

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

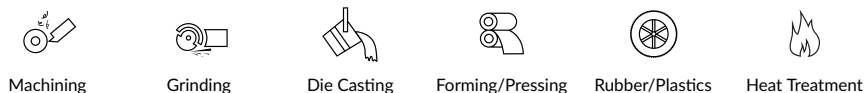
High-performance filter units for oil smoke removal

AE filter units stop oil smoke at the source with advanced 4-stage filtration built on proven Absolent technology. The optional 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

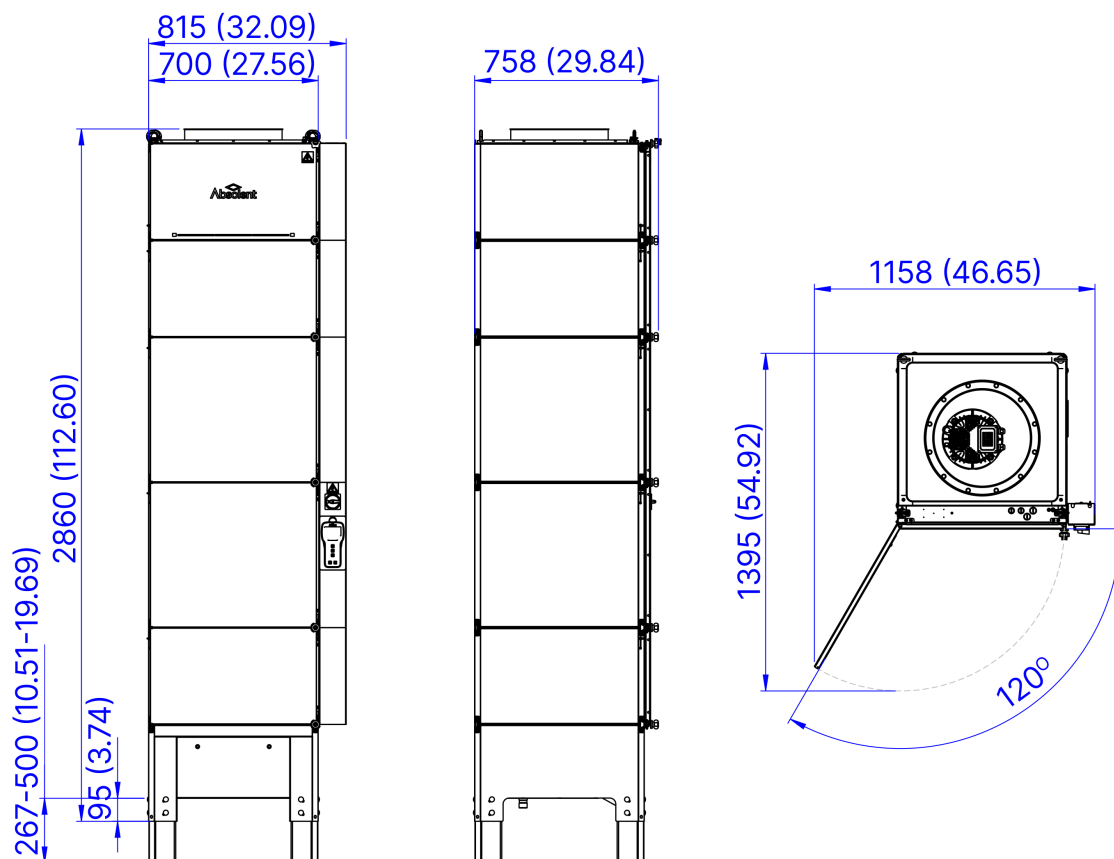
The AE-range is a series of advanced multi-stage filtration units that efficiently capture airborne oil smoke particles. Configurable with 2-4 filter stages, the system ensures high filtration efficiency and adaptability across various machining operations. The tilted filter design optimizes drainage 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 quality by continuing to extract air after the machinery has stopped.

