

Technical specifications

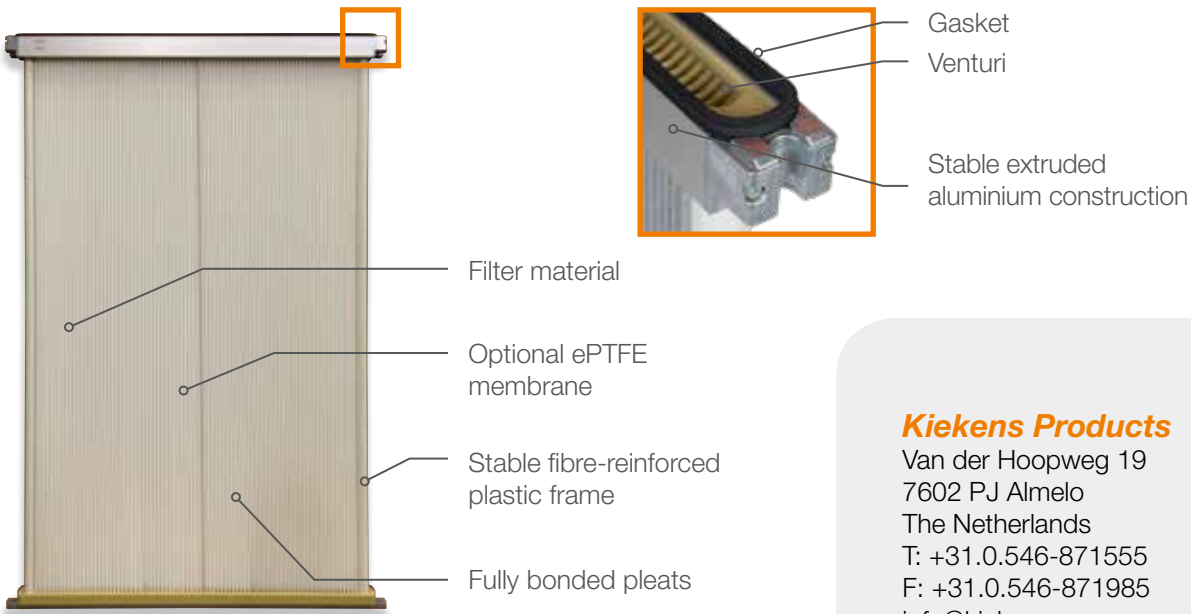
Specifications (single module)	DM10.000
Filter area [m²]	90
Filter type	Panels
Number of filters	10
Filter cleaning	Jet pulse
Filter cleaning control	FCCU, Filter Condition Control Unit
Air displacement (maximum) [m³/h]	7,500
Dust emission [mg/m³]	< 1
Main filter class [EN60335-2-69]	M
Hepa filter [m²] OPTIONAL	41 - 82
Hepa filter class [EN1822]	H14
Inlet diameter [mm]	355
Fan motor [kW]	4 - 15
Noise level (with extra noise insulation) [dB(A)] *	72 - 75 (70 - 72)
Dust container capacity [L]	70
Coating system	1-layer primer + 2K PU finish
Weight [kg]	approx. 850
Dimensions L x W x H [mm] **	1,060 x 1,715 x 3,700

* Measured at a 1-metre distance, outdoors ** Height dependent on model

Panel filter

Kiekens panel filters are characterised by a high degree of filtration and long service life. The filters retain their shape and are wear resistant thanks to the unique design. The large pleating and built-in venturi ensure that the filter can be thoroughly cleaned, even with 'difficult' types of dust.

The panel filters can be supplied in different materials that all comply with filter class "M" in accordance with EN60335-2 or better. Kiekens panel filters can achieve emissions lower than 1.0 g/Nm³.



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Dustmaster
DM10.000



Kiekens is an international company specialising in the design, supply, installation and maintenance of dust extraction systems, industrial vacuum cleaners and fans. We offer both series produced, as well as customer-specific systems suitable for a wide range of applications.

Kiekens Dustmaster DM10.000 series

The Kiekens Dustmaster DM10.000 dust extraction filters can be used in a wide variety of applications and can operate continuously with minimum maintenance in lighter as well as the heaviest industrial processes. The Dustmaster has increased reliability thanks to the use of the dependable Kiekens fans.

The modular structure provides maximum flexibility regarding installation locations and air volumes. The capacity of a single Dustmaster DM10.000 unit reaches up to 7,500 m³/h. Modules can also be linked together for even higher air volumes.

The Dustmaster DM10.000 is equipped with integrated fans as standard. Various impellers with different characteristics and motor power can be selected to combine optimum performance with the lowest possible energy consumption.

All fan modules are fitted with noise insulation to minimise the radiation of the housing and fan exhaust noise. An additional silencer can be fitted as an option.

ATEX



If required, the DM10.000 can be provided in accordance with ATEX 114 (Directive 2014/34/EU) for use in hazard zones 2 (gas) and 22 (dust). Protection is added to prevent the Dustmaster from becoming a source of ignition, ensuring it is pressure and shock resistant if explosion hazardous substances are vacuumed.

Kiekens has an extensive range of active and passive protection systems to safely discharge overpressure caused by an explosion or to suppress it at an early stage.

Advantages of the DM10.000:

- Proven Kiekens technology
- Energy efficient
- Solid welded steel design
- Effective filtration and residual dust emission < 1mg/Nm³
- Low noise level
- Low maintenance
- Various dust disposal options
- Modular design
- Dutch quality product

Areas of application

The Kiekens Dustmaster DM10.000 is ideally suited for the extraction of fine or health-hazardous dusts in the metal, plastic, glass, electrical, ceramic, chemical, food, paint and pharmaceutical industries.

Effective filtration

The large-sized filter housing with integrated pre-separation space is an important feature of the DM10.000.

The contaminated air in the pre-separation space is directed to the dust filter, resulting in regular airflow and low airspeed in the filter unit itself and therefore ensuring effective dust separation.

Deploying this type of technology ensures that 'difficult' dust types are easily separated and the life-time of the filters is extended. This results in a lower total cost of maintenance.



HEPA filter module (optional)

Low noise level

Can be linked modularly

Wide selection of available fans

Electronic filter management

Different filter surface treatments and materials available

Original Kiekens panel filters

Dust extraction through a hopper with a dust container, rotary valve, screw or customer-specific version