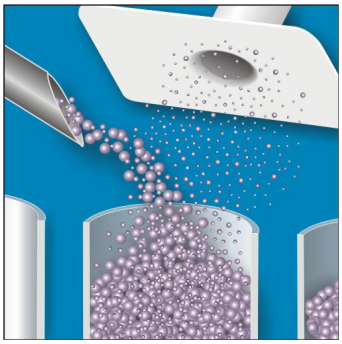
# ASD 1200 MD 2Pa

## Technical documentation

**Date of issue: 10/2015**

# ULT 1200



***Clean air,***
***high performance.***

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

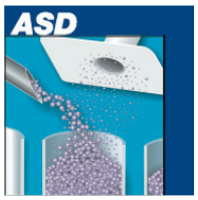

*Air handling equipment for environmental and health protection*

# Technical documentation
# Air extraction and filtration unit

# ASD 1200 MD 2Pa

## Use and application

The **ASD 1200 MD 2Pa** 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 filtered by the ASD 1200 MD 2Pa. The material of the filter elements ensures effective filtering out of the various dust particle sizes. Regular **automatic pneumatic cleaning** cycles of the cartridge filters guarantee very long main filter lifetimes. When the differential pressure over the cartridge filters gets too high the filters are cleaned off by the cross flow principle. Optional secondary filters can be integrated and raise the separation efficiency.




*smoke and dust*

## Examples

- ⇨ engraving
- ⇨ polishing
- ⇨ abrading

## ULT 1200 modular air extraction and filtration unit

mobile unit,
with storage filter system
robust steel housing, powder coated
RAL 7035 light grey / RAL 7001 silver-grey

## Filter system:

Cartridge filter system

automatically cleanable filter element for high pollutant emission

## Filter technology:

Main filter module

| | |
|---|---|
| filter cartridge: | 2 pieces |
| filter material: | polyester fibre |
| filter class: | BIA M, separation efficiency > 99% |
| | [with particles 1 µm] |
| filter surface: | 2 x 4,5 m² |

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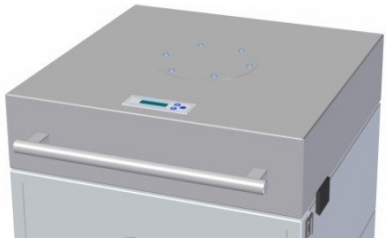
# Technical documentation
# Air extraction and filtration unit

# ASD 1200 MD 2Pa

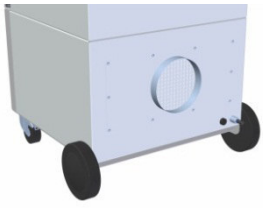
## ASD 1200.0-MD.bb.cc.4002

| Parameter | unit | -MD.18.18. | -MD.45.14. | -MD.81.14. |
|---|---|---|---|---|
| Max. air flow | m³/h | 1.500 | 1.700 | 1.660 |
| Max. vacuum | Pa | 3.250 | 2.600 | 2.400 |
| Nominal capacity | m³/h / Pa | 1.000 / 1.700 | 1.000 / 1.800 | 1.000 / 1.800 |
| Motor-nominal power | kW | 0,86 | 1,50 | 1,50 |
| Nominal voltage | V | 1~ 230 | 3~ 400 | 1~ 230 |
| Nominal current | A | 4,8 | 3,5 | 8,75 |
| Frequency | Hz | 50 / 60 | 50 | 50 |
| Protection class | IP | 54 | 54 | 54 |
| Type blower | | blower | ventilator | ventilator |
| Noise level (at 50 - 100%) | dB(A) | 55 - 65 | 62 | 72 |
| Air flow controller | | yes | no | no |
| Loaded particle filter indicator | acoustic | yes | yes | yes |
| Operating hours counter | | no | yes | yes |
| SUB D9 interface | (1*) | optional | optional | optional |
| Digital control integrated | (2*) | optional | no | no |
| Remote digital control | | optional | no | no |
| Air outlet DN 200 | (3*) | optional | optional | optional |
| Air intake | | 2x Ø 160 mm take off | | |
| | position | on top of the unit | | |
| Air outlet | | air exhaust louver | | |
| | position | lower rear side | | |
| Width | mm | 790 | | |
| Depth | mm | 820 | | |
| Height | mm | 1.240 | | |
| Weight | kgs | ca. 200 | | |
| Length of power cable | m | 5 | | |
| **Filter system** | | filter system: cartridge filter, automatic cleaning | | |
| | | filter cartridges - set of 2 pcs<br>polyester fibre 2 x 4,5 m² filter surface | | ULT 02.1.680 |
| Teflon coated filter cartridges | | **optional** | | ULT 02.1.681 |
| Particle filter cassette H13 or | Opt. 09 | **optional** | | ULT 02.1.633 |
| Adsorption filter cassette A8 (charcoal) | Opt. 08 | **optional** | | ULT 02.1.604 |

