Technical documentation

series 2500
ASD 2500 MD 4PaJ45

Date of issue: 05/2021

LASER FUMES

DUST AND SMOKE

SOLDERING FUMES

ODORS, GASES, AND VAPORS

CLEANING INDUSTRIAL GASES

NEW EMISSIONS

WELDING FUMES

OIL AND EMULSION MISTS

COMPLETE SOLUTIONS

ULT
UMWELT - LUFTTECHNIK

Extraction. Filtration. Persistence..

Technical documentation

ASD 2500 MD 4PaJ45

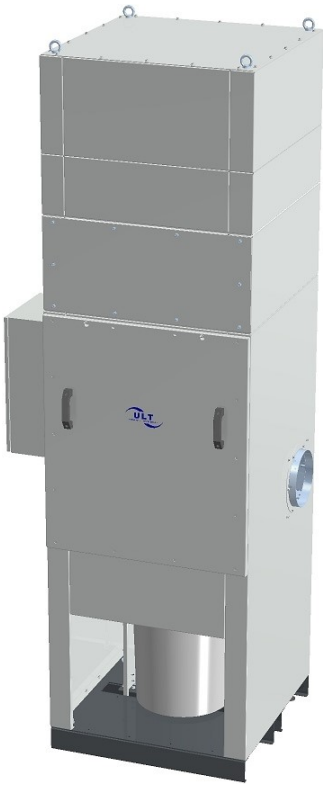
DUST AND SMOKE

Use and application

The **ASD 2500 MD 4PaJ45** is suitable for collecting and filtering dry and non-combustible types of dust contained in non-explosive air mixtures. Any emitted and partially unhealthy **types of dust** ought to be extracted by collecting elements directly at their place of origin and can be filtered by the ASD 2500 MD 4PaJ45. The material of the filter elements ensures effective filtering out of the various dust particle sizes with a separation efficiency lying significantly above 99%. Regular **automatic pneumatic cleaning** cycles of the cartridge filters through Pulse-Jet flushing guarantee very long main filter lifetimes. An optional non-return flap at the raw gas intake can prevent pressure fluctuations in the air intake piping system during the pneumatic cleaning process.

application examples

- grinding,
- decanting,
- polishing,
- milling



ULT 2500 special features

- cartridge filter system with automatic cleaning
- easy filter handling, Quick-Lock system
- 70 ltr. dust collecting bin
- control elements located in separate cabinet
- robust steel housing
- powder coated: RAL 7035 light grey

Filter system:

- filter cartridges: 4 pieces, conical, mounting from raw gas side
- cleaning: triggered by rising differential pressure, Pulse-Jet flushing
- filter material: Polyester fibre (low pressure loss)
- filter class: class M according to DIN EN 60335-2-69:2008
- filter surface: 45 m^2 (3x 12,5 m^2, 1x 7,5 m^2)

Vacuum generator

- Middle pressure fan with 3-phase drive, integrated noise modulation

Configuration

- Separate control cabinet with status signs and control elements

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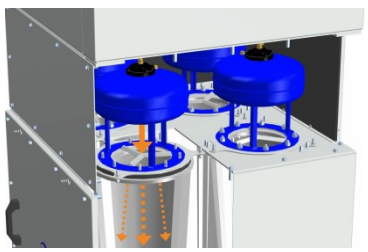
DUST AND SMOKE

