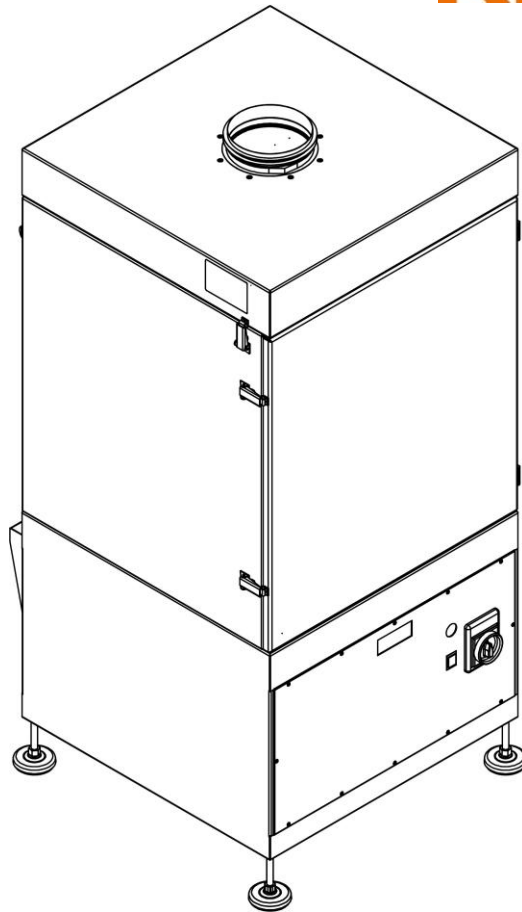




FilterCell XL

EN – Operating Manual

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1 General

1.1 Introduction

This manual is an essential aid for the proper and safe operation of the product.

These operating instructions contain important information to ensure safe, proper and efficient operation of the product. Observing these instructions helps avoiding danger, reducing repair costs and downtimes and increasing the reliability and service life of the product. The operating instructions must be kept available at all times and have to be read and applied by every person who is assigned to work on or with the product.

These include amongst others:

- the operation and troubleshooting during operation
- the maintenance (care, maintenance, repair)
- the transport
- the assembly
- the disposal

Technical modifications and errors expected.

1.2 References to copyright and industrial property rights

These operating instructions are to be kept confidential and made accessible only to authorised persons. Disclosure to third parties is only permitted with the prior written consent of the manufacturer KEMPER GmbH.

All documents are protected under the Copyright Act. Any form of disclosure, reproduction, or partial use, as well as the communication of its content, is prohibited without express written permission.

Violations will be prosecuted under criminal law and will incur liability for any resulting damages.

Industrial property rights such as patents, trademarks, or designs are exclusively held by the manufacturer.

1.3 Notes for the operating company

The operating instructions are an essential part of the product.

The operating company must ensure that the operating personnel is aware of the contents of this manual.

Based on national regulations for accident prevention and environmental protection, the operating instructions are to be supplemented by the operating company's own operating instructions, including information on regulatory and reporting requirements to meet specific operating requirements, such as work organisation, work flow and staff employed. In

addition to the operating instructions and the relevant obligatory regulations for accident prevention applicable in the country of use, it is also imperative to comply with the recognised technical rules for safe and professional handling.

Without prior consent from the manufacturer, the operating company may not carry out any changes, conversions or additions to the product which may impair safety. Spare parts used must comply with the manufacturer's specified technical requirements. This is always the case with original replacement parts.

Only use trained and instructed staff for the operation, maintenance, repair and transport of the product. Clearly define for staff who is responsible for operation, maintenance and transport.

2 Safety

2.1 General information

The product is designed and built according to state-of-the-art technology and the recognised safety rules and regulations. When operating the product, technical hazards for the operator or impairment of the product as well as other property may occur, if:

- it is not operated by trained or instructed personnel
- it is not used for the purpose intended and/or
- it is improperly maintained

2.2 Information on signs and symbols

⚠ DANGER

This symbol in conjunction with the signal word "Danger" indicates imminent danger. Non-adherence of the safety note leads to death or serious injuries.

⚠ WARNING

The symbol in conjunction with the signal word "Warning" indicates a potentially dangerous situation. Non-adherence to the safety notice may lead to death or serious injuries.

⚠ CAUTION

The symbol in conjunction with the signal word "Caution" indicates a potentially dangerous situation. Non-adherence of the safety note may lead to slight or negligible injuries.

May also be used for warnings against property damage.

NOTE

The general information is simple additional information which does not warn about personal injury or property damage.

1. Enumerations of action steps are marked as numbers with a dot, where the order is important.
- Bullet points indicate lists of parts in a legend or instructions for which the sequence is unimportant

2.3 Markings/signs to be affixed by the operating company

The operating company is obliged to post further markings and signs on the product and the surrounding area if necessary.

Such markings and signs might be related, for example, to the requirement for wearing personal protective equipment.

2.4 Safety instructions for operating staff

Before use, the operator of the product must be instructed through information, instructions and training on the handling of the product and the materials and aids to be used.

The product system may only be used in technically perfect condition, for its intended purpose, in full awareness of the safety aspects and potential dangers and in accordance with these instructions. All errors, especially those that may affect safety, must be removed immediately.

Every person who is charged with commissioning, operation or maintenance must have fully read and understood these operating instructions. This specifically applies to staff who only operate the product occasionally.

The operating instructions must always be within reach of the product.

We accept no liability for any damages or injuries caused by failure to observe these operating instructions.

The relevant accident prevention regulations and other generally recognised safety and occupational health regulations must be observed.

The responsibilities for the various activities included in maintenance and repair must be clearly defined and adhered to. Only then will human error - especially in dangerous situations - be avoided.

The operating company is to enforce wearing of personal protective equipment by operating and maintenance staff. These include in particular safety shoes, safety glasses and gloves.

Do not wear loose, long hair, loose clothing or jewellery. In theory, there is a risk of getting caught on something, or being pulled in or dragged along by moving parts.

If there are any safety-related changes to the product, immediately halt the process, secure it and report the occurrence to the relevant authority/person!

Work on the product may only be carried out by reliable, trained staff. Observe the minimum legal age.

Staff who require training, teaching or instructing or staff who undergo a general apprenticeship may only operate the product under the supervision of an experienced member of staff.

2.5 Safety instructions for maintenance/troubleshooting

Service and maintenance doors must be freely accessible at all times.

Setting up, maintenance and repair work and troubleshooting must only be performed when the product is switched off.

Always tighten bolt connections that have been loosened during repair work. If specified, tighten the relevant bolts with a torque wrench.

In particular, protect connections and screw connections from dirt or care products at the beginning of maintenance/repair/care

The time frames for periodic testing/inspections stipulated or specified in the operating instructions must be observed.

Before disassembling, mark the parts that belong together.

2.6 Notes regarding special types of hazard

⚠ DANGER

Danger of electric shock!

Any work on the electrical equipment of the product must only be performed by a qualified electrician or by operating personnel under the direction and supervision of a qualified electrician in accordance with electronic regulations.

Before opening the product, pull the plug, if available, and secure it against accidental switch-on.

For faults with the product's electrical energy supply, immediately switch the product off at the on/off switch and if available, also pull the plug.

Use only original fuses with the prescribed amperage.

Electrical components, on which inspection, maintenance and repair work must be carried out, must be disconnected from the power supply. Secure equipment that has been used for disconnection against unintentional or automatic reconnection. Firstly check that no voltage is present in activated, electrical components, then isolate adjacent components under voltage. When making repairs, ensure that constructive characteristics are not altered in a way that reduces safety.

Check cables regularly for damage and replace if necessary.



CAUTION: Automatically Operated Device –
To Reduce The Risk Of Injury Disconnect From
Power Supply Before Servicing.

WARNING: To Reduce The Risk Of Electric Shock,
Do Not Expose to Water or Rain.

ATTENTION: Appareil fonctionnant automatiquement
– afin de réduire les risques de blessure, débrancher
l'alimentation électrique de procéder à l'entretien.

AVERTISSEMENT: Pour réduire le risque de choc
électrique, ne pas exposer à l'eau ou à la pluie.

⚠ WARNING

Electric shock if earthing is missing!

If the protective earth connection of devices is missing or incorrectly executed, high voltages may be present on exposed parts or housing parts which, if touched, can lead to serious injury or death.

⚠ WARNING

Electric shock if an unsuitable power supply is connected!

The connection of an unsuitable power supply can cause parts that can be touched to be under dangerous voltage. Contact with dangerous voltage can lead to serious or fatal injury.

For electrical connection data, see the name plate of the product

Power supply

The product is designed for the mains voltage indicated on the name plate. If mains cables or mains plugs are not fitted to the product, they must be fitted in accordance with national standards.

