

Product
Catalogue




Absolent

Part of Absolent
Air Care Group

WHAT WE DO

We offer clean air solutions for manufacturing industries worldwide.

Our filter units eliminate oil mist, oil smoke and dust from applications like machining, turning, die casting, forming, and grinding. We ensure clean air with high quality products and a strong focus on innovation and customized solutions.

HOW WE DO IT

We capture and drain the oil so you don't have to worry.

Our filter units are equipped with filter cassettes that we carefully select to fit the machine and the application needs in your workshop. Each filtration stage captures millions of oil particles while draining the oil so that it may be collected or re-used in the process. As a final stage a HEPA H13 filter ensures clean air. With Absolent you get at least 8760 maintenance free operating hours.

WHY WE DO IT

We protect your health, the environment and save you money.

Polluted air can have poor consequences for both health and environment. We make sure the air is safe to breathe. Pollution that otherwise would be let out is eliminated and you can enjoy a healthier work environment, while saving money on fewer production stops and less absenteeism due to illness.



STAND-ALONE OR CENTRALIZED FILTRATION?

When choosing the perfect filter unit for your workshop we take several factors into consideration. Depending on machine dimensions, floor space, general ventilation connections, particle concentration and sizes we figure out what works best and if it should be a stand-alone or centralized filter unit.

One Filter Unit - One Machine

Stand-alone filter units are great because they are always at easy access right on or by your machine.

- Less energy is consumed since the distance between the machine and the filter is optimized.
- Flexible solution - if you move the machine the filter moves with it.
- Cutting fluids are kept separate and can easily be returned to the machine.
- Ideal when space is limited.
- Can be attached in the ceiling, located on the wall or on a stand next to the machine.



Absolent installation at Premium AEROTEC.
Solution: A•mist¹⁰⁰ (one filter unit for each machine)

One Filter Unit - Several Machines

Centralized filter unit connected by ducting to one or several machines.

- The total air flow can be reduced in case not all machines are open or operated simultaneously.
- Service of the filter unit can be restricted to one area.
- Ideal if you want to connect your filter to the general ventilation system and recycle the heated air.
- Large capacity to accommodate bigger machines or many machines at once.
- Can be placed wherever there is available floor space instead of right next to the machine.



Absolent installation at Volvo Zhangjiakou.
Solution: A•smoke80TF (one filter unit for several machines)



A•erity

Oil mist/smoke filters



NEW POWERFUL FILTER UNIT FROM ABSOLENT

A•erity is a new, powerful filter unit series for industrial operations that guarantees clean air for at least 8.760 operating hours. Thanks to our advanced filter technology, unplanned downtime is minimised, so you can focus on your business. A•erity is based on tested and proved technology, developed with extensive expertise and ready for seamless integration into your production.

- ✓ Smart monitoring equipment allows you to extract the right amount of air.
- ✓ EcoDrive saves energy, protects the environment and your employees.
- ✓ High productivity, minimised maintenance and service.

THE A•ERITY MODULAR CONCEPT

The A•erity concept consists of units made up of several modules stacked on top of each other. A standard set consists of a bottom module, two to four filter modules and a fan module. The filter cassettes are placed in the filter modules and the set is customised to the nature of the application. Each filter unit creates an airflow and, if necessary, several filter units are connected together to create a system.



MAIN AND SUB UNITS

There are two types of filter units in the A•erity concept: Main and Sub units. The main unit controls all filter unit fans in the system. All units are fitted with an IE5 class EC motor for optimised energy consumption and safer operation.

SINGLE AND TANDEM

A•erity Single consists of one unit and A•erity Tandem consists of two units with a common bottom module. The same airflow can be achieved with a Tandem as with two interconnected Single units. Single and Tandem can be both Main and Sub units.

EQUIPMENT LEVELS

Essential, Professional and Advanced offer three different user interfaces that provide information and visual indication with or without an IoT cloud solution. More information about the product and what possibilities it offers can be found on www.absolent.com.



A•erity^{20-10S}



Oil mist filter for airflow up to 2000 m³/h and with a particle load of 10 mg/m³. Complete with EC fan.

