



DM20.000

We breathe around twenty thousand times a day. That's why the air we inhale should always be clean. Free from harmful and dangerous substances. Our turnkey dedusting systems and customized solutions improve air quality in every sector where dust extraction is essential. With over 100 years of experience, we know the challenges, opportunities and requirements better than anyone. Our specialists are skilled and creative, our solutions are tailor-made and our products are robust and technologically advanced. This way, Kiekens works on a world where a safe, healthy and clean working environment is self-evident. Just like breathing itself. That's how we keep not only people, but also resources and machines in top condition. Day in, day out.

The DM20,000 series can be applied to a wide range of industrial processes – from light to the most demanding. Thanks to its modular design, this series offers maximum flexibility in both setup and air volumes. Choose a vertical configuration when floor space is limited, or a horizontal setup when height is restricted. Standard capacity reaches up to 60,000 m³/h. By linking modules, even higher air volumes can be handled efficiently.

Key features

- Proven Kiekens technology
- Modular design
- Robust steel construction
- Effective filtration, emissions <math><0.5 \text{ mg/Nm}^3</math> in standard execution
- Energy-saving Jet-Pulse filter cleaning with intelligent control
- Low maintenance
- Low noise level
- Standard dust discharge via 80L dust container on wheels (other options available)
- Dutch product

Options

- Dust discharge via rotary valve, pendulum valve, screw conveyor or custom solution
- Wide choice of Kiekens fans (integrated or separate)
- Certified ATEX versions according to the latest standards, with explosion venting or suppression
- HEPA filters (integrated or in separate module)
- Special surface treatments or alternative materials

'Maximum flexibility in configurations and air volumes.'



Robust steel construction



Low noise level



Long lifespan



Dutch product



Effective filtration

A key feature of the DM20,000 series is the application of the downflow principle in combination with a generously dimensioned filter housing. This directs the contaminated air towards the dust particles, resulting in more efficient separation. The outcome is a calm airflow and low air velocity inside the filter unit, ensuring even the most challenging dust types are separated without issues and the filter lifespan is extended.

Filter elements

The lamella filters, specially developed for Kiekens, are characterized by a high filtration efficiency and long service life. Thanks to their robust construction, they are extremely shape- and wear-resistant. The wide pleating ensures easy cleaning, even with difficult

dust types. As standard, these lamella filters are made of polyester. Optionally, they can be supplied with a PTFE (Teflon) membrane and/or in an antistatic version. Filters in polypropylene, with a microporous coating, or designed for high-temperature applications are available on request. With Kiekens lamella filters, emission levels below 0.5 mg/Nm^3 are achievable.

Easy and safe maintenance

The Kiekens Dustmaster DM20,000 series is equipped with inspection doors on the clean air side and hatches on the dirty air side, keeping inspection time to a minimum. The filter plates can be removed from the clean air side, minimizing the risk of contamination when handling hazardous substances during the rare event of a filter replacement.

Reliable operation

Continuity and reliability of production processes are crucial. That is why the Dustmaster DM20,000 has been developed as a filter unit that can operate continuously in both light and heavy-duty industrial processes, with minimal maintenance. Reliability is further enhanced by the use of Kiekens fans, which have more than proven their durability.

Jet-Pulse cleaning

The Jet-Pulse cleaning system cleans the filters with a powerful and effective burst of compressed air. This system uses a generously sized compressed air reservoir with membrane valves attached, ensuring consistent and efficient filter cleaning.

ATEX

When dealing with explosive dust, the DM20,000 can be supplied in ATEX 114 (Directive 2014/34/EU) certified versions. In these cases, the Dustmaster is designed to ensure that the unit itself cannot form an ignition source. If explosive dust is extracted, the Dustmaster is pressure-, impact- and shock-resistant. Kiekens also offers a wide range of active and passive protection systems to safely vent or suppress any overpressure caused by an explosion. Our specialists are happy to advise you.



Information without fan

Module	1/1	1/2	2/2	2/3	3/3
Maximum number of filter elements	10	20	40	60	90
Filter surface (m ²)	90	180	360	540	810
Soundlevel filter cleaning (dB(A))*	< 74	< 74	< 74	< 74	< 74
Weight (kg)**	(n.v.t.)	(n.v.t.)	(n.v.t.)	(n.v.t.)	(n.v.t.)
Dimensions L x W x H (mm)***	approx. 1500x1000x2000	approx. 1500x2000x2000	approx. 3000x2000x2000	approx. 3000x3000x2000	approx. 4500x3000x6000

*at 3.5 barg with an interval of 60 seconds at a distance of 1m under free field conditions **standard version without fan

***standard, final dimensions depending on version