

MT-41/MT-42

Oil mist/smoke Mechanical Filters



MT-42
Oil mist
Oil smoke

MT-41
Oil mist

MT-42
Oil mist
Oil smoke

Description

The MistTerminator (MT) is a modular filtration system that captures oil smoke/mist. For handling oil mist, you shall choose the MT-41. If you need to handle both oils mist and oil smoke you require MT-42 that contains an additional HEPA filter. All MT filter units and filter banks are modular and can be tailored to your needs (See page 92-93).

Processes and applications

- Cutting, boring, drilling, honing using various metalworking equipment and CNC machine tools
- Cold pressing and stamping operations
- Hardening and wet grinding of metal

Technical characteristics

Description	MT-31 art. 5290	MT-32 art. 5293	MT-41 art. 5296	MT-42 art. 5299
Airflow, m ³ /hour, max	3,000	3,000	2,000	2,000
Pressure loss (for calculation purposes), Pa	700	1,200	1,300	1,500
Weight, kg	98	134	104	138
Filtration class: DIN EN 779(F9)/ DIN EN 1822 (H13); ASHRAE 52.2(MERV15/MERV16)	F9/MERV15	H13/MERV16	F9/MERV15	H13/MERV16
Negative pressure (max.), Pa	4,000			
Oil receiver capacity (makes part of the delivery package), l	8			
Inlet diameter, mm	2x250 (1 inlet connection piece and 1 plug in the package)			
Diameter of connecting flange sFF-DUCT/250 airduct (to be ordered additionally), mm	250			
sFF-FAN-B connecting flange (for VMA-3000-4700 fans)	250			
Maximum pressure drop on the filtering element, at which it should be replaced (control over the pressure drop is realized by readings of the differential manometer in built into the door of every filtration stage), Pa				
BFMT-31 Bag filter (for MT-31, MT-32)	500			
OC-1 Filter cartridge, 1st stage. Self-draining (for MT-41, MT-42)	500			
OC-2 Filter cartridge, 2st stage. Self-draining (for MT-41, MT-42)	800			
HFMT-3. HEPA filter (for MT-32, MT-42)	800			
Capacity and amount of OilContainer oil receivers (makes part of the delivery package)	8 l /1 piece			

Delivery set see page 98

Design and operating principles

6 stage (MT-42)

Stage 6 (MT-42)
HEPA-filter (MT-42)
 (ultra fine cleaning, class of filtration MERV 16 ASHRAE 52.2 or H13 DIN EN 1822)

5 stage (MT-41)

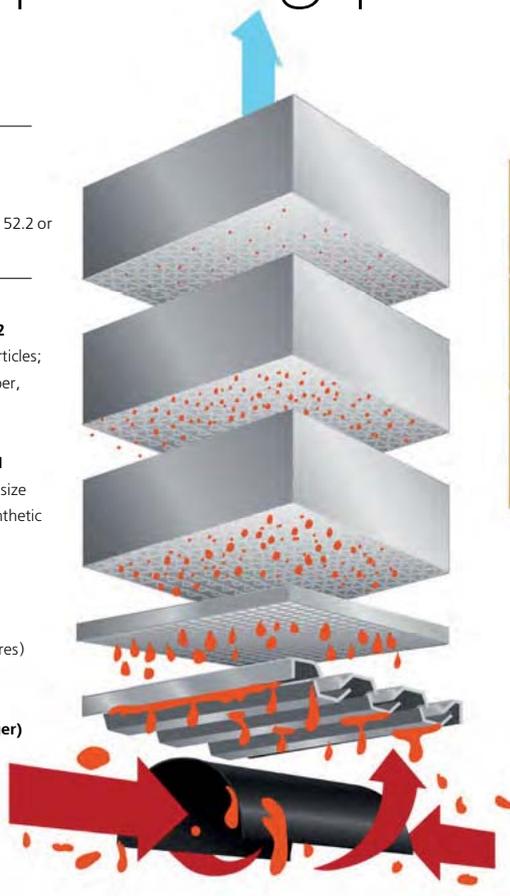
Stage 5 (MT-41)
Self-draining cartridge OC-2
 (main filter, captures small particles; 24m², polyolefine synthetic fiber, ASHRAE 52.2 MERV15)

Stage 4 (MT-41)
Self-draining cartridge OC-1
 (main filter, captures medium size particles; 16m², polyolefine synthetic fiber, ASHRAE 52.2 MERV8)

Stage 3
Net pre-filter
 (captures mechanical admixtures)

Stage 2
Labyrinth type filter (impinger)
 (stops large and medium size aerosol particles)

Stage 1
Inlet with a screen for liquid fraction and drops



Return drain pipe
 The oil is drained back either to a collector tank or back to the machine.

