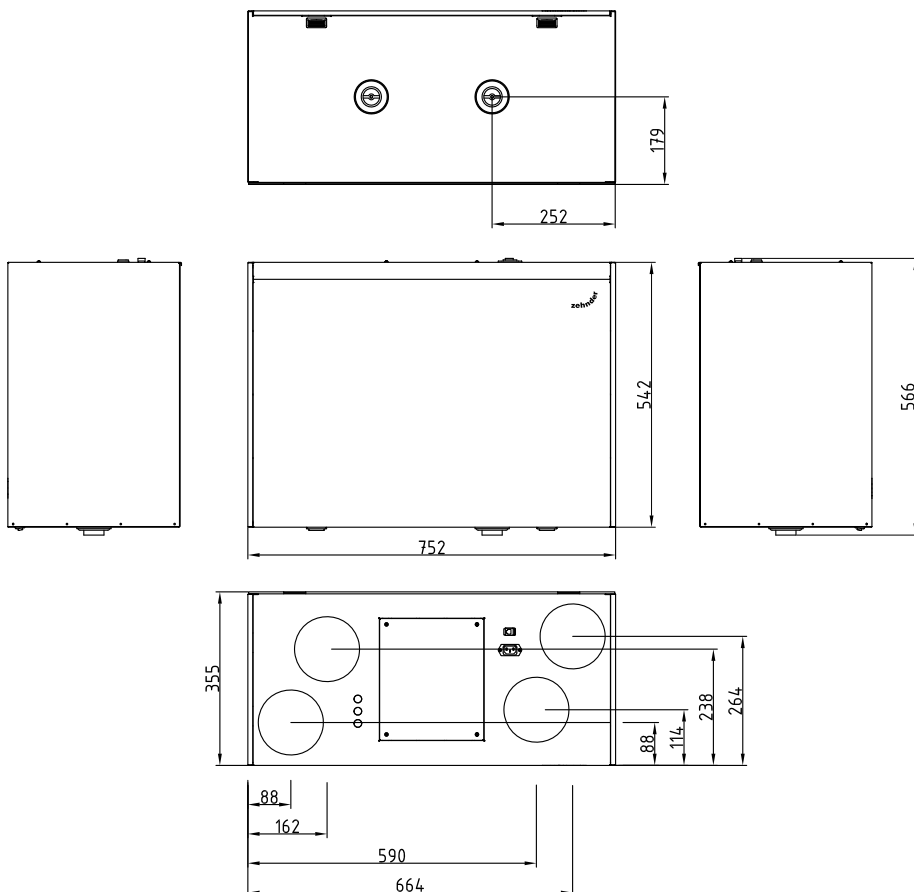
### Technical specifications

Dimensions	
Height (inch)	21.3
Width (inch)	29.6
Depth (inch)	14.0

### Specification

Heat exchanger material	- Plastic (counterflow-duct heat exchanger) - Polymer (humidity heat exchanger)
Interior lining material	Expanded polypropylene (EPP)
Heat output	up to 93%
Weight	55.1 lb

### Dimensional drawing



Ventilation unit

**Zehnder Focus 200**

**Certificates**

- Passivhaus (passive house)

**Equipment**

Equipment	Focus 200	Focus F 200
Enthalpy exchanger		x
Left-hand/right-hand design	x	x
DN 125 connector	x	x
Ready to plug in design	x	x
TFT touch panel control unit	x	x

**Control**

Fan levels: STANDBY, ABSENT, LEVEL 1, LEVEL 2, LEVEL 3

Fan levels can be programmed separately for supply air and extract air for each fan level in 1% increments (35 - 118 cfm)

Weekly timer programme can be customised

Automatic sensors (CO<sub>2</sub>, humidity, air quality) optional with external sensor

Digital ON/OFF interface (e.g. external contact for OFF)

Option to connect intermittent ventilation sensor

Filter running time monitoring

Frost protection controller (including protection against the downstream hot water heating element icing over)

Unit set up for operation in conjunction with a heat-producing appliance

Error messages

Running time monitoring (separate for fans/unit)

Power consumption in standby < 1 W

**Options (with add-on module)**

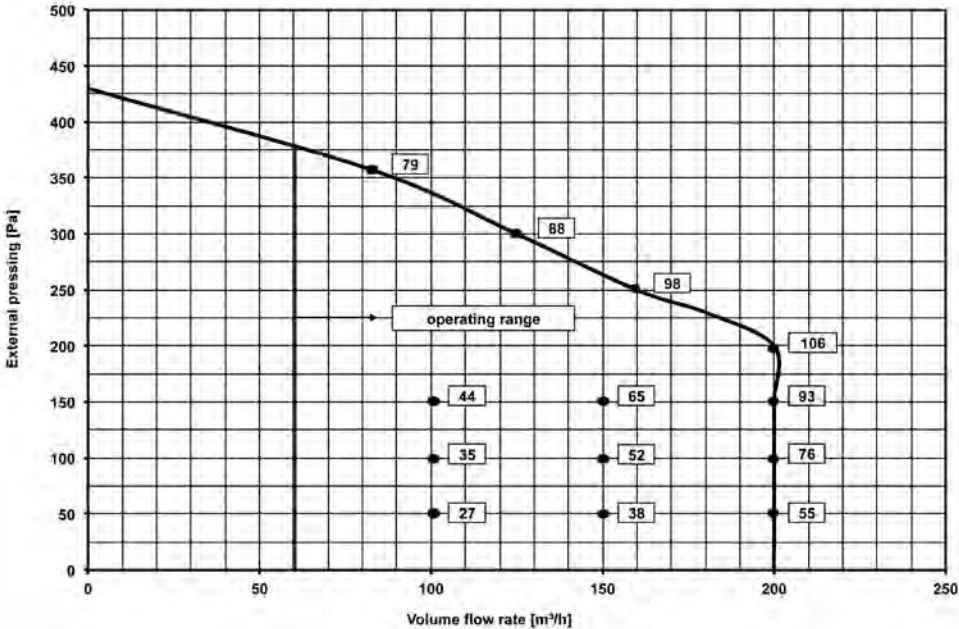
- Triggering of an external defroster heater
- Triggering of a heating circuit or air reheating register
- Triggering of an electric actuating valve on the geothermal heat exchanger

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## Ventilation unit

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### Technical specifications

#### Sound, supply air

Sound power at the supply air connection at a distance of 0 ft.

Ventilation unit	Volume flow							
Type	cfm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Focus 200	91	65	62	59	63	54	51	46
Focus 200	118	66	63	59	64	55	52	47

#### Sound, extract air

Sound power at the extract air connection at a distance of 0 ft.

Ventilation unit	Volume flow							
Type	cfm	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Focus 200	27	49	44	46	32	23	16	46
Focus 200	28	51	45	48	34	26	18	47