Comfosystems
Zehnder ComfoAir XL

FANTECH
Intelligent Ventilation
Creating healthy homes with zehnder

Heating | Cooling | Fresh Air | Clean Air

PLUS X AWARD®
honored as:
BEST PRODUCT OF THE YEAR 2014

ZERTIFIZIERTE KOMPONENTE
Passivhaus Institut

Zehnder ComfoAir XL: Facts and figures

More than 40 years of experience in the development and production of ventilation units provides the basis for well-conceived products and high-benefit systems at Zehnder, offering energy efficiency, comfort, health, user-friendliness and perfectly matched individual components. The ventilation system's supply and extract air are controlled by the Zehnder ComfoAir ventilation units.

The Zehnder ComfoAir XL series is the next generation of ventilation units with heat recovery for multiple-family houses and commercial buildings. The Zehnder ComfoAir XL series comprises 6 models with air volumes from 800 to 6,000 m³/h and heat recovery of up to 90%.

The Zehnder ComfoAir XL series was developed in close cooperation and in compliance with the guidelines of the Passive House Institute.

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1 Properties

- Highly-insulated panels connected with dual seals, and no thermal bridges ensure minimum leakage
- High-efficiency EC fans ensure lowest energy consumption for maximum energy saving
- High-efficiency heat exchangers with up to 90% heat recovery for maximum energy saving
- Combined lock and hinge system enables fast and easy access for cleaning and maintenance

2 Regulation

- Modbus interface integrates the unit into the building technology for easy regulation
- Filter monitoring using pressure sensors for filter replacement as required
- Constant pressure or flow control for energy-optimised operation as required by the application
- Inputs for CO_2, humidity and temperature, as well as outputs for pumps, valves and flaps, ensure a comfortable indoor climate

