









Technical Documentation ULT 1200

Version 001













Contents

| Description of Product Series | 4 |
|---|----|
| Features ULT 1200 Extraction and Filtration Unit | 4 |
| Equipment | 5 |
| Technical Data ULT 1200 | 7 |
| Characteristic Curves (230 V) | 8 |
| ACD Series - Vapors, Odors and Gases | 10 |
| Area of Application | 10 |
| Operating Principle | 10 |
| Device Variants | 11 |
| ACD 1200 MD A28 | 11 |
| ACD 1200 MD A60 | 12 |
| ASD Series – Dust and Smoke | 13 |
| Area of Application | 13 |
| Grinding Engraving Polishing Filling and Dosing Processes Restoration | 13 |
| Operating principle | 13 |
| Device Variants | 14 |
| ASD 1200 MD.18 TH | 14 |
| LAS Series – Laser Smoke | 15 |
| Areas of the application | 15 |
| Operating Principle | 15 |
| Device Variants | 16 |
| LAS 1200 MD.18 K | 16 |
| LAS 1200 MD.18 THA16 | 17 |
| LAS 1200 MD.18 FHA16 | 18 |
| LRA Series – Soldering Fumes | 19 |
| Areas of Application | 19 |
| Operating Principle | 19 |
| Device Variants | 20 |
| LRA 1200 MD.18 K | 20 |
| Accessory items | 21 |
| Suction system DN150 | 21 |
| Suction system DN160 | 21 |
| DN200 exhaust air system | 24 |











| Replacement filter | |
|--------------------|----|
| ACD | 25 |
| ASD | |
| LAS | |
| LRA | |

Attachments:

- Technical drawing for single-tier device
- Technical drawing for double-tier device
- Interface diagram











Description of Product Series

The product range in the ULT 1200 series can be used for collection and filtration of harmful substances and unwanted substances in the form of dusts and gases. Suitable multi-stage filtration systems are available for all industrial applications to deal with different configurations of harmful or unwanted substances

The harmful and unwanted substances produced in the relevant customer process are collected via collection elements directly at the point of creation and are then filtered by the units in the ULT 1200 series. Through targeted combination of the available individual filters, **highest separation rates** are achieved. The underlying filtration technology uses particle separation techniques for dusts and adsorption and chemisorption techniques for gaseous substances

Thanks to the high degree of purification, the filtered clean gas can be directed back to the working space (**recirculated air** mode). As a result, there are no thermal losses. If recirculated air mode is not desired, an optionally available pipe nozzle can be easily installed to quickly and simply reconfigure the setup so that the outlet air is discharged rather than being fed back in. The filtered clean gas is then directed into an **air outlet** system.

The units in the ULT 1200 series can be optionally combined with a **wide range of accessories**. Suitable accessory parts can be selected based on the individual requirements of the customer.

Features ULT 1200 Extraction and Filtration Unit

- Mobile unit with casters
- · Replacement filters
- Robust sheet steel enclosure
- Powder coating 7035 light grey, RAL 7001 silvergrey







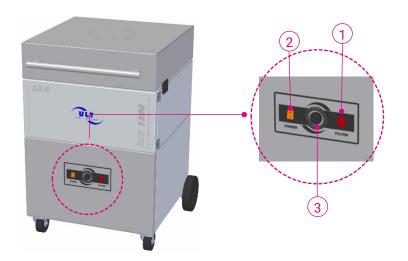






Equipment

Figure 1: Front operating panel



1 Particulate filter saturation indicator

Selectable assignments:

 If the particulate filter becomes saturated, the red indicator light will turn on 2 ON/OFF switch