⚠ CAUTION

Insufficiently dimensioned electrical installation can lead to serious damage to property.

The mains supply line and its fuse protection must be designed in accordance with the existing power supply. Observe the technical data on the name plate.

The mains fuse should be equipped with at least a **category C** circuit breaker.

⚠ WARNING

Danger from toppling over during transport!

The product may tilt and topple over when moved. People can be injured due to the high dead weight.

- Before moving, release the brakes on the castors.
- Move and set down the product only on flat, smooth floor coverings.
- Only move the product with the push handle.
- Do not use the push handle to lift the product.
- Do not sit or climb on the product.
- Before moving; if present, fold in suction arm / wind up or dismantle suction hoses

⚠ WARNING**Health hazards caused by welding fume particles**

Do not inhale welding dust / smoke! Serious injury to the lungs and respiratory tract is possible!

Sweat smoke contains substances that can cause cancer!

Skin contact with cutting and welding fumes etc. can cause skin irritation in sensitive persons!

Repair and maintenance work on the product may only be carried out by trained and authorised personnel while complying with the safety rules and the applicable accident prevention regulations.

To avoid contact with and inhalation of the dust particles, wear disposable overalls, protective goggles, gloves and a suitable Class FFP2 respiratory protection filter mask in accordance with EN 149.

The release of hazardous dust particles during repair and maintenance is to be avoided to ensure that persons not charged with the task are not affected.

⚠ WARNING

Work on the compressed air vessel and on the compressed air lines and components may only be performed by persons with expertise in pneumatics.

The pneumatic system must be isolated and depressurised prior to the performance of maintenance and repair work on the external compressed air supply.

⚠ CAUTION**Health hazard due to noise!**

The product can produce noise, please refer to information in the technical data. In connection with other machines and/or local conditions, a higher noise level can occur at the operation site of the product. In this case, the operating company is obliged to provide the operating personnel with the appropriate protective equipment.

3 Product information

3.1 Functional description

The product is a compact welding fumes filter device that extracts welding fumes at the point where they are produced and extracts them with a filter efficiency of more than 99%.

The product is equipped with a flexible extraction arm whose extraction hood is easy to move and is self-supporting in any position.

The extracted air is cleaned using a 1-stage filter method and then fed back into the workspace.

The particles separated by the filter cartridge are repelled by an automatic compressed air pulse system by means of a rotary separator. The repelled particles fall into a dust collection container that then can be removed for disposal.

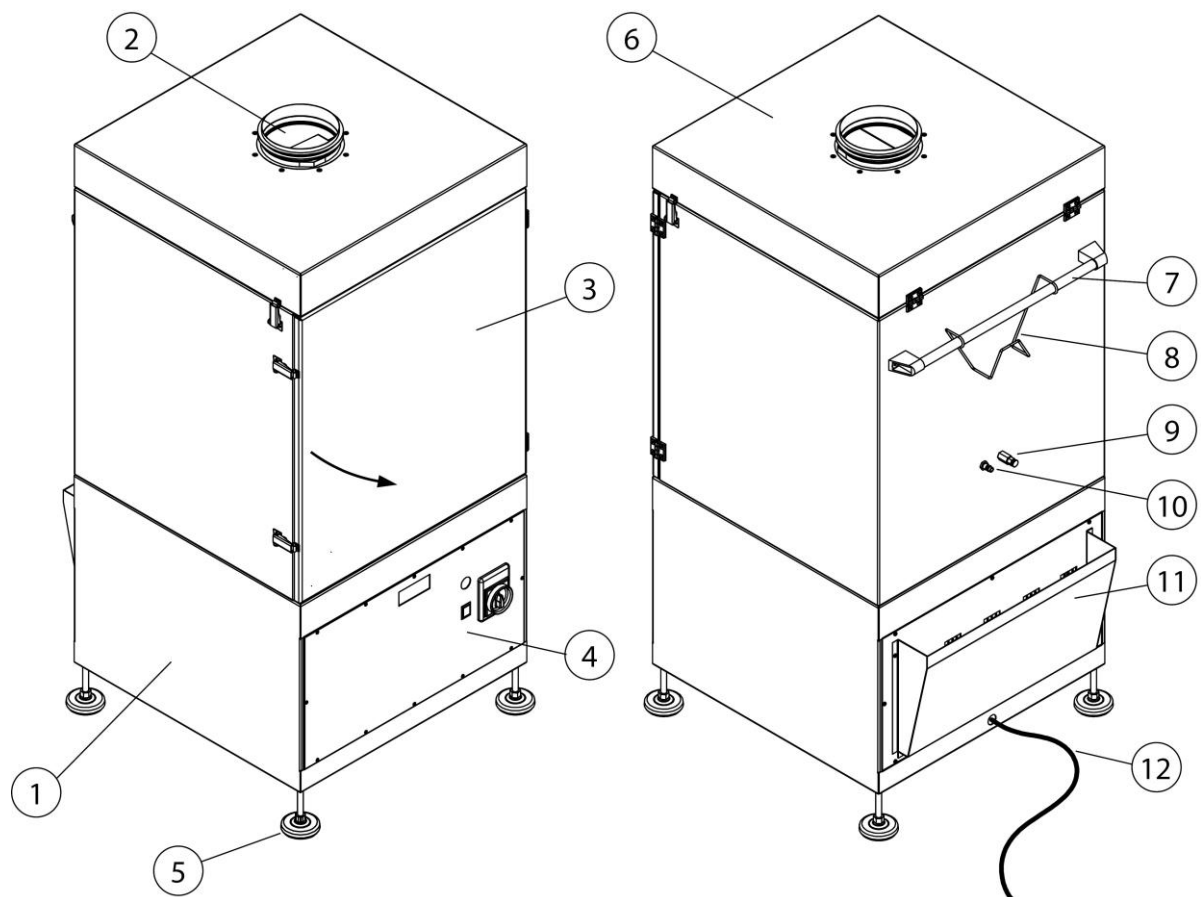


Fig. 1: Functional description

Pos.	Description	Pos.	Description
1	Fan component	7	Push handle
2	Duct connection – raw air inlet	8	Cable holder
3	Maintenance door filter area	9	Condensate drain valve
4	Operating control	10	Compressed air connection
5	Adjustable machine foot	11	Clean air outlet
6	Maintenance cover	12	Mains supply connection cable

Tab. 1: Positions on the product

Filter cleaning method – differential pressure-controlled

The cleaning of the filter element(s) is controlled by differential pressure.

If the degree of contamination of the filter increases, the differential pressure also increases. If the differential pressure exceeds a specific value, cleaning takes place automatically.

3.2 Distinguishing feature – W3 certified

The product is manufactured in two versions:

- **Version – non W3 certified**
- **Version – W3 certified**

Attention

Only products labelled with the W3 sticker have been tested and certified accordingly.

See also chapter technical data: Welding fume class and test standard.

W3-tested:

The product has been tested by the IFA (Institute for Occupational Safety and Health of the German Social Accident Insurance Institutions). It fulfils the requirements of welding fume separation class W3 and conforms to EN ISO 21904-1.

The tested products are labelled with the DGUV test mark and a W3-tested (marking of the welding fume separation class) in the form of a sticker.

Labelling on the product	Meaning/explanation	Reference logo
W3 sticker	Type "W3 certified" according to test standard – see chapter "Technical data"	

Tab. 2: W3 label

3.3 Intended use

The product is designed to extract and filter out the welding fumes produced when welding metallic materials at the point of origin. In general, the product can be used for all work processes in which welding fumes are released. However, care must be taken that no glowing sparks are drawn into the product.

Dimensions and further product details that must be observed can be found in the technical data.

NOTE



Only products labelled with the W3 sticker have been tested and certified accordingly. See also chapter Technical data: Welding fume class and test standard.

NOTE

When welding alloyed or high-alloy steels with filler metals above 5% chromium/nickel, carcinogenic CMR substances (carcinogenic, mutagenic, reprotoxic) are released. In accordance with official regulations, only tested and approved products may be operated in Germany to extract these harmful smoke particles using the so-called recirculation method.

Only products that meet the requirements of welding fume separation class W3/IFA certified may be operated for the aforementioned welding processes using the recirculation method.

When extracting welding fumes with carcinogenic components (e.g. chromates, nickel oxides, etc.), the requirements of TRGS 560 (technical rules for HAZMAT) and TRGS 528 (welding work) must be obeyed.

NOTE

The information in the "Technical data" chapter must be observed and strictly adhered to.

Intended use also includes observation of the instructions and information on

- safety
- operation and control
- maintenance and servicing

contained in this manual.

Any other use or use going beyond this is considered improper use. The company operating the product is solely responsible for any damage resulting from it. This also applies to unauthorised modifications to the product.

