

# AE20-150, AE20-250

## Oil smoke filter



- Captures 99.97% of oil smoke with HEPA and multi-stage filter
- Catch&Release™ system drains oil automatically and extends filter life
- Automatic airflow control cuts energy use and boosts performance
- Easy services without tools and lifting equipment
- Real-time IoT monitoring of air quality and filter status

## High-performance filter units for oil smoke removal

AE filter units stop oil smoke at the source with advanced 4-stage filtration built on proven Absolent technology. The final HEPA stage captures even the finest particles, ensuring high air quality in continuous operations. A quiet, energy-efficient fan system and minimal maintenance design ensure high uptime and low costs. With eight modular models, the AE range delivers precise filtration capacity tailored to your process.

## Function

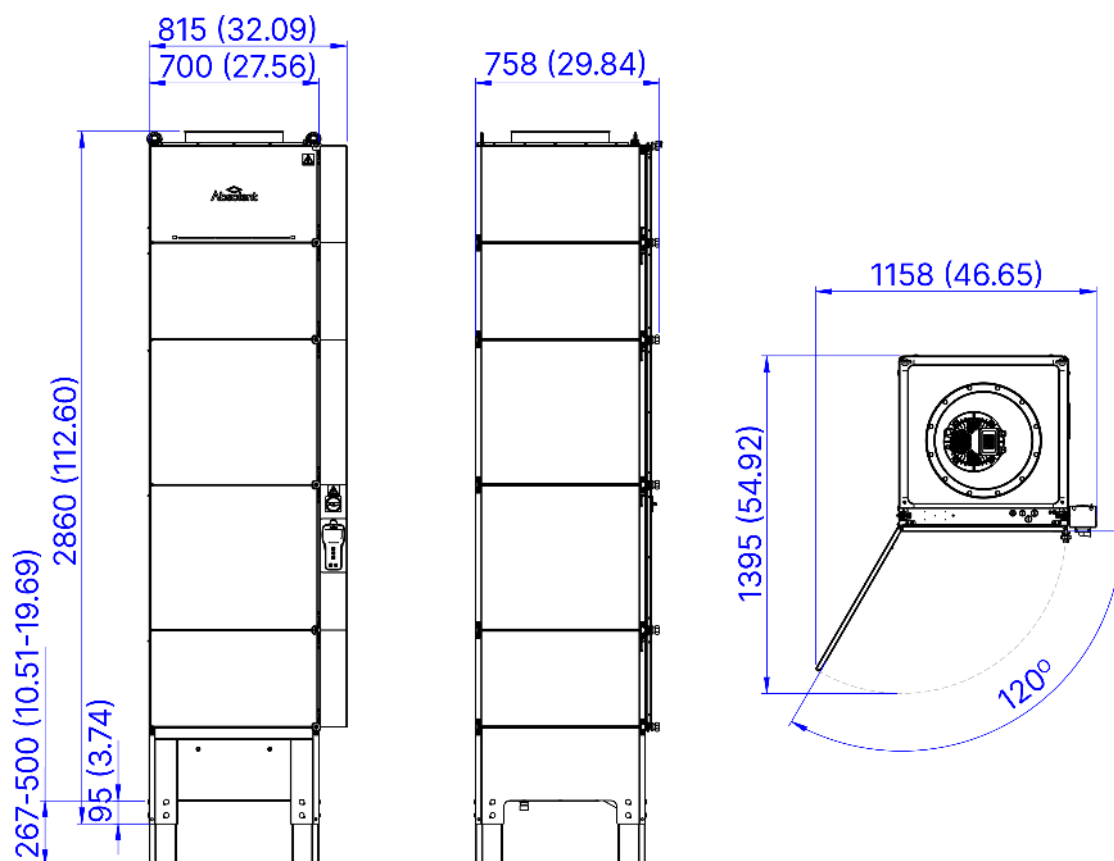
The AE-range is a series of advanced multi-stage filtration units that efficiently capture airborne oil smoke particles. Configurable with 2-4 filter stages, the system ensures high filtration efficiency and adaptability across various machining operations. The tilted filter design optimizes drainage and extends filter life, while the prefilter captures sticky particles early, reducing wear on primary filters. The final stage incorporates a HEPA H13 filter to enable the safe recirculation of clean air into the production space. Adaptive fan control, powered by energy-efficient EC or VFD motors, adjusts airflow in real time to meet process demands, significantly reducing energy consumption. The post-run fan function improves safety and air