3 Potentiometer
Direct control of the blower speed



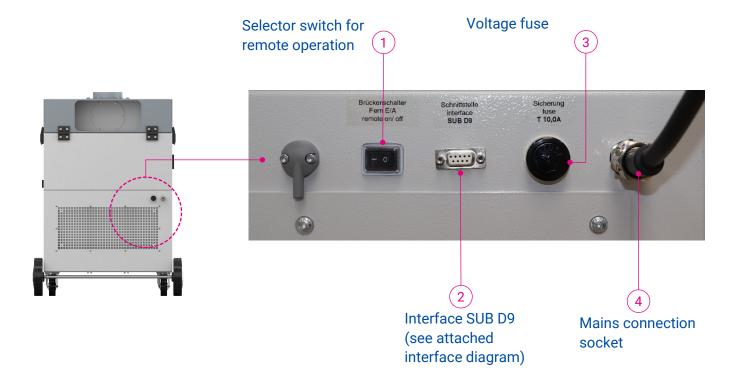








Figure 2: interfaces on the rear







Technical Data ULT 1200

Table 1: technical data - ULT 1200

| PARAMETER | UNIT | MD.18 | MD.18D | MD.80 |
|--|---|--|----------------------|-----------------|
| Max. volumetric flow rate | m³ / h | 1.500 | 1.700 | 1.490 |
| Max. vacuum | Pa | 2.940 | 3.350 | 1.800 |
| Rated operating points | m³/h @ Pa | 1.000 / 1.700 | 1.000 / 1.700 | 800 / 1.300 |
| Rated operating points ACD A60 | m³/h @ Pa | 450 / 2.500 | 450 / 2.500 | - |
| Protection class | IP | 54 | 54 | 54 |
| Sound level (@ 50 - 100% volumetric flow rate) | dB(A) | 55 - 65 | 55 - 65 | 72 |
| Vacuum generator type | | EC-blower | EC-blower | AC-blower |
| Rated voltage | VAC | 1~230 | 1~120 | 1~230 |
| Rated frequency | Hz | 50/60 | 50/60 | 50/60 |
| Rated motor power | kW | 0,86 | 1,20 | 0,75 |
| Rated current | Α | 4,8 | 13 | 4,8 |
| Volumetric flow rate controller | | yes | yes | no |
| no particle filter saturation indicator | | yes* | yes* | no |
| Minimum Volume Flow Indicator | | no | no | yes |
| Operating hours counter | | optional | optional | yes |
| Interface SUB D9 | (1*) | optional | optional | optional |
| Digital device control integrated | (2*) | optional | optional | optional |
| Digital device control removed | | optional | optional | optional |
| Air outlet DN 200 | (3*) | optional | optional | optional |
| Dimensions (width x depth x height) | mm | Measureme | nts are shown in the | e drawings |
| Weight | kg | from 145 to 215 | kg, depending on t | he filter setup |
| Air intake versions: | Nozzle location Alternative: Nozzle location Montage location | 1x Ø 150 mm Nozzle Back of the device, top 1x Ø 160 mm nozzle At the top of the device connector for Flextractor extraction arm Ø160 mm at the top of the device | | |
| Air Outlet: | location | Air outlet grille, Botto | m of the rear back | |
| | Alternative: Nozzle location | 1x Ø 200 mm Nozzle Bottom of the rear ba | ck | |
| Mains cable EU (CEE 7/7) | m | 5,0 (Country-specific version selectable) | | |

^{*} except ACD-Devices







(3*)







Characteristic Curves (230 V)

Figure 3: Characteristic Curves for ASD MD.18 TH; ACD MD.18 A28 and ACD MD.18 A60

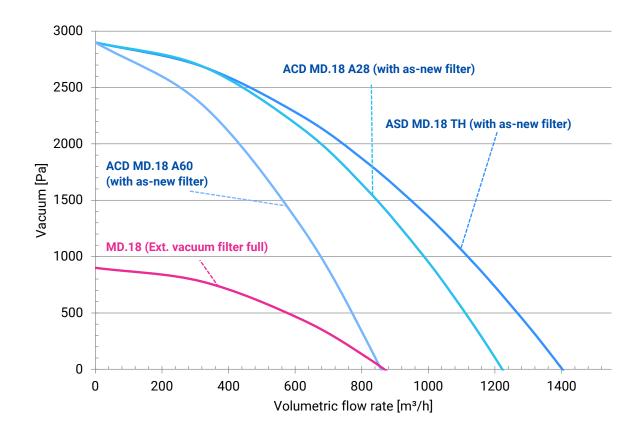
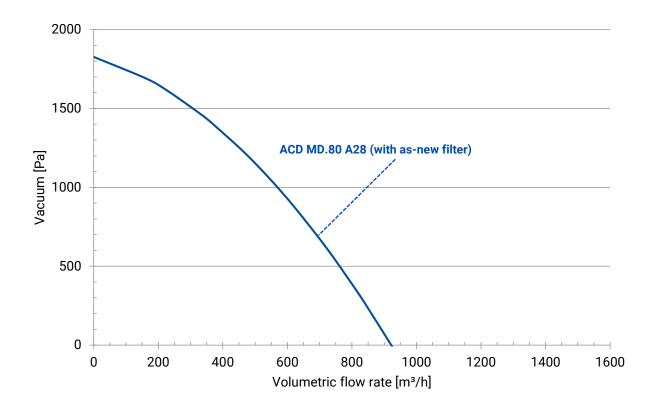






Figure 4: Characteristic curve for ACD MD.80 A28













ACD Series – Vapors, Odors and Gases

Area of Application

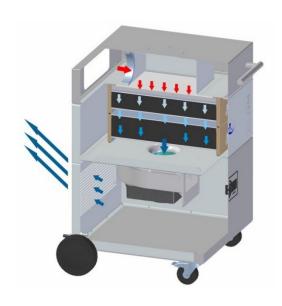
Gluing | Pre-treatment | Painting | Printing | Cleaning | Laminating | Casting

Operating Principle

On the clean gas side of the filter, an EC blower with a high-pressure reserve generates a volumetric flow rate that is matched to the target application. The volumetric flow rate can be individually regulated to a freely adjustable setting. The raw gas containing pollutants or harmful substances is thus reliably extracted.

The coarse dust particles are separated out in the first filter stage and retained. The separation (adsorption) of air impurities in the form of gas or vapor takes place in the activated carbon filter.

