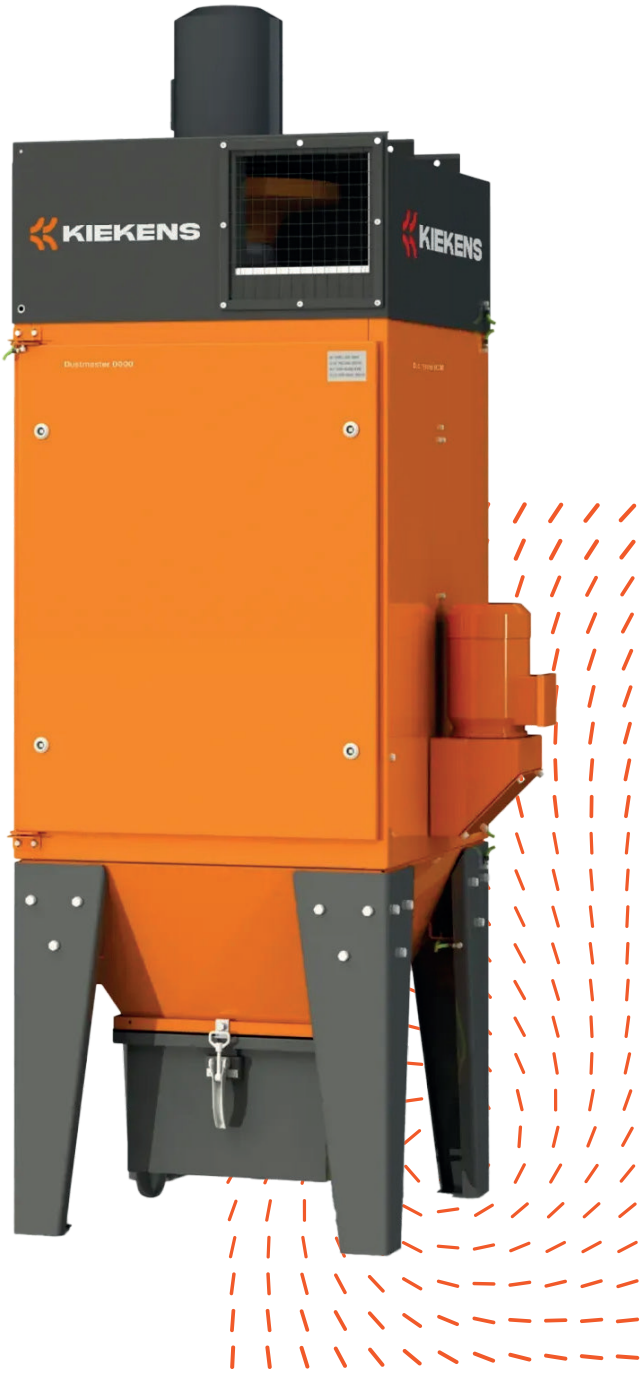
# DM4000 - DM5000

In today's industry, a clean and safe working environment is essential. Dust and other contaminants can not only harm the health of your employees but also negatively impact the efficiency of your production process. The Kiekens Dustmaster DM4000 offers the solution. This reliable dust separator ensures optimal filtration, providing you with a clean, safe, and productive workplace. The DM4000 envelope filter is a robust machine designed for discontinuous processes and light dust loads. Thanks to its compact design and modular structure, the DM4000 can be configured to meet your specific needs. This allows for optimal adaptation of the filter units and makes installation possible even in confined spaces.

The proven technology—featuring an integrated fan and mechanical filter cleaning—is the foundation for effective extraction and filtration across various processes, all at low investment and maintenance costs. The Dustmaster DM4000 is designed for easy integration into existing production environments. Its modular design allows for customization to specific requirements, while its compact construction guarantees space-saving installation.

## Key benefits

- **Compact design:**
  The Dustmaster DM4000–DM5000 features a compact footprint, making it easy to integrate into your existing production setup.
- **Easy implementation:**
  Available as a plug-and-play extractor with integrated controls, the DM4000 can be quickly and easily connected to your process.
- **Low maintenance requirements:**
  Thanks to its robust and simple design, the DM4000 requires minimal maintenance. The integrated fan with silencer ensures low noise levels.
- **Long service life:**
  The sturdy welded steel cylindrical construction guarantees a long operational lifespan.




'The Kiekens DM4000 is particularly suitable for discontinuous processes with low dust loads.'