Applications



Dimensions

AE20-150, AE20-250



Technical specifications

AE20-150, AE20-250

	AE20-150	AE20-250
General		
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 ³ /h (1180 cfm)	2 000 m ³ /h (1180 cfm)
Particle load	150 mg/m ³	250 mg/m ³
External pressure drop	700 Pa	200 Pa
Energy class	IE5	IE5
Colour	RAL 7035 SK-3	RAL 7035 SK-3
IP rating	IP55 ¹	IP55 ¹
Connections		
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 ²	Free flow ²
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
Filter		
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 1	92120600 (HEPA H13)	92120600 (HEPA H13)
Filter cassette Stage 2	92110652	92110655
Filter cassette Stage 3	92110651	92110654
Filter cassette Stage 4	92110650	92110653
Prefilter	Yes, as option	Yes, as option
Fan		
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 ³	6 mm ³
Rotational speed fan motor maximum	3000 rpm	3000 rpm
Physical properties		
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)
Sound level³		
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)

¹Applies to electrical compartment only, not the entire filter unit.

²Optional: S&W flanged pipe connector.

³The 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.

AE40-150, AE40-250



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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 optional 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 quality by continuing to extract air after the machinery has stopped.

Applications



Machining



Grinding



Die Casting



Forming/Pressing



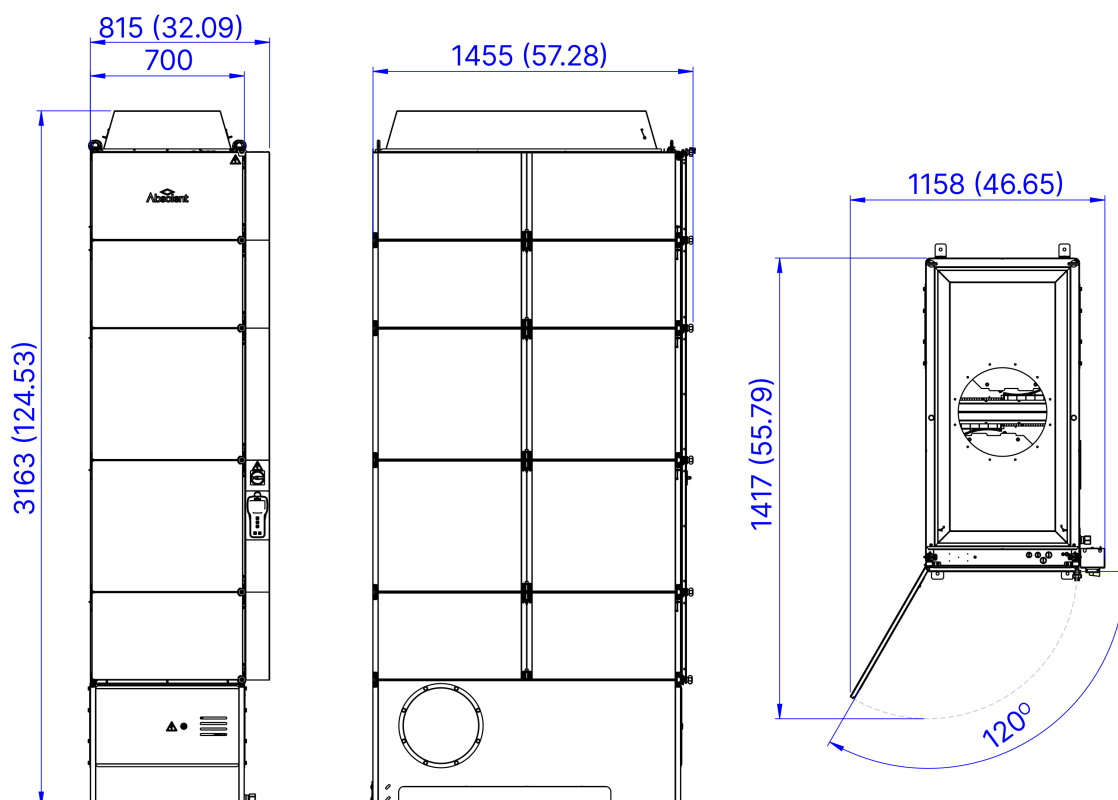
Rubber/Plastics



Heat Treatment

Dimensions

AE40-150, AE40-250



Technical specifications

AE40-150, AE40-250

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General		
Application	Machining, Grinding, Die Casting Rubber/Plastics, Forming/Pressing, Heat Treatment	Machining, Grinding, Die Casting Rubber/Plastics, Forming/Pressing, Heat Treatment
Nominal airflow	4 000 m ³ /h (2360 cfm)	4 000 m ³ /h (2360 cfm)
Particle load	150 mg/m ³	250 mg/m ³
