

Heat recovery unit

ComfoAir 200

Important features

- High thermal efficiency of 95%
- 100% bypass fitted as standard
- Air capacity 200m³/h -200Pa
- Wall and ceiling assembly
- Flexible filter settings
- In-built frost protection system in software as standard
- Electric pre-heater as optional extra
- Control possible with ComfoControl Ease
- Available in radiographic version: ComfoAir 200 RF
- Available with switch including filter and malfunction alert

General

The heat recovery unit, type ComfoAir 200, is intended for application in residential 'Balanced ventilation systems'. These systems extract the stale air from kitchens, bathrooms, toilets and other rooms where necessary. Fresh outdoor air is supplied to living areas, such as living rooms and bedrooms. Heat transfer takes place between the extracted air and the supplied air. The ComfoAir 200 RF type is available for cordless control of the unit.

Casing

The casing is coated plate in the colour RAL 7037. The interior and the duct connections are from high-quality expanded polypropylene. The ComfoAir 200 is fitted with 4 air connections, each connection has a graduated fitting which facilitates connecting tube diameters of $\varnothing 125$ (internal), $\varnothing 150$ (external) or $\varnothing 160$ mm (external). An auxiliary fitting must be fitted for connecting a tube with a tube diameter of $\varnothing 125$; A synthetic condensation drain with a $\varnothing 22$ mm connection is fitted in the base of the device for discharging condensation that can accumulate in the unit and in the exhaust ducts. In order to prevent condensation, it is important to insulate the outdoor exhaust ducts and outdoor air ducts with damp-proof insulation.

Bypass

The ComfoAir 200 is fitted with a 100% bypass. This allows for the use of night air to ventilate the house in the summer, so-called free cooling. The bypass is automatically regulated according to the set comfort temperature.

Fans

The ComfoAir 200 has low-energy continuously variable DC motors with forward-curved blades. The DC motors offer a substantial energy saving relative to AC motors.

Filters

The ComfoAir 200 is fitted with G4 filters on the supply and discharge side. Both filters can be easily removed and changed by residents without tools. The ComfoAir 200 unit has a flexible dirty-filter alert. The resident can adjust the settings to generate an automatic notification between 10 and 26 weeks that the filters need changing. The fan's speed also influences the frequency with which the dirty-filter alert is activated. This alert is a signal to the resident to clean or replace the filters.



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Heat exchanger

The high-quality plastic counterflow exchanger has a thermal yield of 95%.

Frost protection system

The ComfoAir 200 software is fitted with a frost protection system as standard and an electric pre-heater as an optional extra. An automatic regulator activates a heating element when the outside temperature drops below the freezing point for some time. The cold outside air is then pre-heated before it enters the heat exchanger. This increases the temperature of the air to above 0° C preventing freezing.

Display

The ComfoAir 200 has a display with touch controls which allows for easy adjustment of the various settings (speed/capacity etc.) and easy reading of data. The ComfoAir 200 is also available without a display, control using the CC Ease. replaces the display; The user-friendly CC Ease, for use on the ComfoAir 200 Luxe, can be used to remotely adjust settings and read data.

Control

The 3 speeds can be variably set, from 15 to 100%. The 3-position switch SA 1-3V or the switch on the non-powered extractor hood or the ExSense hybrid chimney is used to switch the ComfoAir 200 between high, medium or low. A 3-position switch with a malfunction and filter indicator is also available (type SAI Flash). The radiographic control (RF type) allows for cordless operation of the unit.

Electrical connection

The ComfoAir 200 is fitted with a 2.3 metre cable with plug for connection to a single-phase 230V, 50Hz as standard.

Options

Radio control: ComfoAir 200 RF

The ComfoAir 200 is also available with radio control: type ComfoAir 200 RF. This design makes operation and installing even more straightforward. This cordless method of operating the unit with the RFZ prevents the installation of a separate electrical system in addition to the existing channels. This allows for the use of multiple RFZ switches. The RFZ is fitted with a filter- and malfunction alert with LEDs. These will illuminate as soon as the switch is operated.