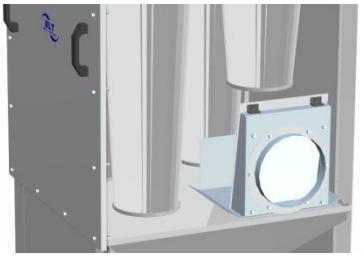
ASD 2500.0-MD.63.30.4011

Parameter	unit	
Max. air flow	m^3 / hr	3.250
Max. vacuum	Pa	5.000
Nominal capacity	m^3/hr / Pa	3.000 / 2.750
Motor-nominal power	kW	4,0
Nominal voltage	V	3~ 400
Nominal current	A	7,5
Frequency	Hz	50
Protection class	IP	54
Type blower		Ventilator
Air intake	Ø	1x 250 mm
	position	lower back on the right side, optional on the left side
Air outlet	Ø	exhaust air louver; optional nozzle 1x Ø 250 mm
	position	upper backside
Width	mm	900
Depth	mm	1.000
Height	mm	3.120
Weight	kgs	ca. 600
Length of power cable		Has to be connected to the control cabinet
configuration		
Automatic pneumatic cleaning	(1*)	pneumatic, Pulse-Jet flushing
Loaded particle filter indicator		visualization with signal lamp
non-return flap (optional)	(2*)	no pressure fluctuations in intake piping
70 l dust collecting bin	(3*)	dust collection and disposal containment in one piece
Transportation feet, lifting eyes		easy handling during transportation and installation
Filter system		filter system: cartridge filter, automatic cleaning by Pulse-Jet
		Filter cartridge set - Polyester fibre ▪ 3x filter cartridge 12,5 m^2 ▪ 1x filter cartridge 7,5 m^2 ULT 02.0.787

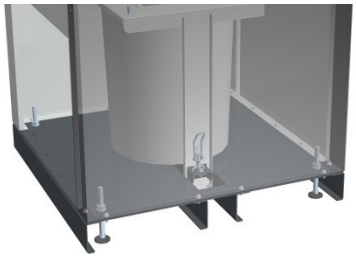
(1*)



(2*)



(3*)



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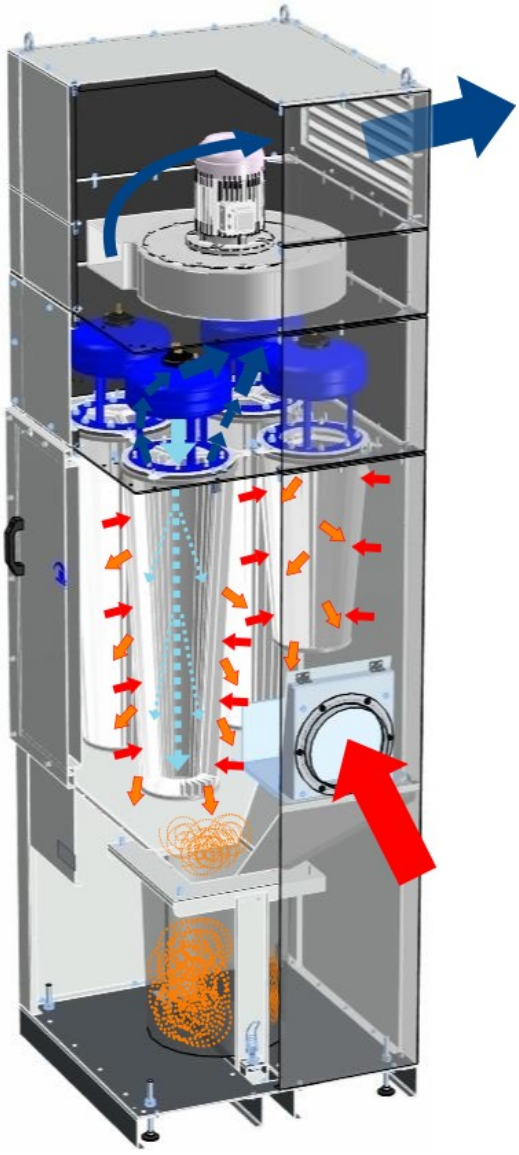

raw gas

clean gas

detached filter material

collected filter material

cleaning air stream

Functional principle:

At the clean-air side of the filter, a vacuum generator with a high pressure reserve produces a volume flow matched to the respective application. This volume flow can be individually and infinitely variably regulated. Thus, the polluted air will be reliably extracted.

