

ME-31/ME-32

MIST ELIMINATOR; 4- AND 5-STEP FILTRATION

The MistEliminators ME-31 and ME-32 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-31 is based on a 4-step filtration method which allows for exhaust to the atmosphere. In case of recirculation, it is recommended to use the ME-32 which is fitted with an additional HEPA filter.



ME-31

ME-32

APPLICATIONS

The ME-31 and ME-32 are intended to be used for the following applications:

- metal working processes with "polluted" or burnt high viscosity oil/emulsion as a residue; e.g.:
 - CNC machining centers for cutting, boring, drilling and honing
 - 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-31 and ME-32 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:	electro-zinc coated steel (according to DIN EN 10152)
• steel grade	• DC01+ZE
• steel grade no.	• 1.0330
Colour:	
• air inlet module	• grey RAL 7011
• filter modules	• grey RAL 7035
Weight (net):	
• ME-31	• 98 kg (207 lbs)
• ME-32	• 134 kg (295 lbs)

Filters

Filter class:	
• ME-31	• F9 according to EN 779
• ME-32	• H13 according to EN 1822
Pressure drop:	
• ME-31	• 700 Pa (2.7 in. WG)
• ME-32	• 1200 Pa (4.75 in. WG)
Negative pressure	max. 4000 Pa (16 in. WG)

Performance

Airflow ¹	max. 3000 m ³ /h (1750 CFM)
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Ambient conditions

Operating temperature:	
• min.	• 5°C (41°F)
• nom.	• 20°C (68°F)
• max.	• 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 accessories

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 - Duct cap Ø 250 mm (9.8 in.) - Oil container

Order information

MistEliminator:	Article no.:
• ME-31	• 0000100785
• ME-32	• 0000100790
Number/package	1

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):	<ul style="list-style-type: none"> • ME-31 • ME-32
Max. number/pallet	1
Harmonized Tariff Code	8421.39.2090
Country of origin	Netherlands

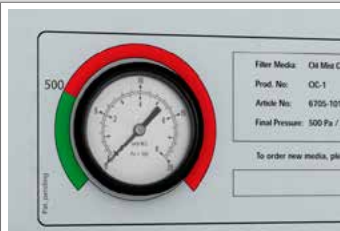
FILTER STAGES



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	Bag filter for main filtration
5	HEPA filter for final filtration (ME-32 only)

FEATURES

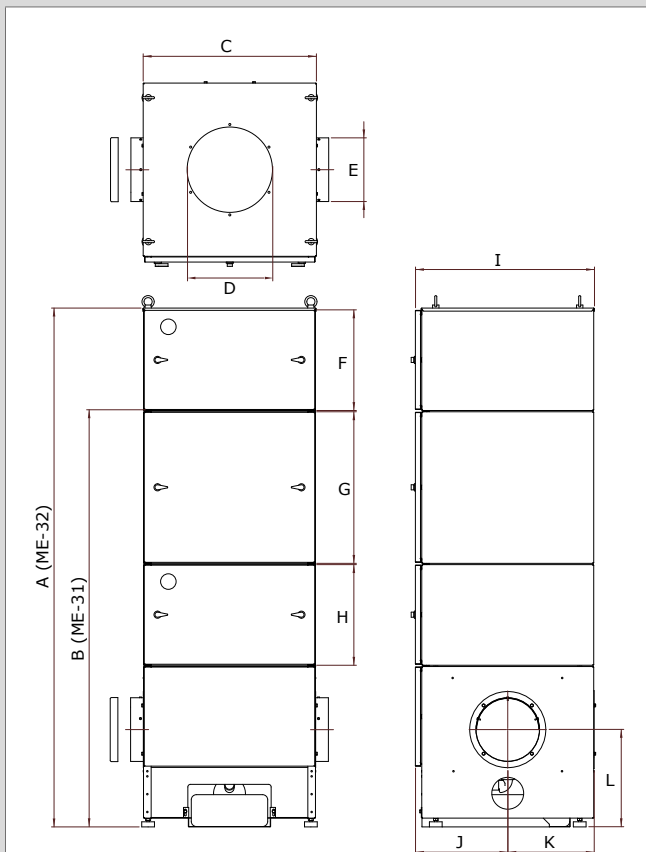
A differential pressure gauge on each filter module indicates status and need for filter replacement.



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



DIMENSIONS



	mm	inch		mm	inch
A	2037	80.2	G	595	23.4
B	1637	64.4	H	395	15.6
C	680	26.8	I	703	27.7
D	∅ 335	∅ 13.2	J	363	14.3
E	∅ 250	∅ 9.8	K	339	13.3
F	395	15.6	L	382	15.0

Product type	ME-31 / ME-32
Article no.	<i>refer to order information</i>
Product category	oil mist filters
Version	221216/D

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