Bathroom switch

By including a bathroom switch/pulse switch in the bathroom, the ComfoAir can be set to the 'high' setting for a specific period. The duration can be set on the display. The bathroom switch is connected to the ComfoAir via a 2-core low-voltage cable.



CC Ease



SA 1-3V



RFZ



SAI Flash

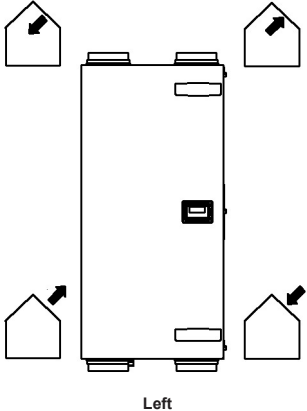
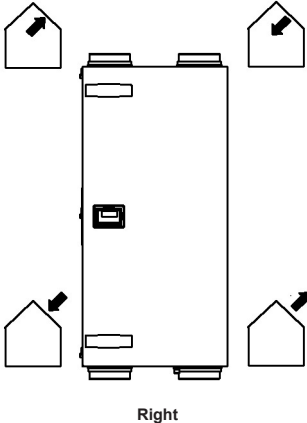
Heat recovery unit ComfoAir 200

Dimensions

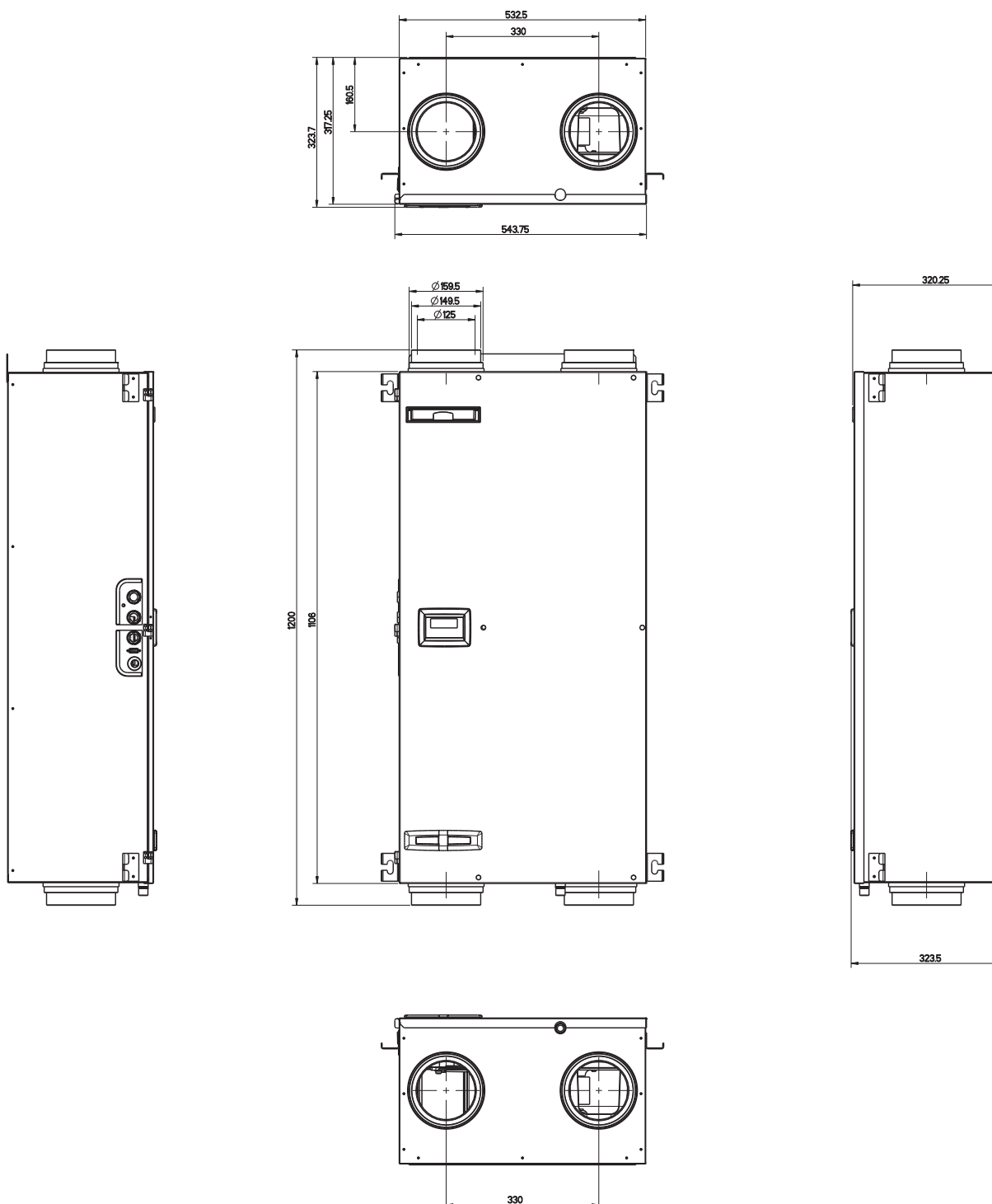
The figure on the following page gives the dimensions in mm.