The filtration effect of the activated carbon is based on adsorption, i.e. the process by which (gaseous) substances adhere to the surface of the activated carbon. In general, physical adsorption does not involve any chemical changes to the substance being adsorbed. The filter design is matched to the nominal volumetric flow rate of the devices, and as a result the contact time is sufficient in order to achieve good adsorption behavior. For many gases and gas mixtures activated carbon is not suitable as an adsorbent. In these cases, chemisorption can be used as an alternative or additional separation method. Here, a chemical change takes place in the substances that are to be separated out.





If this method is used, the filter is filled with a mixture of activated carbon and chemisorption agent or the activated carbon is replaced altogether with chemisorption agent. Thanks to the high degree of purification, the filtered clean gas can be directed back to the working space (recirculated air mode). As a result, there are no thermal losses.

Recirculated air mode is not permitted when the equipment is used to extract substances that are carcinogenic, mutagenic, or toxic for reproduction. In these cases, the optional outlet nozzle should be mounted on the outlet side. The filtered clean gas must be directed via a connected pipe section into a central air outlet system.











Device Variants

Different filter combinations are available for the extraction and filtration of gases, odors, and vapors. The suitability of the filter materials that are available for separating out the impurities depends on the pollutants/harmful substances in question. For competent advice and help choosing the right filter material, please contact your local dealer or contact ULT AG directly via ult@ult.de.

The devices in the ULT 1200 series can be equipped with the following filter configurations based on the individual customer requirements:

ACD 1200 MD A28

Table 2: ACD 1200 MD A28

| Part number/ complete unit: | MD.18: 1-00014 / MD.80: 1-00016 | | |
|-------------------------------|---------------------------------------|--|--|
| Filter for organic gases: | Main filter module A28 | | |
| (1) Z-Line Filter G4 | | | |
| Filter class: | ISO Coarse 90% according to ISO 16890 | | |
| (2) Adsorption filter cassett | Adsorption filter cassette A12 | | |
| Filter medium: | Activated carbon fill (12 kg) | | |
| (3) Adsorption filter cassett | e A16 | | |
| Filter medium: | Activated carbon fill (16 kg) | | |
| | | | |











Table 3: ACD 1200 MD A28 (optional filter configuration)

| Part nui | mber option: | 9-00096 | |
|----------|---|---|--|
| | r gas mixtures: | Main filter module AC36 | |
| (1) | Z-Line Filter G4 | | |
| | Filter class: | ISO Coarse 90% ISO 16890 | |
| (2) | Chemisorption filter cass | sette AC15 up | |
| | Filter medium: | Granulate fill with 50% activated carbon and 50% chemisorption agent (15 kg in total) | |
| (3) | (3) Chemisorption filter cassette AC21 bottom | | |
| | Filter medium: | Granulate fill with 50% activated carbon and 50% chemisorption agent (21 kg in total) | |
| Part nui | mber option: | 9-00097 | |
| | or gaseous sulfur and n compounds: | Main filter module C41 | |
| (1) | Z-Line Filter G4 | | |
| | Filter class: | ISO Coarse 90% ISO 16890 | |
| (2) | Chemisorption filter cass | sette C19 up | |
| | Filter medium: | Granulate fill with 100% Chemisorption agent (19 kg) | |
| (3) | Chemisorption filter cass | sette C26 bottom | |
| | Filter medium: | Granulate fill with 100% Chemisorption agent (22 kg) | |

ACD 1200 MD A60

Table 4: ACD 1200 MD.18 A60

| Part number/ complete unit: | 1-00013 |
|----------------------------------|---------------------------------------|
| Filter for organic gases: | Main filter module A60 |
| (1) Z-Line Filter G4 | |
| Filter class: | ISO Coarse 90% according to ISO 16890 |
| (2) Adsorption filter cassette A | 12 |
| Filter medium: | Activated carbon – fill (12 kg) |
| (3) Adsorption filter cassette A | 16 |
| Filter medium: | Activated carbon – fill (16 kg) |
| (4) Adsorption filter cassette A | 16 |
| Filter medium: | Activated carbon – fill (16 kg) |
| (5) Adsorption filter cassette A | 16 |
| Filter medium: | Activated carbon – fill (16 kg) |











ASD Series - Dust and Smoke

Area of Application

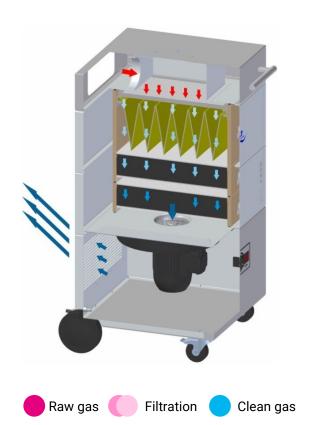
Grinding | Engraving | Polishing | Filling and Dosing Processes | Restoration

Operating principle

On the clean gas side of the filter, an EC blower with a high-pressure reserve generates a volumetric flow rate that is matched to the target application. The volumetric flow rate can be individually regulated to a freely adjustable setting. The raw gas containing pollutants or harmful substances is thus reliably extracted.

In production processes in which powdery substances are processed or in which materials are sawn, milled, or ground, dust will contaminate the working area. In addition, smoke can be generated in mechanical processes due to heating of the processed materials. Dust and smoke are harmful to health and will adversely affect the quality of production processes. As a result, it is important to remove these pollutants/harmful substances from the working area.

