



Technical Documentation

ULT 200.1

Version 012



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Annexes:

- Drawing, device size M
- Drawing, device size L
- M12 plan of interfaces



Description of Product Series

The **ULT 200.1 product range** is suited to collecting and filtering contaminants and impurities in the form of dusts and gases. There are suitable multi-level filtering systems **for every possible industrial** application and the most diverse compositions of harmful or unwanted substances.

The contaminants and impurities generated during the customer's process are collected directly from the point of origin via the collection elements and filtered by the ULT 200.1 devices. **High precipitation rates** are achieved thanks to the targeted combination of the available single filters. The underlying filter technology uses the principles of particle separation for dust and the principles of adsorption and chemisorption for gaseous substances.

Features of the ULT 200.1 extraction and filtration unit

- with an **exchangeable filter system** – low-contamination removal
- **low replacement filter costs** thanks to the multi-level filter system with competitively priced prefilter elements with increased absorption capabilities
- suitable **for a broad range of applications**: Use of a blower compatible with large negative pressures and large volumetric flows
- **very low energy consumption** thanks to energy-efficient electronics
- **global use** possible thanks to electrical equipment supplied: operates at 110 – 240 V
- all electrical components in versions compliant with both UL and CE
- integrated sound insulation ensures that the device operates **extremely quietly**
- rugged sheet steel housing with RAL7035 light gray **powder coating**
- **mobile device** with castors
- all interfaces on the back
- operating and display elements on the front

Thanks to the high degree of cleaning, the filtered clean gas can then be returned to the working area (**recirculated-air** operation). This avoids any loss of heat. If recirculated-air operation is not wanted, outgoing air operation can be implemented by simply assembling a pipe spigot which is included in the scope of delivery for the device. The filtered clean gas can then flow into an exhaust **air extraction** system.

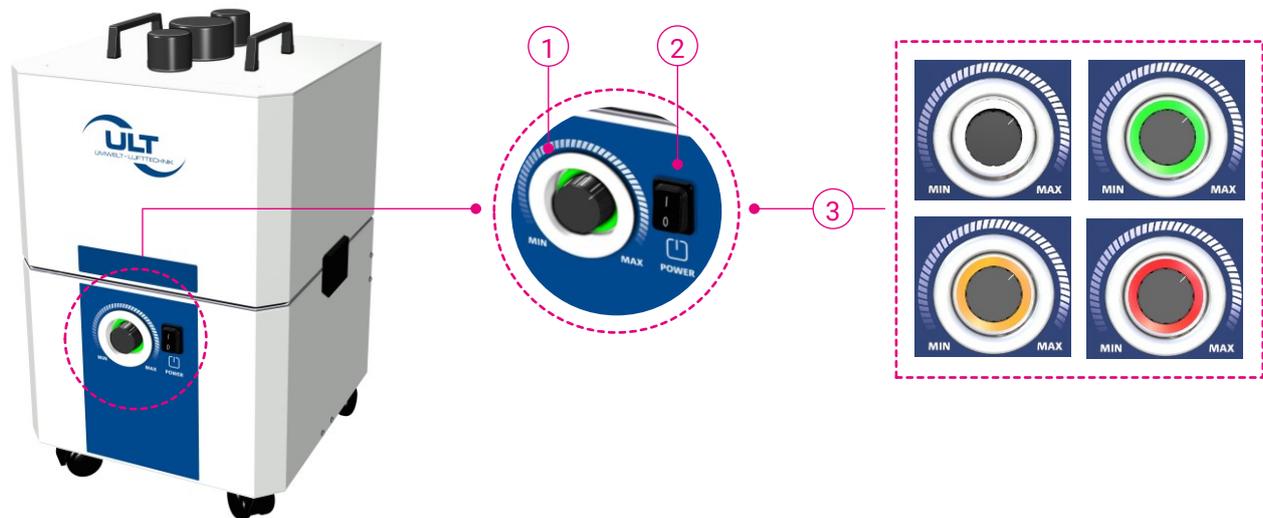
The ULT 200.1 devices can be perfectly combined with a **diverse range of accessories**. The right accessories can be selected according to the customer requirements.





Equipment

Figure 1: Front operating panel



① Potentiometer

Selectable assignments:

- Direct control of the blower speed: Random working point can be permanently set within the limits of the maximum blower output
- Negative pressure stabilization: automatic compensation of increasing filter clogging and changing number of extraction points, two modes selectable:
 - Medium-pressure mode: control range between 150 and 1,000 Pa
 - High-pressure mode: Control range between 150 and 5,000 Pa

② On/Off switch

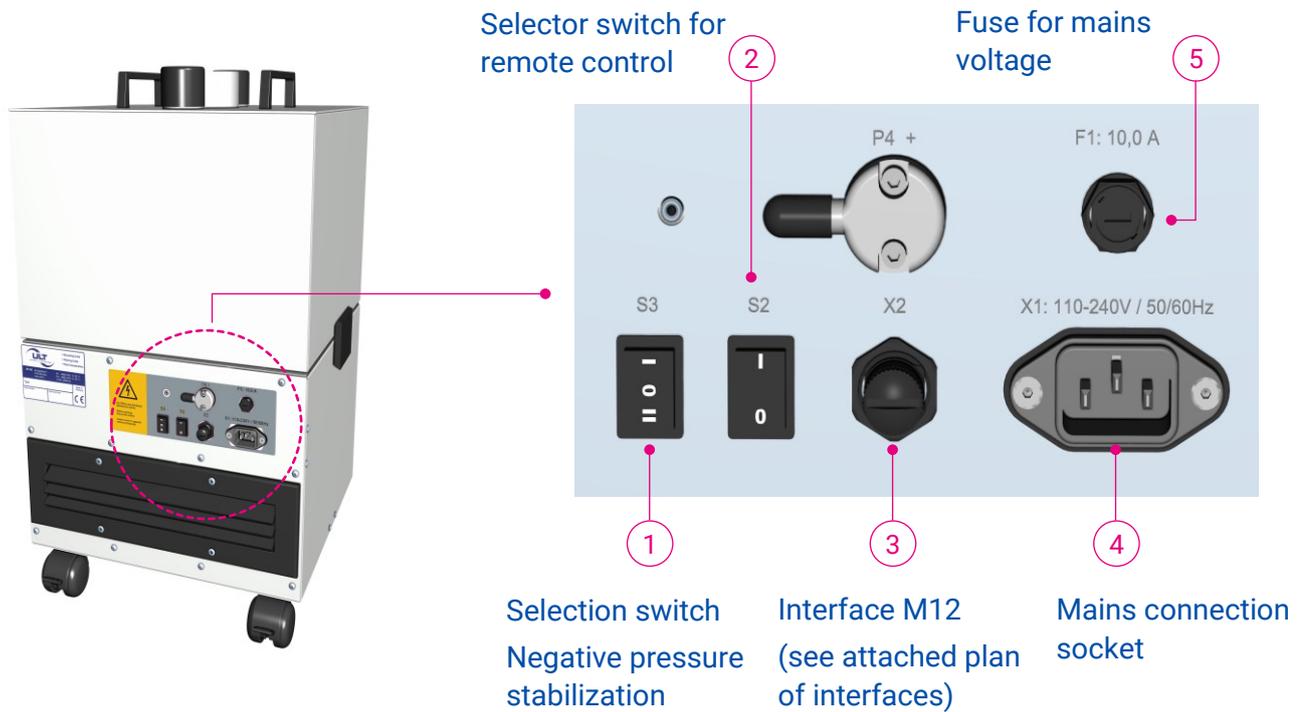
③ LED status ring

Machine status display:

- Standby operation via remote control (white)
- Malfunction-free operation (green)
- Malfunction caused by fault condition (flashing orange/red)
- Loaded particle filter indicator:
 - Particulate filter almost saturated (orange)
 - Particulate filter saturated (red)



