

AREA OF APPLICATION

- Can be used in new constructions and refurbished buildings
- Mechanically supplied fresh air
- Mechanically drainage of used air
- Demand-driven ventilation thanks to integrated air quality sensors
- High-efficiency heat exchanger for energy saving



Endura Delta 450 T4



Endura Delta 450 T2/B2

PRODUCT CHARACTERISTICS




EPB product data pending

- Max. capacity: 450 m³/h at 150 Pa
- Integrated plastic counter flow **heat exchanger**
- Maximum power consumption: 2 x 115 W

Ventilation system

- **Ventilators**
 - 2 EC motors
 - Supply voltage: 1 x 230V / 50Hz
 - Ventilators with backward-curved blades
 - Constant flow control: airflow remains constant
- Dimensions: H 862 x W 745 x D 520 mm
- Weight: 46 kg
- Available with 4 upper connections [T4] or 2 upper and 2 lower connections [T2/B2]
- Available in **left-hand or right-hand model**
- Automatic **full bypass**
 - Modular control
 - Closing of the heat exchanger during warm weather
- 150/180 mm diameter connections **in expanded polypropylene**
 - Direct join to the unit:
 - EPP ducts: outer diameter 180 mm, inner diameter 150 mm
 - EPP ducts: with connecting sleeve: outer diameter 200 mm, inner diameter 180 mm
 - Other ducts: 180 mm diameter can be connected directly onto the ventilation system

- Integrated condensation drain Ø32 mm
- Extremely airtight appliance
- **2 x G4 cartridge filters** [F7 optional for supply]
 - Maintenance-friendly
 - Large filter surface area
- **Integrated TouchDisplay** in front panel
 - Touchscreen
 - Possibility to configure and control ventilation unit
 - Error feedback
 - Filter message
 - Visualization of current ventilation conditions
- **Ethernet connection [RJ45 connector]**
 - Possibility to control unit via tablet /smartphone via local network
- **External input/output contacts**
 - *Open input contact [digital 0-24 V]*
 - Supply and extract disabling option – e.g. emergency OFF to switch off supply flow rate
 - Supply switch-off
 - Drainage switch-off
 - Activation of fireplace function via external contact
 - *Open output contact [digital 0-24 V]*
 - Error message
 - Filter message
 - *0-10V analogue input*
 - *0-10V analogue output*

A  53 dB(A)   450 m³/h

FUNCTIONS

- Operation
 - According to automatic mode [program]
 - Manual control
 - Timers
 - Via integrated air quality sensors [RH, CO₂ & VOC]
 - Via optional, external air quality sensors
- **Demand-driven ventilation** thanks to integrated air quality sensors
 - Relative humidity
 - VOC [volatile organic compounds]
 - CO₂
 - Ventilation levels adapted in accordance with measured air quality
- Automatic **frost protection**
 - Temporary imbalance and flow restriction to prevent freezing of the heat exchanger
- Extra frost protection option through installation of **pre-heating element**
 - Electrical pre-heating element
 - Modular power
 - Max. power: 1000 W
- **Breeze function**
 - Breeze function for optimum cooling in summer [summer bypass with adjustable ventilation level]
 - Automatic and manual bypass activation
 - 4-seasons automatically controlled indoor temperature
- **Fireplace function**
 - Activated via external pulse switch
 - Temporary imbalance on supply side [overpressure] to aid ignition process
- Holiday mode
 - Input of start and end dates during prolonged absence
 - System ventilates at maximum energy efficiency
- Filter message
 - Via smartphone
 - On integrated TouchDisplay
 - On external control unit [optional]
 - Timer-controlled

CONTROL

Standard control via Endura[®] Delta App (iOS, Android, Windows) on smartphone, tablet and integrated TouchDisplay

Options

- **TouchDisplay [main controller]** control with display of air quality and ventilation intensity
 - Integrated air quality sensor
 - Display of active program
 - Timer programming possible
 - Power, communication with motor unit via RS232 cable
- **Air quality sensor [sensor controller]** control with display of air quality and ventilation intensity
 - Integrated air quality sensor
 - Display of active program
 - Ventilation level adjustment possible
 - Power voltage 230 V / 50 Hz
 - Wireless communication with Master Touchdisplay
- **4-position switch**
 - Limited functionality



