

LAS 800

LAS



Versatile and flexible
fume extraction in
laser material processing

Extraction. Filtration. Persistence.



To everyone who produces laser fume

Extremely fine laser dust is an unwanted waste product in laser material processing – potentially dangerous to human health, machine functionality and product quality. Therefore, utilizing fume extraction technology is not only indispensable but also challenging in daily production practice. Influential parameters can be the amount of produced dust or the very different dust compositions – depending on which materials are currently being processed. In practice this means repeated

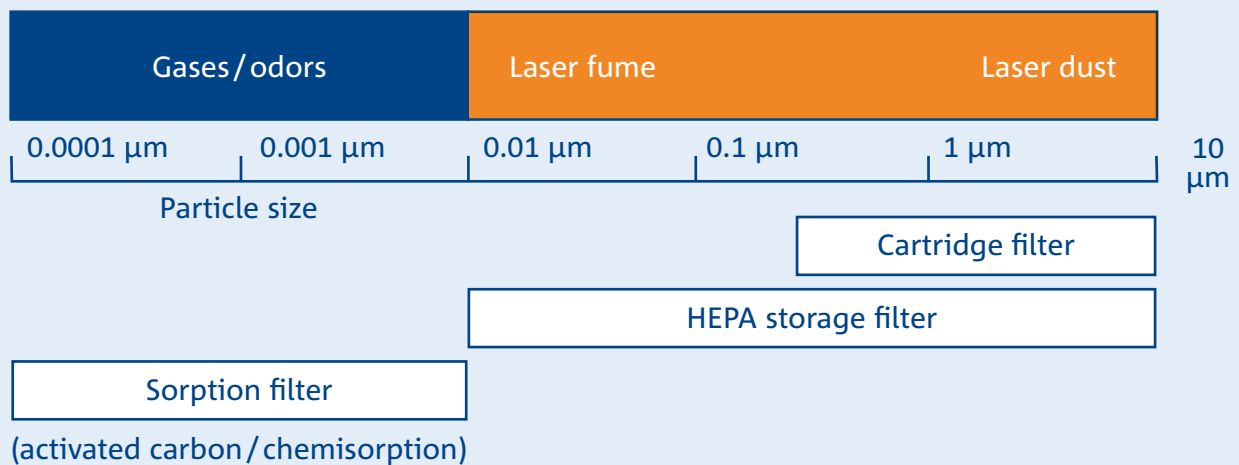
production stops, filter exchanges, or providing additional technology.

That costs time, space, and money. Consequently, laser fume extraction may become the Achilles' heel of production.

ULT presents extraction technology, specifically developed for laser processing of **ever-changing materials in 24/7**.

The LAS 800 combines ULT's long-term experience in laser fume extraction in a versatile and powerful premium product.

Air pollutants and filter types in laser material processing



Typical applications for LAS 800

Processing types:

- » Laser cutting
- » Laser sintering
- » Laser welding
- » Laser marking
- » Laser structuring
- » Laser ablation

Industries including:

- » Plastics processing
- » Machinery
- » Electronics manufacturing
- » Automotive
- » Aerospace
- » Advertising material production

Basic equipment

Cleaning system

For filter cartridges with compressed air tank and valves

Cartridge filter

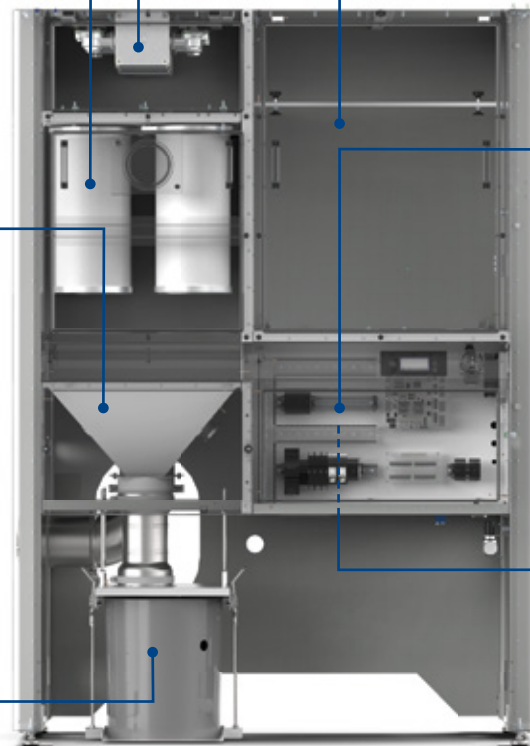
4 pieces of 4.5 m² filter surface

Hopper

with copper baffle plate for direct separation of coarse particles and to prevent impact sparks

Dust collector

30 l



Space for optional filter modules

(complementary storage filters)

Digital control, control panel and display

- » With operating status and error display
- » Multilingual, switchable
- » Analog interface

