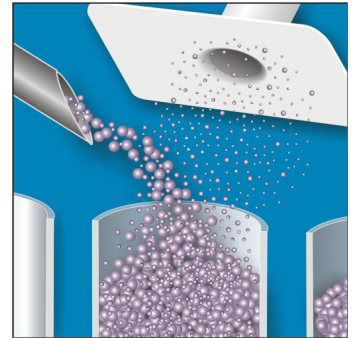


**ASD 400**  
**Technical documentation**  
Date of issue: 10/2015



# 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*

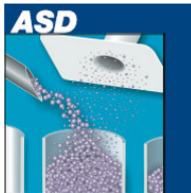
# Technical documentation

## Air extraction and filtration unit



# ASD 400

### Use and application



smoke and dust

The **ASD 400** 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. 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 %.

### 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

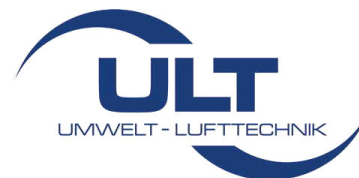
- (1) Expanded metal filter  
metal knitting, spark protection filter
- (2) Filter mats M5/F7 in Replacement frame  
filter classes: M5 medium dust filter and F7 fine dust filter  
according to DIN EN 779
- (3) Particle filter H13  
filter class: H13 HEPA-filter according to DIN EN 1822

### Configuration:

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

# Technical documentation

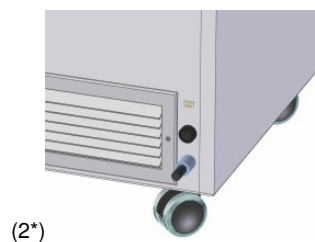
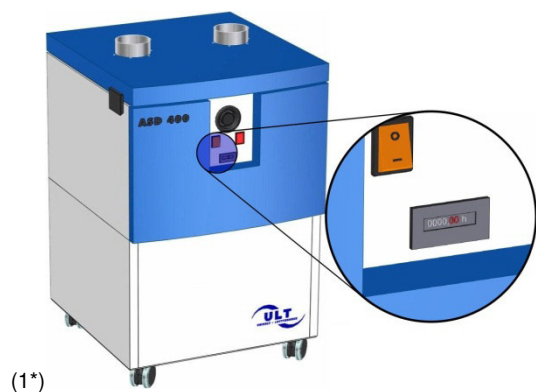
## Air extraction and filtration unit



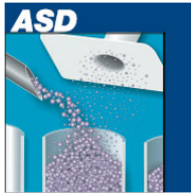
# ASD 400

### technical Data

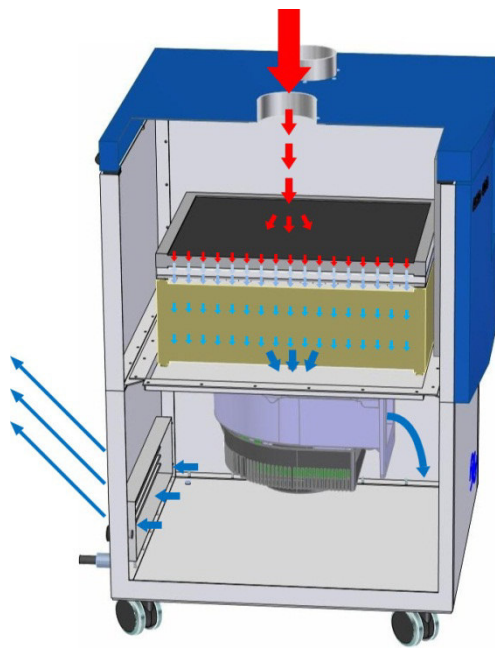
Parameter	unit	400-1	
Max. air flow	m <sup>3</sup> /h	1.000	
Max. vacuum	Pa	2.600	
Nominal capacity	m <sup>3</sup> /h / Pa	400 / 2.300	
Motor-nominal power	kW	0,70	
Nominal voltage	V	230	
Nominal current	A	3,5	
Frequency	Hz	50 / 60	
Protection class	IP	54	
Type blower		EC-blower	
Noise level (at 50 - 100%)	dB(A)	57 - 62	
Weight	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)	Expanded metal filter	ULT 02.0.015
	(2)	Filter mats M5/F7	ULT 02.0.039
	(3)	Particle filter H13	ULT 02.0.042



### ASD 400



smoke and dust



-  raw gas
-  filtration
-  clean gas

#### 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 two filter mats with increasing efficiency and high efficiency particulate airfilter.