3.4 Ambient conditions

Operation or storage of the device outside the specified area is deemed unintended use and may impair the function, the extraction capacity and the protective effect in accordance with DIN EN ISO 21904. The manufacturer is not liable for any resulting damage.

General:

- Ambient air free from dust, acids, corrosive gases or other aggressive substances.
- Height above sea level: up to 1000 m [3281 ft].
- For accordingly released products only: Indoor or outdoor operation permitted.

Temperature range of the ambient air:

Operating mode	Operation	Transport/ storage
Indoor (Indoor area)	+5 °C to 40 °C [+41 °F to +104 °F]	-20 °C to +50 °C [-4 °F to +122 °F]
Outdoor (For approved products only)	-10 °C to 40 °C [+14 °F to +104 °F]	-20 °C to +50 °C [-4 °F to +122 °F]

Table 3: Temperature range of the ambient air

Relative humidity (non-condensing unless approved otherwise):

- **Indoor:** up to 50% at +40 °C [+104 °F], up to 90% at +20 °C [+68 °F]
- **Outdoor:** up to 100%, including temporary condensation due to weather conditions

3.5 General requirements in accordance with DIN EN ISO 21904

NOTE

Connection of ducting systems, extraction arms and hoses.

Ducting systems, extraction arms and hoses connected to the product can lead to a pressure drop and must be taken into account by the system designer or user.

The connected components must be suitable for the product and ensure the required minimum volume flow (extraction capacity).

A possible design of the ducting can be requested from the manufacturer.

The connected components must be checked regularly for proper seating, leaks and blockages.

The required extraction capacity must be checked at the central extraction element.

NOTE

Returning the air to the workplace atmosphere

In some Federal States, recirculation of air into the workplace atmosphere is not recommended or is prohibited. It may be necessary to conduct the exhaust air to the outside via a duct.

3.6 Reasonably foreseeable misuse

No reasonable, foreseeable misuse is possible that could lead to dangerous situations with personal injury when working with the product whilst adhering to its intended use.

The operation of the product in industrial areas that do not comply with the requirements for explosion protection is not permissible.

Furthermore, the operation is prohibited for:

1. Processes that are not in the intended use list and in which the extracted air is:

- is mixed with sparks, e.g. from grinding processes, which due to their size and quantity might lead to damage to the filter media or even to a fire;
 - mixed with liquids and the resulting contamination of the air flow with vapours containing aerosols and oils;
 - mixed with highly flammable, combustible dust and/or with substances that can form explosive mixtures or atmospheres;
 - is mixed with other aggressive or abrasive dust that could damage the product and the filter elements employed;
 - is mixed with organic, toxic substances or a proportion of substances that are released when cutting the material.
2. Outdoor locations where the product is exposed to weather conditions because the product must only be installed in closed buildings.
If there is an outdoor variant of the product available, this may be installed outside. Please note that additional accessories may be required for the outdoor installation.

3.7 Markings and signs on the product

Various markings and signs are affixed to the product. If these are damaged or removed, please replace them immediately with new ones in the same location.

The operating company is obliged to post further markings and signs on the product and the surrounding area if necessary.

Such notes and signs might be related, for example, to the requirement for wearing personal protective equipment.

In the country of use, additional required safety instructions and pictograms can be provided by the manufacturer in accordance with applicable law.

3.8 Residual Risk

Even when all safety rules are observed, when operating the product a residual risk remains, as described below.

All persons working on and with the product must be aware of these residual risks and follow the instructions that prevent these residual risks from causing accidents or damages.

⚠ WARNING

Danger of serious injury to the lungs and respiratory tract – always wear respiratory protection, Class FFP2 or higher.

Skin contact with welding fume particles may cause skin irritation in sensitive persons – wear protective clothing.

Before starting the welding process, ensure that the product is properly adjusted and in operation. The filter elements must be complete and in undamaged condition.

The connected detection element must reliably detect the welding fumes. For the correct positioning, refer to the documentation of the detection element.

When changing the filter inserts, skin contact with the separated dust particles may occur and parts of the dust particles may also be stirred up by the work. Respiratory protection and protective clothing must be worn.

Embers in the filter elements may cause smouldering fires – switch off the product, close the damper flap in the collection element if fitted and let the device cool down in a controlled manner.

4 Transport and Storage

4.1 Transport

⚠ DANGER

Life-threatening crushing possible when loading and transporting the product!

Improper lifting and transporting may cause the pallet (if present) to tilt and fall!

- Never stand under suspended loads.
- Observe the permissible loads of the transport and lifting aids.
- Observe the applicable accident prevention and occupational safety regulations.

For transporting products with a pallet, use a suitable pallet truck or forklift. The weight of the product can be found on the name plate.

4.2 Storage

The product must be stored in its original packaging at an ambient temperature of 20 °C to +50 °C in a dry and clean place. The packaging must not be loaded by other objects.

The storage duration is not critical for all products.

5 Assembly

NOTE

The operating company of the product may only commission persons to independently assemble the product if they are well-versed in this task.

Two people are needed to assemble the product.

Ensure that the welding current return line between the workpiece and the welding machine has a low resistance and that connections between the workpiece and the product are avoided so that the welding current cannot flow back to the welding machine via the product's protective conductor.

NOTE

If add-on products are also present, follow the appropriate manuals when assembling them.

Carry out the assembly of the product as follows:

1. Remove the outer packaging of the product.
2. Lift the product from the pallet using a suitable hoist and position it at the installation site.

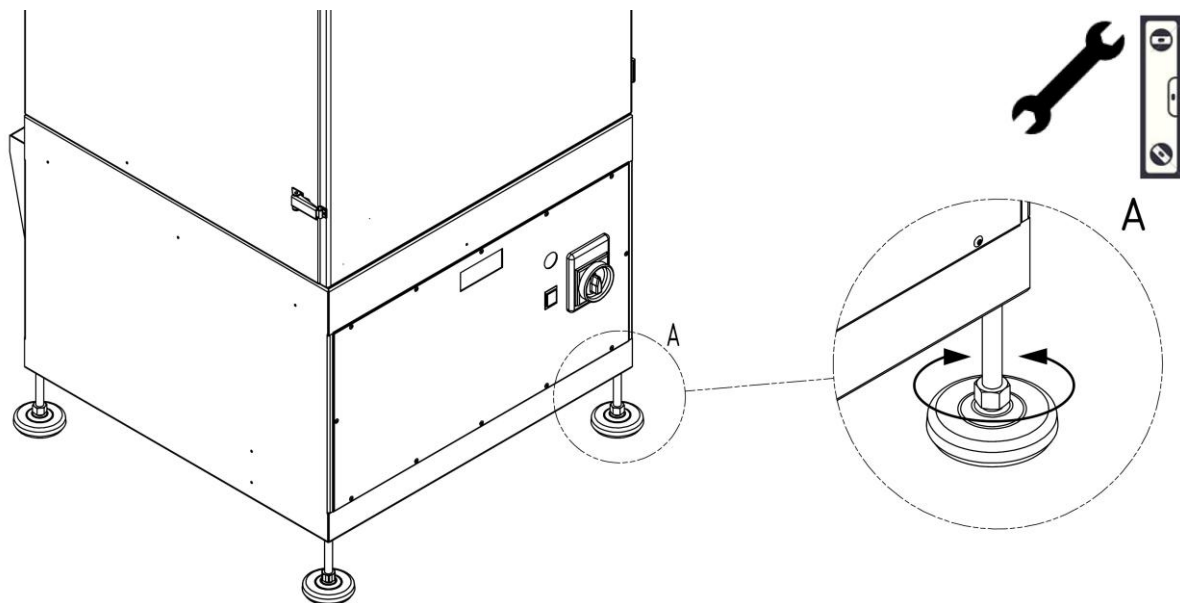


Fig. 2: Aligning the product

3. Align the product as shown in the illustration using a suitable hexagonal spanner. Use a spirit level for alignment and ensure that the machine feet are evenly loaded.