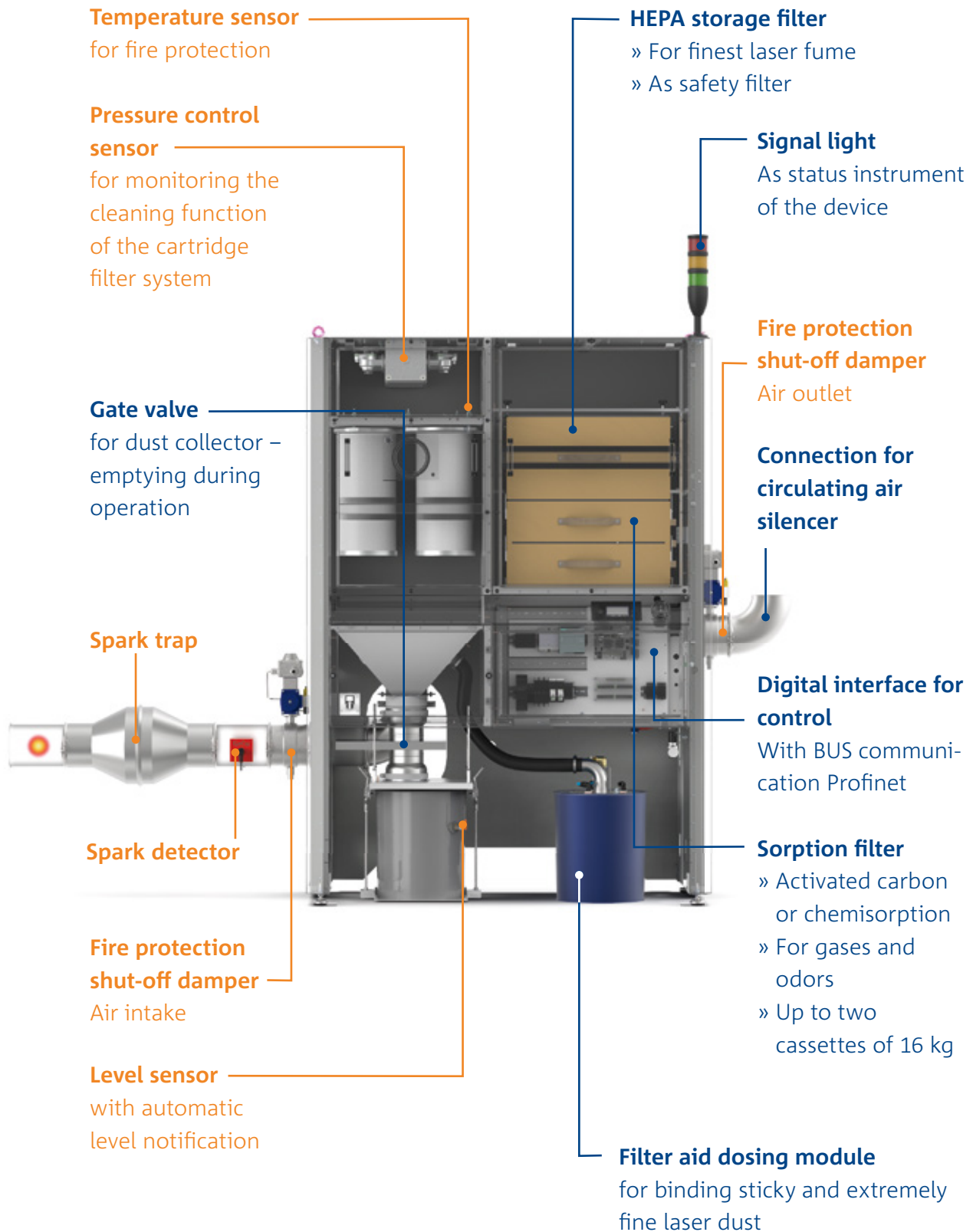
Energy efficient high-pressure ventilator

- » Extremely quiet in operation
- » Adjustable suction power

The additional equipment in the LAS 800 was designed for complex air pollutant situations, caused by changing materials and production conditions. Sticky laser dusts and extremely fine laser fume may occur, often accompanied by toxic gases and unpleasant odors. Additional filters are required to separate these air pollutants.

To counter the increased risk of fire and explosion in connection with the laser processing of certain metals, additional safety options are offered. For the integration into automated production, the LAS 800 optionally provides a network connection to the digital control of the entire system.

Optional add-on equipment



—•— Additional safety options

This is the LAS 800

The LAS 800 removes laser dust in large quantities and of varying quality from the air in the workplace – safe, reliable and without retooling. Attention is paid to fire protection.

Equipped with highly effective cartridge filters, the LAS 800 eliminates air pollutants in many laser machining processes. Designed modularly, it can be retrofitted for special pollutant situations.



User benefits

- » One of the quietest devices in its class
- » Highly energy-efficient thanks to IE3 fan
- » Flexible platform for adapting to changing processes
- » Integrated safety equipment (including fire extinguisher flap)
- » Compact design with a small footprint
- » Version for flammable or explosive dusts optional
- » Modern BUS communication optional

Technical specifications / equipment

Max. air flow	1,440 m ³ /h
Max. vacuum	4,900 Pa
Max. nominal capacity	500 m ³ /h at 3,900 Pa 860 m ³ /h at 2,800 Pa
Motor rated power	2,2 kW
Dimensions (W x D x H)	1,450 x 800 x 2,000 mm
Weight	350 kg
Nominal voltage	3~ 400 V
Frequency	50/60 Hz
Nominal current	4 A
Housing	Sheet steel
Suction position	Selectable: right, left, back
Exhaust position	Right

The information relates to the device variant LAS 800 HD.65 in the basic configuration.

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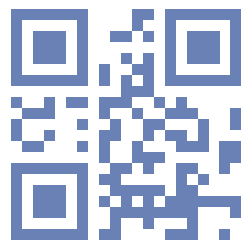
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