



bomaksan[®]
INDUSTRIAL AIR FILTRATION SYSTEMS



MikroFIL Series

JET-PULSE HIGH VACUUM UNITS

GENERAL FEATURES



COMPACT

Bomaksan brand MikroFIL series Jet-Pulse high vacuum fume extraction units occupy less space due to their compact design. They include all accessories and are a plug & play devices.



ECONOMIC

Bomaksan brand MikroFIL series Jet-Pulse high vacuum fume extraction units offer high performance, low electric consumption, and low initial investment costs as they can extract fume from the closest point to the source.



ROBUST AND LEAKPROOF

The side and top covers, reinforcement profiles, chassis, and supporting feet of the cabinet are produced with suitable sheet thicknesses, bent by pressing and assembled with bolt nuts to ensure leakproof construction.



SILENT

Bomaksan brand MikroFIL series Jet-Pulse, high vacuum fume extraction units, enhance the air quality of your factory without causing noise pollution, thanks to specially designed sound-insulated fan and cabinet.



AUTOMATIC CLEANING

With the integrated compressed air tank and jet-pulse cleaning system, the unit automatically cleans the clogged filters and operates without requiring maintenance for a long time. Filter replacement costs are low.



EASY MAINTENANCE

Thanks to the specially designed cartridge filters and Dust Bucket for Bomaksan brand MikroFIL series Jet-Pulse high vacuum fume extraction units, your time and labor costs for filter maintenance are minimized.

SCOPE OF APPLICATION



Metalworking



Robotic Applications

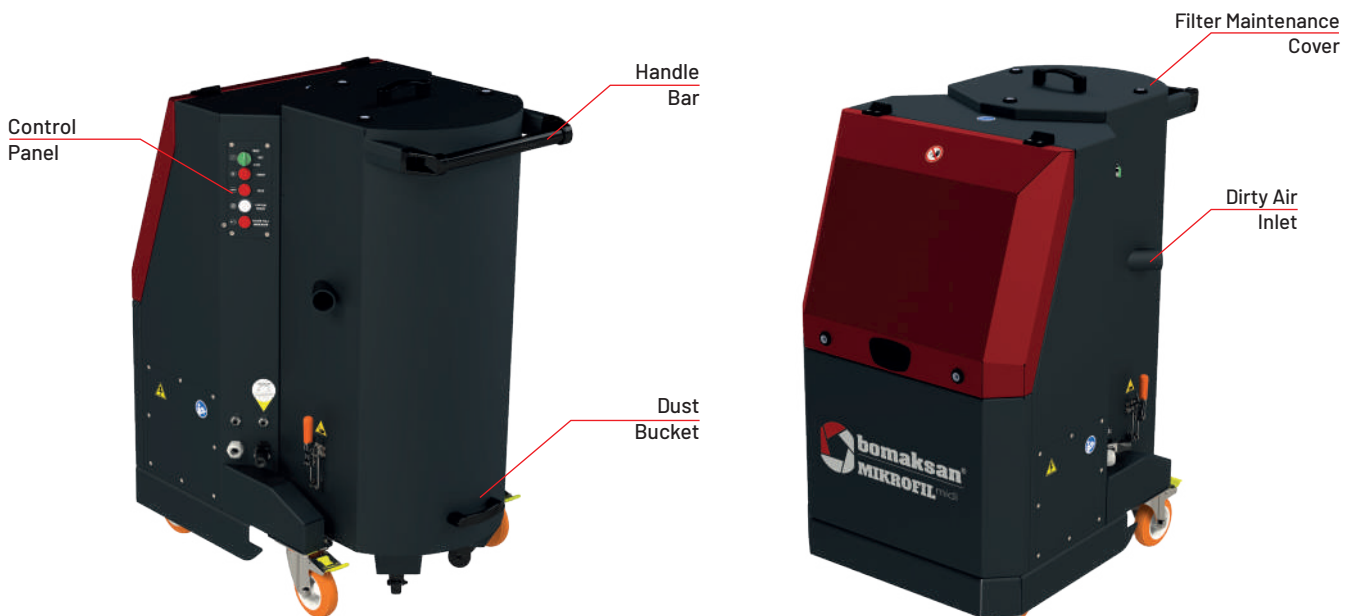


Grinding&Polishing



Welding Fumes

OVERVIEW



ACCESSORIES

STANDARD ACCESSORIES

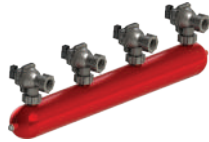
● BRUSHLESS TURBO BLOWER

Highly efficient brushless turbine fans are ideal for meeting high vacuum requirements. Thanks to the specially designed dynamic balance adjustment, the fans produce low vibration and noise levels. With its brushless design, it requires no constant maintenance and operates smoothly for a long time.



● JET-PULSE CLEANING SYSTEM

The automatic jet-pulse cleaning system accessories allow long-term use without changing the filters. The durable pulse valves with aluminum body and the high-pressure vessel technique-compliant air tube provide efficient cleaning.