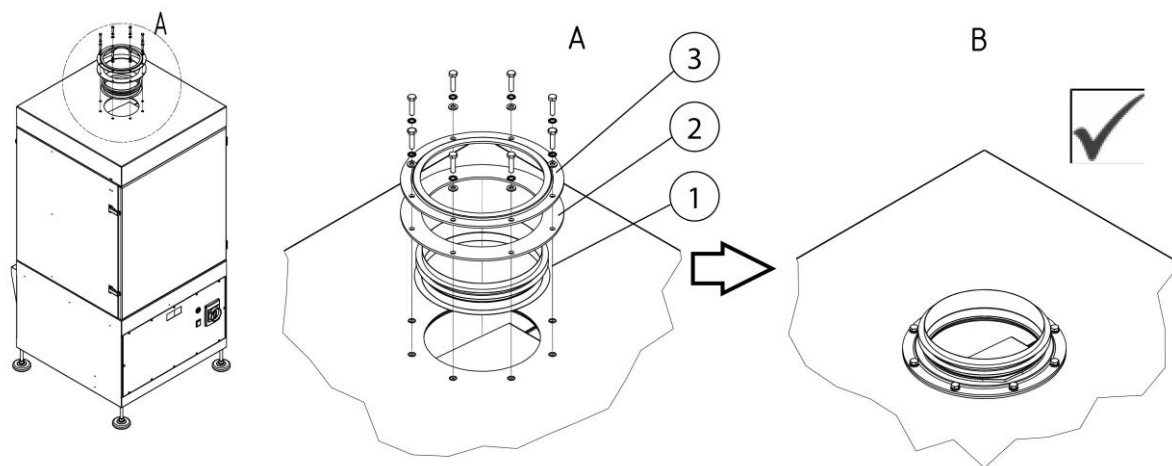


Fig. 3: Mounting the connecting piece

Pos.	Description	Pos.	Description
1	Connecting piece DN 160	3	Flange ring
2	Flange seal		

Tab. 4: Assembly of add-on products

4. As shown in the illustration, screw the duct connection (Pos. 1) with the flange seal and the flange ring to the product.

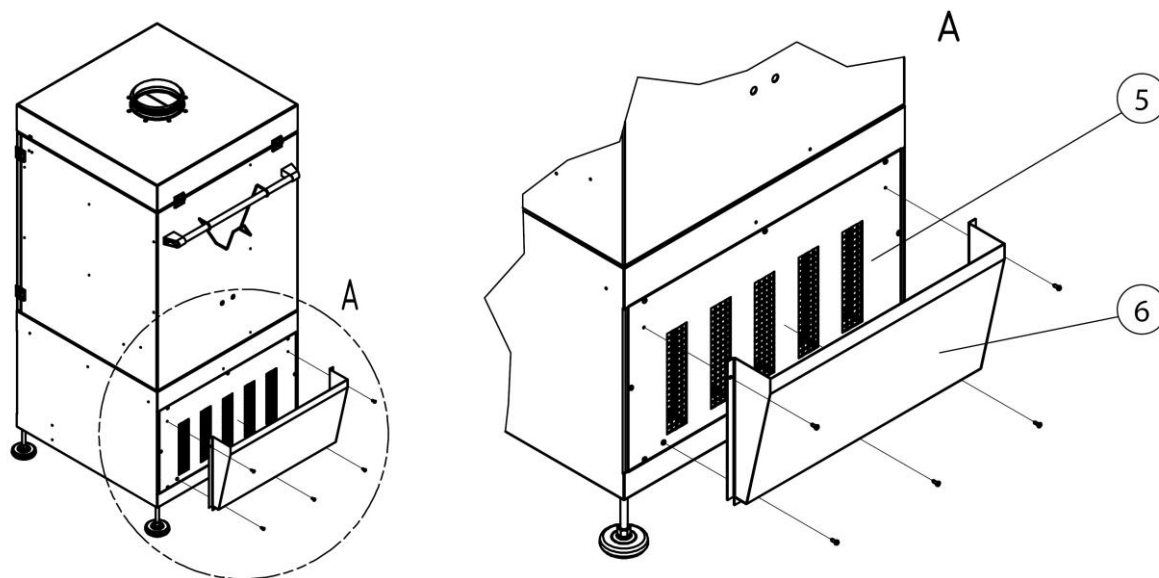


Fig. 4: Assembly of the vent housing

Pos.	Description	Pos.	Description
5	Air outlet grille	6	Vent housing

Tab. 5: Assembly of the vent housing

5. Mount the vent housing (Pos. 6) on the air outlet grille (Pos. 5) as shown in the illustration.

Checking the direction of rotation of the fan

The phase sequence/direction of rotation of the fan must be checked before commissioning.

6. Connect the product to the mains.

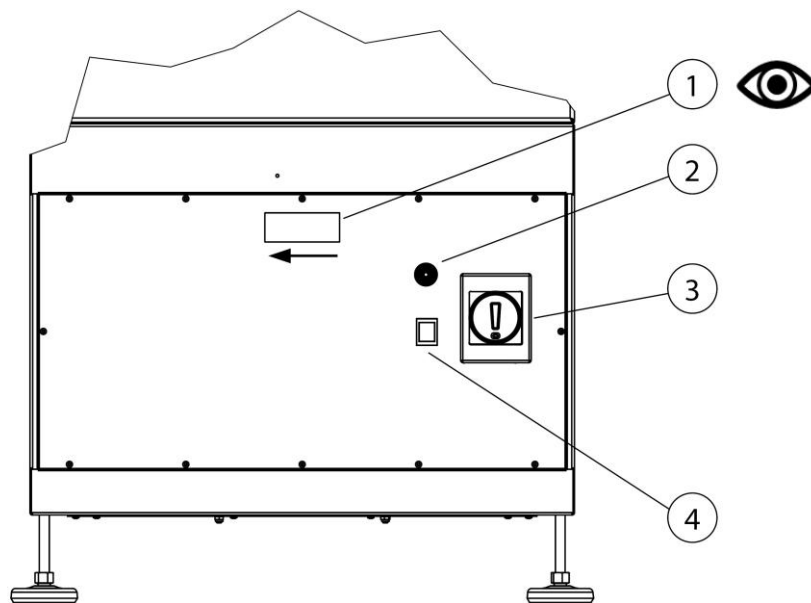


Fig. 5: Checking the direction of rotation of the fan

Pos.	Description		Description
1	Sight glass with direction of rotation arrow	3	On/Off switch
2	Signal horn	4	Signal light

Tab. 6: Checking the direction of rotation of the fan

- Briefly switch on the product using the on/off switch (Pos. 3) and immediately switch it off again. Observe the trailing impeller through the sight glass (Pos. 1). The impeller must rotate in the direction of the arrow.

If the direction of rotation is incorrect, two phases must be swapped in the CEE plug by a qualified electrician.

6 Use

Every person who deals with use, maintenance and repair of the product must have thoroughly read these operating instructions as well as the instructions for any attachment and accessory products and have understood them.

6.1 Qualification of the operating personnel

The operating company of the product may only commission persons to use the product independently if they are well-versed in this task.

Those familiar with this task includes those who have been instructed appropriately in the task and know the operating instructions as well as the operational issues in question.

The product should only be used by trained or instructed personnel. This is the only way to ensure safety and hazard awareness of all personnel during work.

6.2 Operating elements

The operating controls are located on the front of the product.

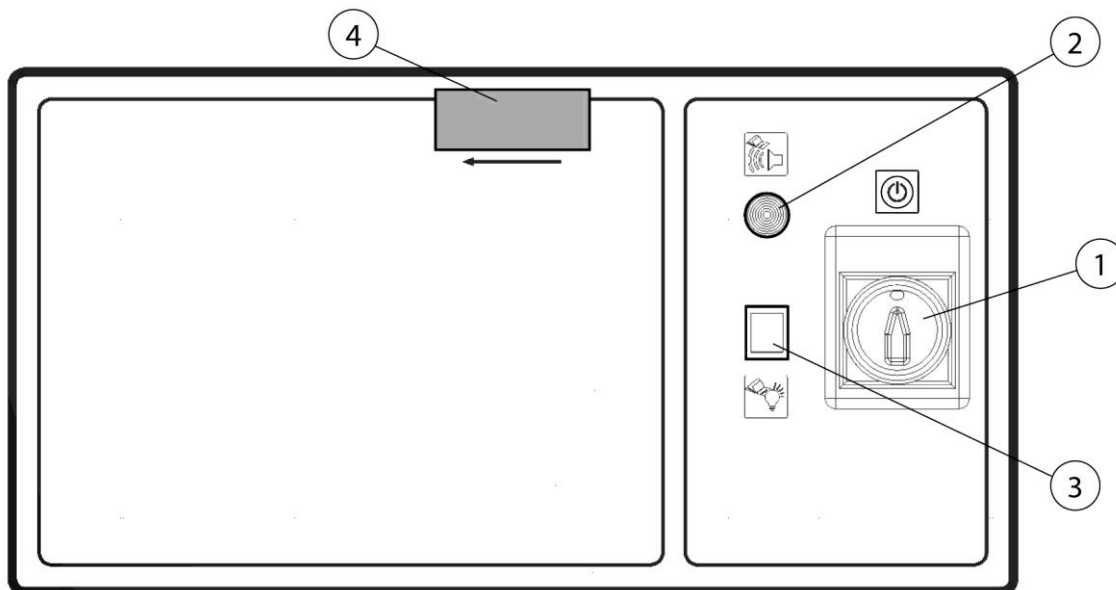


Fig. 6: Operating elements

Pos.	Description	Note
1	On/Off switch	Switches the product on or off
2	Signal horn	Indicates a fault (see chapter Troubleshooting).
3	Signal light	Signals the operation of the product.
4	Sight glass	Visual check of the direction of rotation of the fan impeller.