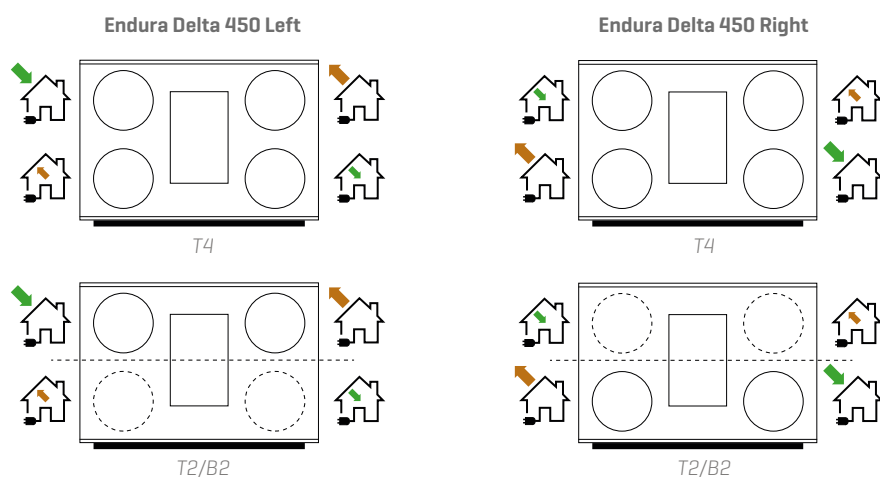
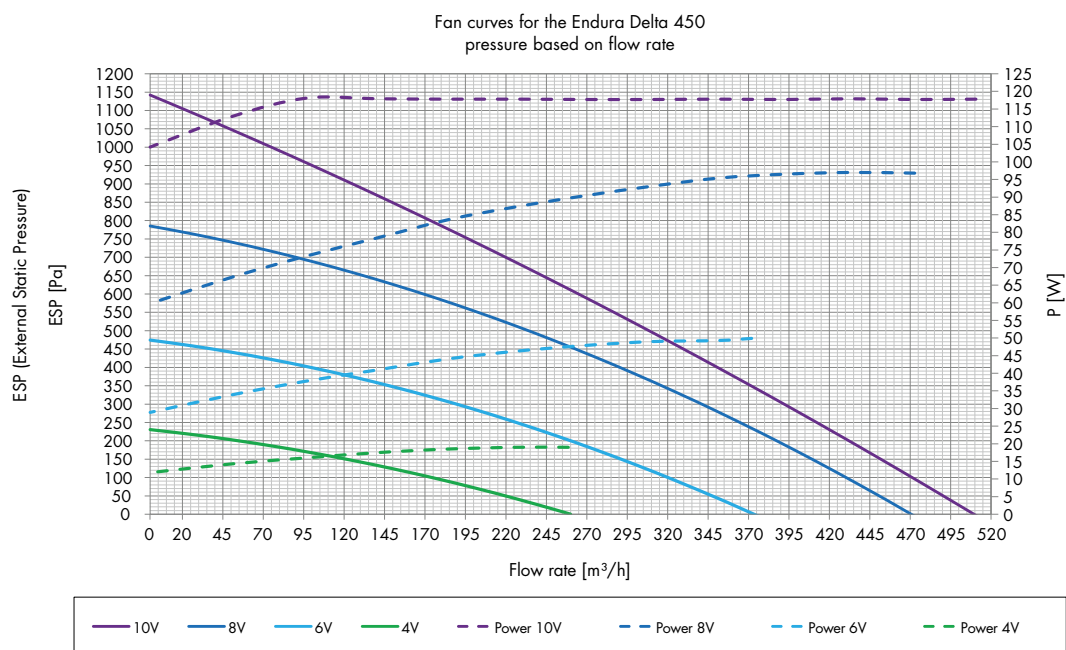
Endura[®] Delta app



TouchDisplay

MODELS

DESIGNATION	ARTICLE NUMBER
Endura Delta 450 T4 L	76050502
Endura Delta 450 T4 R	76050503
Endura Delta 450 T4 L PH	76050500
Endura Delta 450 T4 R PH	76050501
Endura Delta 450 T2/B2 L	76050510
Endura Delta 450 T2/B2 R	76050511
Endura Delta 450 T2/B2 L PH	76050508
Endura Delta 450 T2/B2 R PH	76050509


PRESSURE CURVES


TECHNICAL DRAWINGS