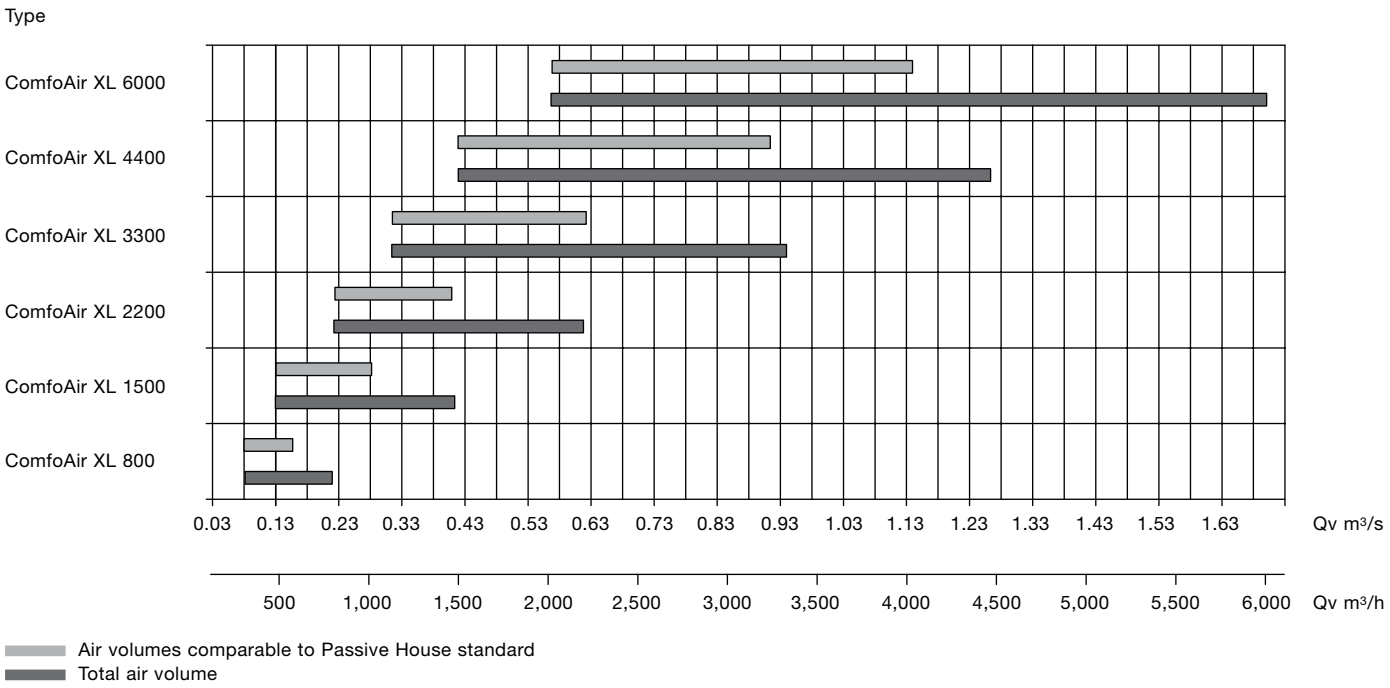
3 Flexibility

- Volume flows from 800 to 6,000 m³ (6 models) for indoor and outdoor installation guarantee the optimal solution
- Customer-specific configuration of the ventilation unit with pre-heating, post-heating and cooling register for high operational reliability and a comfortable indoor climate
- Integrated, air-tight bypass in the extract air for free nighttime cooling in the summer and a comfortable indoor climate
- Air-tight closure of outdoor air flaps and exhaust air dampers for maximum operational reliability integrated in the ventilation unit (optional)

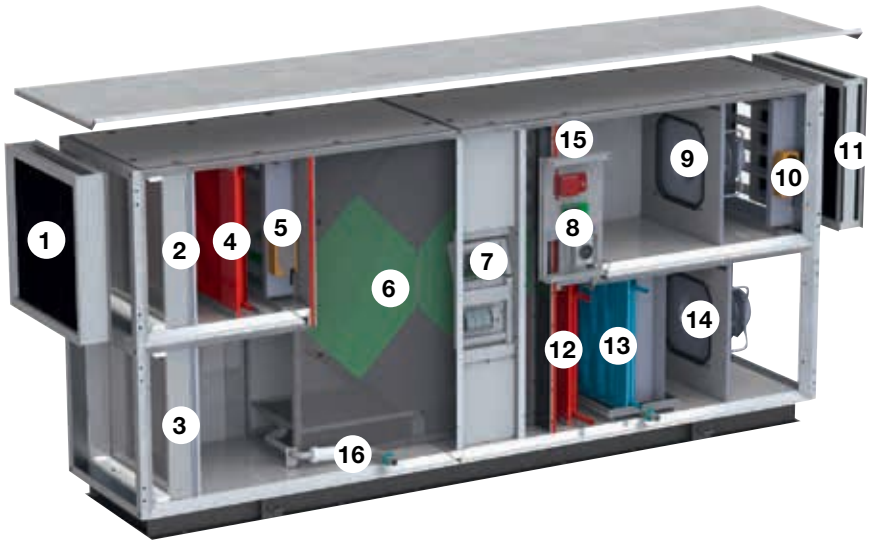
4 Certificate

- Entire model range suitable for use in air-tight houses and certified for a future-proof solution that is subsidised by national programmes
- GreenTech: Our fans already satisfy the requirements of Level 2 of the EcoDesign Directive (mandatory from 2015) and thus guarantee future-proof and energy-saving operation

Overview, air volume at min. 200 Pa



Overview of customer-specific adaptations



1. Drip catcher
2. Outside air filter F7
3. Extract air filter G4
4. Pre-heating register
5. Outside air flap
6. Heat exchanger
7. Control PCB
8. Connection PCB
9. Extractor fan
10. Exhaust air damper
11. Drip catcher
12. Post-heating register
13. Cooling register
14. Supply fan
15. Bypass flap
16. Integrated dry siphon

Benefit

- Heat recovery of up to 90%
- Passive House certified
- Modbus interface for integration in the building technology
- Constant pressure and flow control
- Highly efficient EC fans

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