Particle load	10 mg/m ³
Nominal airflow	2 000 m ³ /h
External pressure drop	>1200 Pa
Fan motor power	2,2 kW
Weight with dry filter cassettes	200 kg
Inlet duct diameter	Ø 200 mm
Dimensions	1830-2067×735-815×764 mm



A•erity²⁰⁻²⁰



Oil mist filter for airflow up to 2000 m³/h and with a particle load of 20 mg/m³. Complete with EC fan.

Particle load	20 mg/m ³
Nominal airflow	2 000 m ³ /h
External pressure drop	1200 Pa
Fan motor power	2,2 kW
Weight with dry filter cassettes	250 kg
Inlet duct diameter	Ø 200 mm
Dimensions	2230-2467×735-815×764 mm



A•erity^{20-30S}



Oil mist filter for airflow up to 2000 m³/h and with a particle load of 30 mg/m³. Complete with EC fan.

Particle load	30 mg/m ³
Nominal airflow	2 000 m ³ /h
External pressure drop	1200 Pa
Fan motor power	2,2 kW
Weight with dry filter cassettes	250 kg
Inlet duct diameter	Ø 200 mm
Dimensions	2230-2467×735-815×764 mm



A•erity^{20-70S}



Oil mist/smoke filter for airflow up to 2000 m³/h and with a particle load of 70 mg/m³. Complete with EC fan.

Particle load	70 mg/m ³
Nominal airflow	2 000 m ³ /h
External pressure drop	700 Pa
Fan motor power	2,2 kW
Weight with dry filter cassettes	300 kg
Inlet duct diameter	Ø 200 mm
Dimensions	2630-2867×735-815×764 mm



A•erity^{40-10T}



Oil mist filter for airflow up to 4000 m³/h and with a particle load of 10 mg/m³. Complete with EC fan.

Particle load	10 mg/m ³
Nominal airflow	4 000 m ³ /h
External pressure drop	>1200 Pa
Fan motor power	2,2 kW
Weight with dry filter cassettes	400 kg
Inlet duct diameter	Ø 200 mm
Dimensions	1940-2170×700-815×1462 mm



A•erity^{40-20T}



Oil mist filter for airflow up to 4000 m³/h and with a particle load of 20 mg/m³. Complete with EC fan.

Particle load	20 mg/m ³
Nominal airflow	4 000 m ³ /h
External pressure drop	1200 Pa
Fan motor power	2,2 kW
Weight with dry filter cassettes	500 kg
Inlet duct diameter	Ø 200 mm
Dimensions	2370-2570×700-815×1462 mm



A•erity^{40-30T}



Oil mist filter for airflow up to 4000 m³/h and with a particle load of 30 mg/m³. Complete with EC fan.

Particle load	30 mg/m ³
Nominal airflow	4 000 m ³ /h
External pressure drop	1200 Pa
Fan motor power	2,2 kW
Weight with dry filter cassettes	500 kg
Inlet duct diameter	Ø 200 mm
Dimensions	2370-2570×700-815×1462 mm



A•erity^{40-70T}



Oil mist/smoke filter for airflow up to 4000 m³/h and with a particle load of 70 mg/m³. Complete with EC fan.

Particle load	70 mg/m ³
Nominal airflow	4 000 m ³ /h
External pressure drop	700 Pa
Fan motor power	2,2 kW
Weight with dry filter cassettes	600 kg
Inlet duct diameter	Ø 200 mm
Dimensions	2740-2970×700-815×1462 mm

A•mist

Compact oil mist filters



FILTERS FOR MODERATE OIL MIST

If you have CNC machines, running at a moderate speed and with a moderate coolant pressure, oil mist will start to leak into the factory. The oil mist consists of mid-sized particles and the fog is moderately thick. It does not only irritate your lungs, but your wallet as well. Invest in an A•mist filter and the problems disappear.

- ✓ The HEPA H13 filter guarantees clean air.
- ✓ Installed close by or on top of the process machine, especially suitable where floor space is restricted.
- ✓ 1 year of maintenance free operation.