Two filter solutions with different filter cartridges for separation of the generated particles are available for this in the ASD series. By regularly changing the prefiltration elements at shorter intervals it is possible to prevent premature saturation of the downstream HEPA H13 main filter element and preserve the functionality of the main filter for a long period of time.



Finest suspended solids are retained by the HEPA H13 filter of the particulate filter cassette H13. This guarantees a particle separation rate of 99.95%.

Thanks to the high degree of purification, the <u>filtered clean gas</u> can be directed back to the working space (recirculated air mode). As a result, there are no thermal losses.

Recirculated air mode is not permitted when the equipment is used to extract substances that are carcinogenic, mutagenic, or toxic for reproduction. In these cases, the optional outlet nozzle should be mounted on the outlet side. The filtered clean gas must be directed via a connected pipe section into a central air outlet system.











Device Variants

Different filter combinations are available for the extraction and filtration of air impurities in the form of dust and smoke. The suitability of the different filter combinations that are available for separating out the impurities depends on the machining process in question. For competent advice and help choosing the right filter combination, please contact your local dealer or contact ULT AG directly via ult@ult.de.

For the extraction and filtration of harmful substances from dust-generating processes, the devices of the ULT 1200 series can be equipped with the following filter configuration:

ASD 1200 MD.18 TH

An upstream pocket filter F7, in combination with a Z-line filter F7, retains the majority of the generated particles. Its large volume provides a high capacity for holding back coarse dust. At the same time, the large filter surface enables the separation of even the finest dust particles, even at high raw gas flow rates.

Table 5: ASD 1200 MD. 18 TH

| Part nur | mber/ complete unit: | 1-00039 |
|---------------------|-----------------------------|---|
| Filter co smoke: | onfiguration for dust and | Main filter module TH |
| (1) | Pocket filter F7 | |
| | Filter class: | ePM1 50% ISO 16890 |
| (2) | Z-Line Filter F7 | |
| | Filter class: | ePM1 65% ISO 16890 |
| (3) | Particulate filter cassette | e H13 |
| | Filter class: | H13 HEPA-Filter, HEPA-Filter according to DIN EN 1822 |











LAS Series - Laser Smoke

Areas of the application

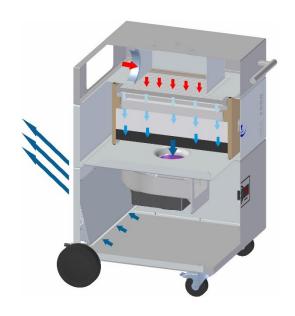
Laser cutting | Laser marking | Laser structuring | Laser engraving

Operating Principle

On the clean gas side of the filter, an EC blower with a high-pressure reserve generates a volumetric flow rate that is matched to the target application. The volumetric flow rate can be individually regulated to a freely adjustable setting. The raw gas containing pollutants or harmful substances is thus reliably extracted.

Laser smoke is produced in a wide range of different work processes in which lasers are used. This toxic, corrosive mixture of aerosols, gas, and nanoparticles represents a health hazard and has a negative impact on the quality of products and the machining process. Depending on the particular machining process, the resulting mixtures of substances that are produced and need to be removed from the raw gas can differ greatly.

Filter solutions with different pre-filter combinations and an upstream expanded metal filter for separation of aerosols and particles are available for this in the LAS series. The expanded metal filter can be cleaned in an industrial washer and is therefore reusable. By regularly changing the pre-filtration elements at shorter intervals, it is possible to preserve the functionality of the main filter for an extended period of time.







Filtration



Clean das

Finest suspended solids are retained by the HEPA H13 filter of the particulate filter cassette H13. This guarantees a particle separation rate of 99.95%.

The separation (adsorption) of air impurities in the form of gas or vapor takes place in the activated carbon fill of the adsorption filter.

The filtration effect of the activated carbon is based on adsorption, i.e. the process by which (gaseous) substances adhere to the surface of the activated carbon. In general, physical adsorption does not involve any chemical changes to the substance being adsorbed. The design of the filter is based on the nominal volumetric flow rate of the units, while the contact time is designed for medium adsorption behavior.

Thanks to the high degree of purification, the <u>filtered clean gas</u> can be directed back to the working space (recirculated air mode). As a result, there are no thermal losses.











Recirculated air mode is not permitted when the equipment is used to extract substances that are carcinogenic, mutagenic, or toxic for reproduction. In these cases, the optional outlet nozzle should be mounted on the outlet side. The filtered clean gas must be directed via a connected pipe section into a central air outlet system.

Device Variants

Various filter combinations are available for the extraction and filtration of harmful gas/dust mixtures from laser machining processes. The suitability of the different filter combinations that are available for separating out the impurities depends on the machining process in question. For competent advice and help choosing the right filter combination, please contact your local dealer or contact ULT AG directly via ult@ult.de.

