

# AW2

## 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 meter.

## Plug & Play oil mist filtration

The AW range combines high-performance filtration with a compact format, ideal for production spaces where every square meter counts. With long filter life enabling continuous operation for up to 8760 hours a year, AW keeps maintenance to a minimum. 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 simple servicing further reduces 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



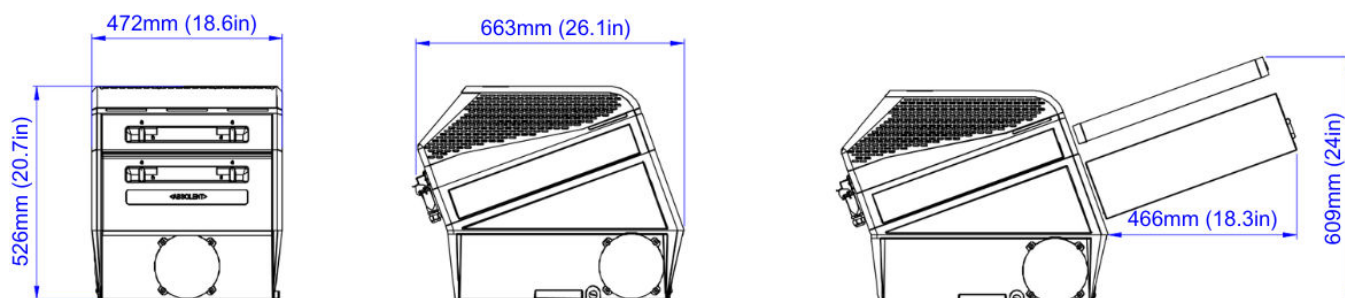
Machining



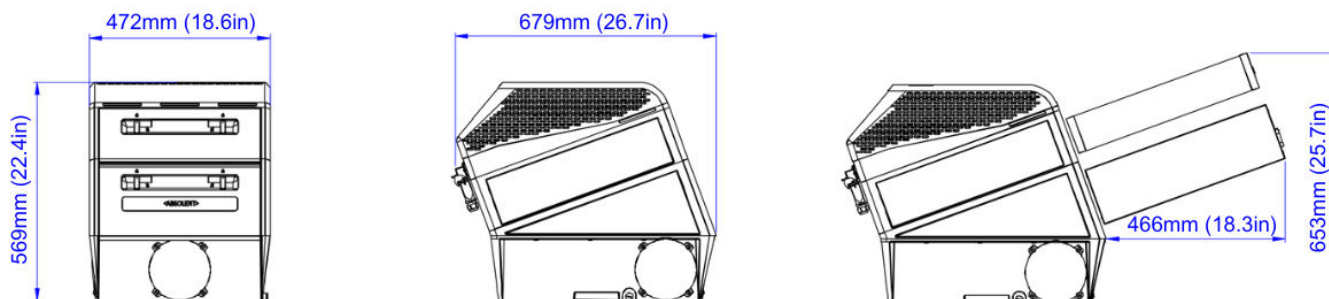
Grinding

## Dimensions

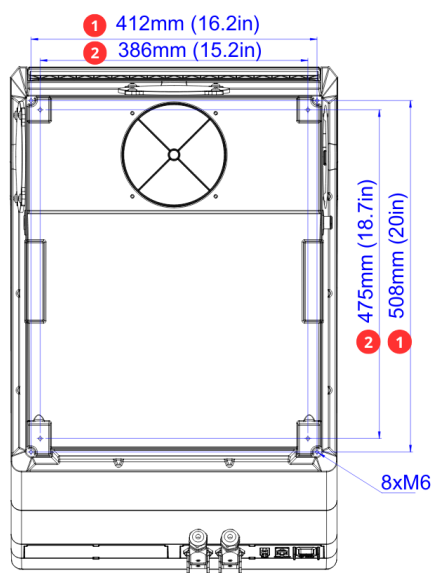
### AW2-09



### AW2-10



## Footprint



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

## Technical specifications

### AW2

### Standard

### Heavy Duty

|  | AW2-09                                      | AW2-10                                      |
|--|---|---|
| <b>General</b>                             |   |   |
| Application                                | Machining, Grinding                         | Machining, Grinding                         |
| Nominal airflow                            | 147 cfm (250 m <sup>3</sup> /h)             | 147 cfm (250 m <sup>3</sup> /h)             |
| Particle load <sup>1</sup>                 | 15 mg/m <sup>3</sup>                        | 30 mg/m <sup>3</sup>                        |
| Particle load (< 1 µm) <sup>1</sup>        |   |   |
| Standard filter                            | 2 mg/m <sup>3</sup>                         | 4 mg/m <sup>3</sup>                         |
| High-density filter                        | 4 mg/m <sup>3</sup>                         | 8 mg/m <sup>3</sup>                         |
| External pressure drop                     | 0.40 inWC (100 Pa)                          | 0.40 inWC (100 Pa)                          |
| Energy class                               | IE5   | IE5   |
| Color                                      | RAL 7035 SK-3                               | RAL 7035 SK-3                               |
| <b>Connections</b>                         |   |   |
| Inlet type                                 | Standard hole pattern                       | Standard hole pattern                       |
| Inlet diameter                             | 5.9 in (150 mm)                             | 5.9 in (150 mm)                             |
| Inlet placement                            | Right (std), optionally left, front, bottom | Right (std), optionally left, front, bottom |
| Outlet type                                | Free flow                                   | Free flow                                   |
| Outlet diameter                            | N/A   | N/A   |
| Outlet placement                           | Top   | Top   |
| Drainage connection type                   | Threaded Female (M20X)                      | Threaded Female (M20X)                      |
| Drainage connection dimension              | 13/16in (20 mm) ID                          | 13/16in (20 mm) ID                          |
| Number of drainage connections             | 2 pcs                                       | 2 pcs                                       |