A•mist^{6C}



Compact, stand-alone filter unit ideal for smaller machines generating oil mist. Complete with fan.

Particle load	10 mg/m ³
Nominal airflow	600 m ³ /h
External pressure drop	150 Pa
Fan motor power	0,55 kW
Weight with dry filter cassettes	65 kg
Inlet duct diameter	Ø 125 mm
Dimensions	1000×620×350 mm



A•mist^{10C}



Compact, stand-alone filter unit, with or without HEPA filter depending on your needs. Complete with fan.

Particle load	10 mg/m ³
Nominal airflow	1 000 m ³ /h
External pressure drop	150 Pa
Fan motor power	0,55 kW
Weight with dry filter cassettes	130 kg
Inlet duct diameter	Ø 160 mm
Dimensions	807×1190×684 mm

A•line

Oil mist/smoke filters



FILTERS FOR VERSATILITY

With A•line, you get a versatile filter that is adaptable to your needs. A unique filter equally suitable for small, tough metalworking machines, as for equipment that generate moderate amounts of oil mist and oil smoke. With A•line, you're equipped for the future. Even if you change the coolant, cutting speed or coolant pressure in the machine, A•line can handle the task.

- ✓ The HEPA H13 filter guarantees clean air.
- ✓ The fan will adapt to your needs. Energy smart and safe for your health.
- ✓ Compact design for machine mount where floor space is limited.



A•5



A•5 is a small and compact, stand-alone filter unit for a machine generating oil mist/ oil smoke.

Particle load	70 mg/m ³
Nominal airflow	500 m ³ /h
External pressure drop	<100 Pa
Fan motor power	0,36 kW
Weight with dry filter cassettes	80 kg
Inlet duct diameter	Ø 125 mm
Dimensions	850×560×665 mm

