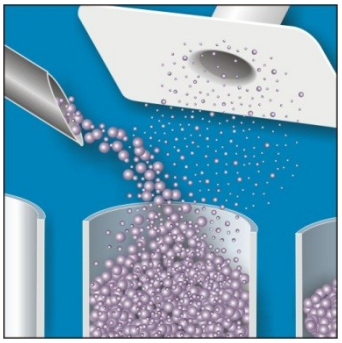
ASD 500 MD/HD 1PaR10 PE

Technical documentation

Issue: 10/2022

ULT UMWELT - LUFTTECHNIK

ULT 500



Clean air,
high performance.

The ASD series, extraction and filtration systems for dust, gases and vapors.

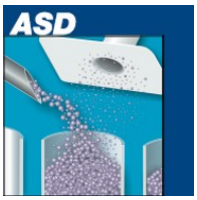
Air technology for environment and health protection

Technical documentation
Extraction and filtration unit

ASD 500 MD/HD 1PaR10 PE

Application and use

The **ASD 500 MD/HD 1PaR10 PE** is suitable for capturing and filtering dry and non-flammable **dusts** in non-explosive air mixtures. Toxic dust particles that are released can be captured by the collection elements immediately adjacent to their point of generation, and are filtered by the ASD 500 MD/HD 1PaR10 PE. The high-quality filter material of the filter element ensures effective filtration of the various different particulate fractions in the dust. Very long service lives of the main filter are ensured by process-adapted regular **automatic pneumatic cleaning** of the filter elements using the counterflow principle and a rotating nozzle technology that is particularly gentle on the filter membrane.



Dust and smoke

Examples

- ⇨ Grinding, engraving
- ⇨ Transferring
- ⇨ Polishing

ULT 500 stationary extraction and filtration unit

stationary unit,
different performance classes, low maintenance
robust sheet steel housing, powder coating RAL 7035 light gray

Filter system:

Cartridge filter

Automatically cleanable filter elements for high pollutant levels

Filter technology:

Main filter module

Filter cartridge:	1 pieces
Filter material:	Polyester fiber
Filter class:	Dust class M, separation efficiency > 99% [for test dust > 2 µm]
Filter area:	1 x 10 m²

Equipment:

Cleaning interval encoder:	Cleaning interval can be adapted to the machining process
Manual cleaning:	can be performed at any time via pushbutton
SUB D9 interface:	Standard equipment for terminal strip, remote I/O, operation, filter saturation 100%

ULT AG Website: www.ult.de e-mail: ult@ult.de
Am Göpelteich 1 D-02708 Löbau, Germany Telephone +49 35 85 41 28-0Fax +49 35 85 41 28-11

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Extraction and filtration unit

ASD 500 MD/HD 1PaR10 PE

Technical data

Parameter	Unit	MD.45	MD.47	HD.14
Max. volumetric flow	m³/h	1,700	2,100	400
Vacuum max.	Pa	2,600	2,880	20,200
Rated volumetric flow	m³/h / Pa	600 / 2,400	750 / 2,750	270 / 5,000
Rated motor power	kW	1.50	2.20	1.80
Rated voltage	V	3~ 400	3~ 400	3~ 230
Rated current	A	3.3	4.8	13
Frequency	Hz	50	50	50/60
Protection rating	IP	54	54	54
Vacuum generator type		Fan	Fan	EC turbine
Noise level	dB(A)	62	62	70
Air flow controller		no	no	no
SUB D9 interface		Optional	Optional	Optional
Particle filter saturation indicator	optical	yes	yes	yes
Operating hours counter		Optional	Optional	Optional
Pneumatic gate valve	(1*)	Optional	Optional	Optional
automatic filter aid dosage		optional	optional	optional
Air intake versions	Spigot	1x Ø 125 mm, other diameters as an option		
	Position	right rear on filter chamber, optionally rear or left side		
Air outlet		Exhaust grille		
	Position	on top		
Width	mm	660 (850 with control cabinet)		
Depth	mm	590		
Height	mm	2,280		2,050
Weight	kg	150		
Power line	m	5		
Filter set-up		Filter system: Cartridge filter, automatic cleaning		
		One filter cartridge, polyester fiber, 10 m² filter area		ULT 02.0.004

(1*)