- Robust steel construction
- Hepa filter optional
- High suction capacity
- Low noise level
- Long lifespan
- Dutch product
- ATEX

# Specifications

## Key application areas:
- Dust extraction from mixing installations
- Dust control for silos and tanks
- Extraction from filling systems
- Dust removal in production areas
- General extraction applications

## Used in various industrial sectors:
- Bulk handling
- Food industry
- Chemical industry
- Blasting installations
- Wood processing industry
- Stone, cement, and more

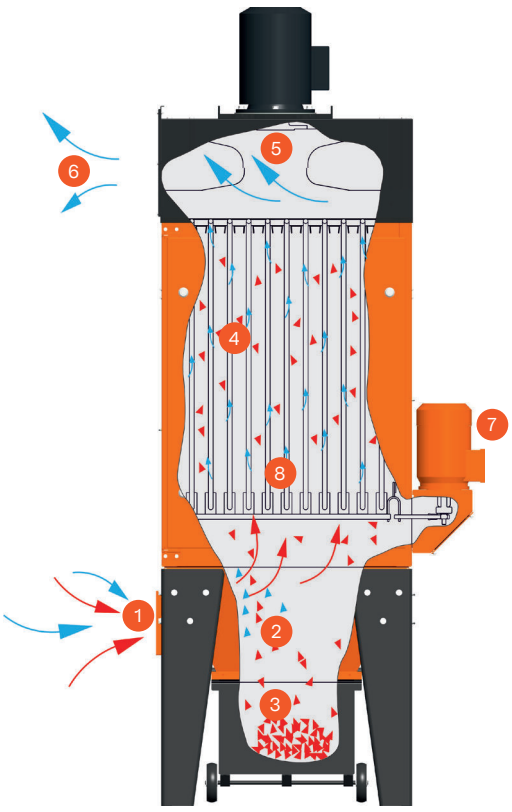
## Available options:
- ATEX-compliant version
- HEPA filter module
- Multiple dust discharge options: dust bin, rotary valve, big bag, etc.
- Outdoor installation
- Stainless steel construction

## Kiekens offers comprehensive service & support:
- Installation and commissioning
- Maintenance and repairs
- Technical support
- Training for your staff

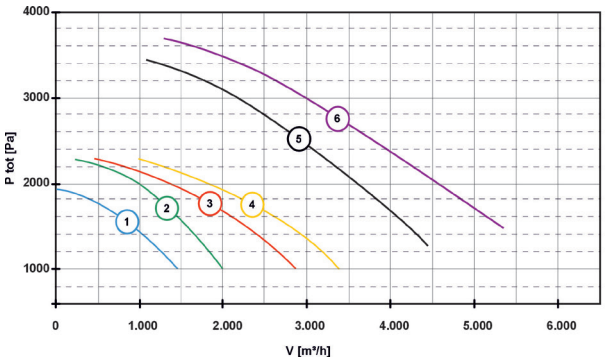
The Kiekens Dustmaster DM4000 is the ideal solution for creating a clean, safe, and productive working environment. Thanks to its high performance, reliability, and versatility, the Dustmaster DM4000 is perfectly suited for a wide range of applications and industries. Contact us today for more information or a no-obligation quote.

| | DM4000 | DM5000 |
|---|---|---|
| Filtertype | Multi pocket filter | |
| Filter class (EN 60335-2-69) | L / M | |
| Filter efficiency (%) | 99 / 99,9 | |
| Filter surface ($m^2$) | 12,5 | 23,5 |
| Air displacement maximum ($m^3/h$) | 2.500 | 4.000 |
| HEPA filter class* | H14 | |
| Filter efficiency Hepa (%) | 99,997 | |
| HEPA filter surface | 41 | 41 / 62 |
| Filter cleaning | by filter shaker motor | |
| Filter control | by solid state timer in control panel | |
| Inlet adaption with flange (mm) | 125, 160, 180, 224 | 180, 224, 280, 315 |
| Fan motor (kW) | 0,75 - 2,2 | 2,2 - 4,0 |
| Soundlevel (dB(A))** | < 75 | |
| Dust container capacity (L) | 55 | 70 |
| Color | RAL2004/7021 (orange/grey) | |
| Weight (kg) | 270 | 380 |
| Dimensions L x W x H (mm)*** | 800 x 800 x 2.400 | 1.050 x 1.050 x 2.600 |

*optional **tolerance 2 dB(A) ***dimensions standard version




## Relationship between static vacuum and air movement




Fans
1) DM41xx - 12KV224 - 0,75kW
2) DM42xx - 8KT224 - 1,1kW
3) DM43xx - 6FT280 - 1,5kW
4) DM44xx - 12FS280 - 2,2kW
5) DM45xx - 6KT280 - 3kW
6) DM46xx - 8KT280 - 4kW

## Operation

he DM4000 series is a semi-continuous use filter, meaning the cleaning process occurs offline and only begins once the fan is switched off. A timer in the control cabinet automatically starts the cleaning cycle after the Dustmaster has been shut down. Once the fan has come to a complete stop, the filter's vibration motor is activated, initiating the cleaning process for a preset duration.

During operation, dust-laden air enters the Dustmaster through the dirty air inlet ①. Upon entry, the airflow slows down, allowing natural pre-separation by gravity ②. Heavier particles are immediately directed towards the hopper or dust bin ③. Finer and lighter dust particles accumulate on the surface of the filter bags ④, where they are captured before the airflow proceeds toward the fan ⑤. The clean air then exits the Dustmaster through the clean air outlet ⑥.

After shutdown, the filter is cleaned by the vibration motor ⑦ and shaking mechanism ⑧. During the cleaning cycle, the dust that has built up on the filter surface falls into the hopper or dust bin ③.