Figure 2: Interfaces on the rear





Technical Data ULT 200.1 MD.20

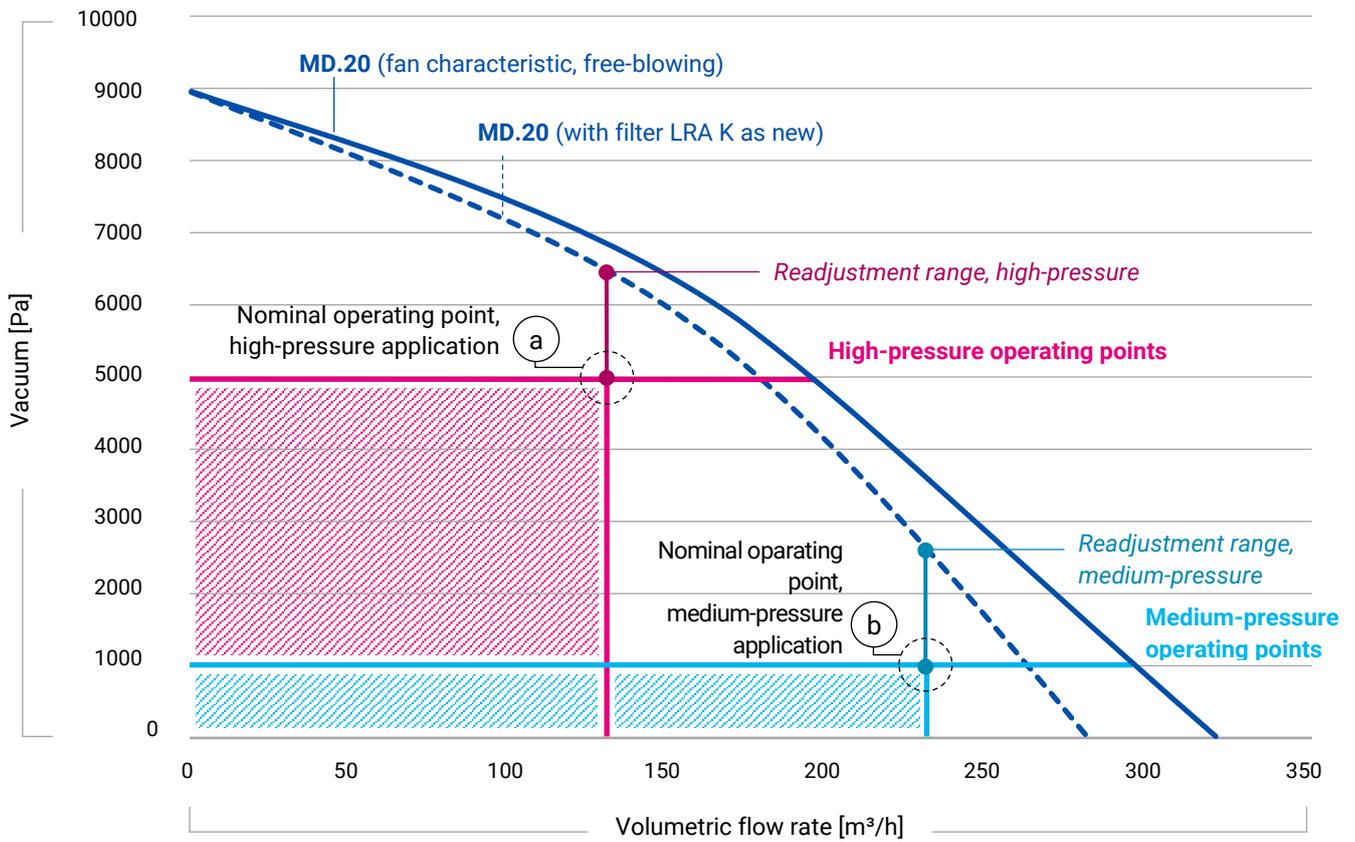
Table 1: Technical Data ULT 200.1 MD.20

| PARAMETER | UNIT | | |
|--|------------------------|---|--|
| Max. volumetric flow rate | m ³ / h | 320 | |
| Max. vacuum | Pa | 9.000 | |
| Rated volumetric flow rate (fan characteristic curve) | m ³ /h @ Pa | 130 @ 5.000 230 @ 1.000 | (a: High-pressure application) (b: Medium-pressure application) |
| Protection class | IP | 54 | |
| Noise level (@ 50% - 100% volumetric flow rate) | dB(A) | 47 - 58 | |
| Vacuum generator type | | | EC-blower |
| Rated voltage | VAC | 1~110 ... 240 | |
| Rated frequency | Hz | 50/60 | |
| | | Voltage level 120 V | Voltage level 230 V |
| Rated motor power | kW | 0,9 | 0,9 |
| Rated current | A | 9,2 | 5,3 |
| Volumetric flow rate controller | | | yes |
| Particulate filter saturation indicator | Visual | | yes |
| Interface M12 | | | yes |
| | | Configuration M | Configuration L |
| Dimensions (width x depth x height) | mm | 390 x 400 x 620 | 390 x 400 x 775 |
| Weight (without filter) | kg | approx. 21 | approx. 23 |
| Max. filter weight | kg | approx. 15 | approx. 25 |
| Air intake versions: | nozzle | 1 x Ø 80 mm and 2 x Ø 50 mm available on the roof | |
| Connection options | | Hose connection or optional arm assembly with console | |
| Air outlet: | | Adjustable exhaust grille / exhaust nozzle Ø 100 mm, both included in scope of delivery for device | |
| | position | Device rear, bottom | |
| Mains power cable EU (CEE 7/7) | m | 3,0 (country-specific versions selectable) | |



Characteristic Curves and Operating Modes (230 V)

Figure 3: Characteristic Curves and Operating Modes (230 V)





Application ACD – Odor, Gas and Vapors

Areas of application

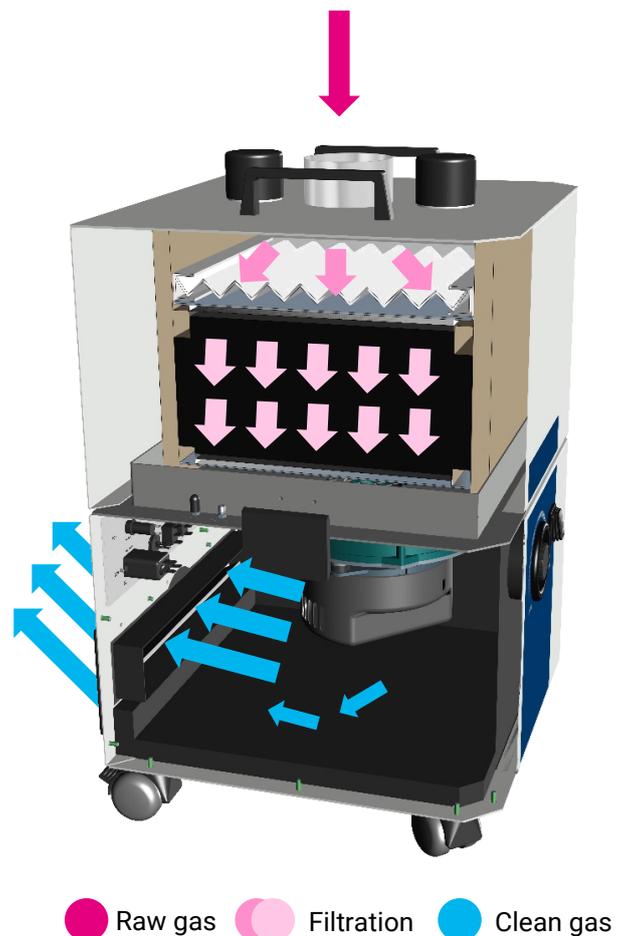
Adhesive Bonding | Pre-treating | Varnishing/Printing | Cleaning | Laminating | Casting

Functional principle

An EC blower with a high pressure reserve generates a volumetric flow suitable for the application on the cleangas side of the filter. The volumetric flow can be controlled individually and steplessly. In this way, the pollutant-laden **raw gas** is extracted in a reliable manner.

The **coarse-dust particles** are precipitated and held back in the first filter stage. The precipitation (adsorption) of **gaseous and vaporous** air contaminations takes place in the activated carbon filter.

The filter effect of the activated carbon is based on **adsorption**, i.e. on the depositing of (gaseous) substances on the surface of the activated carbon. In general, no chemical changes of the adsorbed substance take place in physical adsorption. The filter construction is adapted to the nominal volumetric flow of the devices so that the contact period is sufficient for achieving a good adsorption response. Activated carbon is not suitable as an adsorption medium in the presence of a multitude of gases and gaseous mixtures. The **chemisorption** adsorption process can be used in such applications, either as an alternative or as a supplement. A chemical alteration of the substances to be precipitated takes place in this connection.



When this procedure is used, the filter is filled with a mixture of activated carbon and chemisorption medium or the activated carbon is replaced in its entirety by the chemisorption medium.

Thanks to the high degree of cleaning, the **filtered clean gas** can then be returned to the working area (**recirculated-air** operation). This avoids any loss of heat.

Recirculated air operation is not permitted for the suctioning and filtration of carcinogenic, mutagenic or reprotoxic substances. The **exhaust air spigot** that is included in the scope of delivery for the device is to be mounted on the blow-out side in such cases. The filtered clean gas must be channeled through a connected pipeline into a central discharge air system.



Device variants

A variety of filter combinations is available for the suctioning and filtration of gases, odors and vapors. The available filter materials exhibit different suitabilities for precipitation, depending on the contaminant present. For expert advice for the selection of the correct filter medium, please contact your local dealer or ULT AG directly using ult@ult.de.

