

Use

The Zehnder ComfoAir 200 comfort ventilation unit was developed for use in residential settings with high ventilation demand. It combines maximum comfort, simple operation and high efficiency with flexible integration in building services. The ComfoAir 200 ventilation unit moves 200 m³/h of air at an external pressure of 200 Pa.

Efficiency

The integrated cross-counterflow heat exchanger achieves efficiencies of up to 95%. For user comfort this means no unpleasant draft effects, because the supply air is heated almost to room temperature even when external temperatures are around freezing.

Fans

The two supply and extract fans are driven by efficient DC motors. Differential pressures in the supply and extract air distribution systems can be compensated thanks to direct control. The especially quiet fans can be adjusted to the required volumetric flow in 1% increments. The air volumes of the selectable stages can be set to between 50 m³/h and 200 m³/h on the Zehnder ComfoAir 200.

Filters

The ComfoAir 200 ventilation unit is equipped with a class G4 filter. An optional F7 pollen filter is available for outside air.

Installation

The Zehnder ComfoAir 200 ventilation unit is characterised by its compact design. The supply and extract air connections are located on the top of the unit, those for the outside and exhaust air are on the bottom. The ventilation unit is suitable for ceiling and wall installation.



Operation

The ventilation unit is controlled using the CC-Ease control unit usually employed in living areas. The optional wireless remote control unit RF is available for the CC-Ease control unit.

Servicing

All necessary servicing is simple to perform on the Zehnder ComfoAir 200 ventilation unit. Filter replacement requires no tools thanks to the filter covers integrated in the front of the unit. The heat exchanger can also be easily removed from the unit for cleaning after opening the front. Please see the unit operating instructions for additional notes on servicing tasks.

Frost protection

If the ventilation unit is operated without preheating, the condensate in the extract air may freeze. The frost protection setting prevents this by variably reducing the supply air volume. In order to ensure reliable operation even at extreme outside temperatures, an optional integrated, electrical preheater register is available.

Bypass

During summer nights and in the transition periods with strong sunshine, living areas often become too warm, while the outside air remains pleasantly cool. In this case heat removal by what is known as *free cooling* helps: The cooler outside air is fed to the rooms in the living area, bypassing the heat exchanger. The Zehnder ComfoAir 200 ventilation unit is equipped with an automatic bypass for just this purpose. The bypass is a standard component and takes 100% of the extract air past the heat exchanger. The personal comfort temperature is adjustable.

Options

- **Wireless remote control**

More installation freedom. With the Zehnder wireless remote control the ventilation unit can be wirelessly controlled from several switching points distributed throughout the house or flat.

- **Chimney sweep control**

The ventilation system can be installed in a home with an open flue fireplace. This must be registered in the control unit. This prevents a controller-related negative pressure. In a frost protection situation both fans are stopped. Pure supply or extract air mode is not possible and the intact fan is also switched off if a fault occurs. Whether these measures suffice or additional safety groups are required is controlled by the chimney sweep control.



CC Ease



RFZ

Technical specifications

Unit dimensions	
Max. air volume	200 m ³ /h
Min. air volume	50 m ³ /h
Height	1200 mm
Width	543 mm
Depth	317 mm

Benefits

- Comfort ventilation up to 200 m³/h
- Heat recovery with an efficiency of up to 95%
- Low power consumption thanks to EC direct current motors
- Automatic 100% summer bypass
- Infinitely variable frost protection function: efficient even at low temperatures
- Quick, safe installation and servicing
- Simple operation
- Integrated preheater (optional)
- Controls can be expanded by wireless remote control
- Digital control unit: CC-Ease
- CO₂ control (optional)
- With weekly timer as standard
- Chimney sweep control

Article numbers

L = supply air left, R = supply air right
 V = integrated electric preheater register

Product	Article number
ComfoAir 200 L Luxe	471 222 010
ComfoAir 200 R Luxe	471 222 015
ComfoAir 200 VL Luxe	471 222 110
ComfoAir 200 VL Luxe	471 222 115

Accessories	
ComfoControl Ease control unit	655 010 100
Housing for on-wall mounting for CC-Ease control unit	659 000 250
Wireless remote control	655 000 755

Filters	
Filter set for ComfoAir 200 G4 (2 pieces)	400 100 014
Filter set for ComfoAir 200 G4/F7 (2 pieces)	400 100 013

Function

- Frost protection function/automatic defrost
- Supply and extract air separate and infinitely variably programmable
- Switch on and off delay for bathroom switch
- Adjustable comfort temperature
- Filter replacement indicator
- Supply and extract air can be switched off separately