Tab. 7: Operating elements

6.3 Commissioning

⚠ WARNING

Danger due to faulty product condition.

The product must be fully installed before commissioning begins. All doors must be closed and the necessary connections must have been made.

1. Connect the power cable to the on-site mains connection.
2. Connect the power cable to the on-site air compressed air network.
3. Switch the product on using the pushbutton marked "0" and "I".
4. The fan starts and the green indicator lamp on the device switch signals error-free operation of the product.

If there is a fault, please refer to the "Troubleshooting" chapter.

7 Maintenance

The instructions in this chapter are intended as minimum requirements. Depending on the operating conditions, further instructions may be required to keep the product in optimal condition.

The maintenance and repair work described in this chapter must only be performed by specially trained repair personnel of the operating company.

Spare parts used must comply with the manufacturer's specified technical requirements.

This is guaranteed if original spare parts are used.

The safe and environmentally friendly disposal of operating materials and replacement parts must be ensured.

The safety instructions in these operating instructions must be observed during maintenance work.

7.1 Care

The care of the product is essentially limited to cleaning all surfaces of the product and – if present – checking the filter inserts.

The warning notices listed in the chapter "Safety notes for maintenance and fault removal" must be observed.

NOTE

The product may not be cleaned with compressed air. This may result in dust and/or dirt particles getting into the ambient air.

Proper care helps to maintain the product in a continuous functional state.

For optimum care and cleaning of the powder-coated surfaces, the following must be observed:

- Thoroughly clean the product monthly or as needed.
- Clean the exterior areas of the product with a suitable industrial vacuum cleaner of dust classification H or with damp soft cloths/industrial cotton wool.
- For stubborn dirt, use commercially available household cleaners. Avoid vigorous rubbing.
- Do not use any abrasive agents that scratch.
- Do not use any acidic or strongly alkaline cleaning agents.
- Do not use organic solvents containing esters, ketones, alcohols, hydrocarbons or similar.

7.2 Maintenance

Regular inspection and servicing have a positive effect on the reliable functioning of the product and should be carried out at least once a year.

Except for the necessary filter replacements, the product operates maintenance-free.

Observe the warning notices for servicing and troubleshooting in the "Safety" chapter.

7.2.1 Emptying the dust collection container

The dust collection container fill level must be checked at regular intervals. The time period in which the dust collection bucket/disposal bag must be changed depends on the type and quantity of use of the separated dust particles. For this reason, we cannot state specific replacement intervals.

⚠ WARNING

Health hazards caused by welding fume particles

Inhalation of welding fume particles, especially welding fume particles from welding processes on alloyed steels, can damage your health as they are 'respirable'. Skin contact with welding fume particles can cause skin irritation in sensitive individuals.

To avoid contact with and inhalation of these dust particles, wear disposable overalls, protective goggles, gloves and a suitable Class FFP2 respiratory protection filter mask in accordance with EN 149.

When emptying the dust collection container, please proceed as follows:

1. Switch off the product using the I/O switch.
2. Wait 2 minutes for the dust particles to settle inside the filter section.

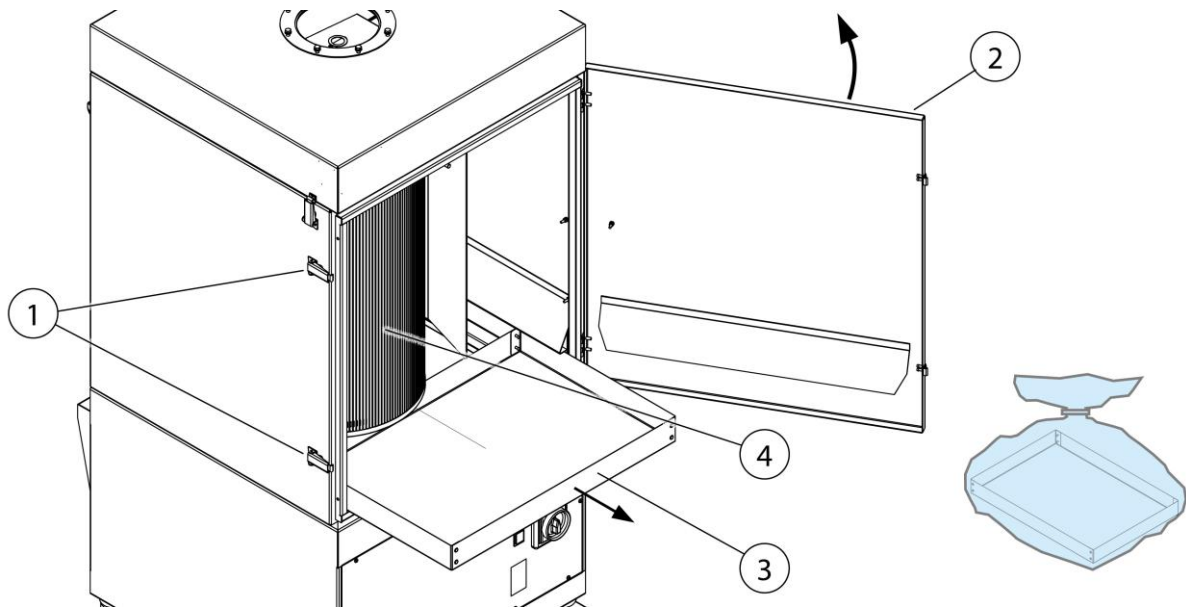


Fig. 7: Emptying the dust collection container

Pos.	Description	Pos.	Description
1	Clamp fasteners	3	Dust collection container
2	Maintenance door	4	Filter cartridge

Tab. 8: Emptying the dust collection container

3. Provide a new dust collection container (Pos. 3) and a disposal bag.
4. Open the two clamp fasteners (Pos. 1) and open the maintenance door (Pos. 2).
5. Carefully pull the dust collection container (Pos. 3) out of the product without whirling up any dust particles.
6. Carefully pull the dust collection container (Pos. 3) out into a disposal bag.
7. Seal the disposal bag airtight using a cable tie and dispose of it according to the applicable regulations.

⚠ WARNING

This container must be disposed of properly. Never empty and reuse the container.

8. Insert the new dust collection container (Pos. 3) into the product.
9. Close the maintenance door (Pos. 2) again, lock it with the clamp fasteners (Pos. 1) and put the product back into operation.

7.2.2 Draining the condensate from the compressed air vessel

Depending on usage, but at least once a month, the condensate must be drained from the compressed air vessel.

The condensate drain valve is located on the rear of the product.

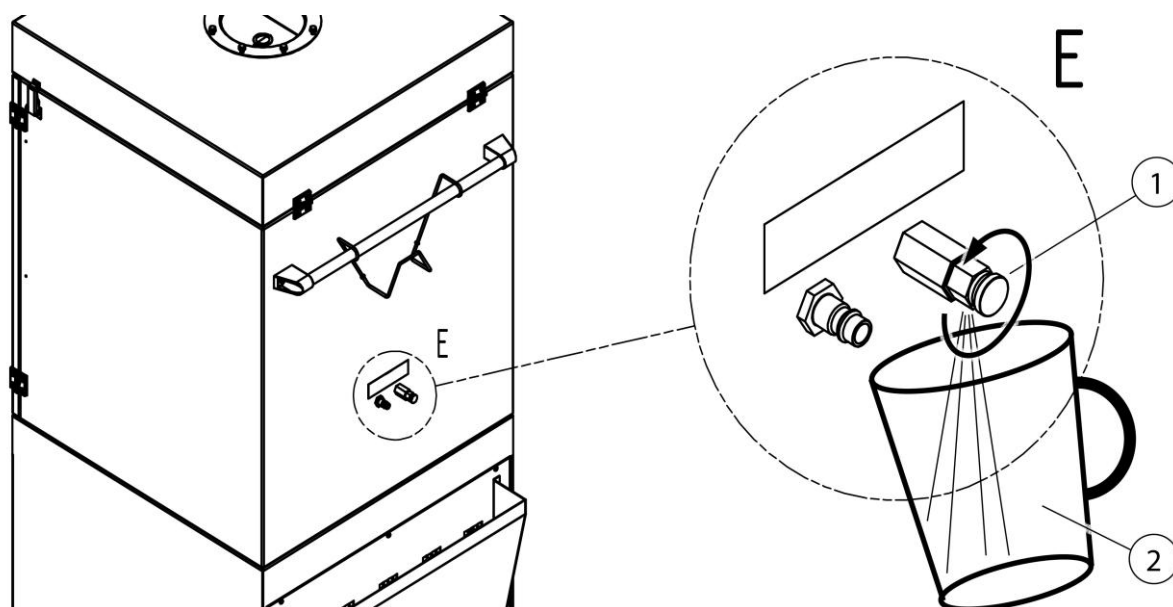


Fig. 8: Draining the condensate

Pos.	Description	Pos.	Description
1	Condensate drain valve with knurled screw	2	Condensate drain valve

Tab. 9: Draining the condensate

Drain the condensate as follows:

1. As shown in the illustration, hold a suitable container (Pos. 2) under the outlet opening of the condensate drain valve (Pos. 1).
2. Slowly open the knurled screw of the condensate drain valve (Pos. 1).
3. Only close the valve (Pos. 1) again when just air is escaping.

