



**Standard for clean air**

## FlexiCube - multi-purpose unit for independent workshops with minimal volumes of dust and fumes

### General/ Applications

A high volume filtration system with automatic cleaning and disposal is not necessary for capturing only minimal amounts of pollutants.

The new FlexiCube with storage filters was specifically designed for smaller applications, further expanding the Ambi family of filters.

Multi-purpose for independent workshops with small dust loads, e.g.:

- Soldering
- Welding
- Laser marking and engraving
- Labeling
- 3-D printing
- Manual deburring stations
- Mixing stations

### Operation

Indoor air pollutants are extracted using suitable collection elements. The extracted air is filtered through various filter stages, in any combination, depending on the application.

An EC fan at the bottom is adjustable with a rotary control and supplies the required airflow and negative pressure for the extraction.

The cleaned air is then returned to the surrounding air through a bottom outlet. (See illustration above)

### Different filter media combinations in the filter stages

Different filter media combinations available for different applications, e.g.:

- Soldering: Demister + F7 + H13
- Welding: Demister + F7 + E11
- Welding stainless steel: Demister + F7 + H13

Accidental intake of sparks must be avoided. If this is not entirely preventable, a demister is required.

**Filter change** The filter can be conveniently changed through the hinged cover on top of the unit. The filter exchange interval depends on the dust load and is indicated by measuring the filter resistance using a differential pressure indicator.

**Types of dust / explosion prevention** FlexiCube is designed as a storage filter. Because it is safely grounded, it is suitable for almost all types of dust, as there are no EX zones inside the unit.

**Collection elements** Either a hose or an extraction arm (1.5 m) can be connected for direct extraction at a specific location.

- Advantages / special features**
- **High-performance** 99.95 percent separation efficiency for particle sizes of 0.1 - 0.3 µm (when using an H13 filter stage)
  - **Energy-efficient** drive with EC motor
  - **Easy to use** - Plug-and-play. Casters with a brake for secure positioning and quick repositioning. Operation is intuitive, power is infinitely variable.
  - **Robust and durable** with solid 2 mm sheet metal industrial design
  - **Compact and multi-purpose;** the optional combinations of different filter media makes it adaptable to a wide range of applications

## Technical data

		FlexiCube
<b>Max. air flow<sup>1</sup></b>	<b>m<sup>3</sup>/h</b>	1.500
<b>Operating air flow</b>	<b>m<sup>3</sup>/h</b>	1.000
<b>Motor</b>	<b>kW / V / Hz</b>	0,75 / 230 / 50
<b>1st filter stage</b>		Demister
<b>2nd filter stage</b>		ePM1 65% <sup>2</sup>
<b>3rd filter stage</b>		E 11 / H13
<b>Noise pressure level</b>	<b>dB(A)</b>	< 65 <sup>3</sup>
<b>Dimensions</b>	<b>mm</b>	610 x 610 x 1200
<b>Weight</b>	<b>kg</b>	120
<b>DN connection hose/suction arm</b>	<b>mm</b>	140
<b>Free pressure with a suction arm or hose connection</b>	<b>daPa</b>	40

<sup>1</sup> infinitely variable

<sup>2</sup> the new designation for F7 filter is ePM1 65 % according to ISO 16890

<sup>3</sup> at an operating air flow of 1,000 m<sup>3</sup>/h

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