External pressure drop	800 Pa	300 Pa
Energy class	IE5	IE5
Colour	RAL 7035 SK-3	RAL 7035 SK-3
IP rating	N/A	N/A
Connections		
Inlet type	Flanged pipe connector	Flanged pipe connector
Inlet diameter	315 mm (12.40 in)	315 mm (12.40 in)
Inlet placement	Rear (std), optionally left, right, front	Rear (std), optionally left, right, front
Outlet type	Outlet hood for centralised outlet ¹	Outlet hood for centralised outlet ¹
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	Right side, front	Right side, front
Filter		
Number of filter stages per filter unit	4 pcs	4 pcs
Number of filter cassettes per filter unit	8 pcs	8 pcs
Filter cassette Stage 1	92120600 (HEPA H13)	92120600 (HEPA H13)
Filter cassette Stage 2	92110652	92110655
Filter cassette Stage 3	92110651	92110654
Filter cassette Stage 4	92110650	92110653
Prefilter	Yes, as option	Yes, as option
Fan		
Fan motor type	EC	EC
Number of fans	2 pcs	2 pcs
Voltage	3x380-480V + N & PE	3x380-480V + N & PE
Fan motor power	2x3 kW (4,02 hp)	2x3 kW (4,02 hp)
Rated current	12 A	12 A
Frequency	50/60 Hz	50/60 Hz
Maximum cable cross-section	6 mm ³	6 mm ³
Rotational speed fan motor maximum	3000 rpm	3000 rpm
Physical properties		
Width	815 mm (32.09 in)	815 mm (32.09 in)
Height		
Height with extension legs	N/A	N/A
Height without extension legs	3163 mm (124.50 in)	3163 mm (124.50 in)
Depth	1455 mm (57.28 in)	1455 mm (57.28 in)
Weight with empty filter cassettes	600 kg (1323 lb)	600 kg (1323 lb)
Weight with full filter cassettes	690 kg (1521 lb)	690 kg (1521 lb)
Weight without filter cassettes	430 kg (948 lb)	430 kg (948 lb)
Sound level²		
Sound level Adv/Pro 75% (normal operation)	66 db(A)	66 db(A)
Sound level Adv/Pro 100% (max operation)	71 db(A)	71 db(A)

¹Optional: S&W flanged pipe connector.

²The 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.

AE80-150, AE80-250



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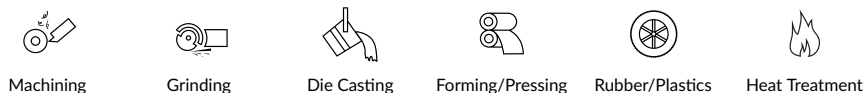
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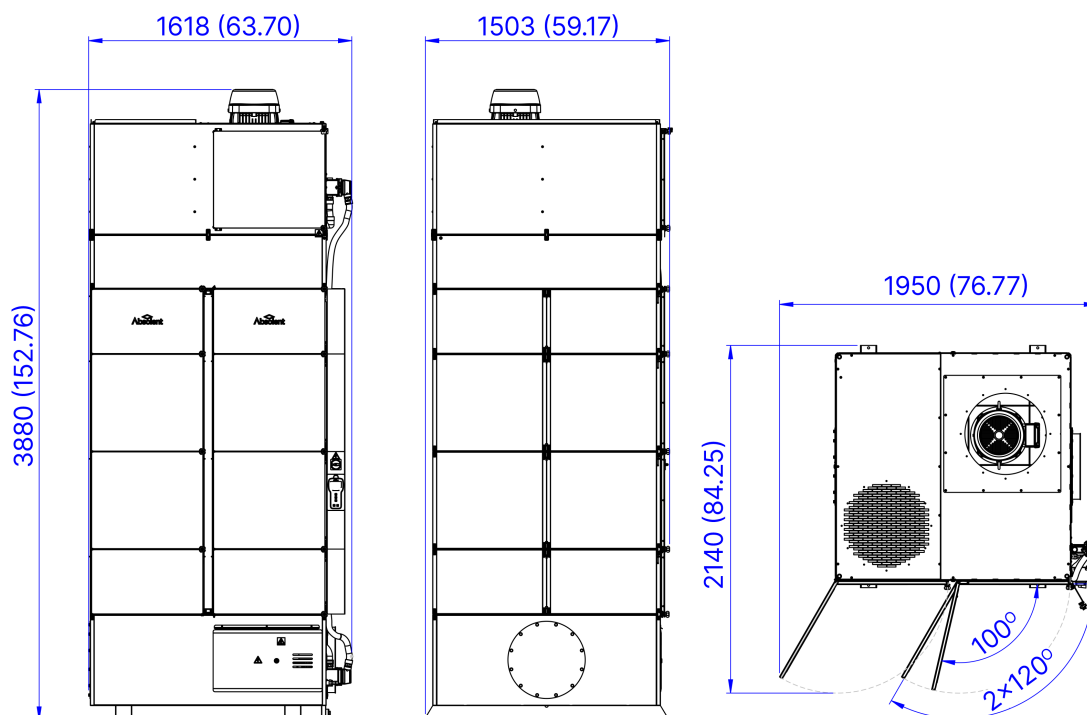
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Dimensions