Description**Comfort ventilation unit ComfoAir 200 Luxe**

The Zehnder ComfoAir 200 is a centralised, compact ventilation unit with heat recovery and integrated summer bypass. This ventilation unit is eminently suited to new buildings as well as in renovation projects. The ComfoAir 200 can be installed as a wall-hanging unit or horizontally below the ceiling. It is connected by 4 DN 125/150/160 pipe connections on the top and bottom of the unit. The housing, made of galvanised or painted sheet steel, is acoustically and thermally insulated. EC direct current fans guarantee power-saving operation and provide high electrical efficiency. Supply and exhaust fans can be controlled separately and can be precisely adjusted to the balance air volume to within one percent. The core of the ComfoAir 200 is the plastic cross-counterflow heat exchanger with up to 95% heat recovery. It is controlled by the cabled ComfoControl Ease control unit, which is connected to the ventilation unit by the on site cable (YSTY 2 x 2 x 0.6). All operating statuses and error messages can be read from the control unit display. The ComfoAir 200 is delivered with a safety plug (schuko plug) to connect to the mains. The filters are replaced easily from the front by the user without opening the unit.

Options:

- Integrated electrical preheater (CA 200 VL and CA 200 VR)
- Remote control via wireless remote control (3 stages and intermittent ventilation)
- Class F7 pollen filter available

Controller features:

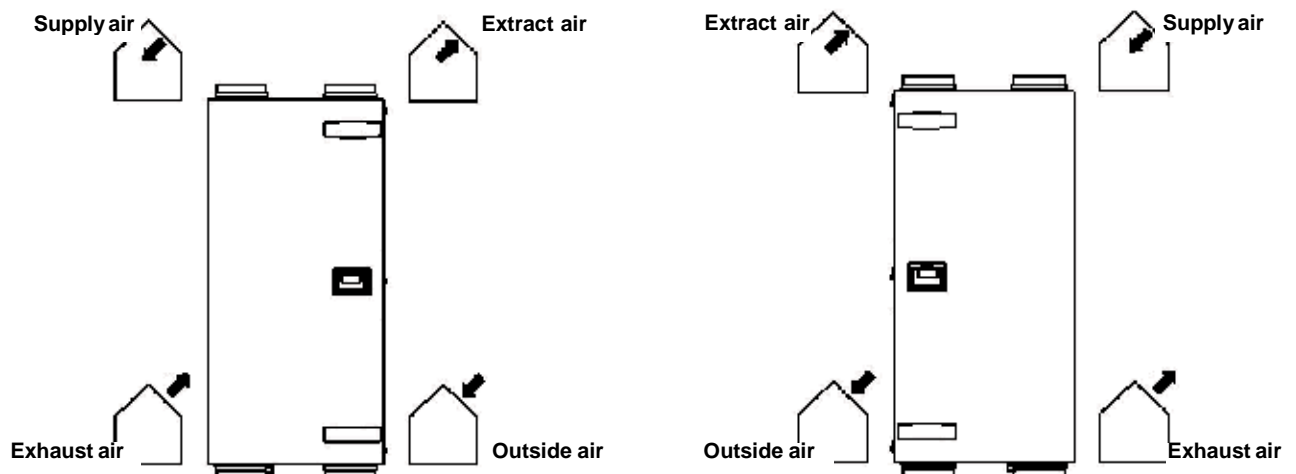
- Automatic frost protection controller
- Timer-controlled filter servicing display
- With automatic and temperature-controlled 100% summer bypass
- Fault history including the last three error messages
- Supply and extract fans can be activated separately.
- Connection option for external intermittent ventilation switch
- Comfort temperature controller
- Chimney sweep control
- Weekly timer programmes

Descriptions

Technical specifications

Heat exchanger:	Plastic
Fans:	EC direct current radial fans
Filters:	Extract air: G4 Outside air: G4 (optional F7 pollen filter)
Condensate connection:	20 mm
Air duct connections:	2x top, 2x bottom DN 125 / 150 / 160
Electrical connection:	230 V, 50 Hz
Temperature range:	7 °C to 40 °C
Acoustic performance (min./max.):	Extract air 30 dB(A)/57 dB(A) Supply air 36 dB(A)/73 dB(A)
Heat recovery:	Up to 95%
Volumetric flow:	Maximum 255 m ³ /h at 125 Pa external Minimum 50 m ³ /h at 5 Pa external
Power consumption:	Maximum 143 Watt Minimum 9 Watt
Dimensions:	Height: 1106 mm (with connections: 1200 mm) Width: 544 mm Depth 323.5 mm
Weight:	30 kg
Versions:	ComfoAir 200 L Luxe 471 222 010 ComfoAir 200 R Luxe 471 222 015 ComfoAir 200 VL Luxe 471 222 110 ComfoAir 200 VR Luxe 471 222 115
Manufacturer:	Zehnder GmbH Almweg 34 77933 Lahr +49 (0) 7821/586-0