7.2.3 Changing the filter – Safety instructions

The life of the filter inserts depends on the type and amount of deposited particles.

As the dust accumulation in the filter increases, its flow resistance increases and the extraction capacity of the product decreases.

Even with products that may have automatic filter cleaning, adhering deposits can reduce the extraction capacity.

A filter change is required.

⚠ WARNING

Health hazards caused by welding fume particles

Do not inhale welding dust / smoke! Serious injury to the lungs and respiratory tract is possible!

Sweat smoke contains substances that can cause cancer!

Skin contact with welding fume particles can cause skin irritation in sensitive individuals.

To avoid contact with and inhalation of these dust particles, wear disposable overalls, protective goggles, gloves and a suitable Class FFP2 respiratory protection filter mask in accordance with EN 149.



⚠ WARNING

Cleaning the filter inserts is not permitted. This inevitably leads to damage to the filter element, meaning the filter ceases to function and hazardous substances enter the air.

During the work described in the following section, pay particular attention to the seal on the main filter. Only an undamaged seal allows the product to achieve a high filter efficiency. Main filters with a damaged seal must therefore be replaced every time.

NOTE



Products with W3 certification according to requirements for W3/IFA certified welding fume separation class. (See "Technical data" chapter)

The W3 approval becomes void if:

- The product is used other than as intended or is subject to constructive modifications.
 - Non-original spare parts, in accordance with the spare parts list, are used.
-
- Only original replacement filters, because they guarantee the necessary filter efficiency and are matched to the product and its performance characteristics.
 - Switch the product off using the on/off switch.
 - Secure the product against unintentional switching on. If available, pull out the mains plug or secure the main switch in the 0 position with a padlock.
 - Disconnect the pressure supply, if present, and let the compressed air present in the product flow out via the condensate drain valve.

7.2.4 Changing filters

Perform the filter change as follows:

1. Switch off the product and disconnect it from the power supply by unplugging.
2. Disconnect the product from the compressed air network and allow any stored compressed air to escape from the system.
3. Make sure the original replacement filter cartridges and the enclosed disposal bag are available.

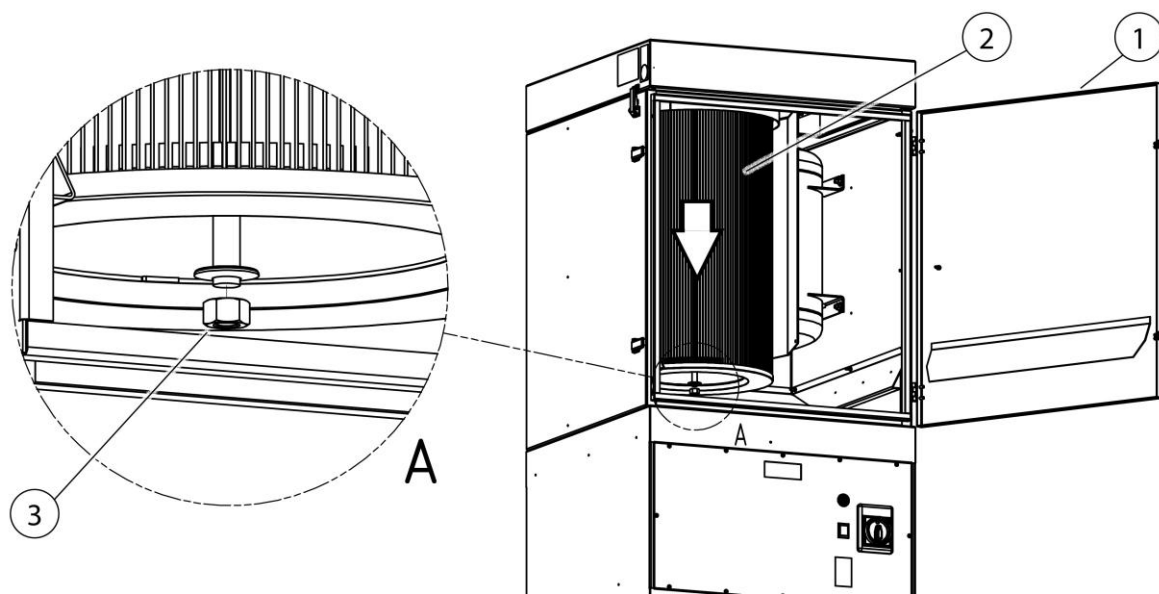


Fig. 9: Changing filters

Pos.	Description	Pos.	Description
1	Maintenance door	3	Hexagon nut with sealing ring
2	Filter cartridge		

Tab. 10: Changing filters

4. Open the maintenance door (Pos. 1).
5. Loosen the nut/washer (Pos. 3) in the lower area of the filter cartridge, but do not remove it yet.
6. Pull the disposal bag over the contaminated filter cartridge (Pos. 2).
7. Hold the filter cartridge by hand and loosen the hexagon nut + washer completely. The hexagon nut + washer (Pos. 3) remain in the disposal bag.

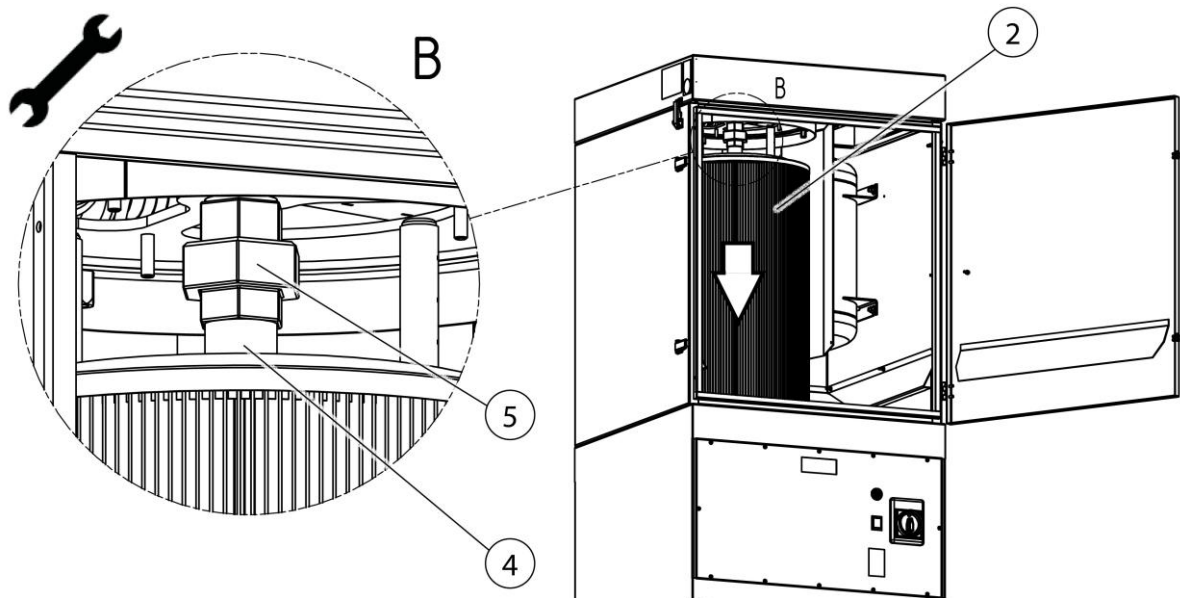


Fig. 10: Removing the filter cartridge

Pos.	Description	Pos.	Description
2	Filter cartridge	4	Bolt connection
		5	Rotating nozzle

Tab. 11: Detaching the rotating nozzle

- Allow the filter cartridge (Pos. 2) to sink, then loosen the rotating nozzle using a suitable hexagonal spanner.

