

Comfosystems
Вентиляционный блок
Zehnder ComfoAir 180

zehnder

always
around you

Heating

Cooling

Fresh Air

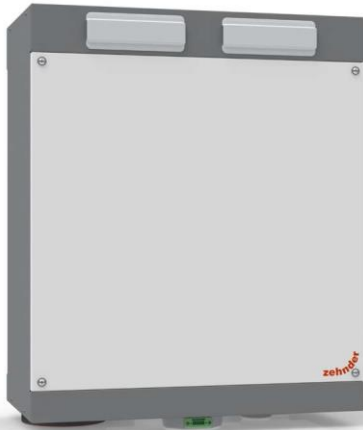
Clean Air



ComfoAir 180 Datasheet

Zehnder Comfosystems ComfoAir 180

zehnder



The **Zehnder ComfoAir 180** heat recovery ventilation system is an ultra compact unit which is highly suited to new build and renovation projects for flats or apartments.

The CA180 works around the clock to extract air from wet rooms (kitchens and bathrooms) and combines maximum comfort with simple operation and high efficiency. It extracts the heat energy which would otherwise have been lost during the extract process and transfers this to the fresh, filtered supply air which is drawn in from outside.

This is done using efficient counter-flow heat exchangers which can recover up to 95% of the heat that would otherwise have been exhausted into the atmosphere.

Unique benefits - why choose the ComfoAir 180?

Compact dimensions making CA180 ideal for installation in a kitchen or bathroom cupboard

The unit can be left or right handed
Designed for use with the unique ComfoPipe Plus Twin Duct system
Offers particular benefits for refurbishment projects

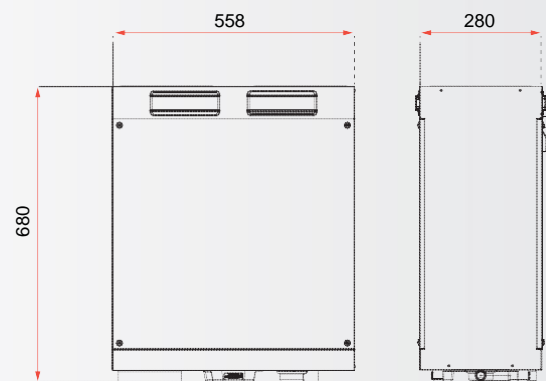
Features an additional supply air connection at the bottom of the unit for added installation flexibility



The ComfoAir 180 has been certified as an official Passive House component by the Passivhaus Institute

Physical specifications

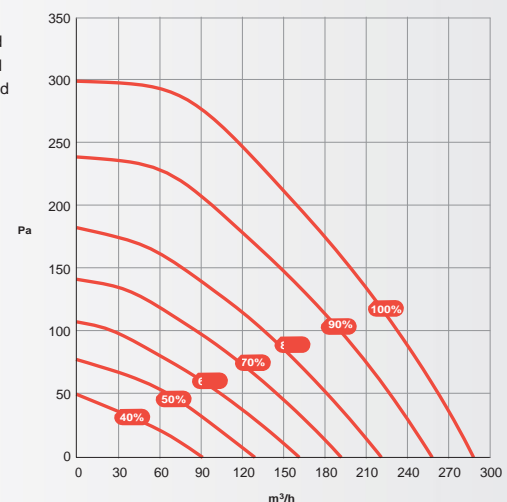
Weight: 27kg
Ducting:
 4 x 220 x 60mm spigots
 1 x Ø125mm optional supply air connector
Condensate connection:
 20mm
Materials:
 Internal body - EPP / PA
 Unit housing - Coated steel
Fans: EC
Filters:
 Standard - G4
 Optional for supply air - F7



Performance statistics

Model	Energy consumption in Watts				Unit sound level @ 0m in dB(A)			
	Low	Medium	High	Max	Low	Medium	High	Max
CA180	15	26	45	84	33	39	46	50

Low = airflow setting @ 40% motor speed
 Med = airflow setting @ 60% motor speed
 High = airflow setting @ 80% motor speed
 Max = airflow setting @ 100% motor speed





Intelligent ventilation control for customised year round comfort.

Power is nothing without control! Zehnder ComfoAir units can be simply and effectively controlled to ensure optimal performance around the clock.

These easy-to-use controls range from standard switches to fully integrated LCD displays featuring programmable timers and system status messages. The controllers can be linked with a variety of proprietary

sensors to enhance comfort and offer total flexibility. By combining Zehnder units with any of the range of Zehnder controllers you are ensuring that the system can be truly tailored to become an integral and autonomous part of the home.

The Zehnder CA180 is designed to integrate perfectly with the ComfoSense control unit.

ComfoSense is a control device specifically designed with the homeowner and installer in mind and can be used with all Zehnder ComfoAir Luxe and Luxe PH heat recovery ventilation units.

