

## Air handling unit

11058458

## DFE® Compact Micro-watt 1600 Left + KWIN no HMI

DFE® Compact is a air handling unit with counterflow exchanger, and can be mounted in the ceiling thanks to its small dimensions.



DFE Remote control

## PRODUCT BENEFITS

- high-efficiency heat exchanger
- energy-efficient EC motor
- 100% and modulating bypass

## Principles of operation

DFE Compact 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 Compact is ultra compact in size while retaining all the functions and options of a high efficiency AHU (bypass, EC motor, etc.). It is the ideal solution for a suspended ceiling installation, when no space is allocated to a heat recovery AHU.

## Fields of application

New, Refurbishment, Non-residential buildings

## Installation

- horizontal,
- indoors in a suspended ceiling.

## Reference arguments

- «Plug & Play» pre-cabled monobloc unit,
- 30 mm twin-skin panels. EPS thermal insulation (M1 fire rating).
- Very high-efficiency counterflow heat exchanger (up to 96%). (Eurovent AAHE)
- Low-consumption electronically commutated motor.
- Comprehensive controls: - Constant airflow (CA). - Constant pressure (CPs). - 0-10 V signal (LS). - Constant torque (TQ)
- M5 pleated flat filters (option: F7 for fresh air).
- Adjustable by-pass control.
- Proximity switch.
- Ready-installed, pre-cabled condensate discharge lift pump.
- Option: communication to BMS via ModBus RTU or KNX (requires the "SAT ModBus" option).
- Configuration and control via remote control (RC) or touchscreen controller (separate accessory).
- Internal clock.
- Stainless steel condensate collection tray.
- Hot/cold water or DX external coils available

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## Main characteristics

- Plug & Play pre-cabled monoblock unit,
- double-wall 30 mm panels, polystyrene thermal insulation (M1 fire rating),
- high-efficiency counterflow heat exchanger (•90 %) EUROVENT-certified heat exchanger,
- energy-efficient EC motors,
- Remote Control (RC) included,
- full control:
  - constant airflow (CA),
  - constant pressure (CPs),
  - 0-10 V signal (LS).
- ISO Coarse 65% (G4) flat and pleated filters (optional ISO ePM1 55% (F7) on fresh air),
- 100 % bypass,
- proximity switch,
- pre-installed and pre-cabled condensate discharge pump,
- optional: Communication with BMS in RTU Modbus (requires SAT ModBus option),
- configuration and control via remote control or touch-screen remote control (additional accessory).

## Accessories

Désignations	References
Pressure sensor kit DFE	11058050
Relay SAT3	11058149
Connector DFE Compact 2000 D315 - 234x1170	11058423
SAT Modbus relay	11058442
SAT external coil kit	11058443
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
Flexible connector - Ø 250	11096935
Flexible connector - Ø 315	11096936
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
MS PRO V2 D250	11094297
MS PRO V2 D315	11094298

## Consumables

Désignations	References
G4 filter kit for DFE Compact 1600 TAC	11100237
F7 filter kit for DFE Compact 1600 TAC	11100242
M5 filter kit DFE COMPACT 1300/1600	11100757

## Associated services

Commissioning

## General data

References	Available filters	Connection direction	Type of exchanger	Type of motor	Type of impeller
11058458	ISO Coarse 65% (G4) flat and pleated filters (optional ISO ePM1 55% (F7) on fresh air).	Horizontal	With plates	EC	Forward curve