The devices in the ULT 1200 series can be equipped with the following filter configurations based on the individual customer requirements:

LAS 1200 MD.18 K

A pre-filter combination consisting of an upstream expanded metal filter, a Z-line filter G4, and a Z-line filter F7 retains aerosols and particles, preventing premature clogging of the downstream H13 main filter element. This multi-stage filter setup is particularly well suited for the separation of dry laser fumes.

Table 6: LAS 1200 MD.18 K

| <u> </u> | | 1 | 1.00075 |
|----------|-----------------------------------|--------------------|---|
| Part nu | ımber/ | complete unit: | 1-00075 |
| Filter c | onfigu | ration for laser | Main filter module K |
| smoke | : | | |
| (1) | Expar | nded metal pre-fil | ter |
| | Meta | l fiber mesh, cond | densation filter |
| (2) | Pre fi | lter set | |
| | Z-Line | e Filter G4 | |
| | Filter | class: | ISO Coarse 90% according to ISO 16890 |
| (3) | Z-Line | e Filter F7 | |
| | Filter | class: | ePM1 65% according to ISO 16890 |
| (4) | Combination filter cassette H13A8 | | |
| | (4.1) | Particle filter H1 | 13 |
| | | Filter class: | H13 HEPA-Filter, HEPA filter according to |
| | | | DIN EN 1822 |
| | (4.2) | Adsorptions filte | er A8 |
| | | Filter medium: | Activated carbon fill (8 kg) |
| | | | |











LAS 1200 MD.18 THA16

An alternative configuration is available that uses a pocket filter for pre-separation. This setup is ideal for processes generating large volumes of sticky laser fumes, such as those from organic material processing. Thanks to its large volume, the pocket filter promotes condensation and agglomeration of separated aerosols and particles without causing filter blockage.

Table 7: LAS 1200 MD.18 THA16

| Part nu | ımber/ complete unit: | 1-00074 |
|-------------------|-----------------------------|---------------------------------|
| Filter c smoke | onfiguration for laser : | Main filter module THA16 |
| (1) | Expanded metal pre-filte | er |
| | Metal fiber mesh, conde | nsation filter |
| (2) | Pocket filter F7 | |
| | Filter class: | ePM1 50% according to ISO 16890 |
| (3) | Filter mat M5 | |
| | Filter class: | ePM10 50% according to ISO |
| | | 16890 |
| (4) | Particle filter H13 | |
| | Filter class: | H13 HEPA-Filter, HEPA filter |
| | | according to DIN EN 1822 |
| (5) | Adsorption filter A16 | |
| | Filter medium: | Activated carbon fill (16 kg) |











LAS 1200 MD.18 FHA16

A pre-filter, consisting of an upstream particulate filter cassette (F), captures aerosols and particles, effectively preventing premature clogging of the downstream H13 main HEPA filter element. This multi-stage filtration setup is particularly well-suited for the extraction of dry laser fume containing a high proportion of fine dust particles.

Table: 8: LAS 1200 MD.18 FHA16

| Part nu | ımber/ complete unit: | 1-00153 | |
|-------------------|------------------------------|--------------------------------------|--|
| Filter c smoke | onfiguration for laser : | Main filter module FHA16 | |
| | | Expanded metal pre-filter (optional) | |
| (1) | Particle filter cassette F | | |
| | Filter class: | ePM1 80%, according to ISO 16980 | |
| (2) | Particle filter cassette H13 | | |
| | Filter class: | H13 HEPA-Filter, HEPA filter | |
| | | according to DIN EN 1822 | |
| (3) | Adsorption filter A16 | | |
| | Filter medium: | Activated carbon fill (16 kg) | |











LRA Series – Soldering Fumes

Areas of Application

Manual Soldering | Robot Soldering | Soldering Systems at Special Workplaces

Operating Principle

On the clean gas side of the filter, an EC blower with a high-pressure reserve generates a volumetric flow rate that is matched to the target application. The volumetric flow rate can be individually regulated to a freely adjustable setting. The raw gas containing pollutants or harmful substances is thus reliably extracted.

During soldering work, soldering fumes are formed from evaporating soldering flux, small amounts of solder, as well as outgassing substances from processed circuit boards and components. The fumes consist of a mixture of sticky aerosols, particles, and gases that need to be removed from the raw gas.

The filter configuration used for this has been specially designed for the application. An upstream expanded metal filter retains cooled-down sticky aerosols and prevents premature saturation of the downstream filter elements. The expanded metal filter can be cleaned in an industrial washer and can therefore be used multiple times.

Particles contained in the soldering fumes are separated in a multi-stage storage filtration system. Thanks to their depth effect, the filter pads used are particularly well suited to the separation of soldering

Raw gas Filtration Clean gas

fumes. A large proportion of the particles contained in the soldering fumes and of the aerosols still remaining in the raw gas is captured through adsorption at this point. Finest suspended solids are retained by the HEPA H13 filter of the particulate filter cassette H13. This guarantees a particle separation rate of 99.95%.

The separation (adsorption) of air impurities in the form of gas or vapor takes place in the activated carbon fill of the adsorption filter.

