

**ASD 400 TH**  
Technical documentation  
Date of issue: 03/2020



# ULT 400



**Clean air,  
high performance.**

**ASD-series, mobile  
air extraction and  
filtration units for  
dust and smoke.**



*Air handling equipment for environmental and health protection*

# Technical documentation

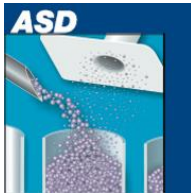
## Air extraction and filtration unit



# ASD 400 TH

### Use and application

The **ASD 400 TH** 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 400 TH. The material of the filter elements ensures effective filtering out of the various dust particle sizes. The different filter elements can be changed separately extending the lifetime of the main filter element. The main filter element guarantees a separation efficiency of > 99 %.



*smoke and dust*

### Examples

- ⇒ engraving
- ⇒ polishing
- ⇒ grinding
- ⇒ restoration / cleaning of artworks

### ULT 400 mobile air extraction and filtration unit

mobile unit,  
with storage filter system  
robust steel housing, powder coated  
RAL 7035 light grey / RAL 5017 traffic blue



### Filter system:

Storage filter system  
Filters which are replaced once they are saturated.

### Filter technology:

Main filter module

- (1) Pocket filter F7  
filter class: F7 fine dust filter according to DIN EN 779
- (2) Particle filter H13  
filter class: H13 HEPA-filter according to DIN EN 1822

### Configuration:

Air flow controller: suction power is continuously adjustable  
Loaded particle filter indicator: visualization of the particle filter condition

# Technical documentation

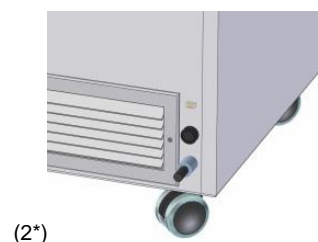
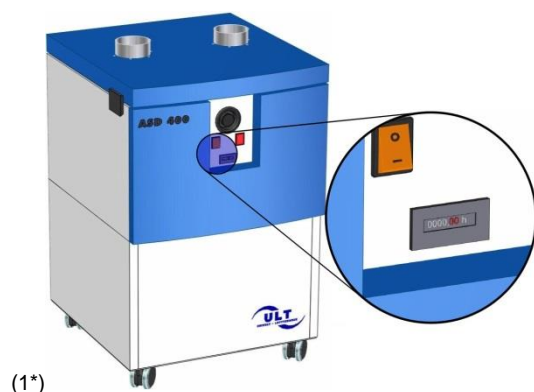
## Air extraction and filtration unit



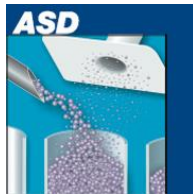
# ASD 400 TH

### technical Data

Parameter	unit	MD.17
Max. air flow	m <sup>3</sup> /h	1.000
Max. vacuum	Pa	2.600
Nominal capacity	m <sup>3</sup> /h / Pa	400 / 2.300
Motor-nominal power	kW	0,70
Nominal voltage	V	230
Nominal current	A	3,5
Frequency	Hz	50 / 60
Protection class	IP	54
Type blower		EC-blower
Noise level (at 50 - 100%)	dB(A)	< 60
Weigth	kgs	ca. 95
Air flow controller		yes
Loaded particle filter indicator	optical	yes
Operating hours counter	(1*)	optional
SUB D9 interface	(2*)	optional
Remote digital control		optional
Air intake		2x Ø 100 mm take off, optional further Ø
	position	on top of the unit
Air outlet		air exhaust louver
	position	lower rear side
Width	mm	600
Depth	mm	650
Height	mm	930
Length of power cable	m	5
<b>Filter system</b>		filter system: storage filter
		filter set consisting of:
	(1)	Pocket filter F7 <span style="float: right;">ULT 02.0.072</span>
	(2)	Particle filter H13 <span style="float: right;">ULT 02.0.041</span>



# ASD 400 TH

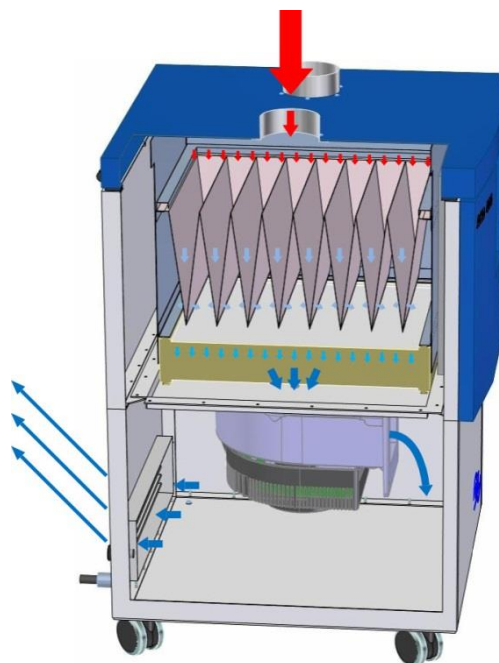


smoke and dust

### 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 **particles** are reliably filtered in a multi-stage filtering system, consisting of pocket filter and high efficiency particulate airfilter.