(1*)



(2*)



(3*)

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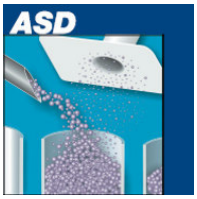
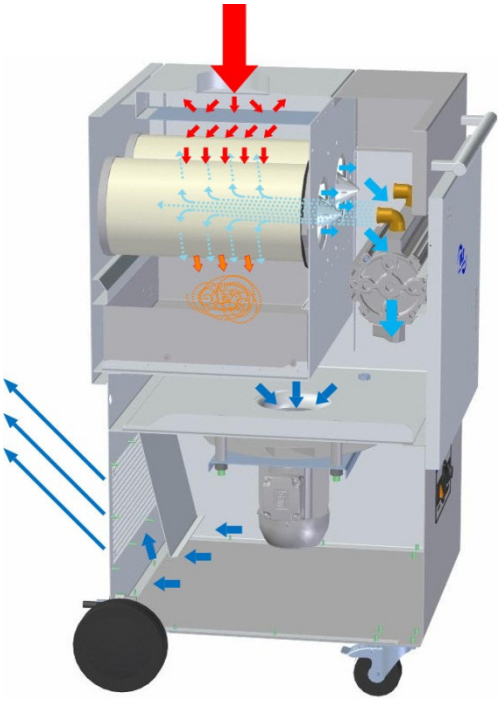
# Technical documentation
# Air extraction and filtration unit

# ASD 1200 MD 2Pa




*smoke and dust*



raw gas
clean gas
dedusting pressure
detached filter material
collected filter material

**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 by some units. 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 an applicable extraction arm or hose carries them to the filter elements. To prevent the filter elements from burning a baffle plate is positioned at the air intake holding back sparks.

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 on the basis of the **counter flow cleaning principle**. After reaching a set differential pressure the filter cartridges are cleaned with 4 – 5 bar compressed air. The **particles blown off** fall into a collecting drawer provided for the removal and disposal of the filter deposits.

Cartridge filter system

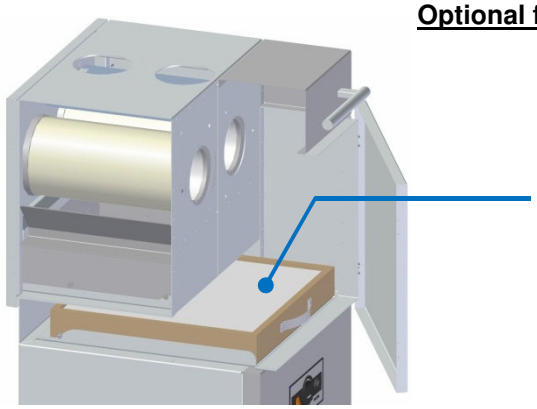
automatically cleanable filter element for high pollutant emission

Filtration set complete ULT 02.1.680:

| | | |
|---|---|---|
| (1) | **particulate filter** | 2 filter cartridges BIA M, separation efficiency > 99% with particles 1 µm |

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

**Optional filter elements:**



front side shelf for secondary filter:

Particle filter cassette H13, HEPA filter according to DIN EN 1822

**or**
Adsorption filter cassette A8 (8 kgs activated carbon)

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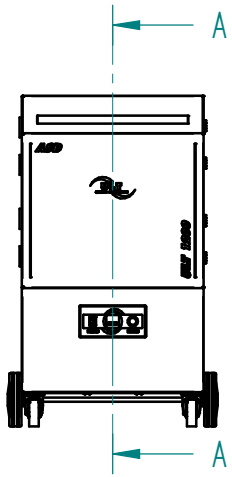
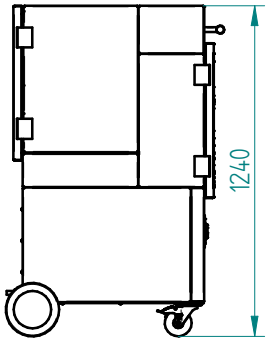
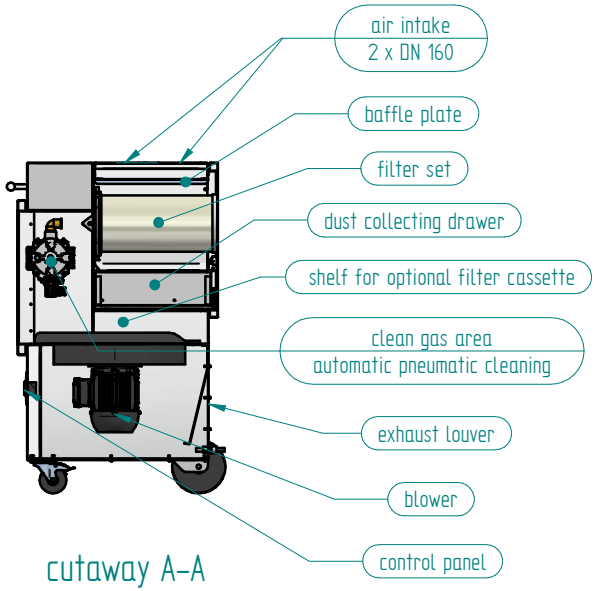
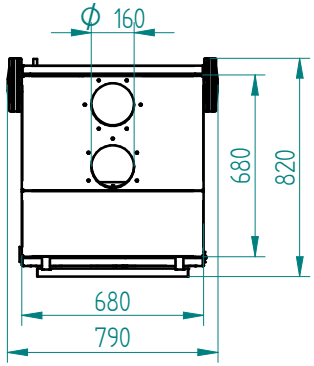
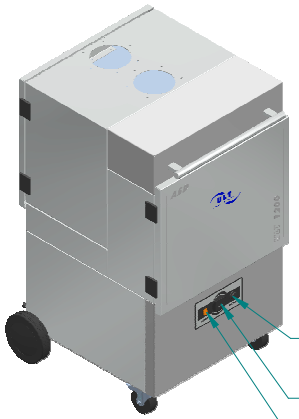



cutaway A-A



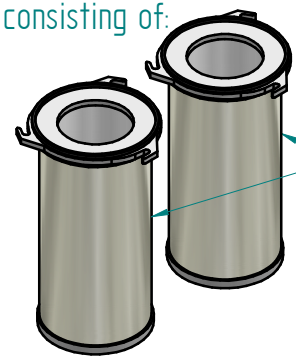



loaded particle filter indicator

operating hours counter for versions 45.14 / 81.14
air flow controller for version 18.18

on/off switch

filter set consisting of:



Filter cartridges Polyester
ULT 02.1.680



| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | ULT AG<br>Am Gopelteich 1<br>D-02708 Lobau | | | designation:<br>ASD 1200 MD 2Pa | |
| | | | | | | 2013 | date | name | |
| 001 | base | 14.02.13 | JSAEZ | | | edit. | 14.02. | JSAEZ | |
| issue | revision | day | name | | | veri. | | | drawing number:<br>ULT 1200_00_125_001 |
| | | | | | | Norm | | | scale:<br>1 : 20 |