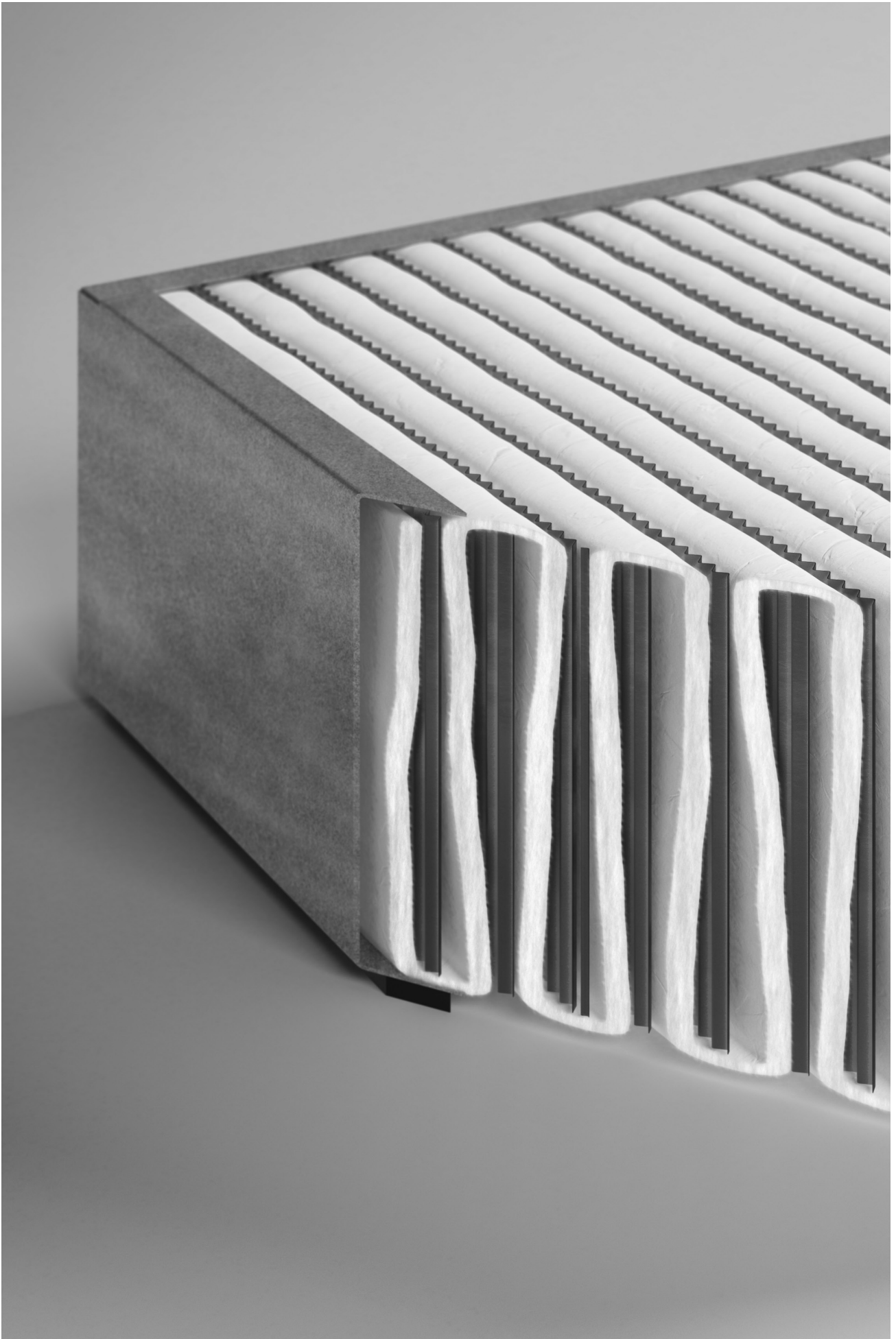


A•10



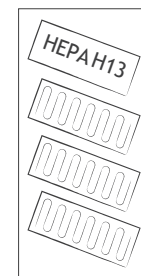
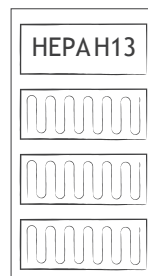
A•10 is a small, stand-alone or centralized filter unit for one or a couple of smaller machines generating oil mist/oil smoke.

Particle load	70 mg/m ³
Nominal airflow	1 000 m ³ /h
External pressure drop	<1000 Pa
Fan motor power	1,15 kW
Weight with dry filter cassettes	140 kg
Inlet duct diameter	Ø 160 mm
Dimensions	920×965×680 mm



THE CASSETTE IS THE SECRET

By connecting an Absolent filter unit to a standard processing machine, several barrels of oil can be drained each year. Here is how it works.



Catch & Release®

When the harmful air reaches the filter material, wet oil particles stick to its fibers. Eventually the oil droplets fall, due to the gravity, to the bottom of the filter unit. The oil can be collected or returned to the machine. Our filter cassettes are manufactured in our own factory in Sweden and they are equipped with our patented Catch & Release® function. They consist of carefully selected materials, folded between separators, designed to let air pass through while capturing oil particles.

Multiple Filter Stages

The majority of our units filter the polluted air through several stages. The air passes through different filter cassettes before it is returned to the premises or transported outside, free from oil mist or oil smoke. The largest particles are filtered at the first stage and the filter stages that follow consist of finer materials designed to capture smaller particles. The final stage is a HEPA H13 filter. It guarantees a separation degree of at least 99.97% during the operation of 24/7 for one full year.

TFS - Tilted Filter System

Some of our newly developed filter units come with TFS - Tilted Filter System. An example of filter units with TFS is the A•line range. Like all Absolent cassettes these ones include the same built-in Catch & Release® functionality. The difference is the angle at which the filter cassettes are fitted into the filter unit. This helps with drainage and improves the longevity of the filter material in the cassettes, which reduces your service costs even more.

A•smoke

Oil smoke filters



FILTERS FOR SMOKEY INDUSTRIES

If you run your CNC machines at high speed and with a high coolant pressure, or if you're working with die casting or hardening, the process will start to "smoke". This oil smoke consists of tiny particles and the smoke is thick. The same problem often arises during minimal quantity lubrication (MQL). To get rid of this type of pollution, you need to install a tough filter – A•smoke.