In accordance with customer-specific requirement, the ULT 200.1 devices can be equipped with the following filter set-ups:

ACD 200.1 MD.20 A6

Table 2: ACD 200.1 MD.20 A6

| | |
|---|---------------------------------------|
| Part number for complete device: | 1-00004 |
| Filter for organic gases: | Main filter module A6 |
| (1) Z-Line filter G4 | |
| Filter class: | ISO Coarse 90% according to ISO 16890 |
| (2) Adsorption filter cassette A6 | |
| Filter medium: | Activated carbon bed (6 kg) |

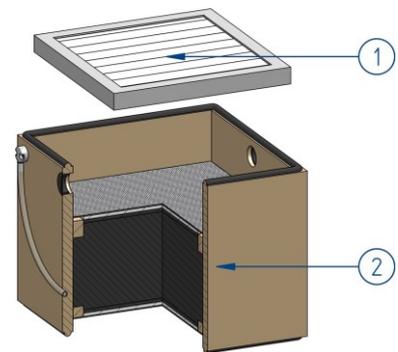
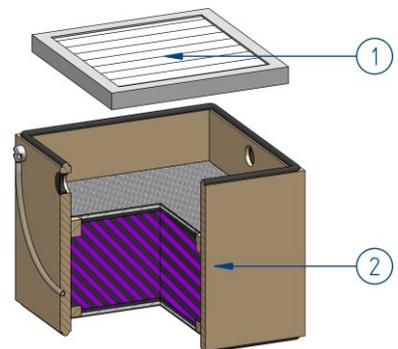
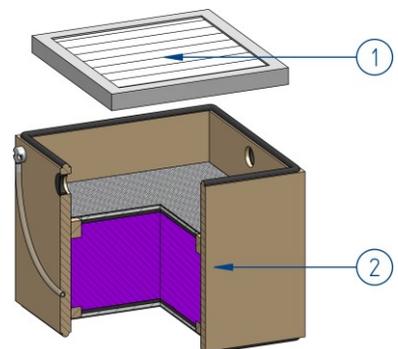


Table 3: ACD 200.1 MD.20 A6 (optional filter set-up)

| | |
|---------------------------------------|--|
| Part number of option: | 9-00048 |
| Filter for gas mixtures: | Main filter module AC7 |
| (1) Z-Line filter G4 | |
| Filter class: | ISO Coarse 90% according to ISO 16890 |
| (2) Chemisorption filter cassette AC7 | |
| Filter medium: | Granulate bed made of 50% activated carbon and 50% chemisorption medium (total 7 kg) |



| | |
|--|---|
| Part number of option: | 9-00049 |
| Filter for gaseous sulfur & nitrogen compounds: | Main filter module C11 |
| (1) Z-Line filter G4 | |
| Filter class: | ISO Coarse 90% according to ISO 16890 |
| (2) Chemisorption filter cassette C11 | |
| Filter medium: | Granulate bed made of 100% chemisorption medium (11 kg) |





ACD 200.1 MD.20 A14

Table 4: ACD 200.1 MD.20 A14

| | |
|---|---------------------------------------|
| Part number for complete device: | 1-00005 |
| Filter for organic gases: | Main filter module A14 |
| (1) Z-Line filter G4 | |
| Filter class: | ISO Coarse 90% according to ISO 16890 |
| (2) Adsorption filter cassette A14 | |
| Filter medium: | Activated carbon bed (14 kg) |

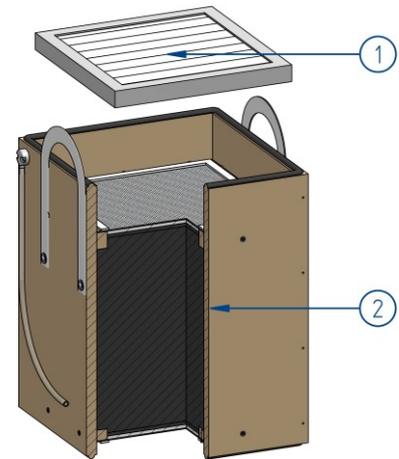
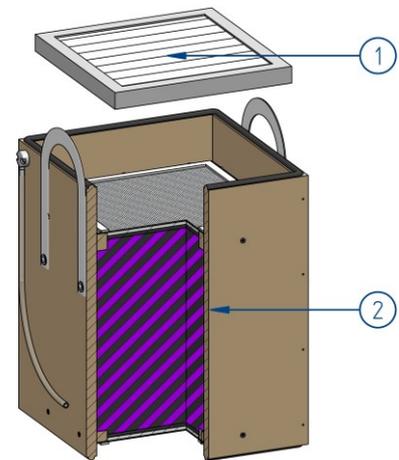
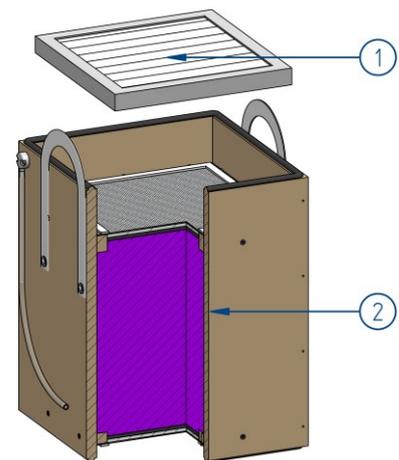


Table 5: Optional filter set-up

| | |
|--|---|
| Part number of option: | 9-00050 |
| Filter for gas mixtures: | Main filter module AC17 |
| (1) Z-Line filter G4 | |
| Filter class: | ISO Coarse 90% according to ISO 16890 |
| (2) Chemisorption filter cassette AC17 | |
| Filter medium: | Granulate bed made of 50% activated carbon and 50% chemisorption medium (total 17 kg) |



| | |
|--|---|
| Part number of option: | 9-00051 |
| Filter for gaseous sulfur & nitrogen compounds: | Main filter module C20 |
| (1) Z-Line filter G4 | |
| Filter class: | ISO Coarse 90% according to ISO 16890 |
| (2) Chemisorption filter cassette C20 | |
| Filter medium: | Granulate bed made of 100% chemisorption medium (20 kg) |





Application ASD – dust and smoke

Areas of application

Grinding | Engraving | Polishing | Filling and dosing processes | Restoration work

Functional principle

An EC blower with a high pressure reserve generates a volumetric flow suitable for the application on the cleangas side of the filter. The volumetric flow can be controlled individually and steplessly. In this way, the pollutant-laden raw gas is extracted in a reliable manner.

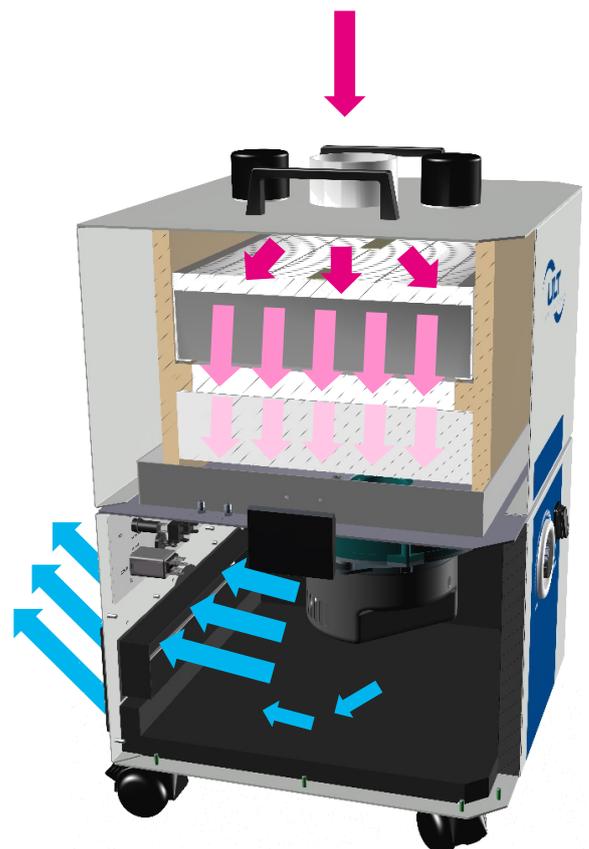
In production processes in which **powder materials** are processed or materials are sawed, milled or ground, dust contaminates the working area. In addition, **mechanical processes** can generate smoke by heating the processed materials. **Dust and smoke** are harmful to health and affect the quality of production processes. For this reason, these pollutants must be removed from the work area.

The application ASD provides **two filter solutions** for this with different filter elements for precipitating the **particles** that accumulate. Regularly changing the prefilter elements at shorter intervals prevents any premature clogging of the downstream H14 main filter element and significantly extends the functionality of the main filter.

Extremely fine suspended matter is retained by the High Efficiency Particulate Air filter H14 filter of the particulate filter cassette H14. This guarantees a **precipitation rate of 99.995%**.

Thanks to the high degree of cleaning, the **filtered clean** gas can then be fed back into the working area (**recirculated-air** operation). This avoids any loss of heat.

Recirculated air operation is not permitted for the suctioning and filtration of carcinogenic, mutagenic or reprotoxic substances. The **exhaust air** spigot that is included in the scope of delivery for the device is to be mounted on the blow-out side in such cases. The filtered clean gas must be channeled through a connected pipeline into a central discharge air system.



● Raw gas ● Filtration ● Clean gas



Device variants

A wide range of different filter combinations is available for the extraction and filtration of air pollutants in the form of dust and smoke. The precipitation effectiveness of the available filter combinations depends on the machining process used. For expert advice when choosing the correct filter combination, please contact your local dealer or ULT AG directly using ult@ult.de.