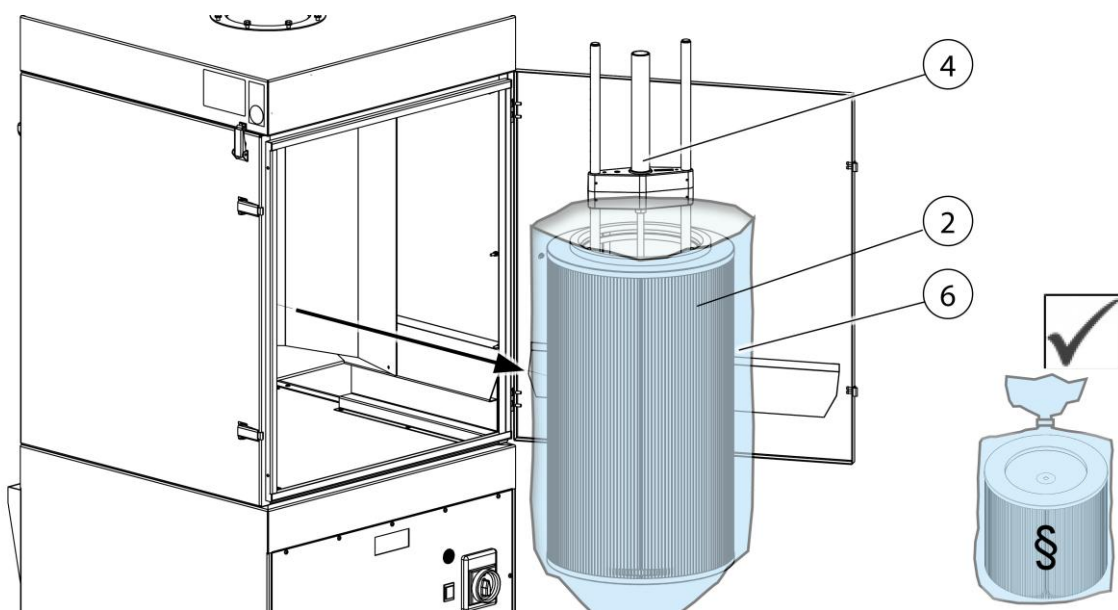


Fig. 11: Removing the filter cartridge

Pos.	Description	Pos.	Description
2	Filter cartridge	4	Rotating nozzle
		6	Disposal bag

Tab. 12: Removing the filter cartridge

9. As shown in the illustration, remove the filter cartridge (Pos. 2) including the rotating nozzle (Pos. 4) and disposal bag (Pos. 6) from the product.
10. Pull the rotating nozzle (Pos. 4) out of the filter cartridge.
11. Close the disposal bag (Pos. 6) with the contaminated filter cartridge (Pos. 2) airtight using the enclosed cable tie and dispose of it according to the regulations.
12. Insert the rotating nozzle (Pos. 4) into the new filter cartridge (Pos. 2).
13. The further installation of the filter cartridge (Pos. 2) is carried out in reverse order. When installing, make sure that the sealing surfaces of the filter cartridge are airtight.

7.2.5 Checking the compressed air container with compressed air safety valve

NOTE

The product has one or more compressed air containers with compressed air safety valve.

Products with compressed air container and safety valve must be serviced/checked according to current national regulations.

7.2.6 Checking the compressed air safety valve

The compressed air safety valve is located in the upper area of the product under the maintenance cover.

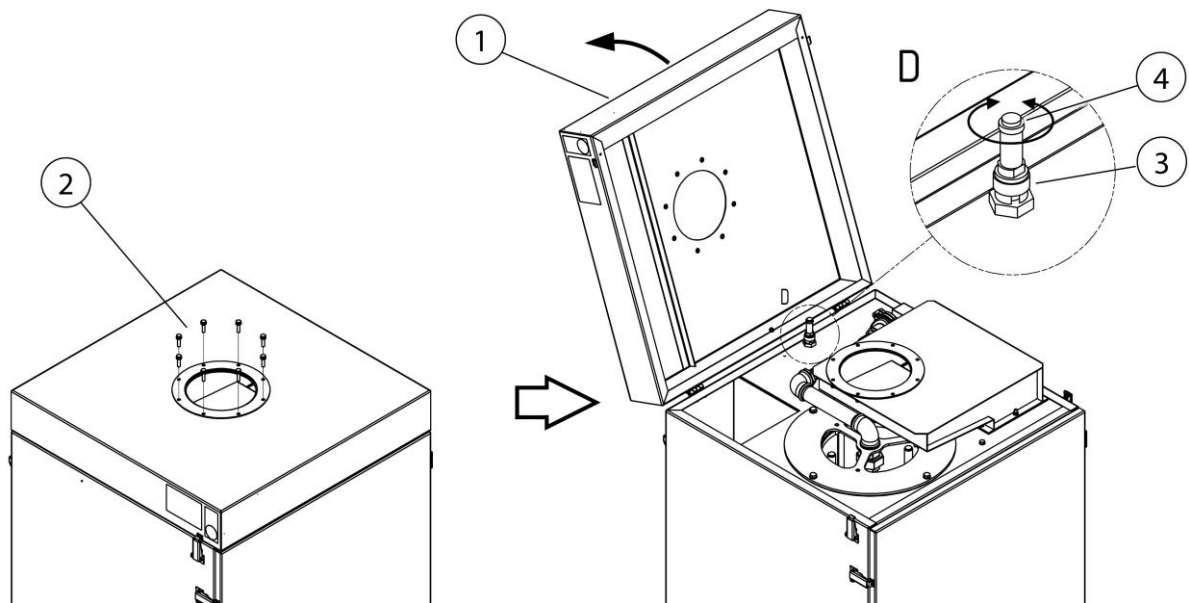


Fig. 12: Access to the compressed air safety valve

Pos.	Description	Pos.	Description
1	Maintenance cover	3	Compressed air safety valve
2	Flange screws	4	Knurled screw

Tab. 13: Positions on the product

To gain access to the safety valve (Pos. 3), please proceed as follows:

1. Remove the raw air pipe installed by the customer.
2. Remove the flange screws (Pos. 2) on the maintenance cover.
3. Open the maintenance cover (Pos. 1).
4. Loosen the knurled screw (Pos. 4) on the compressed air safety valve (Pos. 3) by turning it anti-clockwise and open it by approx. 3 – 4 turns until the exhaust air process starts. (audible discharge of compressed air)
5. Allow the compressed air safety valve to blow off briefly.
6. Screw in the knurled screw (Pos. 4) as far as it will go and hand-tighten it.
7. Close the maintenance cover (Pos. 1) and reconnect the raw air pipe to the product.
8. Put the product back into operation. See chapter “Commissioning”

7.3 Troubleshooting

Fault	Possible cause	Note
Product will not start up	Mains supply connection not available	Have it checked by a qualified electrician
Extraction capacity too low/non-existent	Filter element saturated	Change the filter element
	Rotation direction of the fan is incorrect	Have a qualified electrician swap two phases in the CEE connector plug
Dust escapes on the clean air side	Filter element damaged	Change the filter elements
Product switches off	Motor protection switch has triggered	Have the fan motor checked by a qualified electrician
Signal horn sounds	The set minimum extraction capacity has not been reached. Filter inserts saturated, piping/extraction system closed off	Filter change required, check piping/extraction system, contact service

Tab. 14: Troubleshooting

NOTE

If the fault cannot be corrected by the customer, please contact the manufacturer's service department.

7.4 Emergency measures

In case of fire of the product or its detection elements, the following steps should be taken if necessary:

1. Disconnect the product from the mains! If present; pull out mains plug; set main switch to 0-position; disconnect supply fuses.
2. If present, disconnect the compressed air supply.
3. Fight fire with a commercially available dry powder extinguisher.
4. Notify local fire brigade if necessary.

⚠ WARNING

Do not open products with maintenance door. Flash flame formation!

In the event of a fire, do not touch the product under any circumstances without proper protective gloves. Risk of burns!

8 Disposal

⚠ WARNING

Skin contact with welding fumes, etc. can cause skin irritation in susceptible individuals.

Disassembly work on the product may only be carried out by trained and authorised personnel while complying with the safety rules and the applicable accident prevention regulations.

Serious injury to the lungs and respiratory tract is possible!

In order to avoid contact with and inhalation of dust particles, use protective clothing, gloves and a blower respirator system.

The release of hazardous dust particles must be avoided during dismantling work so that persons in the vicinity are not harmed.

⚠ CAUTION

All work on and with the product must comply with the legal obligations for waste avoidance and proper recycling/disposal.

8.1 Plastics

Plastics, if present, must be sorted as far as possible. Plastics must be disposed of in compliance with the legal requirements.

8.2 Metals

Metals, if present, must be separated and disposed of.
Disposal must be carried out by an authorised company.