- ✓ Low maintenance costs with long lasting filter cassettes gives low life cycle cost.
- ✓ Designed for oil smoke and food process.
- ✓ Save money and the environment.



A•smoke²⁰



Stand-alone or centralized filter unit for one mid-sized or several smaller machines. Complete with fan.

Particle load	70 mg/m ³
Nominal airflow	2 000 m ³ /h
External pressure drop	600 Pa
Fan motor power	2,2 kW
Weight with dry filter cassettes	300 kg
Inlet duct diameter	Ø 200 mm
Dimensions	2421×700×783 mm



A•smoke⁴⁰



Stand-alone or centralized filter unit for one larger or several smaller machines. Complete with fan.

Particle load	150 mg/m ³
Nominal airflow	4 000 m ³ /h
External pressure drop	800 Pa
Fan motor power	7,5 kW
Weight with dry filter cassettes	1000 kg
Inlet duct diameter	Ø 315 mm
Dimensions	3530×1127×1167 mm



A•smoke^{80TF}



Filter unit ideal for larger or several machines generating oil mist/oil smoke. Complete with fan.

Particle load	150 mg/m ³
Nominal airflow	8 000 m ³ /h
External pressure drop	<500/1900 pa
Fan motor power	11/15 kW
Weight with dry filter cassettes	1500 kg
Inlet duct diameter	Ø 400 mm
Dimensions	4000×1394×2120 mm



A•smoke^{80T}



Filter unit ideal for larger machines or several smaller machines generating oil mist or oil smoke. Without fan.

Particle load	150 mg/m ³
Nominal airflow	8 000 m ³ /h
External pressure drop	-
Fan motor power	-
Weight with dry filter cassettes	1430 kg
Inlet duct diameter	Ø 400 mm
Dimensions	2940×1153×2115 mm

A•smoke Food

Oil smoke filters



DESIGNED WITH FOOD IN MIND

The A•smokeFood range is developed with food in mind. The product series features one of the most effective systems in the world for cleaning oil mist and oil smoke. It is designed to handle demanding applications in the food industry with temperatures up to 90°C (200 F) and air flows up to 2000m³/h.

- ✓ Our unique filter cassettes capture all particles – giving you 1 year of maintenance free operation.
- ✓ Smart design of filter unit in stainless steel and with sloped inlet plenum.



A•smoke²⁰ Food



Filter unit for the food industry. Can withstand a standard temperature of 90°C with an airflow of up to 2,000 m³/h.

Particle load	70 mg/m ³
Nominal airflow	2 000 m ³ /h
External pressure drop	-
Fan motor power	-
Weight with dry filter cassettes	362 kg
Inlet duct diameter	Ø 400 mm
Dimensions	2265×700×775 mm



A•smoke⁴⁰ Food



Filter unit for the food industry. Can withstand a standard temperature of 90°C with an airflow of up to 4,000 m³/h.

Particle load	150 mg/m ³
Nominal airflow	4 000 m ³ /h
External pressure drop	-
Fan motor power	-
Weight with dry filter cassettes	673 kg
Inlet duct diameter	Ø 400 mm
Dimensions	2880×1280×1090 mm



A•smoke⁸⁰ Food



Filter unit for the food industry. Can withstand a standard temperature of 90°C with an airflow of up to 8,000 m³/h.

Particle load	150 mg/m ³
Nominal airflow	8 000 m ³ /h
External pressure drop	-
Fan motor power	-
Weight with dry filter cassettes	1484 kg
Inlet duct diameter	Ø 400 mm
Dimensions	3060×1280×2090 mm

Centralized filter units

Oil mist/smoke filters



FILTERS FOR CENTRALIZED SYSTEMS

A centralized filter unit is connected by ducting to one or several machines. It is the preferred option when accommodating large systems requiring large air flows or many smaller machines where layout of production site seldom changes.

Centralized solutions give you the option to place the unit where available floor space is accessible.