The filtration effect of the activated carbon is based on adsorption, i.e. the process by which (gaseous) substances adhere to the surface of the activated carbon. In general, physical adsorption does not involve any chemical changes to the substance being adsorbed. The design of the filter is based on the nominal volumetric flow rate of the units, while the contact time is designed for medium adsorption behavior.











Thanks to the high degree of purification, the <u>filtered clean gas</u> can be directed back to the working space (recirculated air mode). As a result, there are no thermal losses.

Recirculated air mode is not permitted when the equipment is used to extract substances that are carcinogenic, mutagenic, or toxic for reproduction. In these cases, the optional outlet nozzle should be mounted on the outlet side. The filtered clean gas must be directed via a connected pipe section into a central air outlet system.

Device Variants

The units in the ULT 1200 series can be equipped with the following filter configuration for extraction and filtration of harmful gas/dust mixtures from soldering processes:

LRA 1200 MD.18 K

Table 9: LRA 1200 MD.18 K

| Produc | t numl | per / complete unit | : 1-00093 |
|----------------------|--------|-----------------------|--|
| filter co solderi | • | ration for nes: | Main filter module K |
| (1) | Expar | nded metal pre-filte | r |
| | Metal | fiber mesh, conde | nsation filter |
| (2) | Z-Line | e Filter G4 | |
| | Filter | classes: | ISO Coarse 90% according to ISO 16890 |
| (3) | Z-Line | e Filter F7 | |
| | Filter | classes: | ePM1 65% according to ISO 16890 |
| (4) | Comb | oination filter casse | tte H13A8 |
| | (4.1) | Particle filter H13 | |
| | | Filter class: | H13 HEPA-Filter, HEPA filter according |
| | | | to DIN EN 1822 |
| | (4.2) | Adsorption filter A | A8 |
| | | Filter medium: | Activated carbon fill (8 kg) |











Accessory items

Suction system DN150

hoses



| Suction hose DN150, | Antistatic, without accessories | 6-16401 |
|---------------------|---------------------------------|---------|
| By the meter | | |

Hose accessories



| spiral hose clamp | 145-165 mm | 6-06966 |
|-------------------|------------|---------|
| | | |

Suction system DN160

hoses



| Suction hose DN160, | antistatic, | 6-16402 |
|---------------------|---------------------|---------|
| By the meter | without accessories | |

Hose accessories



| spiral hose clamp | 155-175 mm | 6-06954 |
|-------------------|------------|---------|
| End fitting DN160 | antistatic | 6-07282 |











Elements for extraction arm installation and intake nozzles



| device assembly, | CB-SU-160 |
|-------------------------|------------------|
| Extraction arms, | |
| Flextractor accessories | |
| | Extraction arms, |

Extraction arms





| jointed extraction arm DN160m, 2 meter Resistant to welding fumes, oil resistant | with wall bracket, without capturing element Flextractor accessories | CA2-160- BPU301 |
|---|--|--------------------|
| extendable extraction arm DN160m, 1,2-1,6 Meter Resistant to welding fumes, oil resistant | without capturing element Flextractor accessories | CT2-160- BPU301 |

Collecting elements

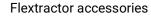


| Flared hood coated black | Flextractor accessories | CH-160- Flared |
|--------------------------|-------------------------|-------------------|
| Flat hood coated | Flextractor accessories | CH-160-Flat |

Extraction arm set Flextraction



Articulated extraction arm DN160, 3m, with slewing ring abrasion, chemicals, welding fume, oil and temperature proof up to 90°C



5-01587



incl. flat hood, powder coated



incl. flat hood, powder coated











Elements for extraction arm mounting for EX-applications



| 360° swivel, | Device mounting | XCB-SU-160 |
|-----------------------------|-----------------------|------------|
| mild steel polyester coated | extraction arm, | |
| black | Flextractor accessory | |
| | | |

Extraction arms for EX-applications





| Extraction arm DN160m, | with wall mounting, | XCA2-160- |
|------------------------|----------------------------|-----------|
| 2 meters | without collecting element | BPE322 |
| ATEX certified | Flextractor accessory | |
| ATEX Certified | Flexifactor accessory | |
| Telescopic arm DN160m, | without collecting element | XCT2-160- |
| 1,2-1,6 meters | | BPE322 |
| | | |
| ATEX certified | Flextractor accessory | |
| | | |

Collecting elements for Ex- applications



| Flared hood ATEX certified | Flextractor accessory | XCH-160- Flared |
|----------------------------|-----------------------|--------------------|
| Flat hood ATEX certified | Flextractor accessory | XCH-160- Flat |

Extraction arm set Flextraction ATEX



Articulated extraction arm DN160, 3m, with slewing ring, ATEX-certified Chemicals and temperature proof up to 80°C

Flextractor Accessoires

5-01588



incl. flat hood, powder coated, ATEX-certified



incl. intake mesh ATEX-certified











DN200 exhaust air system

Hoses



| Suction hose DN200, | antistatic, | 6-16403 |
|---------------------|---------------------|---------|
| per meter | without accessories | |

Hose accesories



| Spiral hose clamp | 195-215 mm | 6-06955 |
|-------------------|------------|---------|
| | | |