● CONTROL PANEL

The control panel that controls the operation of the filter unit enables operation in Manual and AUTO modes. The System Ready light prevents incorrect operation due to phase sequence errors. The Filter Full warning light illuminates when the filters reach a certain capacity. In this case, the filter needs to be replaced or cleaned. The MikroFIL series filter units are manufactured in accordance with machine safety directives and have a CE compliance



OPTIONAL ACCESSORIES

● COMPRESSED AIR REGULATOR

The compressed air regulator ensures that the compressed air from the compressor is delivered to the air tube at the correct pressure and in a dry state. This prevents damage to the filters by controlling the filter cleaning pressure.



● FUME EXTRACTION TORCH

The fume extraction torch is used in manual welding and robotic welding applications to enable efficient suction directly from the torch. It is an accessory that allows suction at the closest point of fume generation. Options are available for both air-cooled and water-cooled systems.



● CARTRIDGE FILTER

Cartridge filters with nanofiber-coated surfaces, consisting of 80% Cellulose and 20% Polyester, are standard in the MikroFIL series with an F9 filtration efficiency. The special PLEAT-LOCK pleating technique ensures equal pleat spacing at all times.

(For more details, see p. 4)



● DUST BUCKET

The dust bucket is an accessory with a secure sealing gasket that allows the collected dust to be safely collected and easily disposed of. The easily attachable and detachable dust collection bucket minimizes maintenance time.



● FLEXIBLE SUCTION HOSE

The MikroFIL series Jet-Pulse high vacuum smoke extraction units effectively remove the dust and fume through the suction accessory. The flexible suction hoses that complement this assembly are made of high-quality materials and offer a durable structure for long-lasting use. Designed specifically for industrial environments, these hoses resist heavy usage and provide reliable performance. With their flexibility, the suction hoses can adapt to various application areas.



CARTRIDGE FILTER



According to DIN EN 60335-2-69 standard, it has a filter efficiency of up to 99.9% for dust particles in the range of 0.4–2 μm , classified as M class.



It allows for quick and easy replacement without the need for any additional tools.



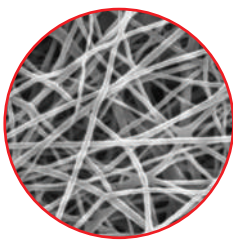
Enables longer usage without losing filtration efficiency.

Bomaksan brand MikroFIL series Jet-Pulse, high vacuum fume extraction units, uses high-efficiency nanofiber-coated cartridge filters as a standard feature. The superior PLEAT-LOCK pleating technique ensures equal pleat spacing, allowing for better filter cleaning.

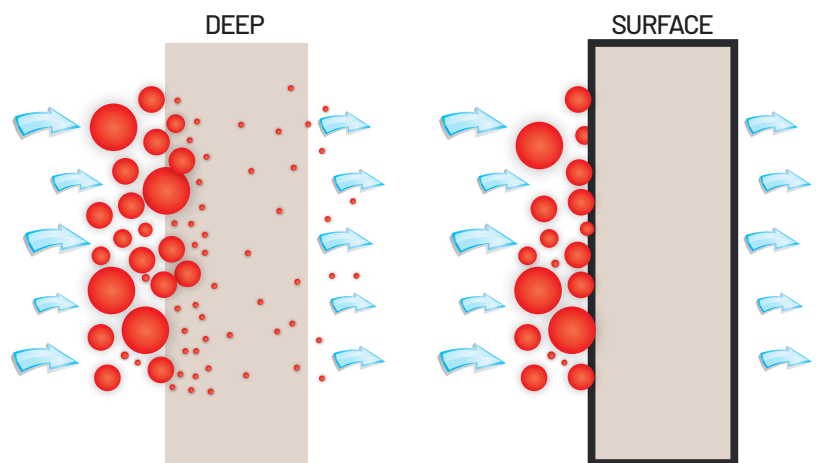
Based on the application and type of dust, Bomaksan engineers provide you with the most suitable filter material. Some filter materials that can be used based on factors such as the presence of a static charge, dust density, and humidity level, include:

- polyMIGHT 55: 100% spunbond non-woven polyester
- polyMIGHT HO 55: hydrophobic coating on polyMIGHT 55
- polyMIGHT ALU: aluminum coating on polyMIGHT 55 (Antistatic)
- polyMIGHT PTFE 65: ePTFE membrane coating on polyMIGHT 55
- polyMIGHT ALU PTFE: ePTFE membrane coating on polyMIGHT ALU
- nanoBLEND FR: mixture of 80% Cellulose and 20% Polyester with nanofiber coating

SURFACE FILTRATION



Cartridge filters used in Bomaksan brand filter units perform filtration on the surface, unlike traditional filters that act filtration within the filter itself. This provides the following advantages:



- It prolongs the life of the filters by preventing dust from penetrating the internal structure of the filter.
- It reduces the required consumption of compressed air for cleaning by generating lower differential pressure.
- It provides higher filtration efficiency.



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RELIABLE • SUSTAINABLE • EXPERIENCED • GLOBAL • QUALITY FOCUSED

Authorized Dealer



Bomaksan reserves the right to change the specifications in the brochure without prior notice due to the developments in the products.

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