- ✓ One filter unit for multiple machines
- ✓ Only one service location required
- ✓ Connect centralized solutions to the general ventilation system to recover heat from the process.



A•mist^{120T}



A larger filter to serve as a centralized unit for several machines. Without fan.

Particle load	20 mg/m ³
Nominal airflow	12 000 m ³ /h
External pressure drop	-
Fan motor power	-
Weight with dry filter cassettes	On request
Inlet duct diameter	On request
Dimensions	On request



A•mist^{160T}



A larger filter to serve as a centralized unit for several machines. Without fan.

Particle load	20 mg/m ³
Nominal airflow	16 000 m ³ /h
External pressure drop	-
Fan motor power	-
Weight with dry filter cassettes	On request
Inlet duct diameter	On request
Dimensions	On request



A•smoke^{160T}



Filter unit ideal for a couple of larger or many smaller machines generating oil mist or oil smoke. Without fan.

Particle load	150 mg/m ³
Nominal airflow	16 000 m ³ /h
External pressure drop	-
Fan motor power	-
Weight with dry filter cassettes	2500 kg
Inlet duct diameter	Ø 800 mm
Dimensions	3348×2263×2165 mm



A•mist^{200T}

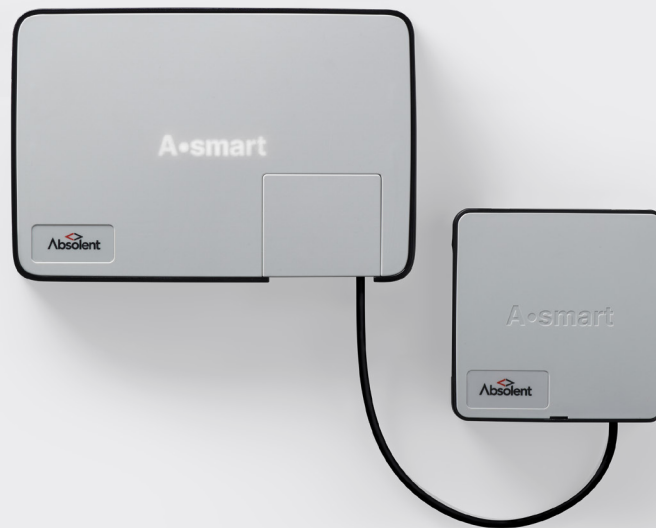


A larger filter to serve as a centralized unit for several machines generating oil mist. Without fan.

Particle load	20 mg/m ³
Nominal airflow	20 000 m ³ /h
External pressure drop	-
Fan motor power	-
Weight with dry filter cassettes	On request
Inlet duct diameter	On request
Dimensions	On request

A•smart

IoT solution



CLEAN AIR. NOW COMPLETELY DIGITAL.

Old factory floors are becoming new digital landscapes as the industry changes at a rapid pace. A•smart is a prime example of what is commonly referred to as the “Internet of Things”, examples of which can be found everywhere in our everyday lives – from smartwatches to self-driving cars. Now you can have full control of both your filter units and the production environment – without having to move an inch.

- ✓ Better air quality
- ✓ Reduces unplanned stoppages in production
- ✓ Helps your machines to achieve optimal performance



A•smart Ambient

Measure particle matter (PM), VOC, CO₂, relative humidity (RH).

Height	41 mm
Width	126 mm
Length	126 mm
Weight	200 g
Measurement	PM, temperature, RH, CO ₂ , VOC



A•smart Gateway

Uploads data collected from the filter units to the Absolent IoT Cloud.

Height	41 mm
Width	163 mm
Length	240 mm
Weight	500 g
Mobile data	GSM/LTE
Type of network	Mesh



A•smart Sense

Connected to Absolent filter unit and collects data and alarms.

Height	41 mm
Width	163 mm
Length	240 mm
Weight	500 g
Mobile data	GSM/LTE
Type of network	Mesh



A•smart Connect

Amplifies and enhances the signal from one or several A•smart Sense units.

Height	41 mm
Width	163 mm
Length	240 mm
Weight	500 g
Mobile data	GSM/LTE
Type of network	Mesh



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