Storage filter system

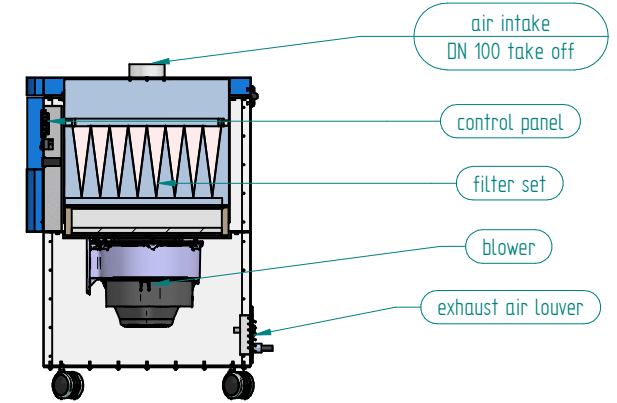
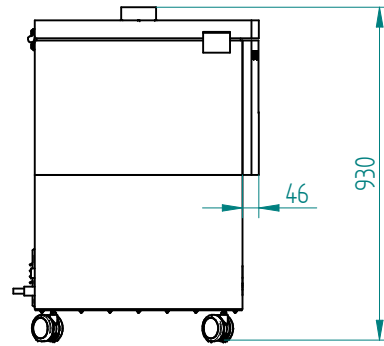
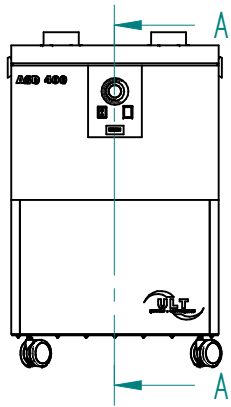
Filters which are replaced once they are saturated.

Filtration set complete

- |                               |                    |
|-------------------------------|--------------------|
| (1) <b>fine dust filter</b>   | Pocket filter F7   |
| (2) <b>particulate filter</b> | Aerosol filter H13 |

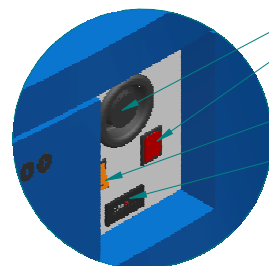
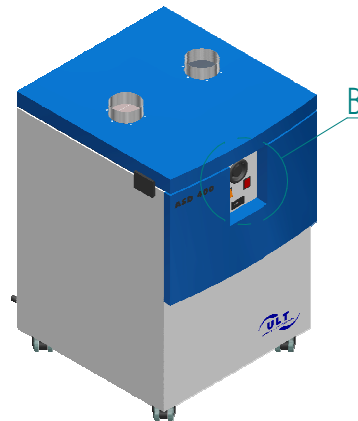
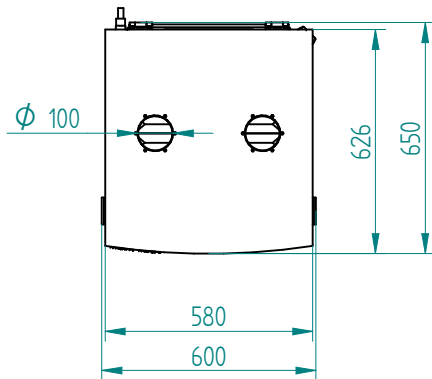
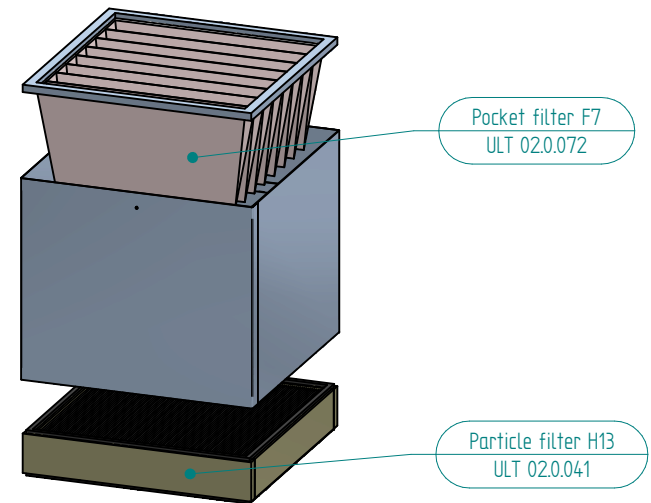
This excellent filter efficiency makes it possible to recirculate the **filtered air** and reduce energy costs.

- ← raw gas
- ← filtration
- ← clean gas



cutaway A-A

filter set consisting of:



DETAIL B

- air flow controller
- loaded particle filter indicator
- on/off switch
- operating hours counter optional

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issue	revision	day	name	Norm		scale: 1 : 15	