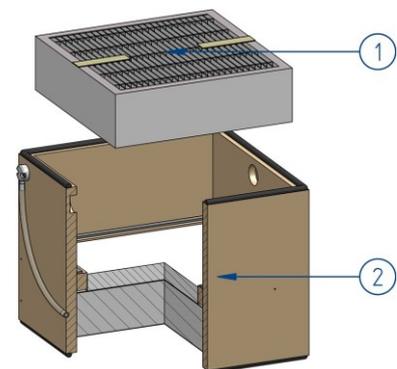
In accordance with customer-specific requirement, the series ULT 200.1 devices can be equipped with the following filter attachments:

ASD 200.1 MD.20 H

An upstream panel filter F retains most of the particles that accumulate. Due to its special folding, a large volume is provided for absorbing coarse dust. At the same time, **a large filter surface** enables the precipitation of the finest dusts even at high raw gas flow rates.

Table 6: ASD 200.1 MD.20 H

| | |
|--|---|
| Part number of complete device: | 1-00025 |
| Part number of complete device: | Main filter module H |
| (1) Panel filter F, fine dust filter | |
| Filter class: | ISO ePM2,5 75% according ISO 16890 |
| (2) Particle filter cassette H14 with filter mat | |
| (2.1) Filter mat G, filter protection | |
| Filter class: | ISO Coarse 85% acc. to ISO 16890 |
| (2.2) Particulate filter H14 | |
| Filter class: | H14 HEPA-filter, suspended matter filter to DIN EN 1822 |



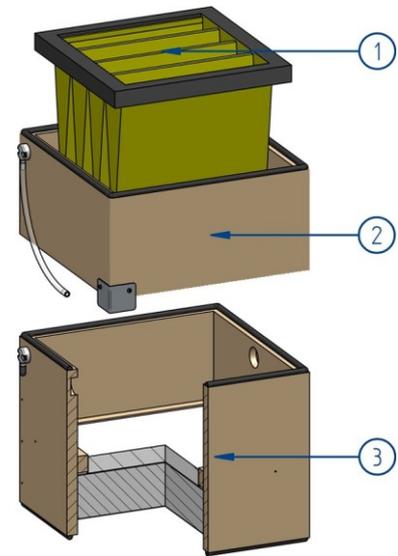


ASD 200.1 MD.20 TH

As an alternative, a device version is available in which a pocket filter is used for pre-precipitation. It is particularly suitable for processes in which large amounts of dust and lint accumulate. The pocket filter provides a **very large storage volume** and is therefore also suitable for extracting coarse, nondusty processing residues.

Table 7: ASD 200.1 MD.20 TH

| | |
|--|---|
| Part number of complete device: | 1-00026 |
| Filter set-up for dust and smoke: | Main filter module TH |
| (1) Pocket filter F, fine dust filter | |
| Filter class: | ISO ePM1 80% according to ISO 16890 |
| (2) Empty frame for pocket filter | |
| (3) Particle filter cassette H14 with filter mat | |
| (3.1) Filter mat G, filter protection | |
| Filter class: | ISO Coarse 85% acc. to ISO 16890 |
| (3.2) Particulate filter H14 | |
| Filter class: | H14 HEPA filter, suspended matter filter to DIN EN 1822 |





Application LAS – laser smoke

Areas of application

Laser Cutting | Laser Marking | Laser Structuring | Laser Engraving

Functional principle

An EC blower with a high pressure reserve generates a volumetric flow suitable for the application on the cleangas side of the filter. The volumetric flow can be controlled individually and steplessly. In this way, the pollutant-laden raw gas is extracted in a reliable manner.

The versatile work processes in which lasers are used generate **laser smoke**. This toxic, corrosive mixture of aerosol, gas and nanoparticles poses a health hazard and adversely affects the product and process quality. Depending on the process, very different precipitating mixtures of substances can be created, which must be removed from the raw gas.

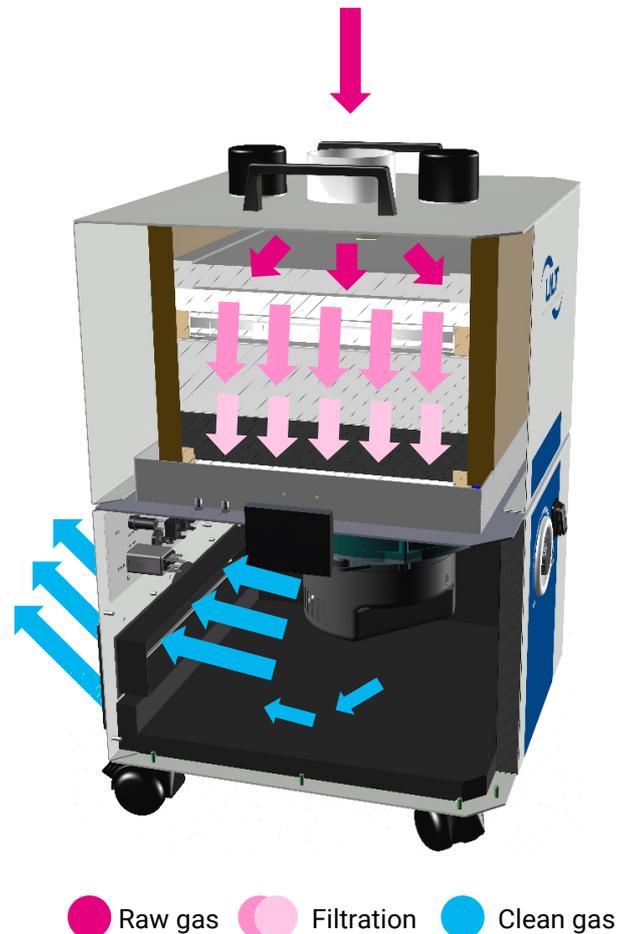
The application LAS provides **two filter solutions** for this with different prefilter combinations and an upstream expanded metal filter for precipitating the **aerosols and particles**. The expanded metal filter can be cleaned in an industrial washer and can thus be reused several times. Regularly changing the prefilter elements at shorter intervals significantly extends the functionality of the main filter.

Extremely fine suspended matter is retained by the High Efficiency Particulate Air filter H14 in the combined filter cassette H14A. This guarantees a **particle precipitation rate of 99.995%**.

The precipitation (adsorption) of **gaseous and vaporous** air pollutants takes place in the activated carbon bed of the combined filter cassette H14A.

The filter effect of the activated carbon is based on adsorption, i.e. on the adsorption of (gaseous) substances on the surface of the activated carbon. In general, no chemical changes of the adsorbed substance take place in physical adsorption. The nominal volumetric flow of the devices is based on the filter construction, the contact period is oriented to a medium adsorption response.

Thanks to the high degree of cleaning, **the filtered clean gas** can then be fed back into the working area (**recirculated-air** operation). This avoids any loss of heat.





Recirculated air operation is not permitted for the suctioning and filtration of carcinogenic, mutagenic or reprotoxic substances. **The exhaust air spigot** that is included in the scope of delivery for the device is to be mounted on the blow-out side in such cases. The filtered clean gas must be channeled through a connected pipeline into a central discharge air system.

Device variants

A variety of filter combinations is available for the suctioning and filtration of harmful gas/dust mixtures from laser machining processes. The precipitation effectiveness of the available filter combinations depends on the machining process used. For expert advice when choosing the correct filter combination, please contact your local dealer or ULT AG directly using ult@ult.de.

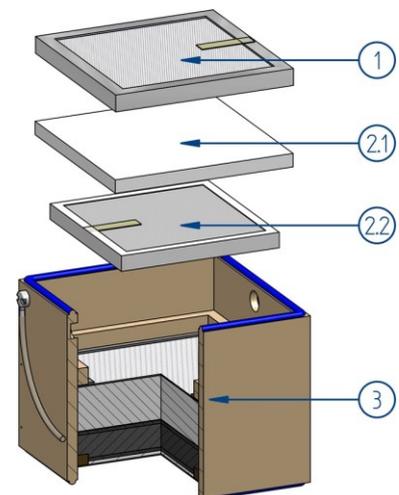
In accordance with customer-specific requirement, the series ULT 200.1 devices can be equipped with the following filter attachments:

LAS 200.1 MD.20 K

A prefilter combination consisting of an upstream expanded metal filter, a filter mat and a panel filter retains aerosols and particles and prevents any premature clogging of the downstream H14 main filter element. This multi-level filter set-up is particularly suitable for the precipitation of **dry laser smoke**.