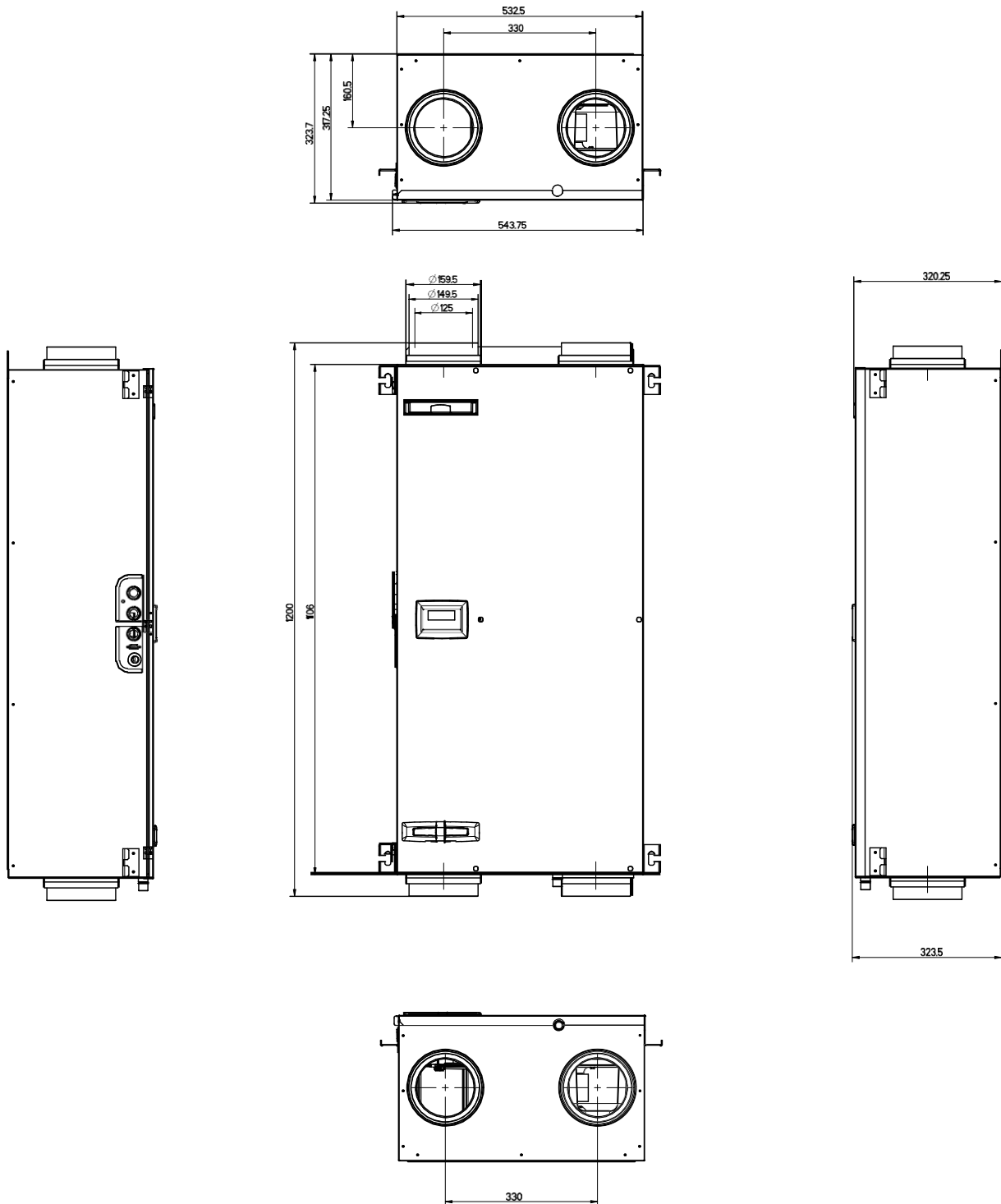
Air direction



Ventilation unit

Zehnder ComfoAir 200

Dimensions

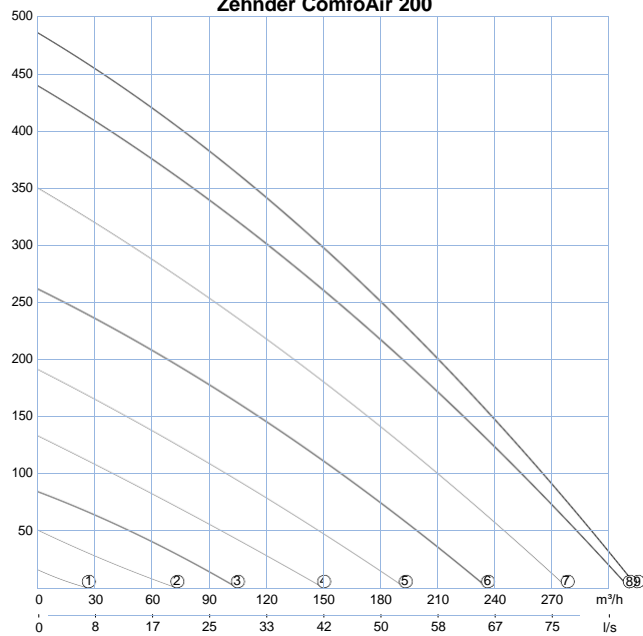


Stage	Setting	Capacity	Pressure	Power consumption	Current consumption	COS φ (-)	Installed noise level		Weight kg
	Percent	Qv	ΔP_{st}				Extract air	Supply air	
	%	m ³ /h	Pa	W	A		dB(A)	dB(A)	

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(1)	15%	20	3	9	0.08	0.48	30	36	30
(2)	30%	60	7	14	0.11	0.54	35	46	
(3) Low	40%	90	15	20	0.16	0.55	37	53	
(4)	50%	120	30	30	0.25	0.52	43	59	
(5)	60%	155	45	46	0.37	0.55	47	63	
(6) Medium	70%	185	70	68	0.55	0.54	51	66	
(7)	80%	215	100	98	0.77	0.55	54	69	
(8) High	90%	245	120	128	0.99	0.56	56	72	
(9) Maximum	100%	255	125	143	1.1	0.57	57	73	

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Sound, supply air

Ventilation unit Type	Speed	Acoustic performance at the supply air connection at a distance of 0 m						
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
ComfoAir 200	1	41.1	39.6	35.2	30	20.8	12.9	8.7
ComfoAir 200	2	50.3	48.8	44.4	39.2	30	22.1	17.9
ComfoAir 200	3	56	54.8	50.7	48.3	39.4	33.7	24.6
ComfoAir 200	4	61.3	60.4	54.7	54.9	46.1	42.2	35.7
ComfoAir 200	5	66.5	65.4	58.1	58.6	51.8	48.1	43.5
ComfoAir 200	6	69.4	69.3	61.1	61.1	56.5	52.5	49
ComfoAir 200	7	73.2	72.2	63.8	63.4	60.9	56.4	53.6