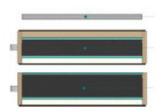






Replacement filter

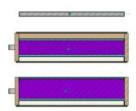
ACD



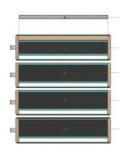
| Filter A28 | |
|---------------------------------------|---------|
| Z-Line Filter G4-02 | 4-00310 |
| Adsorption filter cassette A12 top | 4-00401 |
| Adsorption filter cassette A16 bottom | 4-00399 |



| Z-Line Filter G4-02 | 4-00310 |
|---|---------|
| Chemisorption filter cassette AC15 top | 4-00414 |
| Chemisorption filter cassette AC21 bottom | 4-00415 |



| Z-Line Filter G4-02 | 4-00310 |
|---|---------|
| Chemisorption filter cassette C19 top | 4-00417 |
| Chemisorption filter cassette C26 Bottom | 4-00416 |



| Filter A60 | |
|---|---------|
| Z-Line Filter G4-02 | 4-00311 |
| Adsorption filter cassette A12 top | 4-00401 |
| Adsorption filter cassette A16 bottom (3 pcs needed per device) | 4-00399 |



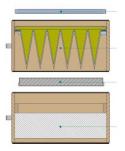






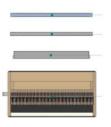


ASD

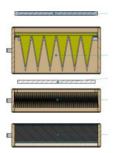


| Filter TH | |
|----------------------------------|---------|
| Expanded metal filter (optional) | 4-00312 |
| Pocket filter F7 | 4-00181 |
| Pocket filter F7 - Set of 10 pcs | 4-00182 |
| Z-Line Filter F7 | 4-00331 |
| Particle filter cassette H13 | 4-00092 |

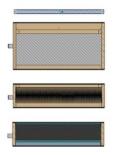
LAS



| Filter K | |
|-------------------------------------|---------|
| Expanded metal filter | 4-00312 |
| Z-Line Filter G4-02 | 4-00310 |
| Z-Line Filter G4-02 - Set of 10 pcs | 4-00311 |
| Z-Line Filter F7 | 4-00331 |
| Combined filter cassette H13A8 | 4-00096 |
| | |



| Filter THA16 | |
|---------------------------------------|---------|
| Expanded metal filter | 4-00312 |
| Pocket filter F7 | 4-00181 |
| Filter mat M5 | 4-00246 |
| Particle filter cassette H13 | 4-00094 |
| Adsorption filter cassette A16 bottom | 4-00399 |



| Filter FHA16 | | | | | |
|---------------------------------------|---------|--|--|--|--|
| Expanded metal filter (optional) | 4-00312 | | | | |
| Particle filter cassette F | 4-00828 | | | | |
| Particle filter cassette H13 | 4-00094 | | | | |
| Adsorption filter cassette A16 bottom | 4-00399 | | | | |











LRA



| Filter K | |
|-------------------------------------|---------|
| Expanded metal filter | 4-00312 |
| Z-Line Filter G4-02 | 4-00310 |
| Z-Line Filter G4-02 - Set of 10 pcs | 4-00311 |
| Z-Line Filter F7 | 4-00331 |
| Combined filter cassette H13A8 | 4-00096 |

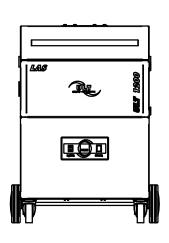


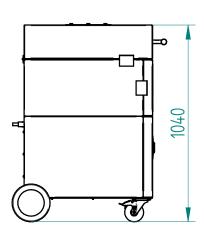


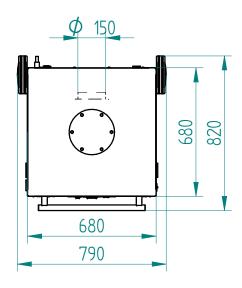


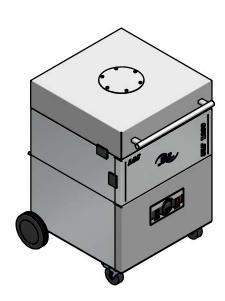












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| | | | | | | AG elteich 1 8 Löbau | LAS 1200 MD K | |
|------|----------|----------|-------|--------|--------|----------------------------|---------------------|----------|
| | | | | 2012 | Datum | Name | Zeichnungsnummer: | Maßstab: |
| 001 | Basis | 20.07.12 | RSEH | Bearb. | 20.07. | RSEH | ULT 4000 00 400 004 | 4 00 |
| Aus- | Änderuna | Tag | Name | Gepr. | | | ULT 1200_00_129_006 | 1 : 20 |
| gabe | Anuerung | Tag | Nulle | Norm | | | | |