The **dust particle fractions** are captured directly at the place of their origin by appropriate collecting elements and through an applicable piping system the pollutants are carried to the filter elements. To prevent the filter elements from getting worn out in short time they are protected by a baffle plate or a non-return flap at the air intake holding back large particles.

The particles are separated and held back on two filter cartridges (polyester fibre) by the surface filtration principle. Clogged filter cartridges are automatically and individually treated with a Pulse-Jet stream on the basis of the counter flow cleaning principle. Operating the cleaning system requires compressed air supply (4 – 5 bar). The particles blown off fall into a 70 l one-way collecting bin provided for the removal and disposal of the filter deposits.

Cartridge filter system

automatically cleanable filter element for high pollutant emission

(1) particulate filter — filter cartridges, class M according to DIN EN 60335-2-69:2008, separation efficiency > 98% (at particle size of 4 µm), filter surface 45 m²

This excellent filter efficiency makes it possible to recirculate the **filtered air** (please pay attantion to your regional regulations) and reduce energy costs.

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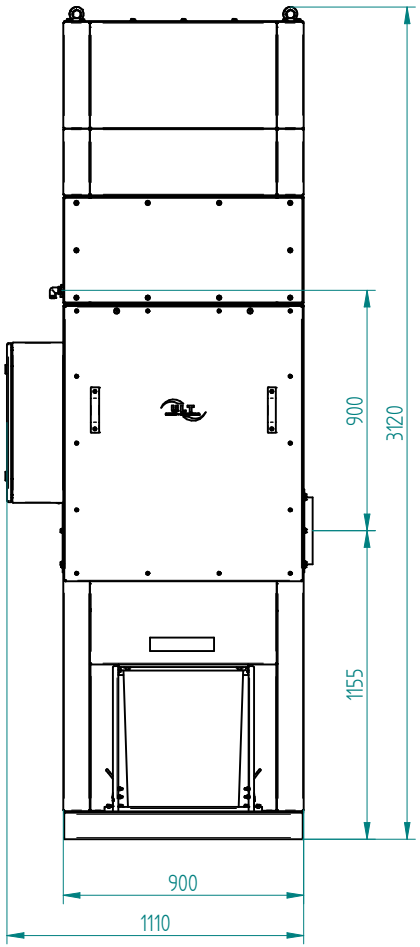