## Applications



## Dimensions

AE20-150, AE20-250



## Technical specifications

### AE20-150, AE20-250

	AE20-150	AE20-250
<b>General</b>		
Application	Machining, Grinding, Die Casting Rubber/Plastics, Forming/Pressing, Heat Treatment	Machining, Grinding, Die Casting Rubber/Plastics, Forming/Pressing, Heat Treatment
Nominal airflow	2 000 m <sup>3</sup> /h (1180 cfm)	2 000 m <sup>3</sup> /h (1180 cfm)
Particle load	150 mg/m <sup>3</sup>	250 mg/m <sup>3</sup>
External pressure drop	700 Pa	200 Pa
Energy class	IE5	IE5
Colour	RAL 7035 SK-3	RAL 7035 SK-3
Ip rating	IP55 <sup>1</sup>	IP55 <sup>1</sup>
<b>Connections</b>		
Inlet type	Flanged pipe connector	Flanged pipe connector
Inlet diameter	200 mm (7.87 in)	200 mm (7.87 in)
Inlet placement	Rear (std), optionally left, right, front	Rear (std), optionally left, right, front
Outlet type	Free flow <sup>2</sup>	Free flow <sup>2</sup>
Outlet diameter	400 mm (as option)	400 mm (as option)
Outlet placement	Top	Top
Drainage connection type	Male thread (DN25)	Male thread (DN25)
Drainage connection dimension	1 in	1 in
Number of drainage connections	1 pcs	1 pcs
Drainage connection placement	Bottom, rear right corner	Bottom, rear right corner
<b>Connections</b>		
Number of filter stages per filter unit	4 pcs	4 pcs
Number of filter cassettes per filter unit	4 pcs	4 pcs
Filter cassette Stage 4	92120600 (HEPA H13)	92120600 (HEPA H13)
Filter cassette Stage 3	92110652	92110655
Filter cassette Stage 2	92110651	92110654
Filter cassette Stage 1	92110650	92110653
Prefilter	Yes, as option	Yes, as option
<b>Fan</b>		
Fan motor type	EC	EC
Number of fans	1 pcs	1 pcs
Voltage	3x380-480V + N & PE	3x380-480V + N & PE
Fan motor power	3 kW (4,02 hp)	3 kW (4,02 hp)
Rated current	6 A	6 A
Frequency	50/60 Hz	50/60 Hz
Maximum cable cross-section	6 mm <sup>3</sup>	6 mm <sup>3</sup>
Rotational speed fan motor maximum	3000 rpm	3000 rpm
<b>Physical properties</b>		
Width	815 mm (32.09 in)	815 mm (32.09 in)
Height		
Height with extension legs	3032-3265 mm (119.4 in)	3032-3265 mm (119.4 in)
Height without extension legs	2860 mm (112.60 in)	2860 mm (112.60 in)
Depth	758 mm (29.84 in)	758 mm (29.84 in)
Weight with empty filter cassettes	340 kg (749.6 lb)	340 kg (749.6 lb)
Weight with full filter cassettes	425 kg (937.0 lb)	425 kg (937.0 lb)
Weight without filter cassettes	255 kg (562.2 lb)	255 kg (562.2 lb)
<b>Sound level<sup>3</sup></b>		
Sound level Adv/Pro 75% (normal operation)	64,4 db(A)	64,4 db(A)
Sound level Adv/Pro 100% (max operation)	71,3 db(A)	71,3 db(A)

<sup>1</sup>Applies to electrical compartment only, not the entire filter unit.

<sup>2</sup>Optional: S&W flanged pipe connector.

<sup>3</sup>The sound level is measured 1 m from the filter unit, straight from the front, free field. Contact Absolent or dealer/distributor for sound calculation on specific room.