

AW8

Oil mist filter



- **Designed for Precision** – Low-vibration fan protects high-accuracy machines and output quality.
- **Lightweight & Compact** – Saves space and adapts easily to any production setup.
- **Filters that last** – Catch&Release™ drainage and multi-stage filtration extends HEPA lifespan.
- **Unmatched Filtration Power Density** – Maximum filtration performance per square metre.

Plug & Play oil mist filtration

The AW-range combines high-performance filtration with a compact format, ideal for production spaces where every square metre counts. The AW8-13 delivers the highest airflow in the range and is designed to extend filter life. Each unit is delivered pre-calibrated and ready to run, making installation quick and reliable. A low-vibration fan supports precision in micro-machining, while long filter life and simple maintenance reduce downtime and service costs. With a HEPA H13 stage removing 99.95% of particles, the system safeguards both operators and production quality. The unit installs quickly, adapts easily to your setup, and uses smart airflow control to lower energy consumption. The AW range always delivers clean air with minimal disruption.

Function

Absolent AW is a compact, lightweight oil mist filtration unit. The air inlet connects to the process machine where airborne liquid particles are generated. The inlet can be positioned on the right, left, front, or bottom of the unit to suit the installation setup. A built-in fan creates negative pressure in the machine enclosure, ensuring that contaminated air is consistently drawn into the filtration unit.

The air passes through a two-stage filtration system that effectively captures harmful particles. Cleaned air, filtered to HEPA H13 standard, is discharged through the top outlet. The Catch&Release™ system continuously drains liquid from the filter cassettes, preventing saturation and thereby extending filter life. The drained liquid flows to the bottom of the unit, where it can either be returned to the process or collected in a separate container.

The unit is configured at the factory to deliver a predefined airflow. This airflow is automatically maintained by the control system adjusting fan speed in response to the total pressure drop across the filter cassettes. Using the Flow Adjust function in the HMI, the user can select between five preset airflow levels to suit different process needs.

Applications



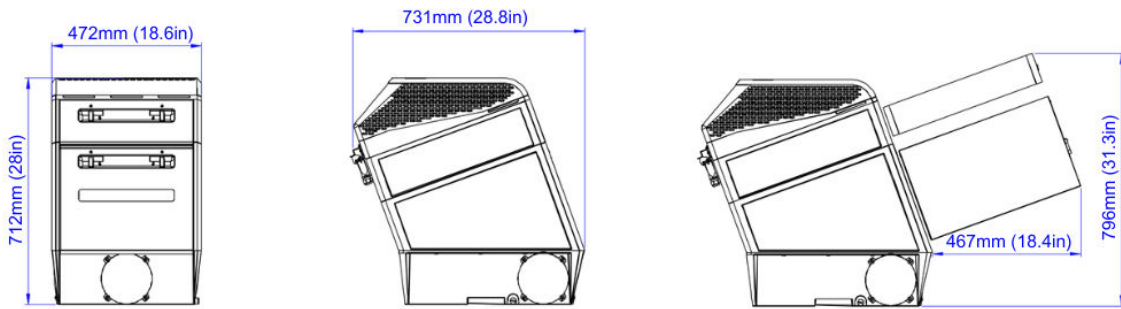
Machining



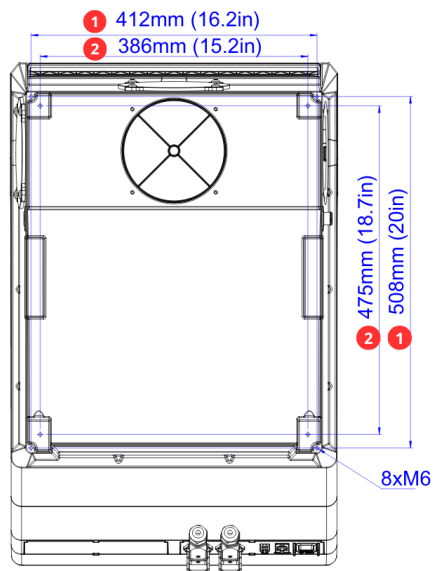
Grinding

Dimensions

AW8-13



Footprint



1. Hole pattern for installations without rubber feet
2. Hole pattern for installations with rubber feet

Technical specifications

AW8

	AW8-13
General	
Application	Machining, Grinding
Nominal airflow	800 m ³ /h (470 cfm)
Particle load	20 mg/m ³
Particle load (< 1 µm)	4 mg/m ³ ¹
External pressure drop	200 Pa (0.80 inWC)
Energy class	IE5
Colour	RAL 7035 SK-3
Connections	
Inlet type	Standard hole pattern
Inlet diameter	150 mm (5.9 in)
Inlet placement	Right (std), optionally left, front, bottom
Outlet type	Free flow
Outlet diameter	N/A
Outlet placement	Top
Drainage connection type	Threaded Female (M20X)
Drainage connection dimension	20 mm (13/16in) ID
Number of drainage connections	2 pcs
Drainage connection placement	Right / Left
Filter	
Number of filter stages per filter unit	2 pcs
Number of filter cassettes per filter unit	2 pcs
Filter cassette Stage 1	W12
Filter cassette Stage 2	HEPA H13
Prefilter	Yes, optional
Fan	
Fan motor type	EC
Number of fans	1 pcs
Voltage	1~ 200-264V
Fan motor power	500 W (0.67 hp)
Rated current	2.2 A
Frequency	50/60 Hz
Maximum cable cross-section	N/A
Rotational speed fan motor maximum	3800 rpm
Physical properties	
Width	470 mm (18.5 in)
Height	710 mm (28 in)
Depth	725 mm (28.5 in)
Weight with empty filter cassettes	35 kg (77.2 lb)
Weight with full filter cassettes	-
Weight without filter cassettes	20.8 kg (45.9 lb)
Sound level²	
Sound level Adv/Pro 75% (normal operation)	- db(A)
Sound level Adv/Pro 100% (max operation)	- db(A)

¹The stated load values are based on continuous operation of 8,760 hours per year. At shorter service intervals, the filter unit can handle higher particle loads.

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 rooms.