

Air handling unit

11060834

DFE® Top Micro-watt 450 no RC

DFE® TOP is a affordable compact counterflow unit for samll rooms and with small foodprint, that deliver good indoor air and have a simple automatic.



DFE Remote control

PRODUCT BENEFITS

- Minimum footprint,
- free cooling as standard,
- optional built-in coils.

Principles of operation

DFE Top Micro-Watt brings fresh, filtered air into the building and recovers heat from exhaust air using its high-efficiency heat exchanger. The incoming air can be heated and/or cooled using a comprehensive range of coils.

Product description

DFE TOP is a air handling unit with counterflow exchanger, with all duct connections on the top. Due to its low footprint and airflow it is perfect for small rooms. The unit is compact and energy-efficient, delivered ready to use.

Fields of application

New, Refurbishment, Non-residential buildings

Installation

Air handling for energy-efficient non-residential buildings.

Reference arguments

- 1 DFE TOP model up to 450 m³/h.
- «Plug & Play» pre-cabled monobloc unit.
- Aluminium profile box frame.
- 15 mm twin-skin panels. Galvanised steel inner skin.
- Internal airtight seal class 1 and external class 2 (as per EN 13141-7).
- Very high-efficiency counterflow plate heat exchanger (min. 90 %).
- Centrifugal fans with electronically commutated motors.
- Comprehensive controls included: - Constant airflow (CA), - Constant pressure (CPs), - 0-10V signal (LS). - Constant torque (TQ)
- Internal clock.
- 70% adjustable bypass.
- G4 exhaust air and F7 fresh air flat filters.
- Proximity switch.
- Stainless steel condensate collection tray.
- OPTION: communication with BMS via ModBus protocol.
- Configuration and control via remote control (option) or touchscreen controller (separate accessory).

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Main characteristics

- 1 DFE TOP model up to 450 m³/h,
- pre-cabled monoblock unit ready to use,
- casing structure made of extruded, anodised aluminium,
- 15 mm panels. Inner wall made of galvanised steel,
- internal airtight seal class 1 and external class 2 (EN 13141-7),
- high efficiency counterflow heat exchanger (•90 %),
- centrifugal fans with EC motors,
- full controls included:
 - constant airflow (CA),
 - constant pressure (CP),
 - 0-10V signal (LS).
- Integrated clock,
- 100% automatic bypass,
- ISO Coarse 65% (G4) flat and pleated filters (optional ISO ePM1 55% (F7) on fresh air),
- proximity switch,
- galvanised steel condensate collection tray,
- optional: communication with BMS via ModBus RTU protocol,
- configuration and control via remote control or touch-screen remote control (additional accessory).

Accessories

Désignations	References
Pressure sensor kit DFE	11058050
Relay SAT3	11058149
SAT Modbus relay	11058442
SAT Wifi DFE TAC 4/5	11060846
SAT ethernet DFE TAC 4/5	11060847
Tactile remote control for DFE Tactouch	11069101
Flexible connector - Ø 200	11096934
Sens CO2 sensor	11017090
Motor Sfa-S2 On/Off 24/230V	11055045
Standalone detector trip device 230/24V	11906103
Smoke sensor	11058417
MS PRO V2 D200	11094296

Consumables

Désignations	References
G4 filter kit DFE 450	11058100

Associated services

Commissioning

General data

References	Thickness of insulation (mm)	Available filters	Connection direction	Type of exchanger	Type of motor	Type of impeller
11060834	15	ISO Coarse 65% (G4), optional ISO ePM1 55% (F7)	Vertical	With plates	EC	Forward curve

Air handling unit

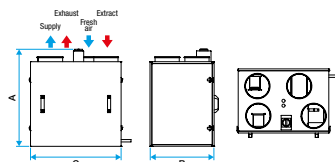
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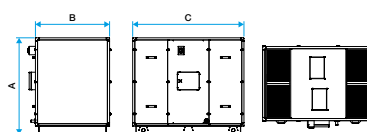
Dimensional data

References	A (mm)	B (mm)	C (mm)	Ø connection (fresh air or exhaust) (mm)	Ø connection (discharge or air supply) (mm)	Weight (kg)
11060834	675	500	720	200	200	75

DFE+ Top 450 - DFE Top 450



DFE+ Top 800 - 1200 - 2000



Dimensions DFE TOP micro-watt

Airflow data

References	Max. airflow (m³/h)
11060834	450

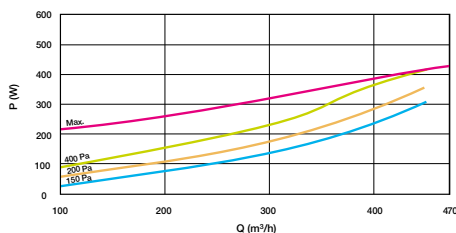
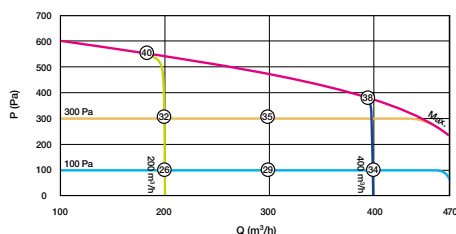
Thermal data

References	Max. exchanger output (%)
11060834	90

Electrical datas

References	Max. electrical output of unit (kW)	Unit voltage (V)
11060834	2 x 0,20	230

Curve



- > Aerologic curve as per standard NF EN ISO 5801
- > : Lp in dB(A) = total sound pressure level measured at 4 m from the box fan, free discharge
- > P (Pa) = static pressure
- > P (W) = Power consumption

Caractéristiques aérauliques et acoustiques DFE TOP 450