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Technical specifications

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General		
Application	Machining, Grinding, Die Casting Rubber/Plastics, Forming/Pressing, Heat Treatment	Machining, Grinding, Die Casting Rubber/Plastics, Forming/Pressing, Heat Treatment
Nominal airflow	8 000 m ³ /h (4720 cfm)	8 000 m ³ /h (4720 cfm)
Particle load	150 mg/m ³	250 mg/m ³
External pressure drop	1900 Pa	1400 Pa
Energy class	IE3	IE3
Colour	RAL 7035 SK-3	RAL 7035 SK-3
IP rating	N/A	N/A
Connections		
Inlet type	Flanged pipe connector	Flanged pipe connector
Inlet diameter	400 mm (15.75 in)	400 mm (15.75 in)
Inlet placement	Right (standard), optional	Right (standard), optional
Outlet type	Free flow ¹	Free flow ¹
Outlet diameter	500 mm (as option)	500 mm (as option)
Outlet placement	Top	Top
Drainage connection type	Male thread (DN25)	Male thread (DN25)
Drainage connection dimension	1¼ in	1¼ in
Number of drainage connections	1 pcs	1 pcs
Drainage connection placement	Right side, front	Right side, front
Drain pump	Yes, standard	Yes, standard
Filter		
Number of filter stages per filter unit	4 pcs	4 pcs
Number of filter cassettes per filter unit	16 pcs	16 pcs
Filter cassette Stage 1	92120600 (HEPA H13)	92120600 (HEPA H13)
Filter cassette Stage 2	92110652	92110655
Filter cassette Stage 3	92110651	92110654
Filter cassette Stage 4	92110650	92110653
Prefilter	Yes, as option	Yes, as option
Fan		
Fan motor type	AC	AC
Number of fans	1 pcs	1 pcs
Voltage	200-240V, 380-480V, 525-600V	200-240V, 380-480V, 525-600V
Fan motor power	15 kW (20,4 hp)	15 kW (20,4 hp)
Rated current	27,7 A	27,7 A
Frequency	50/60 Hz	50/60 Hz
Maximum cable cross-section		
Rotational speed fan motor maximum	3678 rpm	3678 rpm
Physical properties		
Width	1618 mm (63.70 in)	1618 mm (63.70 in)
Height		
Height with extension legs	N/A	N/A
Height without extension legs	3880 mm (152.8 in)	3880 mm (152.8 in)
Depth	1503 mm (59.17 in)	1503 mm (59.17 in)
Weight with empty filter cassettes	1295 kg (2855 lb)	1295 kg (2855 lb)
Weight with full filter cassettes	1475 kg (3251 lb)	1475 kg (3251 lb)
Weight without filter cassettes	955 kg (2105 lb)	955 kg (2105 lb)
Sound level²		
Sound level Adv/Pro 75% (normal operation)	69,5 db(A)	69,5 db(A)
Sound level Adv/Pro 100% (max operation)	77,3 db(A)	77,3 db(A)

¹Optional: S&W flanged pipe connector.

²The 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.