

Heating

Cooling

Fresh Air

Clean Air



# Zehnder Comfosystems ComfoAir 350


**zehnder**



The **Zehnder ComfoAir 350** heat recovery ventilation system is highly suited to new build residential or light commercial projects. The CA350 works around the clock to extract air from wet rooms (kitchens and bathrooms) and combines maximum comfort with simple operation and high efficiency.

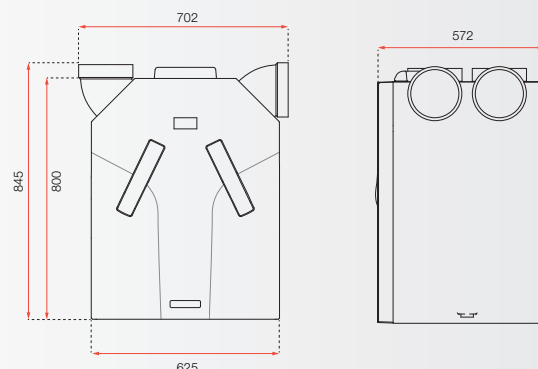
It extracts the heat energy which would otherwise have been lost during the extract process and transfers this to the fresh, filtered supply air which is drawn in from the outside. This is done using efficient counter-flow heat exchangers which can recover up to 95% of heat that would otherwise have been exhausted into the atmosphere.

### Unique benefits - why choose the ComfoAir 350?

- The insulating, sound-absorbing ducting connections can be rotated individually to simplify the installation
- High specification PCB featuring 4 x 10v inputs for greater system control
- 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
- Input available for the connection of a post-heater which can be activated without the need for a separate controller
-  The ComfoAir 350 has been certified as an official Passive House component by the Passivhaus Institute

### Physical specifications

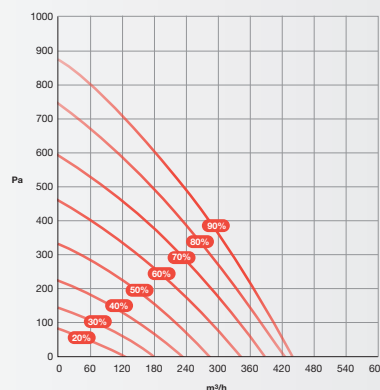
**Weight:** 35kg  
**Ducting:**  
 Two step internal Ø - either 150mm or 160mm  
 External Ø - 180mm  
**Condensate connection:**  
 32mm  
**Materials:**  
 Internal body - EPP / PA / PA  
 Unit housing - Coated steel / ABS  
**Fans:** EC  
**Filters:**  
 Standard - G4  
 Optional - F7



### Performance statistics

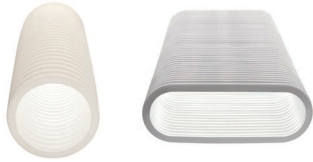
Model	Energy consumption in Watts				Unit sound level @ 0m in dB(A)			
	Low	Medium	High	Max	Low	Medium	High	Max
CA350	27	70	145	243	35	47	55	59

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	0.77	88	Yes
Kitchen + 2 additional wet rooms	0.70	88	Yes
Kitchen + 3 additional wet rooms	0.69	88	Yes
Kitchen + 4 additional wet rooms	0.72	87	Yes
Kitchen + 5 additional wet rooms	0.79	87	Yes
Kitchen + 6 additional wet rooms	0.80	86	Yes
Kitchen + 7 additional wet rooms	1.00	86	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 residential dwellings up to 150m<sup>2</sup> (2010 Building Regulations)
- Comfort ventilation up to 400m<sup>3</sup>/h at 100 Pa
- Heat recovery efficiency of up to 95%
- Low energy consumption thanks to EC motors
- Automatic 100% filtered summer bypass



















### Installation

<b>Wiring:</b>	Must comply with IEE Regulations
<b>Fuse:</b>	3 Amp
<b>Power supply:</b>	230V ~ 50Hz Class II
<b>Power consumption:</b>	Minimum - 10W    Maximum - 243W
<b>Orientation:</b>	Wall mounting or free-standing (with optional assembly base)

### ComfoAir 350 product codes

	ComfoAir 350 Left	<b>CA350L</b>	ComfoAir 350 Luxe PH - Left	<b>CA350LLUXEPH</b>
	ComfoAir 350 Luxe Left	<b>CA350LLUXE</b>	With pre-heater - a Passive House certified component [2]	
	ComfoAir 350 Right	<b>CA350R</b>	ComfoAir 350 Luxe PH -Right	<b>CA350RLUXEPH</b>
	ComfoAir 350 Luxe Right	<b>CA350RLUXE</b>	With pre-heater - a Passive House certified component [2]	

### Control options and ancillaries

	ComfoControl Luxe control unit [1]	<b>CCL</b>		ComfoFond-L Eco sub-soil heat exchanger [1]	<b>Various</b>
	ComfoSense CS67 control unit with mounting box [1]	<b>CCS</b>		Filter set - G4	<b>400 100 085</b>
	Wireless control unit	<b>CCRFZ</b>		Filter set - G4/F7	<b>400 100 084</b>
	Three position switch with fault indicator	<b>CCBL</b>		Filter set - F7	<b>400 100 086</b>
	Three position switch	<b>CCB</b>		Enthalpy heat exchanger [1]	<b>400 400 013</b>
	0-10v humidity sensor	<b>659 000 330</b>		ComfoPipe 150 [1]	<b>Various</b>
	0-10v CO <sub>2</sub> sensor	<b>659 000 340</b>		ComfoPipe Plus 160 [1]	<b>Various</b>
	Assembly base - height 300mm	<b>642 300 135</b>		ComfoTube Flat 51 [1]	<b>Various</b>
	ComfoCool 350 cooling unit [1]	<b>Various</b>		ComfoTube [1]	<b>Various</b>

[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](http://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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