| Drainage connection placement              | Right / Left                                | Right / Left                                |
| <b>Connections</b>                         |   |   |
| Number of filter stages per filter unit    | 2 pcs                                       | 2 pcs                                       |
| Number of filter cassettes per filter unit | 2 pcs                                       | 2 pcs                                       |
| Filter cassette Stage 1                    |   |   |
| Standard filter                            | W4  | W4  |
| High-density filter                        | W6  | W6  |
| Filter cassette Stage 2                    | HEPA H13                                    | HEPA H13 (extended service life)            |
| Prefilter                                  | Yes, optional                               | Yes, optional                               |
| <b>Fan</b>                                 |   |   |
| Fan motor type                             | EC  | EC  |
| Number of fans                             | 1 pcs                                       | 1 pcs                                       |
| Voltage                                    | 1~ 200-240V                                 | 1~ 200-240V                                 |
| Fan motor power                            | 170 W (0.23 hp)                             | 170 W (0.23 hp)                             |
| Rated current                              | 1.4 A                                       | 1.4 A                                       |
| Frequency                                  | 50/60 Hz                                    | 50/60 Hz                                    |
| Maximum cable cross-section                | N/A   | N/A   |
| Rotational speed fan motor maximum         | 4350 rpm                                    | 4350 rpm                                    |
| <b>Physical properties</b>                 |   |   |
| Width                                      | 18.5 in (470 mm)                            | 18.5 in (470 mm)                            |
| Height                                     | 20.9 in (530 mm)                            | 22.4 in (570 mm)                            |
| Depth                                      | 26.4 in (665 mm)                            | 26.6 in (675 mm)                            |
| Weight with empty filter cassettes         | 52.9 lb (24 kg)                             | 57.3 lb (26 kg)                             |
| Weight with full filter cassettes          | -   | -   |
| Weight without filter cassettes            | 38.4 lb (17.4 kg)                           | 38.6 lb (17.5kg)                            |
| <b>Sound level<sup>2</sup></b>             |   |   |
| Sound level Adv/Pro 75% (normal operation) | - db(A)                                     | - db(A)                                     |
| Sound level Adv/Pro 100% (max operation)   | - db(A)                                     | - db(A)                                     |

<sup>1</sup>The 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.