Air system/connection

- L= Residential Connection Left
(condensation drain bottom left)
- R= Residential Connection Right
(condensation drain bottom right)



Dimensions



Dimension

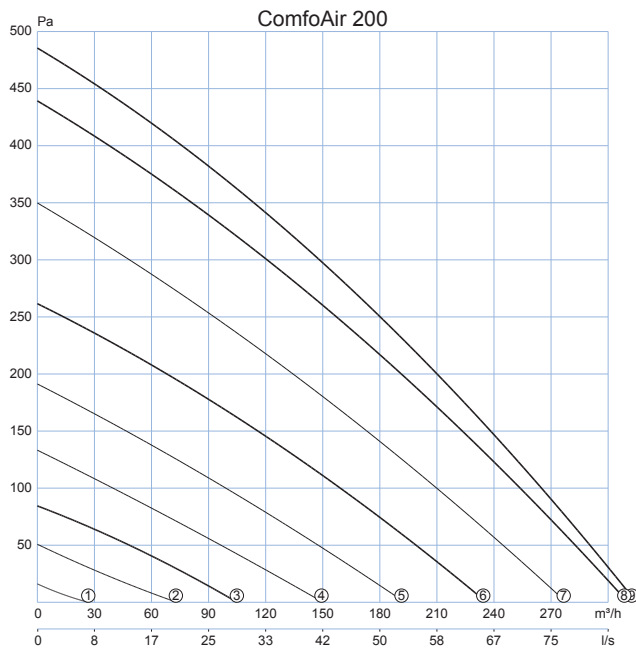
Height	1200mm
Width	543 mm
Depth	317 mm

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Setting	Settings Percentage	Capacity Qv m³/h	Pressure ΔP st Pa	Consumed power W	Consumed current A	cos φ (-)	Noise level		Weight kg
							Exhaust dB(A)	Supply dB(A)	
ComfoAir 200									
(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	



Sound

Machine model	Position	Sound volume dB ref. 10 ⁻¹² W						
		125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	8000Hz
ComfoAir 200	9	76	76	68	66	65	60	58
ComfoAir 200	8	75	75	66	65	64	59	57
ComfoAir 200	7	73	72	64	63	61	56	54
ComfoAir 200	6	69	69	61	61	57	53	49
ComfoAir 200	5	67	65	58	59	52	48	44
ComfoAir 200	4	61	60	55	55	46	42	36
ComfoAir 200	3	56	55	51	48	39	34	25
ComfoAir 200	2	50	49	44	39	30	22	18
ComfoAir 200	1	41	40	35	30	21	13	9