Technical documentation

LASER FUMES

DUST AND SMOKE

SOLDERING FUMES

ODORS, GAS AND VAPORS

CLEANING INDUSTRIAL GASES

NEW EMISSIONS

WELDING FUMES

OIL AND EMULSION MISTS

COMPLETE SOLUTIONS

Series 1200
LAS 1200 MD.18 FHA16

Issue: 02/2023

Technical documentation

LAS 1200 MD.18 FHA16

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Application and use

The **LAS 1200 MD.18 FHA16** is suitable for collecting and filtering dry and non-flammable dusts in non-explosive air mixtures that occur during laser processes. Many laser processing systems generate mixtures of dust, fumes and vapors with different compositions, which are filtered by the **LAS 1200 MD.18 FHA16** . With multiple air purification, the combination of three filter stages ensures a precipitation rate considerably greater than 99% with regular filter maintenance or filter replacement.

Examples

- Laser cutting
- Laser engraving
- Laser forming

ULT 1200 mobile extraction and filtration unit

- Mobile device with castors
- With changeable filter system
- Control elements on the front
- Rugged sheet steel housing
- Powder coated
  - Vacuum module RAL 7001 silver gray
  - Filter module 7035 light grey

Filter system:

Storage filter system
Filters that must be replaced when their absorption capacity is reached.

Filter technology:

Main filter module

(1) Particle filter cassette F
Filter class: ePM_1 80%, fine dust filter according to ISO 16980
(2) Particle filter cassette H13
Filter class: H13 HEPA filter, suspended matter filter to DIN EN 1822
(3) Adsorption filter A16
Filter medium: activated carbon filter (16 kg)

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LAS 1200 MD.18 FHA16

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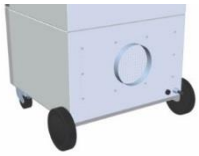
LAS 1200.0-MD.bb.cc.5028

Parameter	Unit	**-MD.18.10**	
Volumetric flow, max	m³/h	1,500	
Vacuum max.	Pa	3,250	
Rated volumetric flow	m³/h / Pa	1,000 / 1,700	
Rated motor power	kW	0.86	
Rated voltage	V	1~ 230	
Rated current	A	4.8	
Frequency	Hz	50 / 60	
Protection rating	IP	54	
Vacuum generator type		Blower	
Noise level (@ 50 - 100%)	dB(A)	55 - 65	
Air flow controller		yes	
Particle filter saturation indicator	optical	yes	
SUB D9 interface	(1*)	Optional	
Digital device control, integrated	(2*)	Optional	
Digital device control, non-integrated		Optional	
Operating hours counter		Optional	
Exhaust air vent DN 200	(3*)	Optional	
Air intake versions	Spigot	1x Ø 150 mm flange collar	
	Position	Device rear, top	
	Spigot	1x Ø 160 mm flange collar	
	Position	Device cover	
Air outlet		Exhaust grille	
	Position	Device rear, bottom	
Width	mm	790	
Depth	mm	820	
Height	mm	1,340	
Weight	kg	Approx. 215	
Power line	m	5	
Filter set-up		Filter system: Storage filter	
		Full filter set consisting of:	
	(1)	Particle filter cassette F	4-00828
	(2)	(Particle filter cassette H13	4-00094
	(3)	Adsorption filter A16	4-00399
Optional		Expanded metal filter (optional)	4-00312

(1*)

(2*)

(3*)



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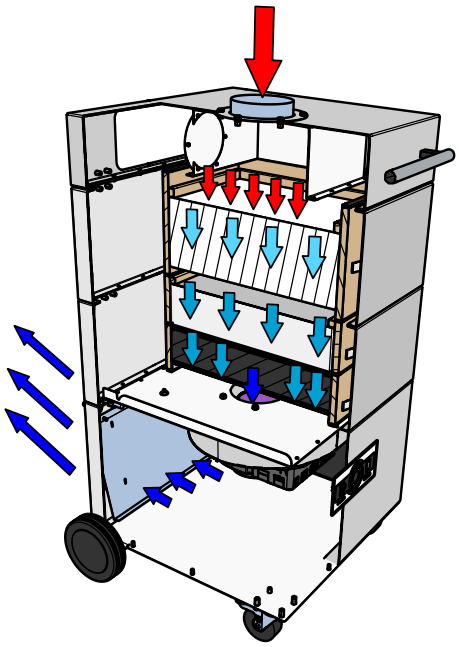

Raw gas
Filtration
Clean gas

Functional principal:

A high-output fan with a high pressure reserve generates a volumetric flow suitable for the application on the **clean air side** of the filter. The volumetric flow can be controlled individually and infinitely variably. In this way, the pollutant-laden air is extracted in a reliable manner.

The **particles** are precipitated and held back in a fine dust and particle filter. The precipitation (adsorption) of **gaseous and vaporous** air contaminations takes place in the activated carbon filter of the multi-stage storage filter system.

Filters that must be replaced when their absorption capacity is reached.

A complete set of filters:

	Spark protection	Expanded metal filter (optional)
(1)	**Fine dust filter**	Panel filter F
(2)	**Particle filter**	Suspended matter filter H13
(3)	**Gas filter**	Adsorption filter cassette A16 (16 kg active carbon)

Due to the high degree of cleaning, the **filtered air** can then be returned to the working area. This avoids any loss of heat.