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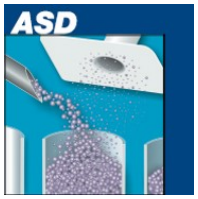
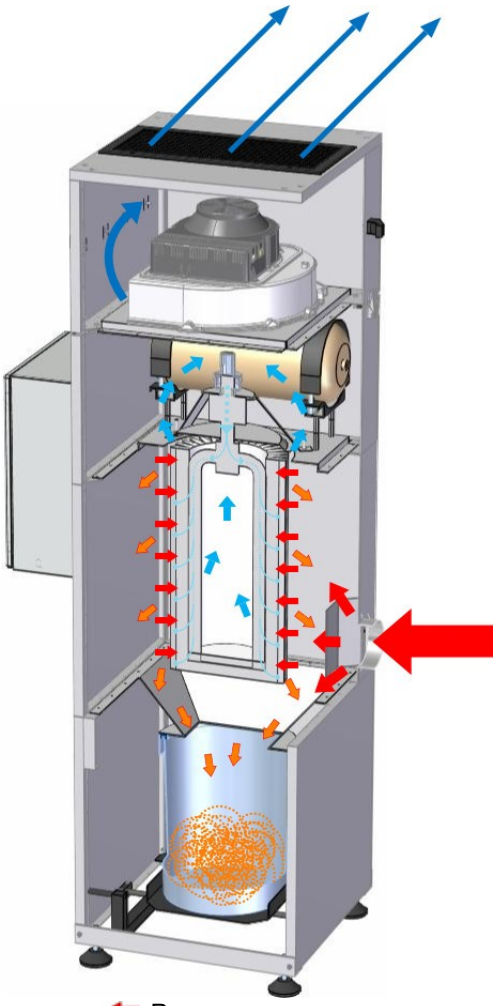
Technical documentation
Extraction and filtration unit

ASD 500 MD/HD 1PaR10 PE



Dust and smoke



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. In this way, the pollutant-laden air is extracted in a reliable manner.

The **particles** are separated at the **filter cartridge** (polyester fiber) based on the **surface filtration** principle. The clogged filter cartridges are cleaned automatically via a rotary nozzle by means of the **compressed air in a counterflow principle**. A compressed air connection (6 - 10 bar) is required for operation of the system. The **cleaned particles** fall into the removable dust collection container.

Cartridge filter system

Automatically cleanable filter elements for high pollutant levels

Filter cartridge ULT 02.0.004

(1)	**Particle filter**	Filter cartridge dust class M, separation efficiency > 99%

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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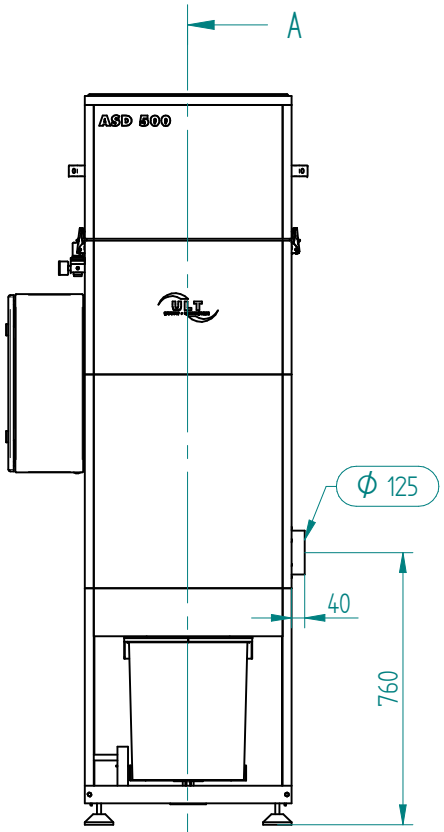
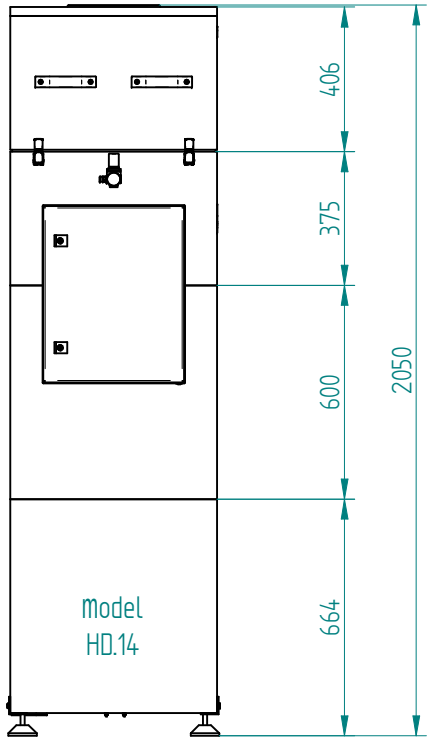
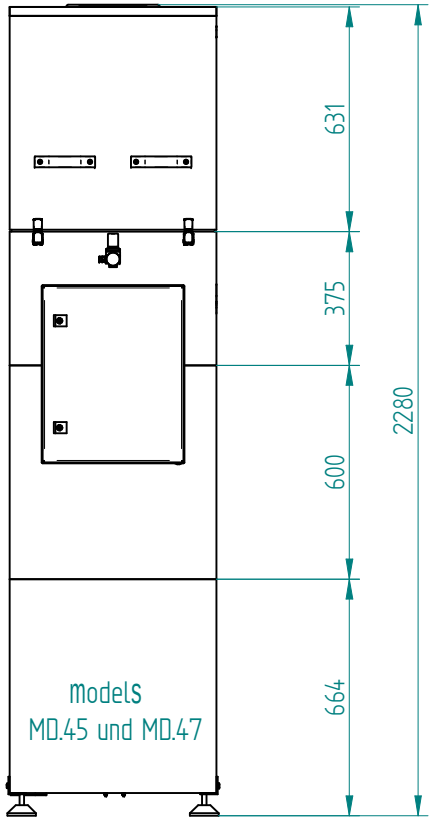
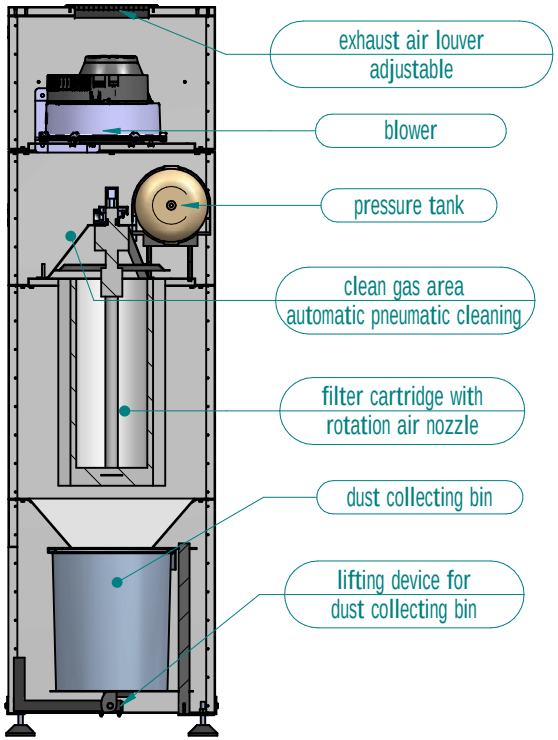
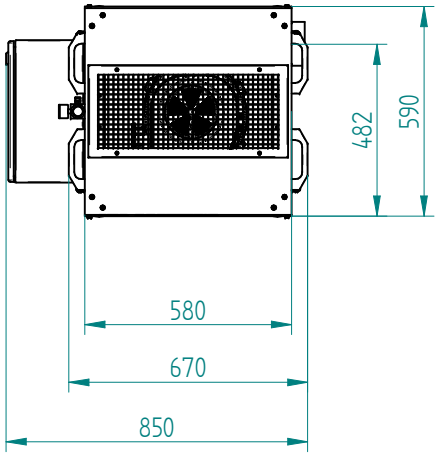