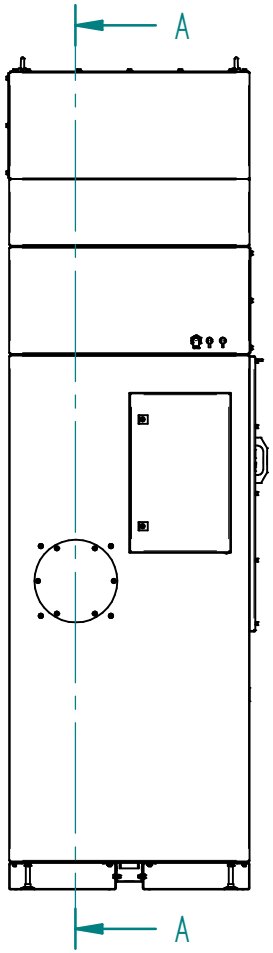

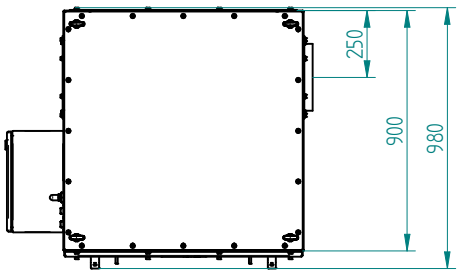

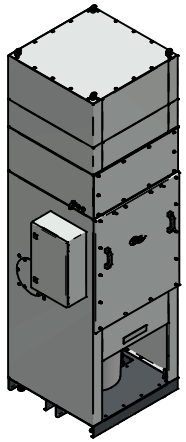

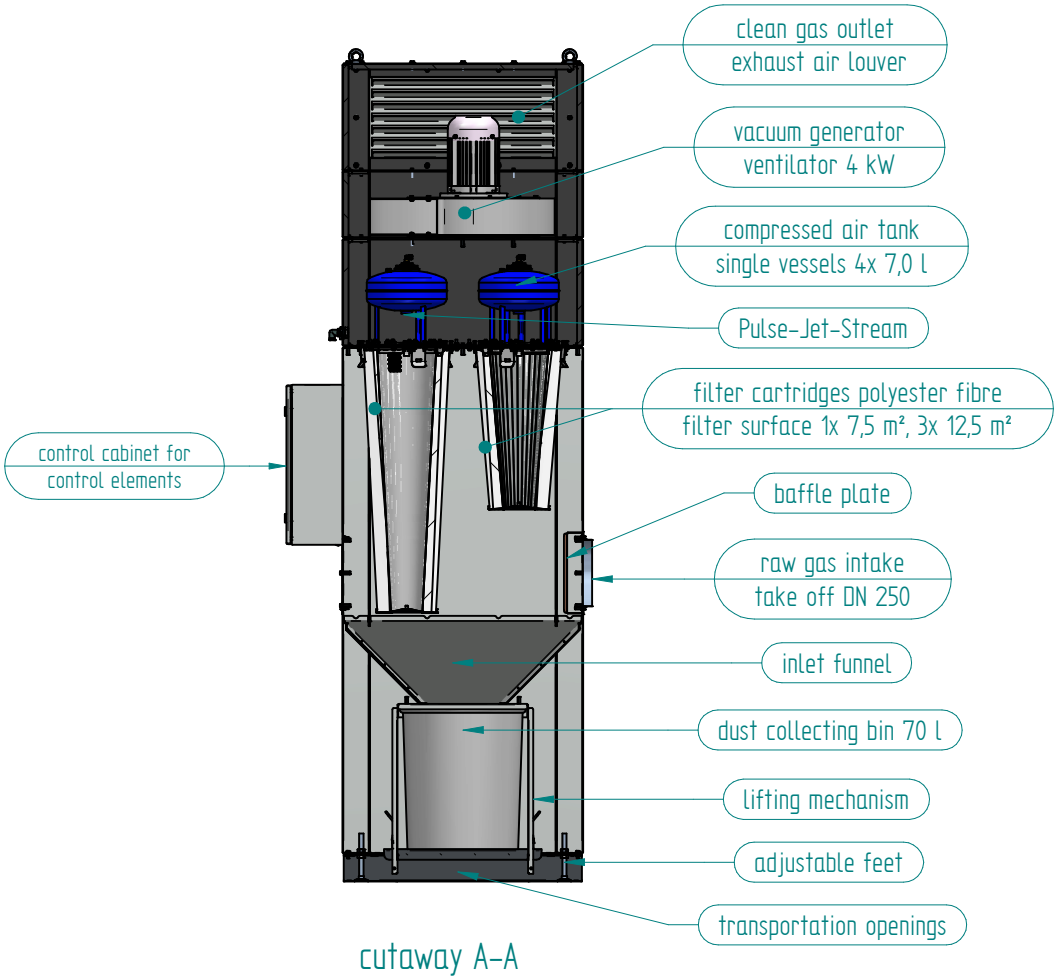

cutaway A-A

Allgemeintoleranzen DIN ISO 2768-mK

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UMWELT-LUFTTECHNIK

				ULT AG Am Gopelteich 1 D-02708 Lobau			designation: ASD 2500 MD 4PaJ 45 3000 m³/h
001	Versions	19.03.14	JSacz	2013	date	name	drawing number: ULT2500_00_003
000	Base	30.10.13	JSacz	edit.	30.10.	JSacz	scale: 1 : 20
issue	revision	day	name	veri.			
				Norm			