Table 8: LAS 200.1 MD.20 K

| | |
|--|---|
| Part number of complete device: | 1-00056 |
| Filter set-up for laser smoke: | Main filter module K |
| (1) Expanded metal prefilter | Metal mesh, condensation filter |
| (2) Prefilter set | |
| (2.1) Filter mat G, coarse dust filter | Filter class: ISO Coarse 85% acc. to ISO 16890 |
| (2.2) Panel filter F, fine dust filter | Filter class: ISO ePM1 70% acc. to ISO 16890 |
| (3) Combined filter cassette H14A | |
| (3.1) Particulate filter H14 | Filter class: H14 HEPA filter, suspended matter filter to DIN EN 1822 |
| (3.2) Adsorption filter A | Filter medium: Activated carbon bed |



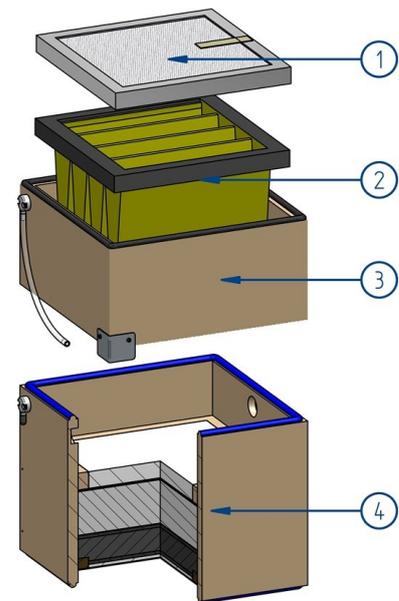


LAS 200.1 MD.20 TK

As an alternative, a device version is available in which a pocket filter is used for pre-precipitation. It is particularly suitable for processes in which large amounts of sticky laser smoke accumulates, e.g. from the processing of organic materials. Due to its very large volume, the pocket filter enables the condensation and agglomeration of the separated aerosols and particles without them blocking the filter.

Table 9: LAS 200.1 MD.20 TK

| | |
|---|--|
| Part number of complete device: | 1-00057 |
| Filter set-up for laser smoke: | Main filter module TK |
| (1) Expanded metal prefilter | Metal mesh, condensation filter |
| (2) Pocket filter F, fine dust filter | Filter class: ISO ePM1 80% acc. to ISO 16890 |
| (3) Empty frame for pocket filter | |
| (4) combined filter cassette H14A with filter mat | |
| (4.1) Filter mat G, filter protection | Filter class: ISO Coarse 85% acc. to ISO 16890 |
| (4.2) Particulate filter H14 | Filter medium: H14 HEPA filter, suspended matter filter to DIN EN 1822 |
| (4.3) Adsorption filter A | Filter medium: Activated charcoal bed |





Application LRA – Soldering smoke

Areas of application

Manual Soldering | Robot Soldering | Soldering Systems at Special Workstations

Functional principle

An EC blower with a high pressure reserve generates a volumetric flow suitable for the application on the cleangas side of the filter. The volumetric flow can be controlled individually and steplessly. In this way, the pollutant-laden raw gas is extracted in a reliable manner.

When soldering work is performed, **soldering smoke** forms out of vaporizing flux, small quantities of solder and gas-emitting substances from working circuit boards and components. This is comprised of a mixture of adhesive aerosols, particles and gases that must be removed from the raw gas.

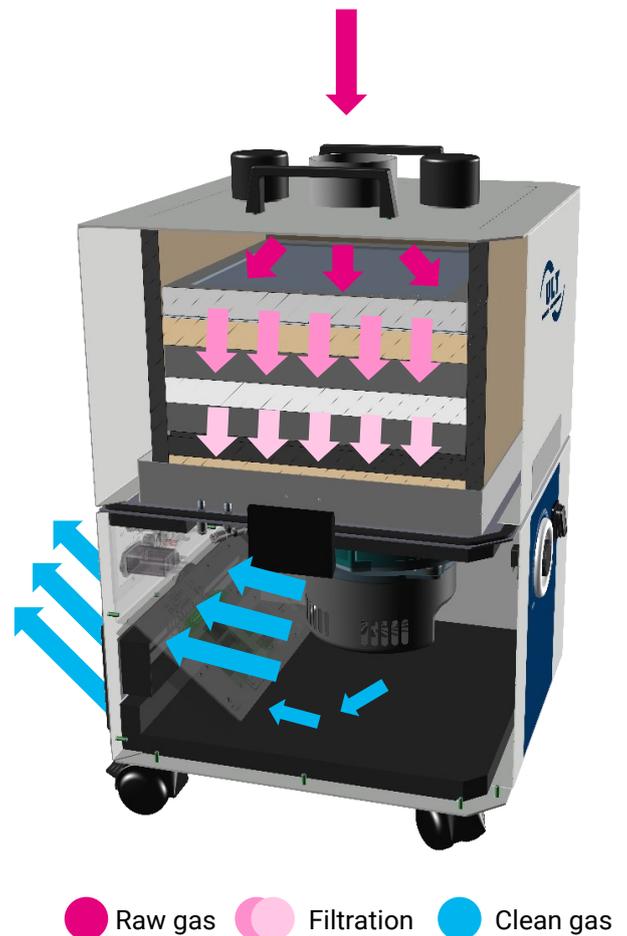
The filter set-up used is specially designed for this purpose. An upstream expanded metal filter holds back cooled, **sticky aerosols** in the suction line and prevents premature clogging of the subsequent filter elements.

The **particles** contained in the soldering smoke are precipitated in a multi-stage storage filter system. Thanks to their **depth penetration**, the filter mats used are particularly suitable for the precipitation of soldering smokes. A majority of the particles contained in soldering smoke and the aerosols still remaining in the raw gas are bonded at this stage. Extremely fine suspended substances are held back by the HEPA H13 filter in the combination filter cassette H13A. This guarantees a **particle precipitation rate of 99.95%**.

The precipitation (adsorption) of **gaseous and vaporous** air contaminations takes place in the activated carbon bed of the combined filter cassette H13A.

The filter effect of the activated carbon is based on **adsorption**, i.e. on the depositing of (gaseous) substances on the surface of the activated carbon. In general, no chemical changes of the adsorbed substance take place in physical adsorption. The nominal volumetric flow of the devices is based on the filter construction, the contact period is oriented to a medium adsorption response.

Thanks to the high degree of cleaning, the **filtered clean gas** can then be returned to the working area (**recirculated-air** operation). This avoids any loss of heat.





Recirculated air operation is not permitted for the suctioning and filtration of carcinogenic, mutagenic or reprotoxic substances. The **exhaust air spigot** that is included in the scope of delivery for the device is to be mounted on the blow-out side in such cases. The filtered clean gas must be channeled through a connected pipeline into a central discharge air system.

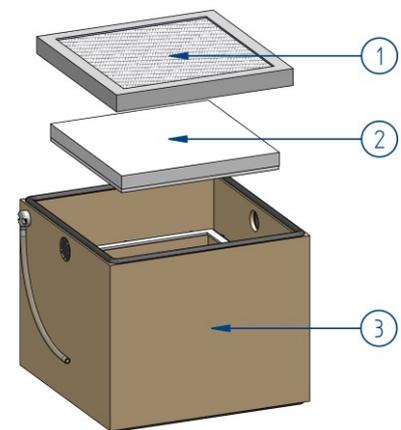
Device variants

The ULT 200.1 devices can be equipped with the following filter set-up for suctioning and filtering harmful gas/dust mixtures from soldering processes:

LRA 200.1 MD.20 K

Table 10: LRA 200.1 MD.20 K

| | |
|---|--|
| Part number for complete device: | 1-00088 |
| Filter set-up for soldering smoke: | Main filter moule K |
| (1) Expanded metal prefilter | Metal mesh, condensation filter, spark protection |
| (2) Filter mats M5/F7 | Filter classes: Filter mat M5: ISO Coarse 85% acc. to ISO 16890 Filter mat F7: ISO ePM10 75% acc. to ISO 16890 |
| (3) combined filter cassette H13A | |
| (3.1) Particulate filter H13 | Filter class: H13 HEPA filter, suspended matter filter to DIN EN 1822 |
| (3.2) Adsorption filter A | Filter medium: Activated carbon bed |





Accessory items

DN50 extraction system

Hoses



| | | |
|---|--|---------|
| Flexible extraction hose DN 50, 2m | Antistatic, incl. 90° bend, socket and worm drive hose clips | 3-00485 |
| Flexible extraction hose DN 50, 3m | Antistatic, incl. 90° bend, socket and worm drive hose clips | 3-00486 |
| Flexible extraction hose DN 50, 5m | Antistatic, incl. 90° bend, socket and worm drive hose clips | 3-00487 |
| Flexible extraction hose DN 50, per meter | Antistatic, without accessories | 6-06872 |

Hose accessories



| | | |
|-------------------------|--|---------|
| Bend 90° DN 50 | Antistatic, incl. worm drive hose clip | 3-00494 |
| Socket DN 50 | Antistatic, incl. worm drive hose clip | 3-00495 |
| Y-piece DN 50 - 2*DN 50 | Antistatic | 6-06970 |

Extraction arm mounting elements



| | | |
|-----------------------|--|------------|
| ULT 200.1 S50 console | Series 200.1 For Alsident System 50 | 3-00319 |
| Table bracket black | Alsident System 50, accessory | 2-5010-050 |

Extraction arms



| | | |
|---|----------------------------------|-------------|
| Alsident system 50, antistatic extraction arm | 945 mm for table/device mounting | 50-4737-1-6 |
|---|----------------------------------|-------------|