<sup>2</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 rooms.

# AW5

## Oil mist filter



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- **Unmatched Filtration Power Density** – Maximum filtration performance per square meter.

## Plug & Play oil mist filtration

The AW range combines high-performance filtration with a compact format, ideal for production spaces where every square meter counts. With long filter life enabling continuous operation for up to 8760 hours a year, AW keeps maintenance to a minimum. 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 simple servicing further reduces 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



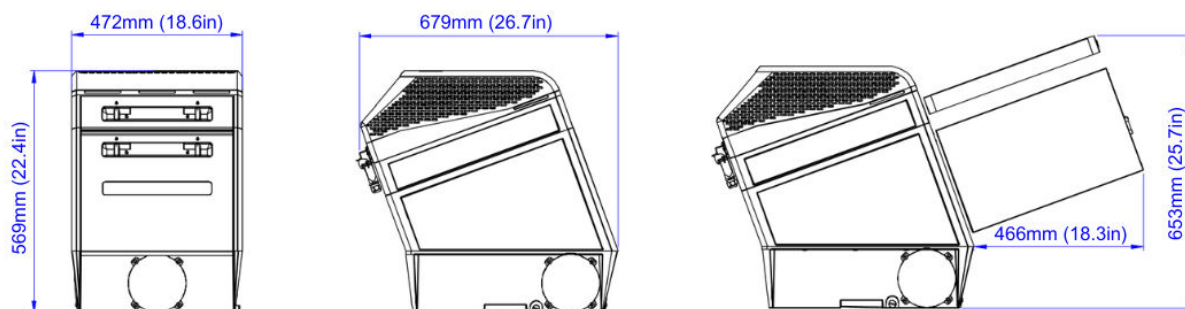
Machining



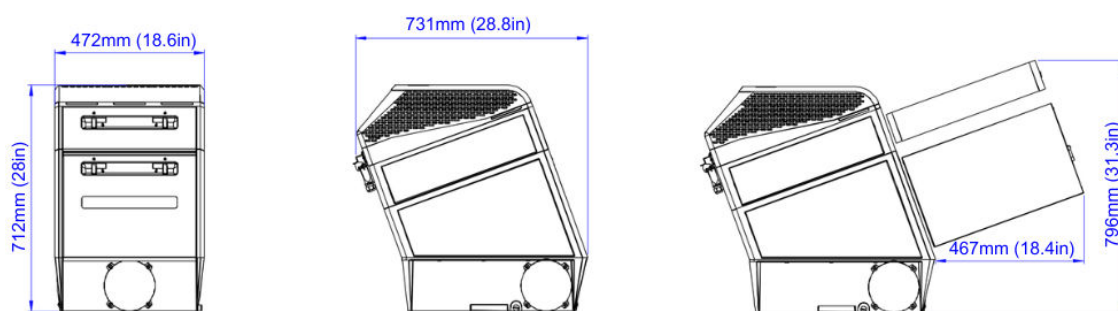
Grinding

## Dimensions

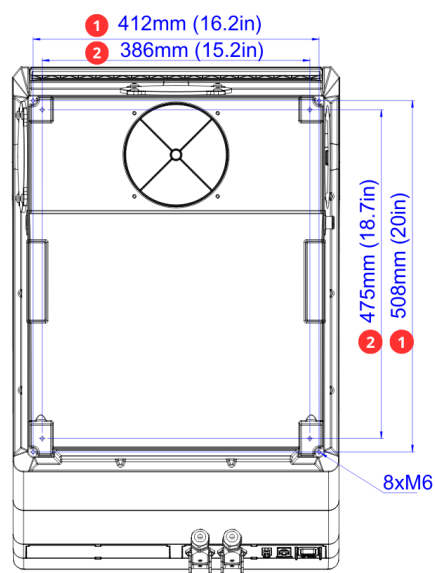
### AW5-12



### AW5-13



### Footprint



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

## Technical specifications

### AW5

### Standard

### Heavy Duty

|  | AW5-12                                      | AW5-13                                      |
|--|---|---|
| <b>General</b>                             |   |   |
| Application                                | Machining, Grinding                         | Machining, Grinding                         |
| Nominal airflow                            | 235 cfm (500 m <sup>3</sup> /h)             | 235 cfm (500 m <sup>3</sup> /h)             |
| Particle load                              | 15 mg/m <sup>3</sup>                        | 30 mg/m <sup>3</sup>                        |
| Particle load (< 1 µm) <sup>1</sup>        |   |   |
| Standard filter                            | 2 mg/m <sup>3</sup>                         | 4 mg/m <sup>3</sup>                         |
| High-density filter                        | 4 mg/m <sup>3</sup>                         | 8 mg/m <sup>3</sup>                         |
| External pressure drop                     | 1.21 inWC (300 Pa)                          | 1.21 inWC (300 Pa)                          |
| Energy class                               | IE5   | IE5   |
| Color                                      | RAL 7035 SK-3                               | RAL 7035 SK-3                               |
| <b>Connections</b>                         |   |   |
| Inlet type                                 | Standard hole pattern                       | Standard hole pattern                       |
| Inlet diameter                             | 5.9 in (150 mm)                             | 5.9 in (150 mm)                             |
| Inlet placement                            | Right (std), optionally left, front, bottom | Right (std), optionally left, front, bottom |
| Outlet type                                | Free flow                                   | Free flow                                   |
| Outlet diameter                            | N/A   | N/A   |
| Outlet placement                           | Top   | Top   |
| Drainage connection type                   | Threaded Female (M20X)                      | Threaded Female (M20X)                      |
| Drainage connection dimension              | 13/16in (20 mm) ID                          | 13/16in (20 mm) ID                          |