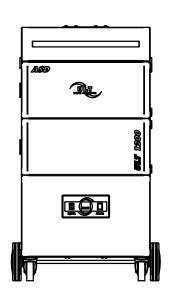


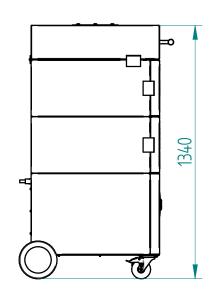


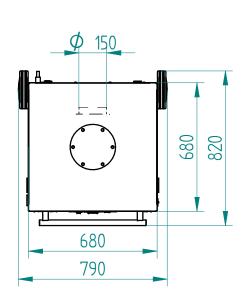


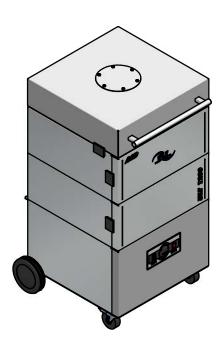












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| | | | | | | AG elteich 1 8 Löbau | ASD 1200 MD TH | |
|------|--------------|----------|-------|--------|--------|-----------------------------------|---------------------|----------|
| 002 | Beschriftung | 06.11.12 | JSACZ | 2012 | Datum | Name | Zeichnungsnummer: | Maßstab: |
| 001 | Basis | 03.04.12 | RSEH | Bearb. | 03.04. | RSEH | LUT 4000 00 407 004 | 4 00 |
| Aus- | Ändonung | Tag | Name | Gepr. | | | ULT 1200_00_107_006 | 1 : 20 |
| gabe | Anderung | Tag | Nulle | Norm | | | | |

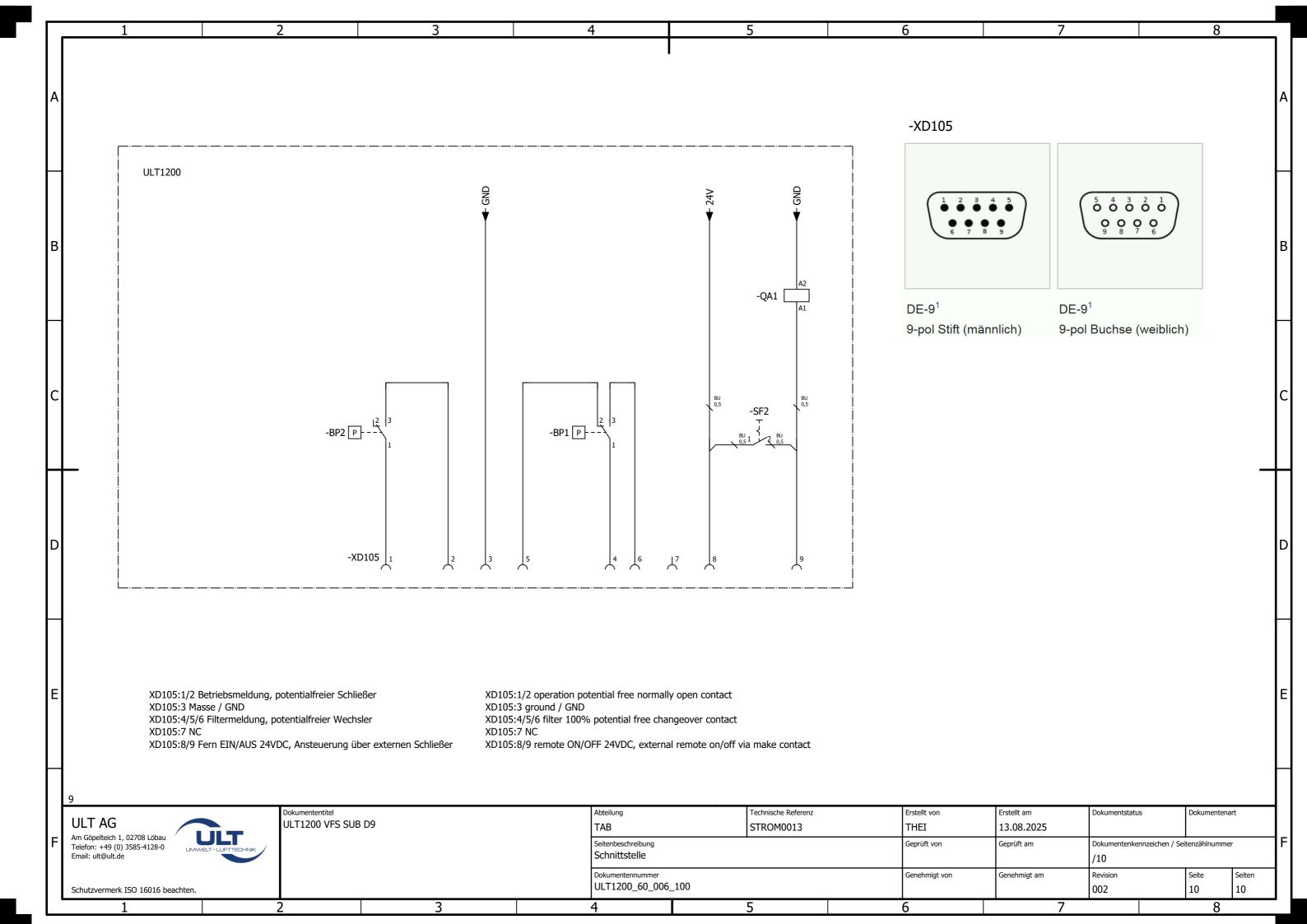












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