More information on the full range of Zehnder control units can be found online at www.greenwood.co.uk

Key features

- Designed specifically for flats and apartments up to 105m² (2010 Building Regulations)
- Comfort ventilation up to 180m³/h at 160 Pa
- Heat recovery efficiency of up to 95%
- Low energy consumption thanks to highly efficient EC motors
- Automatic 100% filtered summer bypass
- Controlled by the ComfoSense unit (supplied separately)

Installation

Wiring:	Must comply with IEE Regulations
Fuse:	3 Amp
Power supply:	230V ~ 50Hz Class II
Power consumption:	Minimum - 8W Maximum - 84W
Orientation:	Wall mounting

ComfoAir 180 product codes



ComfoAir 180	CA180
ComfoAir 180 Luxe	CA180LUXE
ComfoAir 180 Luxe PH With pre-heater - a Passive House certified component [2]	CA180LUXEPH

Control options and ancillaries

	ComfoSense CS67 control unit with mounting box [1]	CCS		ComfoPipe Plus Twin Duct [1]	Various
	Wireless control unit	CCRFZ		ComfoPipe 125 [1]	Various
	Enthalpy heat exchanger [1]	400 400 039		ComfoTube Flat 51 [1]	Various
	Filter set - G4	400 100 090		ComfoTube [1]	Various
	Filter set - G4/F7	400 100 091			

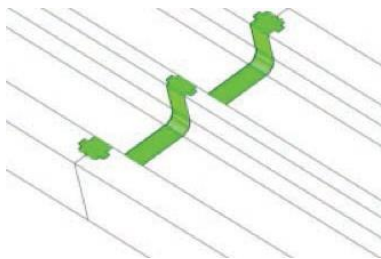
[1] - Detailed literature containing technical data is available on request
 [2] - A brochure detailing all of our Passive House components, and the specifically certified data, can be requested or downloaded from our website at www.greenwood.co.uk



Zehnder Comfosystems ComfoPipe Plus Twin Duct

Super insulated, low profile, modular air distribution system for the ComfoAir 180

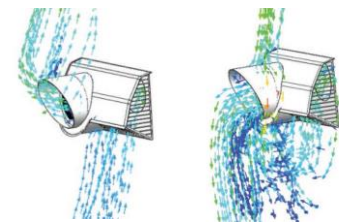
The Zehnder ComfoPipe Plus Twin Duct modular system provides the perfect solution for apartments and flats where space is at a premium. Its unique, clever, low profile design also makes it ideal for refurbishment projects where heat recovery has been identified as the best answer to ventilation issues in the home.



A combination of axial and radial sealing ensures a strong, air-tight connection



Combined external wall grille ⁶

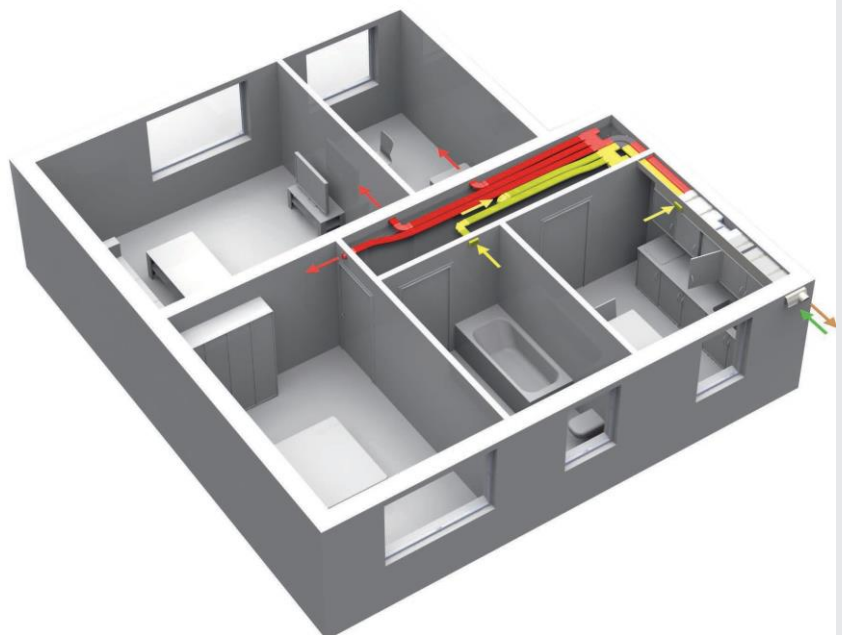


Extensive simulation testing of the innovative 2-in-1 external grille showed that, even at wind speeds of 5m/s, the recirculation of the intake and exhaust air was less than 3%

Installation example - kitchen



ComfoPipe Plus Twin Duct easily converts to the ComfoTube Flat 51 system for distribution of the supply and return air





Simple maintenance for optimised year round comfort and performance

Heat recovery systems require maintenance at regular intervals during their lifecycle. It is part of the Building Regulation and NHBC requirements that occupants not only understand how to operate and maintain the systems installed in their homes, but also that the system informs them when this maintenance is due.