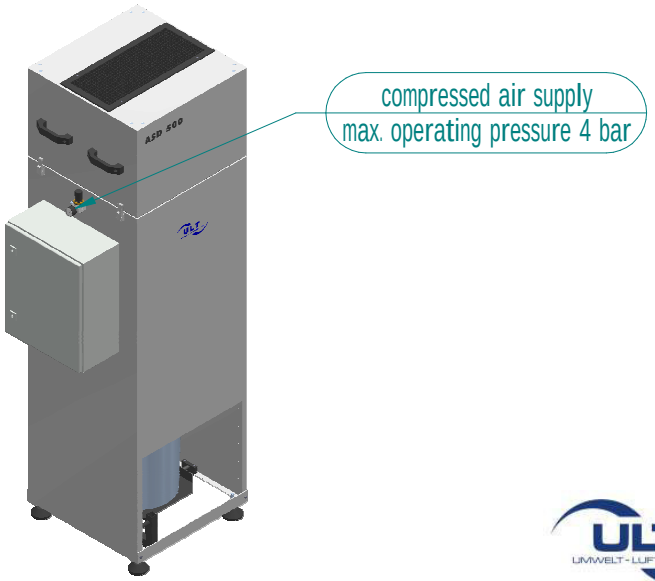




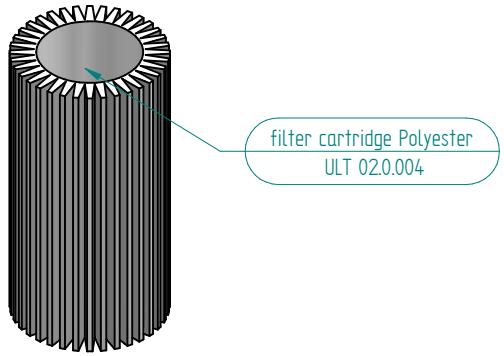


cutaway A–A





filter set consisting of:



					ULT AG Am Gopelteich 1 D-02708 Lobau				Benennung: ASD 500 MD/HD 1PaR10 PE	
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001	Basis	13.05.13	JSACZ		Bearb.	13.05.	JSACZ		Zeichnungsnummer: ULT 500_00_002_001	Maßstab: 1 : 15
Aus-gabe	Änderung	Tag	Name		Gepr.					
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