

Air handling unit

11058294

DFE® Compact Micro-watt 2000 Left 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 2000 TAC3 | 11058199 |
| F7 filter kit for DFE Compact 2000 TAC3 | 11058200 |
| G4 filter kit for DFE Compact 2000 TAC | 11100238 |
| F7 filter kit for DFE Compact 2000 TAC | 11100243 |
| | 11100758 |

Associated services

Commissioning

General data

| References | Thickness of insulation (mm) | Available filters | Connection direction | Type of exchanger | Type of motor | Type of impeller |
|------------|------------------------------|---|----------------------|-------------------|---------------|------------------|
| 11058294 | 30 | ISO Coarse 65% (G4) flat and pleated filters (optional ISO ePM1 55% (F7) on fresh air). | Horizontal | With plates | EC | Forward curve |

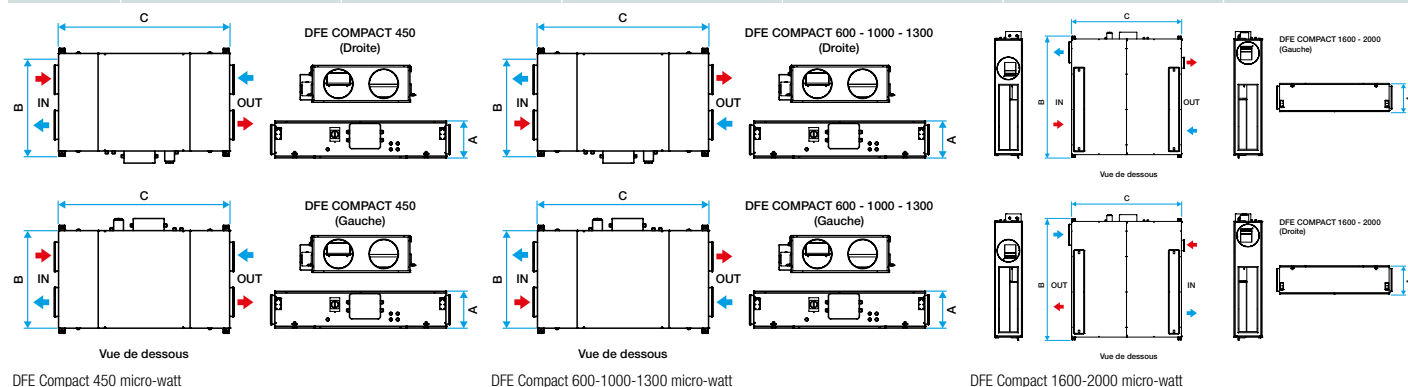
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Dimensional data

| References | A (mm) | B (mm) | C (mm) | Ø connection (fresh air or exhaust) (mm) | Ø connection (discharge or air supply) (mm) | Weight (kg) |
|------------|--------|--------|--------|--|---|-------------|
| 11058294 | 400 | 2090 | 1780 | 315 | 315 | 275 |



Airflow data

| References | Max. airflow (m³/h) |
|------------|---------------------|
| 11058294 | 2100 |

Thermal data

| References | Max. exchanger output (%) |
|------------|---------------------------|
| 11058294 | 83 |

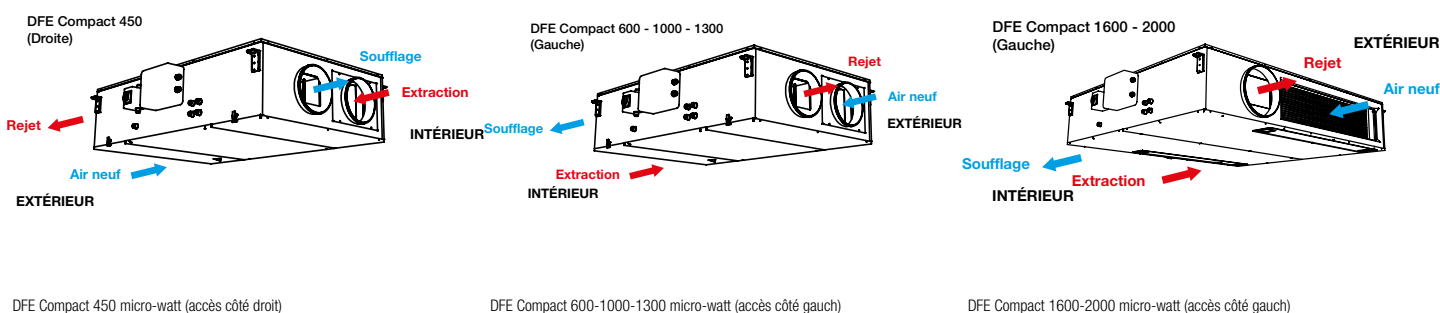
Electrical datas

| References | Max. electrical output of unit (kW) | Unit voltage (V) |
|------------|-------------------------------------|------------------|
| 11058294 | 1,4 | 230 |

Regulatory data

| References | Test values as per standard EN 1886 |
|------------|-------------------------------------|
| 11058294 | D1, L3, F8, T3, TB2 |

Installation visual 1

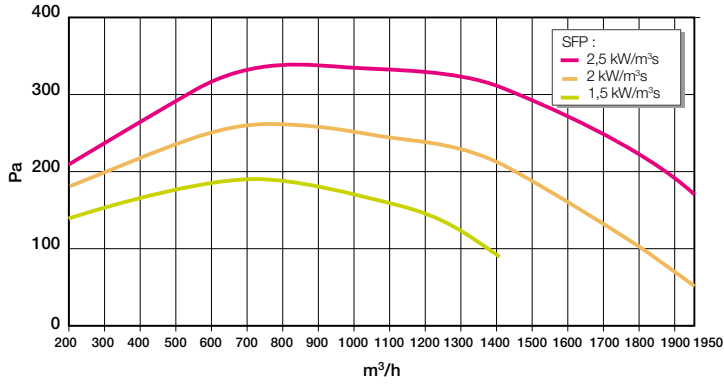


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Curve



- > 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

Aerodynamic characteristics and power consumption DFE COMPACT 2000