| Number of drainage connections             | 2 pcs                                       | 2 pcs                                       |
| Drainage connection placement              | Right / Left                                | Right / Left                                |
| <b>Connections</b>                         |   |   |
| Number of filter stages per filter unit    | 2 pcs                                       | 2 pcs                                       |
| Number of filter cassettes per filter unit | 2 pcs                                       | 2 pcs                                       |
| Filter cassette Stage 1                    |   |   |
| Standard filter                            | W8  | W8  |
| High-density filter                        | W12   | W12   |
| Filter cassette Stage 2                    | HEPA H13                                    | HEPA H13 (extended service life)            |
| Prefilter                                  | Yes, optional                               | Yes, optional                               |
| <b>Fan</b>                                 |   |   |
| Fan motor type                             | EC  | EC  |
| Number of fans                             | 1 pcs                                       | 1 pcs                                       |
| Voltage                                    | 1~ 200-264V                                 | 1~ 200-264V                                 |
| Fan motor power                            | 500 W (0.67 hp)                             | 500 W (0.67 hp)                             |
| Rated current                              | 2.2 A                                       | 2.2 A                                       |
| Frequency                                  | 50/60 Hz                                    | 50/60 Hz                                    |
| Maximum cable cross-section                | N/A   | N/A   |
| Rotational speed fan motor maximum         | 3800 rpm                                    | 3800 rpm                                    |
| <b>Physical properties</b>                 |   |   |
| Width                                      | 18.5 in (470 mm)                            | 18.5 in (470 mm)                            |
| Height                                     | 26.4 in (670 mm)                            | 28 in (710 mm)                              |
| Depth                                      | 28 in (710 mm)                              | 28.5 in (725 mm)                            |
| Weight with empty filter cassettes         | 57.3 lb (26 kg)                             | 77.2 lb (35 kg)                             |
| Weight with full filter cassettes          | -   | -   |
| Weight without filter cassettes            | 38.8 lb (17.6 kg)                           | 45.9 lb (20.8 kg)                           |
| <b>Sound level<sup>2</sup></b>             |   |   |
| Sound level Adv/Pro 75% (normal operation) | - db(A)                                     | - db(A)                                     |
| Sound level Adv/Pro 100% (max operation)   | - db(A)                                     | - db(A)                                     |

<sup>1</sup>The 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.