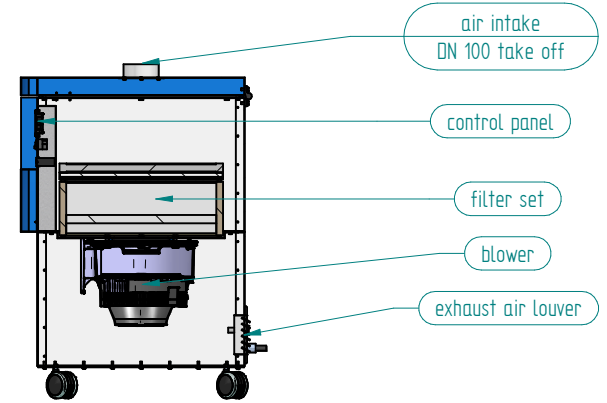
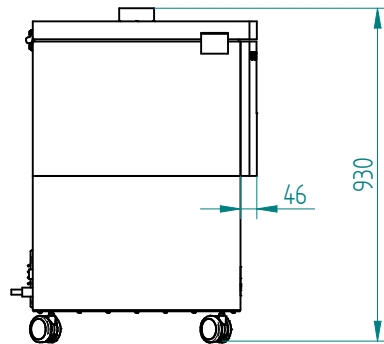
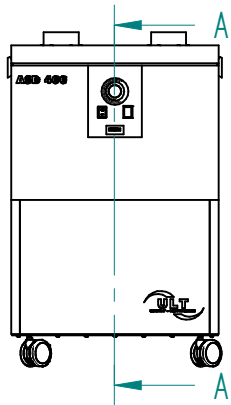
Storage filter system

Filters which are replaced once they are saturated.

Filtration set complete

- |   |                       |
|---|-----------------------|
| (1) <b>sublimation / spark protection</b> | Expanded metal filter |
| (2) <b>fine dust filter</b>               | Filter mat M5         |
| (3) <b>fine dust filter</b>               | Filter mat F7         |
| (4) <b>particulate filter</b>             | Aerosol filter H13    |

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



Schnitt A-A

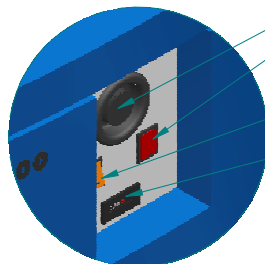
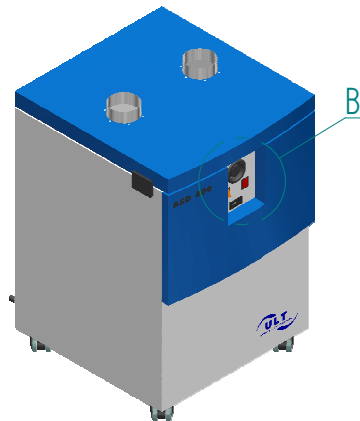
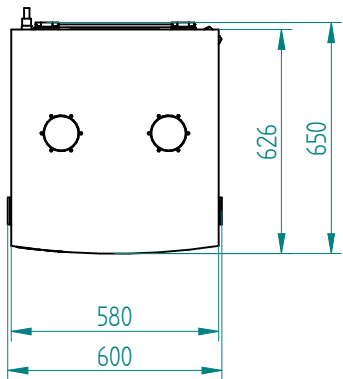
air intake  
DN 100 take off

control panel

filter set

blower

exhaust air louver



DETAIL B

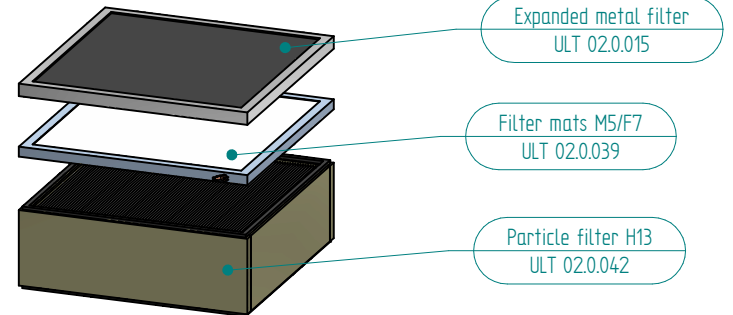
air flow controller

loaded particle filter indicator

on/off switch

operating hours counter  
optional

filter set consisting of:



Expanded metal filter  
ULT 02.0.015

Filter mats M5/F7  
ULT 02.0.039

Particle filter H13  
ULT 02.0.042

Weitere Maße sind dem 3D-Datensatz zu entnehmen. Für die Zeichnung behalten wir uns alle Rechte vor.  
Other measure are to be taken from the 3D record. For the drawing we reserve ourselves all rights.

				ULT AG Am Gopelreich 1 D-02708 Lobau		designation ASD 400	
001	base	22.05.13	JSACZ	2013	date	name	drawing number:
issue	revision	day	name	verf.	22.05.	JSACZ	ULT 400_00_004_001
							scale: 1 : 15