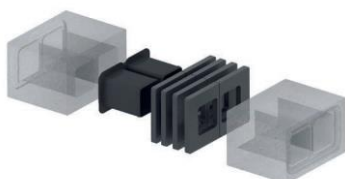
Zehnder ComfoAir units are designed to advise end users to check their filters at pre-set times throughout the year. The message will appear either on the unit's display or, if the unit is out of regular sight of the occupants, on the separate controller located within the home.

Filters play an essential role in the provision of fresh, clean air into the home. A dirty filter can inhibit the system performance resulting

in lower air flow or higher energy usage as the unit increases its motor speed to force the air through the clogged-up filter. The filters for all Zehnder ComfoAir units are designed to be easily cleaned and replaced. For more information, visit our website at greenwood.co.uk where replacement filters can be purchased and instructional videos can be viewed.

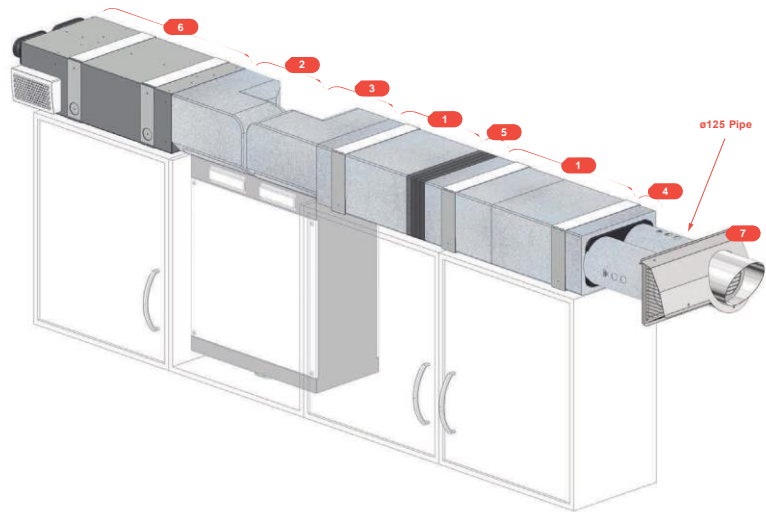
Key features

- Low profile design – only 20cm space required above the ComfoAir 180
- Excellent thermal insulation
- Employs a combination of axial and radial sealing to ensure a strong, air-tight connection
- Converts easily to Zehnder ComfoTube Flat 51 ducting for all of the supply and return duct runs
- Exhausts to a unique 2-in-1 external grille for additional space saving benefits
- Specifically shaped attenuators are also included in the range for added noise reduction
- Using the ComfoPipe Plus Twin Duct, in combination with the ComfoTube Flat 51 system, means that both in-floor and on-floor ducting solutions are possible



Length compensation element with Twin Duct 1 & 5

Installation example - kitchen



ComfoPipe Plus Twin Duct options

	Twin Duct - 400mm length ¹ Intake and exhaust air duct	990 328 800		Spacing rail For vertical installation above a unit	990 328 816
	Horizontal connection box - left ² For 90° connection of Twin Duct to CA180	990 328 802		Short Attenuator	990 328 818
	Horizontal connection box - right ³ For 90° connection of Twin Duct to CA180	990 328 801		Long attenuator ⁶ - left	990 328 819
	Switching unit For vertical and horizontal direction changes	990 328 803		- right	990 328 820
	Vertical connection For vertical connection of Twin Duct to CA180	990 328 805		Combined external wall grille ⁷ - left	990 430 592
	Vertical connection For vertical connection of Twin Duct to CA180	990 328 805		- right	990 430 591
	Joining Set ⁴ For connection of Twin Duct to Ø125 pipe	990 328 807		Flat 51 4-port manifold	990 328 823
	Length compensation element ⁵ To ensure spaces between ducting elements are filled	990 328 808		CK 300 flexible element	990 328 821

Zehnder Comfosystems

Heat recovery ventilation from the experts in energy-efficient, healthy and comfortable indoor climate solutions.

With the continued focus and drive to build highly insulated dwellings, heat recovery ventilation remains the optimal solution for the provision of good indoor air quality throughout the year. Zehnder has more than 40 years' experience in the development and production of ventilation units and this experience forms the basis of well-considered products and systems which have numerous benefits; energy efficiency, comfort, health, ease of use and integration.



Why choose Zehnder Comfosystems?

Zehnder understands the requirements of high performance buildings and offers a full range of solutions to ensure the perfect indoor climate. **Some of the key benefits of choosing Zehnder as your solution partner are:**

A full range of whole house heat recovery ventilation units

Products that are independently tested and approved

A range that covers all property sizes from smart, urban apartments to large, luxury dwellings

ComfoAir MVHR units that meet stringent Passive House standards

Year round comfort with true summer bypass as standard

Outstanding specific fan power (SFP) and heat exchange efficiencies for real rewards in SAP

A unique range of high performance ducting to complete the system solution

An exceptional in-house technical team who can assist with all aspects of your project and are experts on all regulations and standards



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