8.3 Filter elements

Filter elements, if present, must be disposed of in compliance with the legal requirements.

9 Annex

9.1 EU Declaration of Conformity

Designation: Welding smoke filter unit
 Series: FilterCell XL
 Type: 60200 (possibly different article numbers for other product variants)
 Machine ID: (serial number) see the name plate on the product
 This product is developed, designed and manufactured in accordance with EC directives
 2006/42/EC – Machinery Directive

The product continues to comply with the provisions of the
 2014/30/EU - EMC Directive
 2014/29/EU - Pressure Equipment Directive
 2011/65/EU - RoHS Directive

Company: At the sole responsibility of
 KEMPER GmbH
 Von-Siemens-Str. 20, D-48691 Vreden

The following harmonised standards are used:

EN ISO 12100:2010 Safety of machinery - General principles for design
 EN ISO 13857:2019 Safety of machinery - Safety distances
 EN ISO 13854:2019 Safety of machinery - Minimum gaps
 EN ISO 4414:2010 fluid power - General rules and safety requirements for systems and their components
 EN IEC 61000-6-2:2019 Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
 EN IEC 61000-6-4:2019 Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
 EN 60204-1:2018 Safety of machinery - Electrical equipment of machines
 EN ISO 13849-1:2023 Safety of machinery - Safety-related parts of control systems

A complete list of standards, directives and specifications applied is available from the manufacturer. The operating manual belonging to the product is available.

Authorised representative:

Kemper GmbH, Von-Siemens-Str. 20, 48691 Vreden, Germany

The aforementioned person is authorised to compile the technical documentation in accordance with Annex VII of Directive 2006/42/EC.

Vreden, 24.02.2026

Place, date

B. KEMPER

CEO

Identification of the signatory

9.2 UKCA Declaration of Conformity

Designation: Welding fume filter unit
 Series: FilterCell XL
 Type: **60200** (possibly different article numbers for other product variants)
 Machine ID: (Serial number) see type plate on product
 This product is developed, designed and manufactured in accordance with the UKCA directives
 Supply of Machinery (safety) Regulations 2008

The product continues to comply with the provisions of the
 Electromagnetic Compatibility Regulations 2016
 Electrical Equipment (Safety) Regulations 2016
 Pressure Equipment Regulations 2016

At the sole responsibility of
 Company: **KEMPER GmbH**
 Von-Siemens-Str. 20, D-48691 Vreden

The following designated standards and technical specifications have been applied:

BS EN ISO 12100:2010 Safety of machinery - General principles for design
 BS EN ISO 13857:2019 Safety of machinery - Safety distances
 BS EN ISO 13854:2019 Safety of machinery
 BS EN ISO 4414:2010 fluid power - General rules and safety requirements for systems and their components
 BS EN IEC 61000-6-2:2019 Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments
 BS EN IEC 61000-6-4:2019 Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments
 BS EN 60204-1:2018 Safety of machinery - Electrical equipment of machines
 BS EN ISO 13849-1:2023 Safety of machinery - Safety-related parts of control systems
 BS EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances

A complete list of standards, directives and specifications applied is available from the manufacturer. The operating manual belonging to the product is available.
 Additional information:

UK Authorised Representative:
 United Kingdom KEMPER (U.K.) Ltd.
 Venture Court, 2 Debdale Road, Wellingborough, Northamptonshire NN8 5AA
 The above-mentioned person is authorized to compile the technical documentation in Schedule 2 of the Supply of Machinery (Safety) Regulations 2008.

Vreden, 24.02.2026
 Place, date

B. Kemper

CEO
 Identification of the signatory

9.3 Technical data

Designation	Type
Filters	60200
Filter stages	1
Filter method	Cleanable filter
Cleaning method	Rotating nozzle
Filter surface m ² [ft ²]	10 [108]
Number of filter elements	1
Total filter surface m ² [ft ²]	10 [108]
Type of filter	Filter cartridge
Filter material	ePTFE membrane
Filter efficiency [≥ %]	99.9
Welding fumes class	--
IFA test standard	--
Filter class/dust classification	M
Basic data	
Maximum fan capacity m ³ /h [CFM]	3000 [1766]
Extraction capacity m ³ /h [CFM]	1000 [589]
Vacuum Pa [inch WC]	2900 [12]
Motor power kW [hp]	1.5 [2.01]
Power supply/rated current/protection type/ISO class	See name plate
Permissible ambient temperature (operation) °C [F°]	+5 to +40 [+41 to +104]
Noise level dB(A)	69
Compressed air supply bar [PSI]	5 – 6 [72 – 87]
Compressed air consumption NI/min [CFM]	230 [8.12]
Compressed air class	2:4:2 ISO 8573-1
Dimensions of the basic product WxHxD	See dimensions sheet
Basic product weight kg [lbs]	155 [342]
Additional information	
Fan type	Radial fan

Table 15: Technical data

9.4 Dimensions sheet

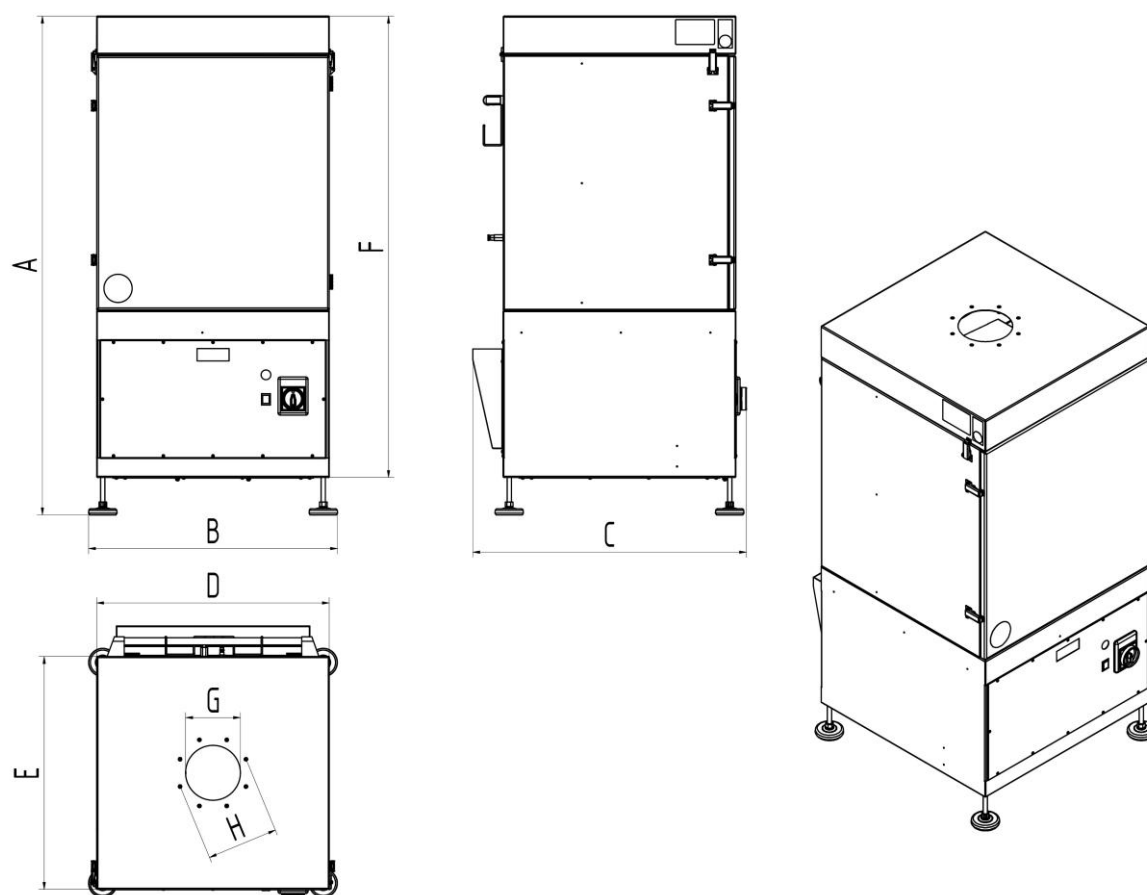


Fig. 13: Dimensions sheet

Symbol	Dimensions mm [in]	Symbol	Dimensions mm [in]
A	1403 [55.2]	E	655 [25.8]
B	701 [27.6]	F	1298 [51.1]
C	770 [30.3]	G	154 [6.1]
D	655 [25.8]	H	201 [7.91]

Tab. 16: Dimensions sheet

9.5 Spare parts and accessories

Consec. No.	Description	Part no.
1	Main filter – ePTFE membrane	1090438
2	Disposal containers + disposable gloves, cable ties + waste disposal bags	1490185

Table 17: Spare parts

Deutschland (HQ)**KEMPER GmbH**

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