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 honina
 - 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 a	Physical dimensions and properties			
Housing: • steel grade • steel grade no.	electro-zinc coated steel (according to DIN EN 10152) • DC01+ZE • 1.0330			
Colour: • air inlet module • filter modules	• grey RAL 7011 • grey RAL 7035			
Weight (net): • ME-31 • ME-32	• 98 kg (207 lbs) • 134 kg (295 lbs)			
Filters				
Filter efficiency • ME-31	ISO ePM1 90% according to EN ISO 16890			
Filter class • ME-32	H13 according to EN 1822			
Pressure drop: • ME-31 • ME-32	• 700 Pa (2.7 in. WG) • 1200 Pa (4.75 in. WG)			

Negative pressure	max. 4000 Pa (16 in. WG)			
Performance				
Airflow ¹	max. 3000 m ³ /h (1750 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 accessori	es			
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 container	: cap Ø 250 mm (9.8 in.) - Oil			
Order information				
MistEliminator: • ME-31 • ME-32	Article no.: • 0000100785 • 0000100790			
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.

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Shipping data	
Gross weight (incl. pallet): • ME-31 • ME-32	• 124 kg (273 lbs) • 164 kg (362 lbs)
Max. number/pallet	1
Harmonized Tariff Code	8421.39.2090
Country of origin	Netherlands

FILTER STAGES



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
Α	2037	80.2	G	595	23.4
в	1637	64.4	н	395	15.6
С	680	26.8	I	703	27.7
D	Ø 335	Ø 13.2	J	363	14.3
Е	Ø 250	Ø 9.8	к	339	13.3
F	395	15.6	L	382	15.0

L

Product type Article no. Product category Version **ME-31 / ME-32** refer to order information oil mist filters 100821/E

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