

Specification text - DucoBox Energy Comfort Plus D450

Product description

The DucoBox Energy Comfort Plus D450 is a balanced ventilation unit with heat recovery. The left/right exchange is 100% software-based thanks to the patented principle of the double bypass.

The optional demand control of the unit results in intelligent and energy-efficient operation. Together with the smart demand control based on CO₂ and humidity, the dynamic air distribution filters ensure exceptional efficiency within this compact unit.

The compact and quick-to-install 2-zone valves provide the most energy-efficient result that can be achieved with an MVHR system. Add to this the fact that the zone control and the fully metal casing drastically reduce noise.

Unit equipment

- The casing consists entirely of coated sheet steel
- Software-based left/right exchange
- Double summer bypass – 100% modulating
- Equipped with a dynamic airflow filter on the supply air, type Coarse 65%; an optional filter type ISO 16890 ePM1 55% is possible
- Equipped with a dynamic airflow filter on the exhaust air, type Coarse 65%
- Plastic heat exchanger
- Frost protection by imbalance or via an optional, external heater
- EC fan with backward-curved blades
- Automatic passive cooling control
- Constant flow control of the flow rates
- Independent adjusting of supply and extract flow
- Automatic calibration under constant pressure
- Built-in regulation for 2-zone control
- Operation via integrated display and operating buttons
- Use via optional remote controls and room sensors
- Configuration of the unit via an installation wizard on smartphone/tablet
- Connection to home automation and building management systems possible via REST API (local or via the cloud) or Modbus TCP (local). Both are possible via Ethernet or Wi-Fi (provided Duco Connectivity board)

Specifications

	D450 Plus
Maximum supply and extraction capacity at 200 Pa	450 m ³ /h
Energy label	A (A+ in combination with 2 sensors)
Maximum electrical power at 50 Pa	150 W
Emission from casing Lwa (at 200 Pa)	59,5 dB(A)
Energy conversion efficiency	87.8% (EN 13141-7) 82% (Passive House Institute)
Width x height x depth	760 x 803 x 584 mm
Weight	47 kg

Verifications

- CE verification