Collecting elements



| | | |
|--------------------------------|-------------------------------|------------|
| Flat screen antistatic | Alsident System 50, accessory | 1-503324-6 |
| Round hood aluminum antistatic | Alsident System 50, accessory | 1-5024-6 |
| Extractor tube antistatic | Alsident System 50, accessory | 1-5021-6 |
| Suction gap antistatic | Alsident System 50, accessory | 1-5020-6 |



DN80 extraction system

Hoses



| | | |
|---|--|---------|
| Flexible extraction hose DN 80, 2m | Antistatic, incl. 90° bend, socket and worm drive hose clips | 3-00489 |
| Flexible extraction hose DN 80, 3m | Antistatic, incl. 90° bend, socket and worm drive hose clips | 3-00490 |
| Flexible extraction hose DN 80, 5m | Antistatic, incl. 90° bend, socket and worm drive hose clips | 3-00491 |
| Flexible extraction hose DN 80, per meter | Antistatic, without accessories | 6-06874 |

Hose accessories



| | | |
|-----------------------|--|---------|
| Bend 90° DN 80 | Antistatic, incl. worm drive hose clip | 3-00496 |
| Socket DN 80 | Antistatic, incl. worm drive hose clip | 3-00497 |
| Reducer DN 80 - DN 75 | Antistatic, for connecting a DN80 hose to the System 75 extraction arm, incl. worm drive hose clip | 3-00499 |

Extraction arm mounting elements



| | | |
|-----------------------|--|---------|
| ULT 200.1 S75 Console | Series 200.1 For Alsident System 75 | 3-00320 |
| Table bracket white | Alsident System 75, accessory | 2-7510 |

Extraction arms



| | | |
|------------------------------------|----------------------------------|-------------|
| Alsident system 75, extraction arm | 1290mm for table/device mounting | 75-6555-1-5 |
|------------------------------------|----------------------------------|-------------|

Collecting elements



| | | |
|---------------------|----------------------------------|------------|
| Flat screen | Alsident System 75, accessory | 1-753324-5 |
| Round hood aluminum | Alsident System 75, accessory | 1-7524-5 |
| Extractor tube | Alsident System 75, accessory | 1-7525 |



DN100 exhaust air extraction system

Hoses and hose accessories



| | | |
|---|---|---------|
| Flexible extraction hose DN 100, per meter | Antistatic, without accessories | 6-06875 |
| Socket DN 100 | Antistatic, incl. worm drive hose clip | 3-00500 |

Interface accessories

M12 interface accessories



| | | |
|------------------------|--------------------------------------|---------|
| M12 connection cable | incl. M12 Male adapter, length 3m | 3-00234 |
| M12 On/Off foot switch | incl. M12 Male adapter, length 3m | 3-00235 |

Device power cables – supplied free of charge with ordered device



| | | |
|--|---------------|---------|
| Swiss device power cable | Length 3.00 m | 6-06056 |
| UK device power cable | Length 2.00 m | 6-06063 |
| USA device power cable | Length 2.00 m | 6-06091 |
| EU device power cable (CEE 7/7) - included as standard | Length 3.00 m | 6-05990 |

Secondary filter U15

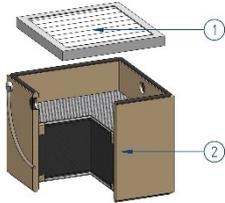


| | | |
|--|--|---------|
| LAS 200.1 secondary filter module U15 | Retrofit kit for exhaust air filtration | 3-01160 |
| Particle filter U15 | For secondary filter | 6-11662 |



Replacement filter

ACD



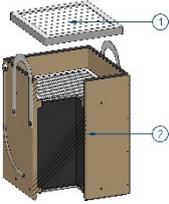
Filter A6

G4 Z-Line filter

4-00299

Adsorption filter cassette A6

4-00389



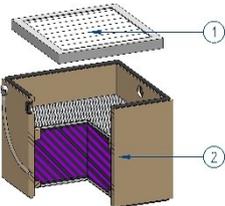
Filter A14

G4 Z-Line filter

4-00299

Adsorption filter cassette A14

4-00391



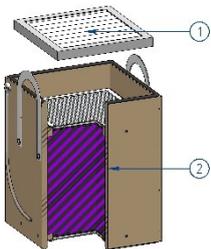
Filter AC7

G4 Z-Line filter

4-00299

Chemisorption filter cassette AC7

4-00393



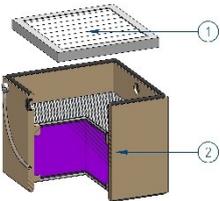
Filter AC17

G4 Z-Line filter

4-00299

Chemisorption filter cassette
AC17

4-00418



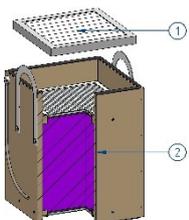
Filter C11

G4 Z-Line filter

4-00299

Chemisorption filter cassette C11

4-00403



Filter C20

G4 Z-Line filter

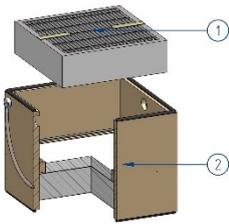
4-00299

Chemisorption filter cassette C20

4-00413



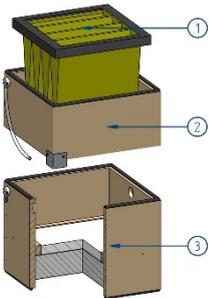
ASD



Filter H

| | |
|-------------------------------|---------|
| Panel filter F - set of 5 pcs | 4-00309 |
|-------------------------------|---------|

| | |
|------------------------------|---------|
| Particle filter cassette H14 | 4-00073 |
|------------------------------|---------|



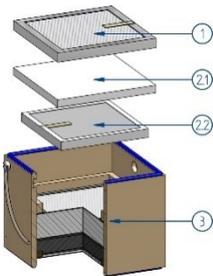
Filter TH

| | |
|--------------------------------|---------|
| Pocket filter F - set of 5 pcs | 4-00198 |
|--------------------------------|---------|

| | |
|-------------------------------|---------|
| Empty frame for pocket filter | 4-00079 |
|-------------------------------|---------|

| | |
|------------------------------|---------|
| Particle filter cassette H14 | 4-00073 |
|------------------------------|---------|

LAS

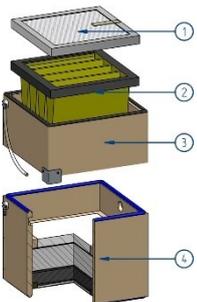


Filter K

| | |
|-----------------------|---------|
| Expanded metal filter | 4-00301 |
|-----------------------|---------|

| | |
|------------------------------------|---------|
| Prefilter set LAS K - set of 5 pcs | 4-00604 |
|------------------------------------|---------|

| | |
|-------------------------------|---------|
| Combined filter cassette H14A | 4-00076 |
|-------------------------------|---------|



Filter TK

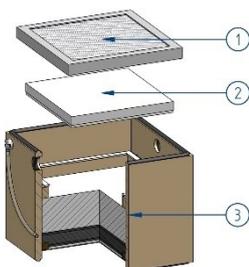
| | |
|-----------------------|---------|
| Expanded metal filter | 4-00301 |
|-----------------------|---------|

| | |
|--------------------------------|---------|
| Pocket filter F - set of 5 pcs | 4-00198 |
|--------------------------------|---------|

| | |
|-------------------------------|---------|
| Empty frame for pocket filter | 4-00079 |
|-------------------------------|---------|

| | |
|-------------------------------------|---------|
| Combined filter cassette H14A + mat | 4-00080 |
|-------------------------------------|---------|