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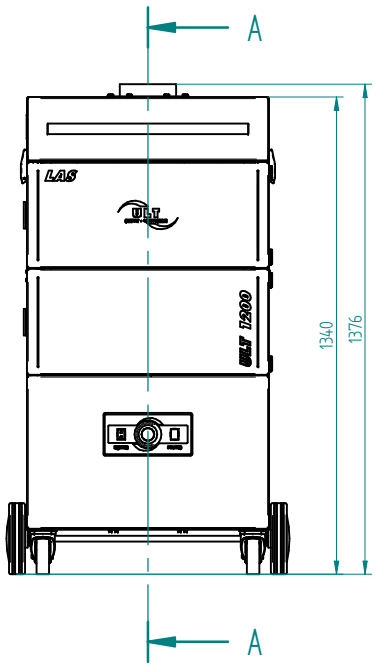
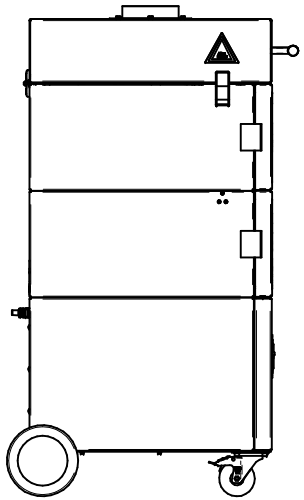
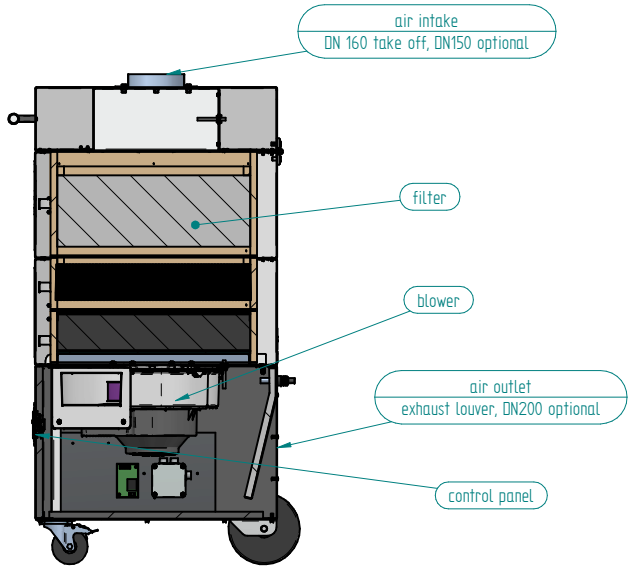
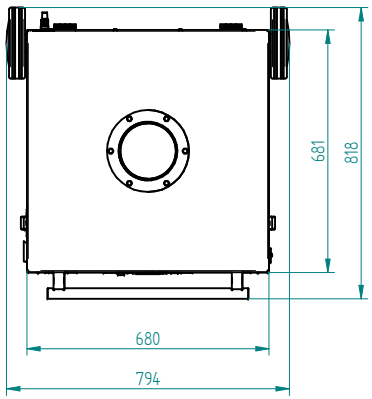
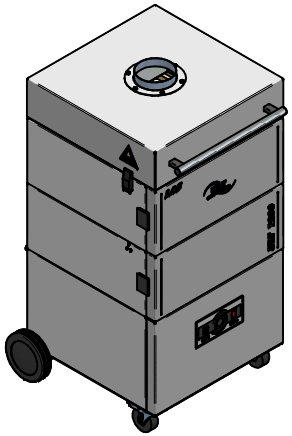


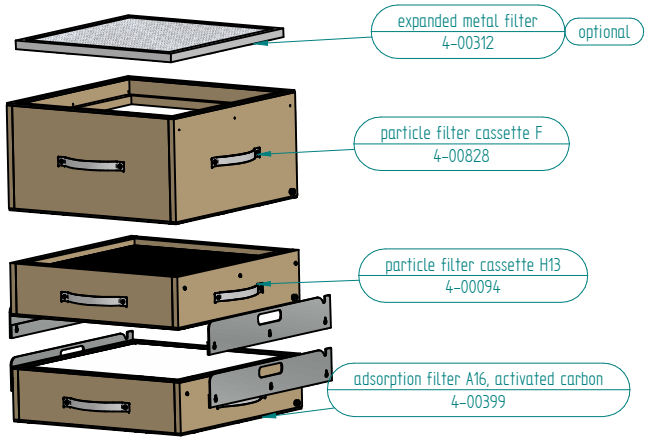




Schnitt A-A







Aktuelle Änderung

Index

Weitere Maße sind dem 3D-Datensatz zu entnehmen.

Revisionen				
Index	Beschreibung	Blatt	Datum	Bearbeiter
000	Basis		03.06.2022	t.heinitz
001	Streckmetallfilter 4-00312 optional eingefügt		06.01.2023	t.heinitz

Abteilung: TAB	Technische Referenz: t.heinitz	Dokumentenstatus: Verfügbar	Erstellt von: t.heinitz / Erstellt am: 03.06.2022
		Titel / Untertitel: LAS 1200 MD.xx FHA16	Geprüft von / Geprüft am
			Dokumententyp
		Dokumentennummer: ULT1200_00_320	Revision: 001 / Sprache: DE / Maßstab: 1:15 / Blatt: 1 von 1

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Schutzvermerk ISO 16016 beachten.