ME-41/ME-42

MIST ELIMINATOR; 5- AND 6-STEP FILTRATION

The MistEliminators ME-41 and ME-42 are stationary filter units for mainly oil mist applications, to be used in machine tool processes. This comprises basically any process that uses metal working fluids like oil or an emulsion to cool or lubricate the operation.

The ME-41 is based on a 5-step filtration method which allows for exhaust to the atmosphere. In case of recirculation, it is recommended to use the ME-42 which is fitted with an additional HEPA filter.



ME-42

APPLICATIONS

The ME-41 and ME-42 are intended to be used for the following applications:



- metal working processes with "clean" or recycable low viscosity oil as a residue; e.g.
 - CNC machining centers for cutting, boring, drilling and
 - machines for metal forming operations like cold heading and stamping
 - oil mist produced by heat and surface treatments like hardening and wet grinding

Do not use the ME-41 and ME-42 for the following applications or in the following circumstances:



- oxy-fuel cutting
- aluminium laser cutting
- · arc-air gouging
- paint mist
- extraction of hot gases (more than 45°C/113°F continuously)
- · grinding aluminium and magnesium
- flame spraying
- extraction of cement, saw dust, wood dust, grit etc.
- explosive environments or explosive substances/gases Note: this list is not all-embracing.

SPECIFICATIONS

■ Physical dimensions and properties		
Housing: • steel grade	electro-zinc coated steel (according to DIN EN 10152) • DC01+ZE	
steel grade no.	• 1.0330	
Colour: • air inlet module • filter modules	• grey RAL 7011 • grey RAL 7035	
Weight (net): • ME-41 • ME-42	• 104 kg (229 lbs) • 138 kg (304 lbs)	
Filters		
Filter class: • ME-41 • ME-42	F9 according to EN 779H13 according to EN 1822	
Pressure drop: • ME-41 • ME-42	• 1300 Pa (5.1 in. WG) • 1500 Pa (6.0 in. WG)	
Negative pressure	max. 4000 Pa (16 in. WG)	

■ Performance	
Airflow ¹	max. 2000 m³/h (1175 CFM)
Ambient conditions	
Operating temperature: • min. • nom. • max.	• 5°C (41°F) • 20°C (68°F) • 45°C (113°F)
Max. relative humidity	80%
Outdoor use allowed	no
Storage conditions	• 5-45°C (41-113°F) • relative humidity max. 80%
Options and accessor	ries
CFD	constant flow damper
ME-F1/F2	fan module
FUA fan series	for direct mounting on MistEliminator
FF-DUCT-250	duct connection Ø 250 mm (9.8 in.)
FF-FAN-S/1300-2100	filter-fan adapter
FF-FAN-B/3000-4700	filter-fan adapter
FF-RACK	floor rack
■ Scope of supply	
Assembled filter unit - Duo container	ct cap Ø 250 mm (9.8 in.) - Oil
Order information	
MistEliminator: • ME-41 • ME-42	Article no.: • 0000100795 • 0000100800
Number/package	1

Max. airflow is a ceiling value and generally not recommended as a design value for operating the ME unit, as it might lead to short lifespan of filters. The performance of the ME unit is next to airflow influenced by other variables like amount and composition of metal working fluid, process, temperature and pre-treatment. Ask your local expert on the recommended airflow for your system design.

■ Shipping data	
Gross weight (incl. pallet): • ME-41 • ME-42	• 134 kg (295 lbs) • 172 kg (379 lbs)
Max. number/pallet	1
Harmonized Tariff Code	8421.39.2090
Country of origin	Netherlands

FILTER STAGES



- 1 **Air inlet module**; pre separator that distributes the air and prevents large particles from entering the filter package
- 2 **HydroFilter**; impinger to separate oil droplets and coalesce oil mist into droplets
- 3 **Aluminium mesh pre filter** to keep larger particles
- 4 OC-1; self-draining cassette filter that coalesces oil mist to droplets and collects medium sized particles
- **OC-2**; self-draining cassette filter that coalesces oil mist to droplets and collects *fine* particles
- 6 **HEPA filter** for final filtration (ME-42 only)

FEATURES

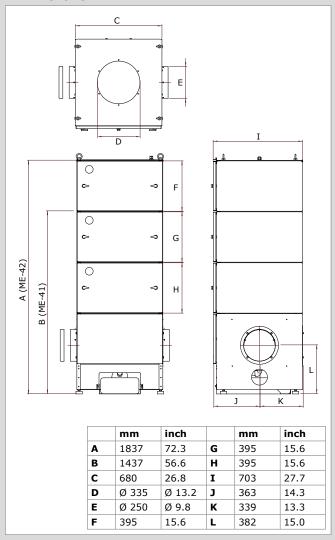
A differential pressure gauge on each filter module indicates status and need for filter replacement.



Easy to handle oil container. Volume: 8 liters (2 gallon).



DIMENSIONS



Product type
Article no.
Product category

ME-41 / ME-42

refer to order information

oil mist filters 221216/D

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