LRA

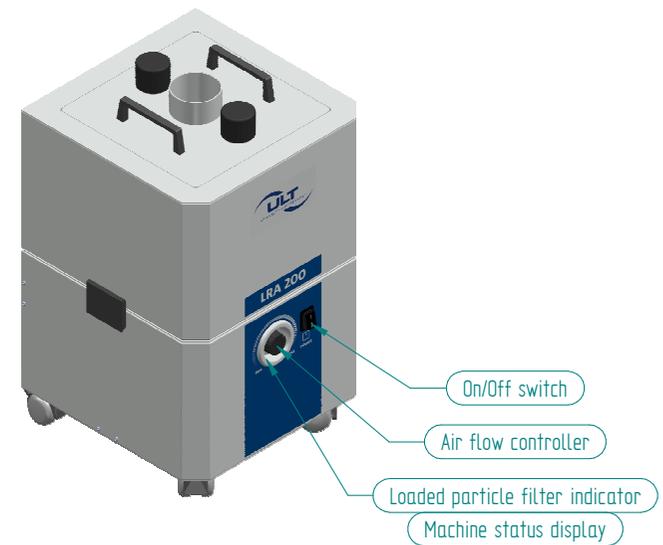
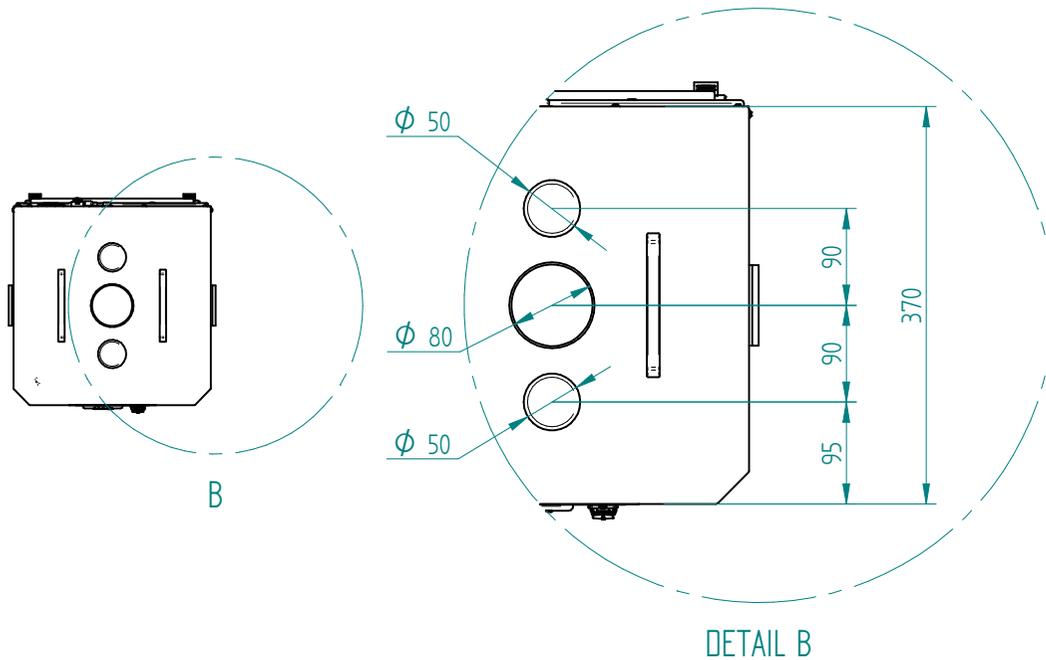
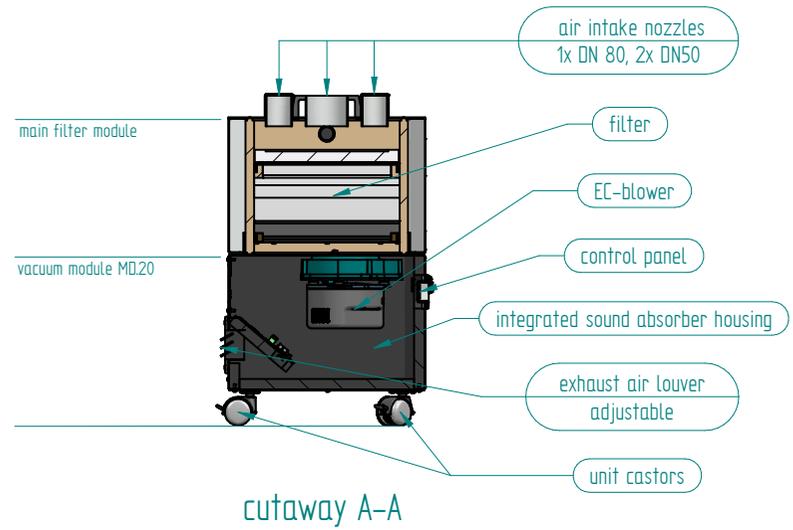
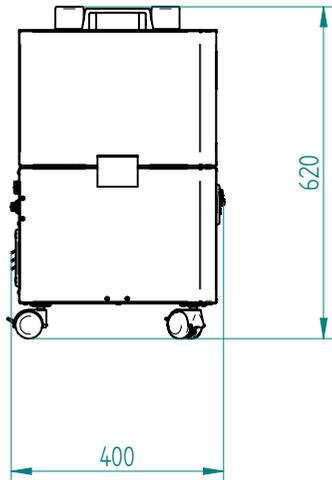
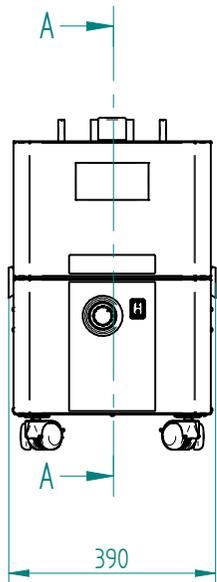


Filter K

| | |
|-----------------------|---------|
| Expanded metal filter | 4-00301 |
|-----------------------|---------|

| | |
|------------------------------------|---------|
| Filter mat M5-02/F7-02 - set of 10 | 4-00241 |
|------------------------------------|---------|

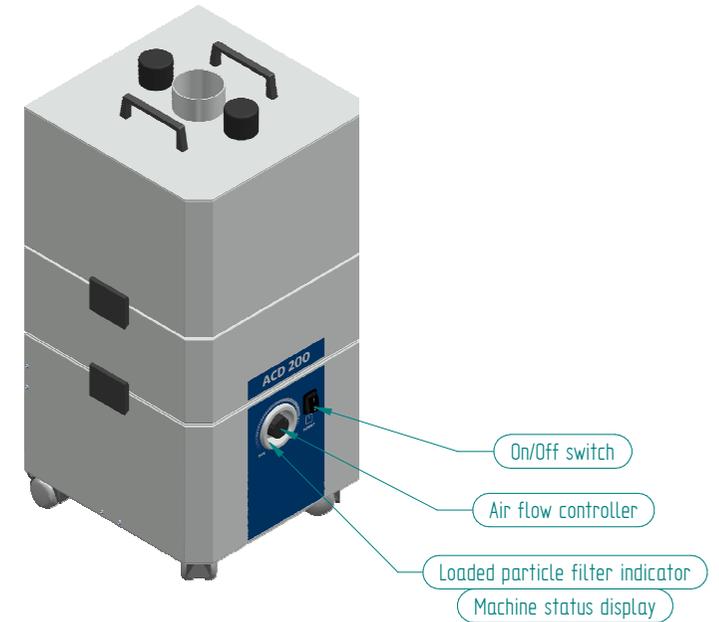
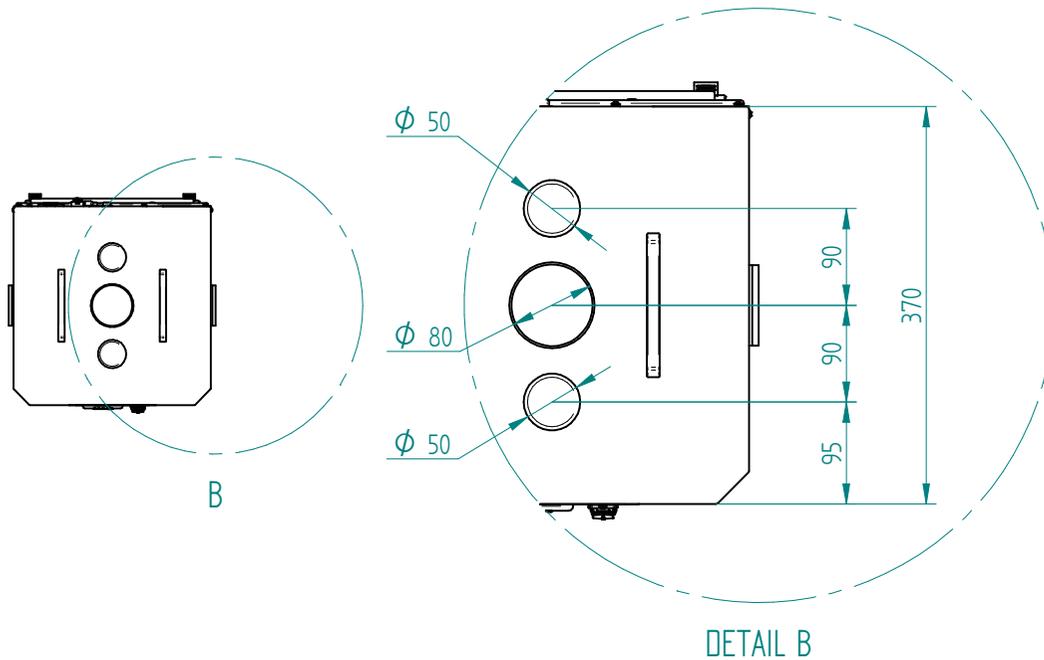
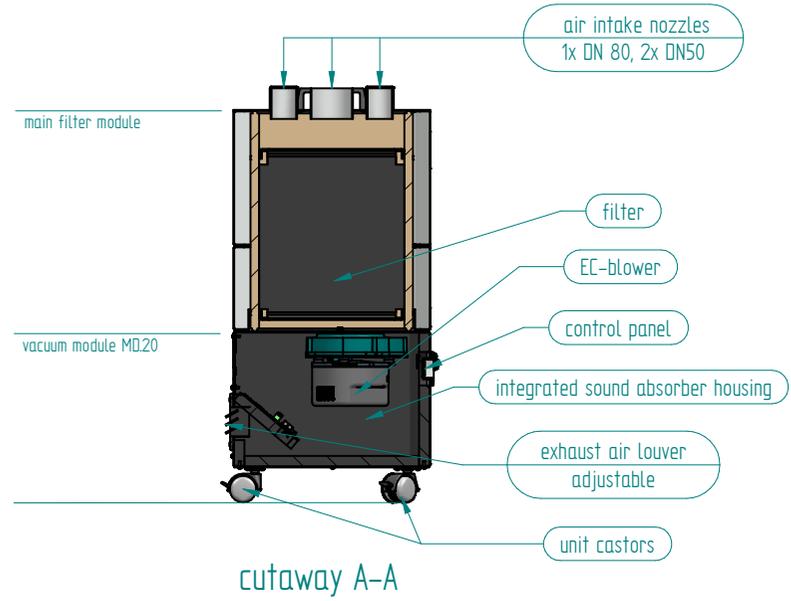
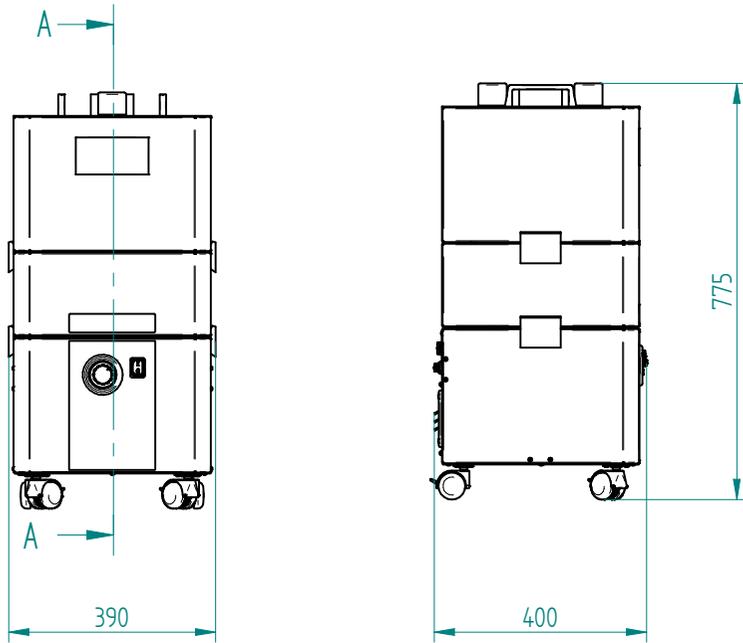
| | |
|-------------------------------|---------|
| H13A combined filter cassette | 4-00075 |
|-------------------------------|---------|