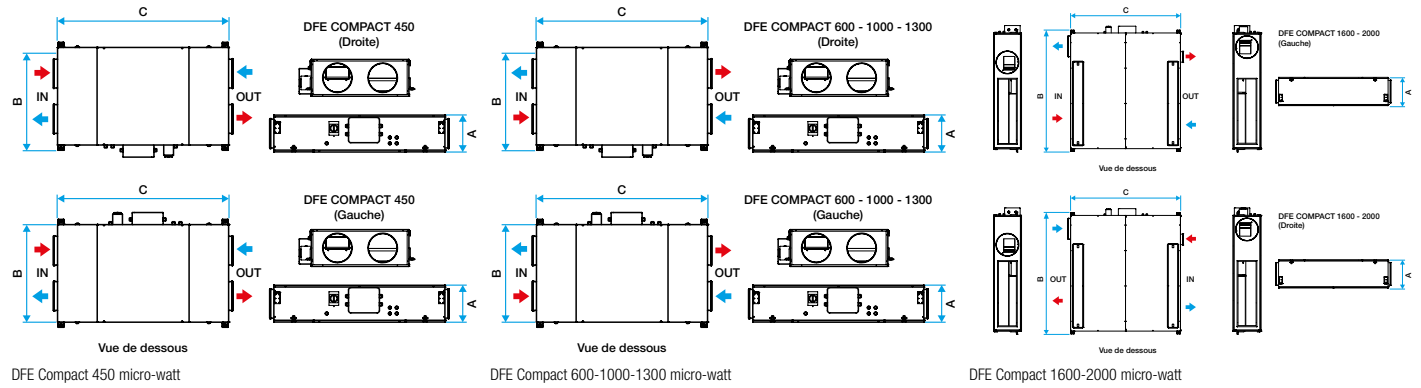
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#### Dimensional data

References	A (mm)	B (mm)	C (mm)	Ø connection (fresh air or exhaust) (mm)	Ø connection (discharge or air supply) (mm)	Weight (kg)
11058458	400	1790	1630	315	315	222



#### Airflow data

References	Max. airflow (m³/h)
11058458	1680

#### Thermal data

References	Max. exchanger output (%)
11058458	83

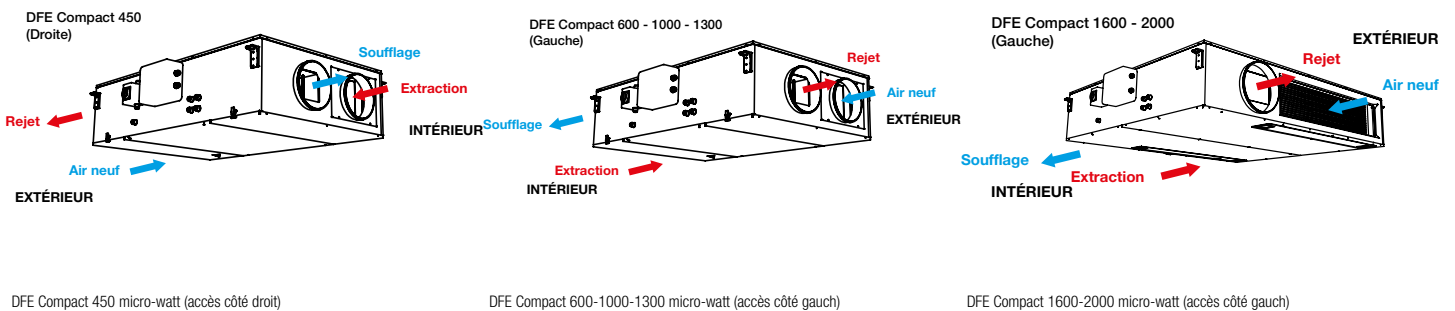
#### Electrical datas

References	Max. power of electrical coil 1 (kW)	Max. electrical output of unit (kW)	Unit voltage (V)
11058458	6	1,1	230

#### Regulatory data

References	Test values as per standard EN 1886
11058458	D1, L3, F8, T3, TB2

#### Installation visual 1

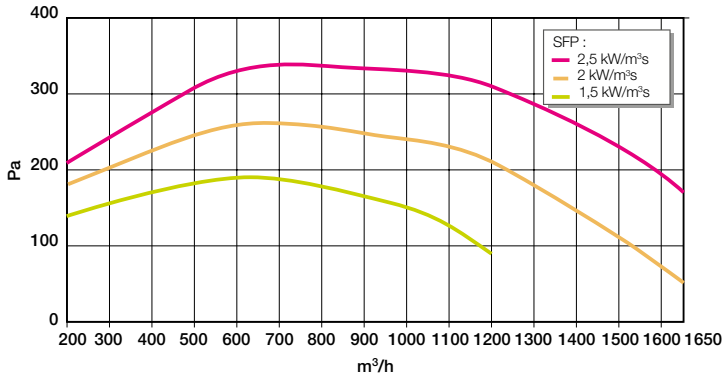


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Curve



- > Aerodynamic 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 aérodynamiques et consommation d'énergie DFE COMPACT 1600