



STRAUS

SAA – STRAUS AEROSOL SEPARATOR

Straus aerosol separators remove reliably and highly efficiently aerosols containing water and oil such as oil and cooling lubricant mist as well as smoke and steam in a wide variety of machining processes.

-AEROSOL SEPARATOR-AIRCLEANER -

Why aerosol separators?

In machining processes such as turning, milling or grinding, the use of cooling lubricants or oils creates **dangerous aerosols**. These aerosols are **harmful to health** (therefore regulations are becoming more and more stringent)!

Deposits from coolant and oil mist can cause a risk of **slipping** on the floor and **malfunctions** in controls. In addition, hazardous **deposits (fire hazard)** can form in exhaust air ducts.



Example from the inner workings of an aerosol separator, which was only in use for 1 month on an automatic lathe (Mazak).

Do you want **THAT** in your lungs ???

Improvements through the use of air purifiers

| Productivity increases through less downtime | Health hazards decrease | The risk of accidents during operation is reduced | Maintenance and cleaning costs are reduced by suction | Heating costs are reduced through the recovery of purified air | Lower operating costs thanks to the new, energy-efficient control system | Valuable consumables can be recovered and reduce manufacturing costs (sustainability!) |

From Weber to Straus: in the field for over 40 years

The Weber company took on the issue of exhaust air more than 40 years ago. With the focus on the separation of liquids, the vapor separator was built very successfully in the 1980s. This technology was further developed and replaced by the disc air filter in the 1990s. With the takeover of Weber by Straus in 2019, the technology of the disc air filter was further developed, optimized and trimmed for maximum efficiency: the Straus aerosol separator SAA1500.

1980 Weber
Haze separator



1995 Weber
Disc air filter



2021 Straus
Aerosol Separator



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Function

The **SAA1500** is an **aerosol separator** and **sucks aerosol** that is created in a processing machine during production. This aerosol is passed through a **multi-stage separation system** and **separates** the **liquid** from the **air**. The separated liquids such as cooling lubricants or oils can be returned directly to the machine or collected in a container.

Thanks to the **multi-stage separation process**, the device can be **adapted** to the respective **conditions**.

Optionally, the escaping air can be cleaned with a **post-filter system (H13 filter)** and the **aerosol separator** becomes an **air filter**.

Facts (Advantages)

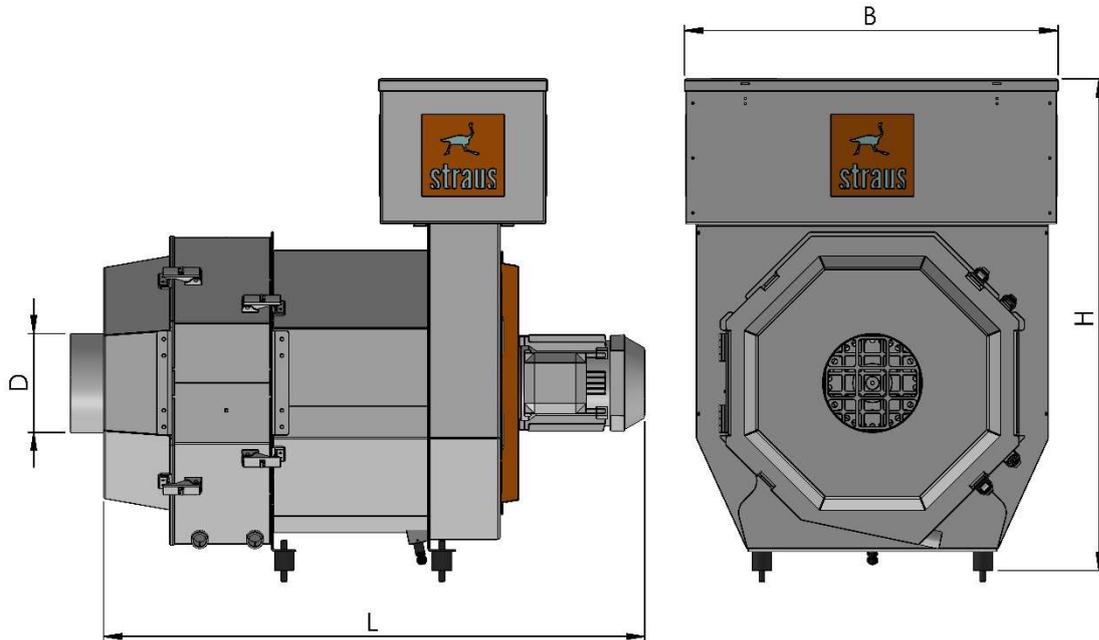
- Proven, state-of-the-art, self-cleaning separation system
- Simple attachment to the processing machine
- High degree of separation through multiple stages
- Simple and compact design
- Simple maintenance and repair without tools thanks to the intelligent housing concept
- All filter stages are easy to clean (therefore hardly any wear)
- By using an intelligent control system to monitor all functions (display in the ultra-modern touch display), up to 80% of energy can also be saved (compared to a disc air filter)
- Universal application on a wide variety of machines
- Custom-made products possible
- Developed, designed and manufactured - all in Germany

Equipment

- Suction hoses, pipes, hoods, chassis ...
- Additional filter extensions (post-filter H13)
- Particle filter attachment in the case of high smoke development
- Unterschiedliche Medien für den Vorverdichter und die Abscheidescheibe
- Different media for the pre-compressor and the separation disc

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Technical specifications



according to sizes **SAA 1000** | **SAA 1500** | **SAA 2500**

| Type | Air volume (m³/h) | | Electrical data | | Dimensions | | | | Weight (kg) | Sound level (dB(A)) 4) |
|---------|-------------------|---------------|-----------------|----------------------|---------------|--------------|---------------|-------------------|-------------|---------------------------|
| | Open 1) | Stocked 2) | Tension | Rated capacity 3) | Length L (mm) | Width B (mm) | Height H (mm) | Connection D (mm) | | |
| SAA1000 | 900 | 1600 | 400V | 0,8kW | 800 | 500 | 650 | 150 | 80 | 68 |
| SAA1500 | 1400 | 2600 | 400V | 1,1kW | 980 | 680 | 900 | 200 | 110 | 70 |
| SAA2500 | 1900 | 4200 | 400V | 1,5kW | 1050 | 750 | 1000 | 300 | 120 | 72 |

- 1) Air volume **with** built-in pre-compressor, separation grille and separation fleece (standard).
- 2) Air volume **without** built-in separation and filter media (free-blowing).
- 3) Through the intelligent connection and disconnection of the motors, only the maximum values are given here. **The actual power consumption is significantly lower.**
- 4) Thanks to the intelligent control, the maximum levels specified here are only reached for a short time. **The continuous levels are significantly lower.**