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Other measure are to be taken from the 3D record. For the drawing we reserve ourselves all rights.



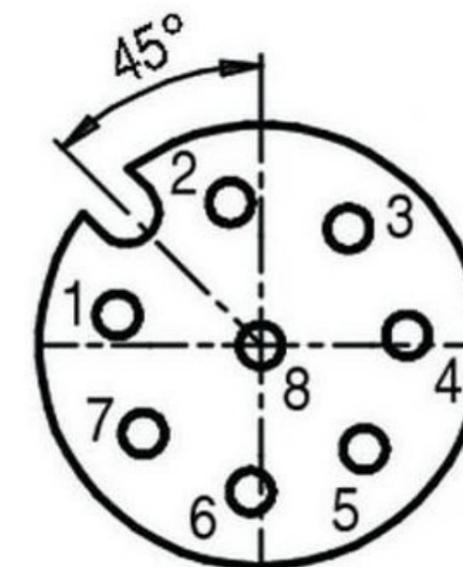
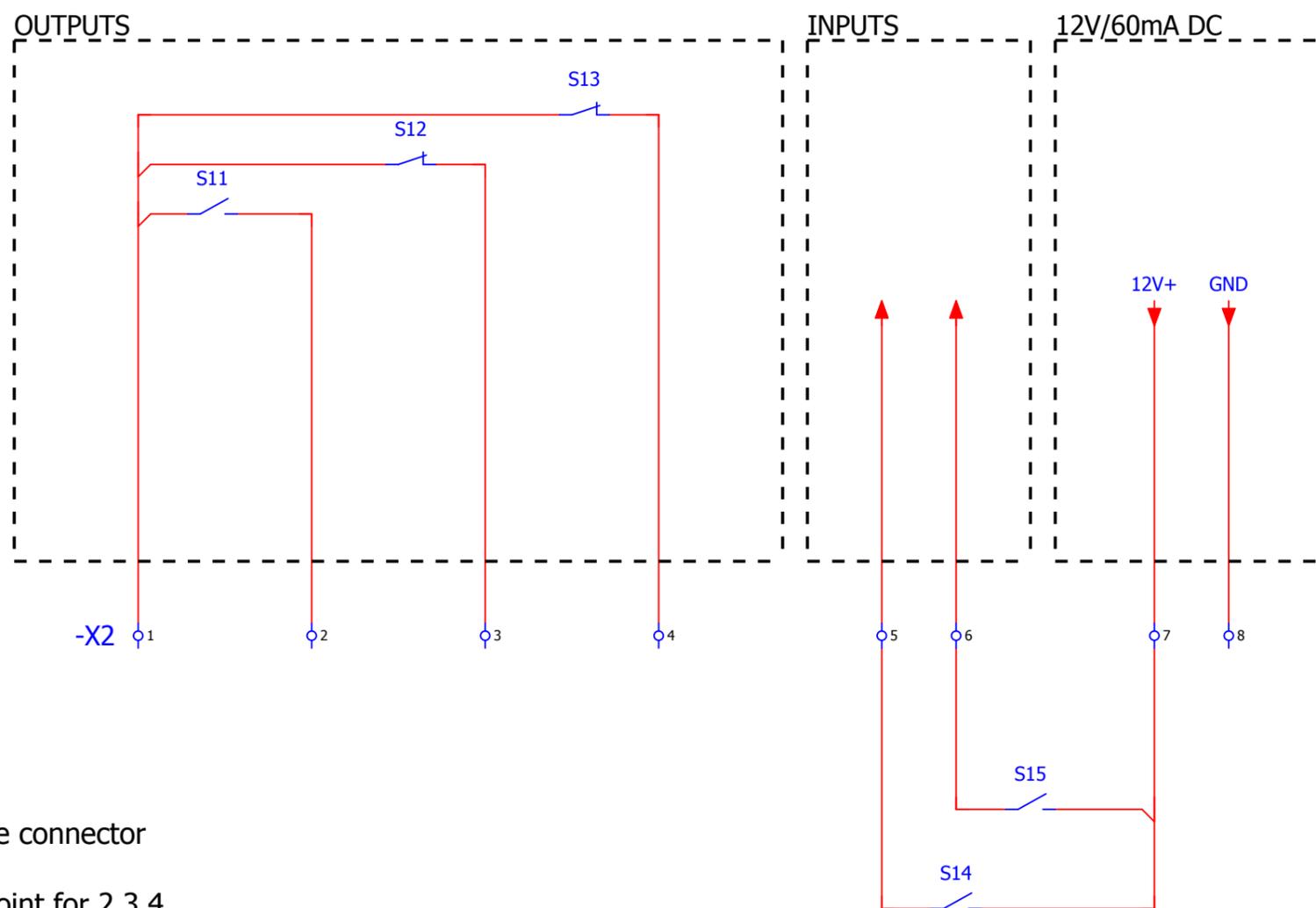
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| | | | | ULT AG Am Göpelteich 1 D-02708 Lobau | | designation ULT 200.1 MD20 M | |
| | | | | 2018 | date | drawing number: | |
| 001 | base | 21.02.18 | JSACZ | edit. | Z1.02 | JSACZ | 2017050500003 |
| issue | revision | day | name | verf. | name | Norm | scale: 1 : 10 |



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| | | | | | | | |
|-------|----------|----------|-------|--|--------|----------------------------------|----------------------------------|
| | | | | ULT AG Am Göpelteich 1 D-02708 Lobau | | designation: ULT 200.1 MD20 L | |
| | | | | 2018 | date | name | |
| 001 | base | 14.03.18 | JSACZ | edit. | 14.03. | JSACZ | drawing number: 2017050500003 |
| issue | revision | day | name | verf. | | | scale: 1 : 10 |
| | | | | Norm | | | |



-X2 M12 8-pole female connector

- 1: Common contact point for 2,3,4
- 2: Potential free contact 30V/100mA - NO - operation message (1)
- 3: Potential free contact 30V/100mA - NC - filter nearly full (1)
- 4: Potential free contact 30V/100mA - NC - filter completely full (1)

- 5: Remote control input 12V/5mA (2)
- 6: Filter cleaning trigger 12V/5mA (2)

- 7: 12V output, maximal rating 60mA
- 8: GND

Note (1): Signals are only to be evaluated when the unit is connected to supply voltage and the main switch is ON

Note (2): Can be triggered from 7 (represented by S14, S15) or with external voltage up to 24V (GND of the external voltage source has to be connected to contact 8)

| | |
|----------|------------|
| Datum | 21.03.2019 |
| Bearb. | EV |
| Gepr | |
| Änderung | Datum |
| | Name |

ULT200.1 MD20

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Email: ult@ult.de



M12 Schnittstelle

ULT 200.1 MD 20, M12 8PIN

ULT200.1_60_000

Blatt 112

Seite 12 / 13

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air quality