CO2 sensor

11034643
EasyVEC® MICRO-WATT+ 12000 IP

The best-designed range of exhaust box fans on the market, making ventilation efficient, serene, and easy.

PRODUCT BENEFITS
• wide range from 4000 to 12,000 m3/h,
• up to 50% less electricity consumed in relation to a Standard unit,
• 100% recyclable.

REGULATIONS AND COMPLIANCES
Technical Opinion no. : 14.5/16-2185_V2

Principles of operation

EasyVEC® Micro-watt+ delivers exhaust ventilation in non-residential buildings via air exhaust or supply to ensure sufficient air quality and to preserve the building structure.

Product description

• Aldes patented Micro-watt+ control automatically creates a custom regulation profile (Auto-Adaptive Technology™) to adapt the pressure delivered by the unit to the actual needs of the system. This means the ventilation is precisely adjusted to match needs and generates significant savings on heating costs. AldesConnect™ Pro can remotely monitor the fan unit for greater responsiveness in handling breakdowns and malfunctions.

Fields of application

New, Refurbishment, Non-residential buildings

Installation

• installation:
- on anti-vibration slab as per DTU 68.3 recommendations,,
- indoor or outdoor location,
- sufficient space must be left in front of the box fan to avoid obstructing the access panel and allow maintenance of internal components.
- for roof installation, preferably positioned out of the wind to limit pressure losses at the outlet.
• For better acoustic and aeraulic performances, we recommend that you:
- install sound attenuators at the unit connections,
- use the ALDES VIRTUO-FIX range of sealed accessories,
- use MS PRO sealed flexible sleeves to muffle ductwork vibrations.

Reference arguments

• Application:
- centralised, very low-consumption unidirectional air supply or exhaust box fan for commercial CMEV system,
- new and refurbishment,
- air supply /exhaust,
- Aldes Auto-Adaptative Technology™ Micro-watt+ controller for pressure control,
- attic / equipment rooms / flat roofs,
- indoor / outdoor.
• Description:
- EasyVEC® Micro-Watt+ very low-consumption exhaust box fan,
- easy to select: Selector poWair® and Conceptor Ventilation design software,
- easy to configure via intuitive interface,
- easy to service: link to documentation via QR code, single access panel, compatible with AldesConnect™ Pro supervision service (optional),
- very low power consumption.

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Main characteristics

- Micro-watt+ control and patented Aldes Auto-Adaptive Technology™ software to adapt the pressure delivered by the unit to the actual needs of the system,
- 3 other additional control modes:
- MICRO- WATT at constant pressure,
- via external 0-10V probe (e.g. CO_2 sensor),
- constant airflow.
- EC motor with very low power consumption (50/60 Hz),
- backward curve impeller,
- unit made of galvanised steel Z275,
- simple and intuitive EasyVEC® remote control,
- proximity switch as standard,
- humidity-controlled or pre-configured T.Flow control mode
- compatible with all types of ductwork, even with junctions,
- central system: savings on maintenance,
- alarm relay available by wiring to the PCB,
- multiple options and accessories:
- filter box,
- ISO filter coarse 60%, ePM10 50%, ePM1 50-75%, ePM1 85%,
- pressure switch,
- ducted discharge,
- 25 mm dual-wall acoustic insulation,
- compatible with Modbus RS485,
- AldesConnect® Pro.
- made in France.

Supplementary characteristics

- compatible with Technical Approval for Modulated Ventilation - Presence-Agito-CO2-Hygro no. 14.5/16-2185_V1,
- ErP 2018,
- ECS-eligible: BAT-TH-112, BAT-TH-125, BAT-EQ-123.

Accessories

Description	Variants
Thermal-magnetic circuit breaker 20A-25A	11057057
Duct sensor +25/+90°C	11090900
Airflow control kit (20-300 Pa)	11090901
Duct sensor -10/+35°C	11090902
Female rain hood + screen Ø 710 mm	11056410

Filters

Description	Variants
G4 filter EasyVEC® 10000/12000	11034411
M5 filter EasyVEC® 10000/12000	11034414
F7 filter EasyVEC® 10000/12000	11034425
F9 filter EasyVEC® 10000/12000	11034428

Options

base
BACNET
CIRC
CONNECT
EXPORT
INDIC
ISOLA
MODBUS
RAILS
REGLABLE

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Associated services

Commissioning

General data

Variants	Type of motor
11034643	EC

Dimensional data

Variants	E (mm)	F (mm)	H (mm)	L (mm)	M (mm)	P (mm)	T (mm)	Y (mm)	Z (mm)	Ø (mm)
11034643	575	1155	905	910	60	945	960	940	115	710
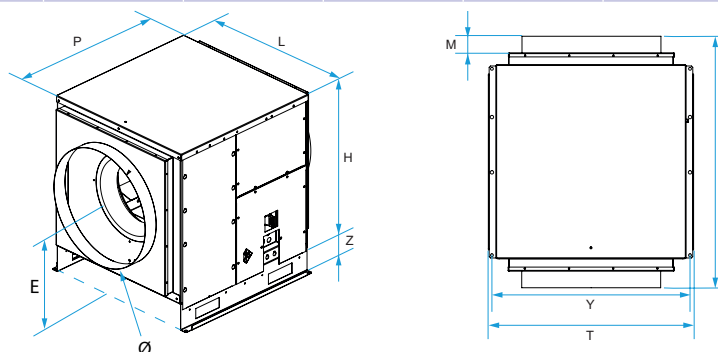
Airflow data

Variants	Airflow (m³/h)
11034643	12000

Electrical datas

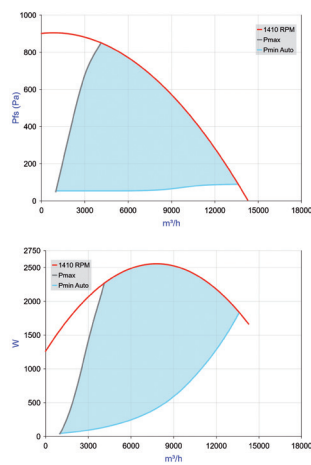| Variants	Maximum power (W)	Max. power	Max. power	Protection rating	Maximum current (A)	Power supply
11034643	3200	3,2	3200	IP24	20,5	Single-phase

Principles of operation
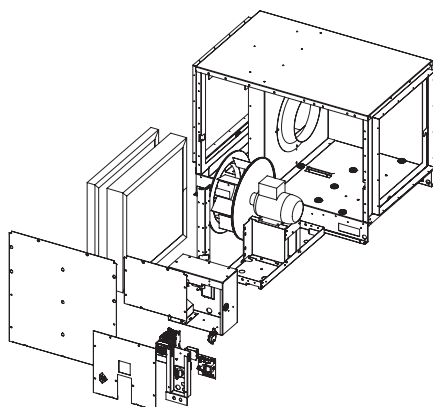
EasyVEC-MWPlus-12000

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Curve

> Aeraulic curves drawn up as per standard NF EN ISO 5801.
> P (Pa) = static pressure.
> P (W) = power consumption.