ComfoAir 200	8	74.9	75.2	66.2	64.9	64	59.1	57
ComfoAir 200	9	75.9	75.9	67.5	65.7	64.8	60.1	58.1

Sound, extract air

Ventilation unit Type	Speed	Acoustic performance at the extract air connection at a distance of 0 m						
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
ComfoAir 200	1	43.4	35.2	18.4	12.8	3.2	7.3	14.9
ComfoAir 200	2	47.6	39.4	22.6	17	7.4	11.5	19.1
ComfoAir 200	3	47.5	43.6	28.2	24.7	11.5	11.5	19
ComfoAir 200	4	52	50.1	33.1	31.2	17.4	12.4	18.7
ComfoAir 200	5	57	53.4	39.9	34.4	22.8	14.5	18.8
ComfoAir 200	6	60.1	58	40.6	37	27.3	18.4	19.2
ComfoAir 200	7	63.1	60.8	41.7	38.5	30.5	22.2	19.6
ComfoAir 200	8	65.1	62.8	44.9	40.4	33.3	25.9	20.3
ComfoAir 200	9	65.2	63.9	46.3	41.3	34.3	27.3	21

Sound, unit emission

Ventilation unit Type	Speed	Acoustic performance at the extract air connection at a distance of 0 m					
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	db(A)
ComfoAir 200	2	28.5	35.2	23.1	14.5	10.5	23.9
ComfoAir 200	3	34.6	39.4	27.3	19.8	11.8	29.1
ComfoAir 200	4	40.3	43.6	32.4	24.9	18.9	34.6
ComfoAir 200	5	45.3	50.1	35.6	28.7	24.5	39
ComfoAir 200	6	46.8	53.4	43.5	31.9	28.5	43.3
ComfoAir 200	7	49.7	58	41.4	34.1	31.9	44.3
ComfoAir 200	8	52.3	60.8	43.6	36	34.6	46.7
ComfoAir 200	9	53.8	62.8	44.7	36.7	35.5	47.9



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