# 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 m³/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