

Heating

Cooling

Fresh Air

Clean Air



Zehnder Comfosystems ComfoAir 550


zehnder



The **Zehnder ComfoAir 550** heat recovery ventilation system is highly suited to new build residential or light commercial projects.

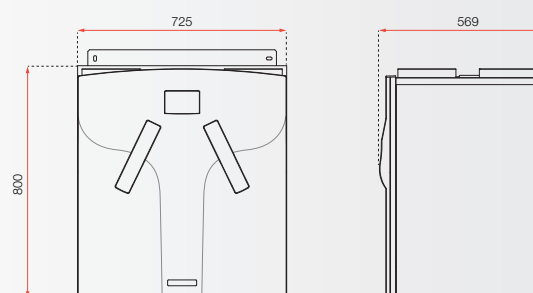
The CA550 works around the clock extracting air from wet rooms (kitchens and bathrooms) and combining maximum comfort with simple operation and high efficiency. It extracts the heat energy which would otherwise have been lost during the extract process and transfers this to the fresh, filtered supply air which is drawn in from the outside. This is done using efficient counter-flow heat exchangers which can recover up to 95% of heat that would otherwise have been exhausted into the atmosphere.

Unique benefits - why choose the ComfoAir 550?

- High specification PCB featuring 4 x 10v inputs for greater control
- Input available for the connection of a post-heater which can be controlled without the need for a separate thermostat
- Can be mounted either on the wall or free-standing on the optional assembly base
- Suitable for use with the optional ComfoFond-L Eco sub-soil heat exchanger or ComfoCool custom designed cooling unit
-  The ComfoAir 550 has been certified as an official Passive House component by the Passivhaus Institute

Physical specifications

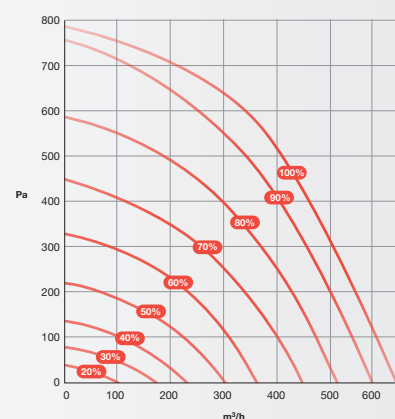
Weight: 47kg
Ducting:
 Internal Ø - 180mm
 External Ø - 200mm
Condensate connection:
 32mm
Materials:
 Internal body - EPP
 Unit housing - Coated steel / ABS
Fans: EC
Filters:
 Standard - G4
 Optional - F7



Performance statistics

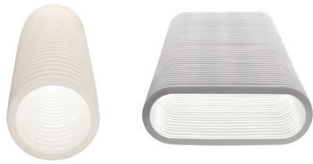
Model	Energy consumption in Watts				Unit sound level @ 0m in dB(A)			
	Low	Medium	High	Max	Low	Medium	High	Max
CA550	41	110	220	350	35	45	50	54

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



SAP Appendix Q Performance

Exhaust terminal configuration	Specific fan power (W/l/s)	Heat recovery efficiency (%)	Energy Saving Trust best practice
Kitchen + 1 additional wet room	0.93	88	Yes
Kitchen + 2 additional wet rooms	0.80	88	Yes
Kitchen + 3 additional wet rooms	0.78	89	Yes
Kitchen + 4 additional wet rooms	0.78	89	Yes
Kitchen + 5 additional wet rooms	0.80	88	Yes
Kitchen + 6 additional wet rooms	0.86	87	Yes
Kitchen + 7 additional wet rooms	0.93	87	Yes



Think system. Think unit. **Think ducting.**

Heat recovery is a system – the unit and the ducting – and it is the combination of these two elements that deliver ventilation into the home.

Ducting is just as important as the unit itself due to its impact on:

- Long term provision of indoor air quality
- Efficiency and airflow performance
- Speed and ease of installation
- Noise transfer around the home
- Occupant comfort and health

ComfoTube and **ComfoTube Flat 51** – our high-performance, semi-rigid air distribution systems – offer a whole host of benefits to developers, installers and homeowners from innovative features including:

- Radial designs giving individual runs to each room
- Flexible design removing the need for bend connection components
- Easy to be maintained and cleaned
- Lightweight and flexible yet still very, very strong - they can withstand the weight of a person without distorting and can even be buried in concrete
- No need for glues or sealants

Key features

- Designed specifically for large residential dwellings up to 210m² (2010 Building Regulations)
- Comfort ventilation up to 550m³/h at 200 Pa
- Heat recovery efficiency of up to 95%
- Low energy consumption thanks to EC motors
- Automatic 100% filtered summer bypass


















Installation

Wiring:	Must comply with current IEE regulations
Fuse:	3 Amp
Power supply:	230V ~ 50Hz Class II
Power consumption:	Minimum - 13W Maximum - 350W
Orientation:	Wall mounting or free-standing (with optional assembly base)

ComfoAir 550 product codes

	ComfoAir 550 Left	CA550L	ComfoAir 550 Luxe PH - Left	CA550LLUXEPH
	ComfoAir 550 Luxe Left	CA550LLUXE	With pre-heater - a Passive House certified component ^[2]	
	ComfoAir 550 Right	CA550R	ComfoAir 550 Luxe PH - Right	CA550RLUXEPH
	ComfoAir 550 Luxe Right	CA550RLUXE	With pre-heater - a Passive House certified component ^[2]	

Control options and ancillaries

	ComfoControl Luxe control unit ^[1]	CCL		ComfoFond-L Eco sub-soil heat exchanger ^[1]	Various
	ComfoSense CS67 control unit with mounting box ^[1]	CCS		Filter set - G4	400 100 085
	Wireless control unit	CCRFZ		Filter set - G4/F7	400 100 084
	Three position switch with fault indicator	CCBL		Filter set - F7	400 100 086
	Three position switch	CCB		Enthalpy heat exchanger ^[1]	400 400 014
	0-10v humidity sensor	659 000 330		ComfoPipe 180 ^[1]	Various
	0-10v CO ₂ sensor	659 000 340		ComfoPipe Plus 200 ^[1]	Various
	Assembly base - height 250mm	642 300 140		ComfoTube Flat 51 ^[1]	Various
	ComfoCool 550 cooling unit ^[1]	Various		ComfoTube ^[1]	Various

[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

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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