<sup>2</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 rooms.



# AW8

## Oil mist filter



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## Function

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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



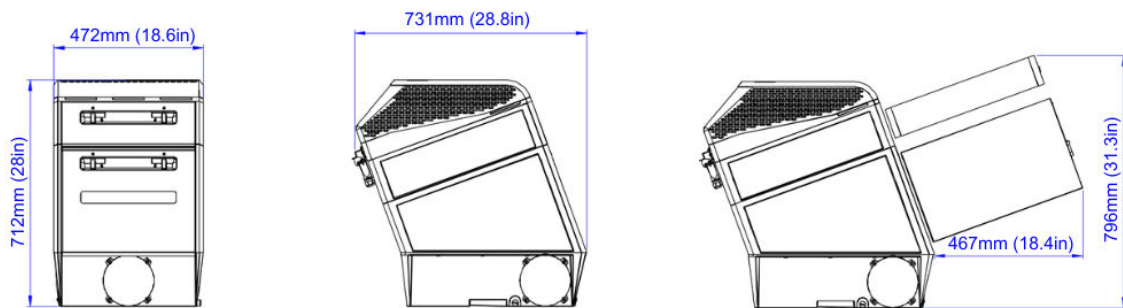
Machining



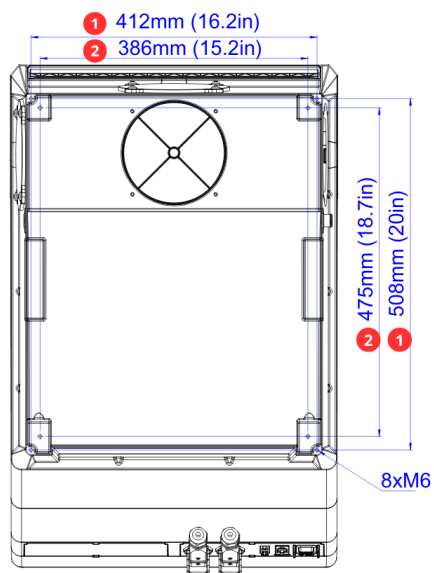
Grinding

## Dimensions

### AW8-13



### Footprint



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

## Technical specifications

### AW8

### Heavy Duty

|  | AW8-13                                      |
|--|---|
| <b>General</b>                             |   |
| Application                                | Machining, Grinding                         |
| Nominal airflow                            | 470 cfm (800 m <sup>3</sup> /h)             |
| Particle load                              | 20 mg/m <sup>3</sup>                        |
| Particle load (< 1 µm) <sup>1</sup>        | 4 mg/m <sup>3</sup>                         |
| External pressure drop                     | 0.80 inWC (200 Pa)                          |
| Energy class                               | IE5   |
| Color                                      | RAL 7035 SK-3                               |
| <b>Connections</b>                         |   |
| Inlet type                                 | Standard hole pattern                       |
| Inlet diameter                             | 5.9 in (150 mm)                             |
| 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              | 13/16in (20 mm) ID                          |
| Number of drainage connections             | 2 pcs                                       |
| Drainage connection placement              | Right / Left                                |
| <b>Connections</b>                         |   |
| 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                               |
| <b>Fan</b>                                 |   |
| 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                                    |
| <b>Physical properties</b>                 |   |
| Width                                      | 18.5 in (470 mm)                            |
| Height                                     | 28 in (710 mm)                              |
| Depth                                      | 28.5 in (725 mm)                            |
| Weight with empty filter cassettes         | 77.2 lb (35 kg)                             |
| Weight with full filter cassettes          | -   |
| Weight without filter cassettes            | 45.9 lb (20.8 kg)                           |
| <b>Sound level<sup>2</sup></b>             |   |
| Sound level Adv/Pro 75% (normal operation) | - db(A)                                     |
| Sound level Adv/Pro 100% (max operation)   | - db(A)                                     |

<sup>1</sup>The 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.

<sup>2</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 rooms.