



CMF 300

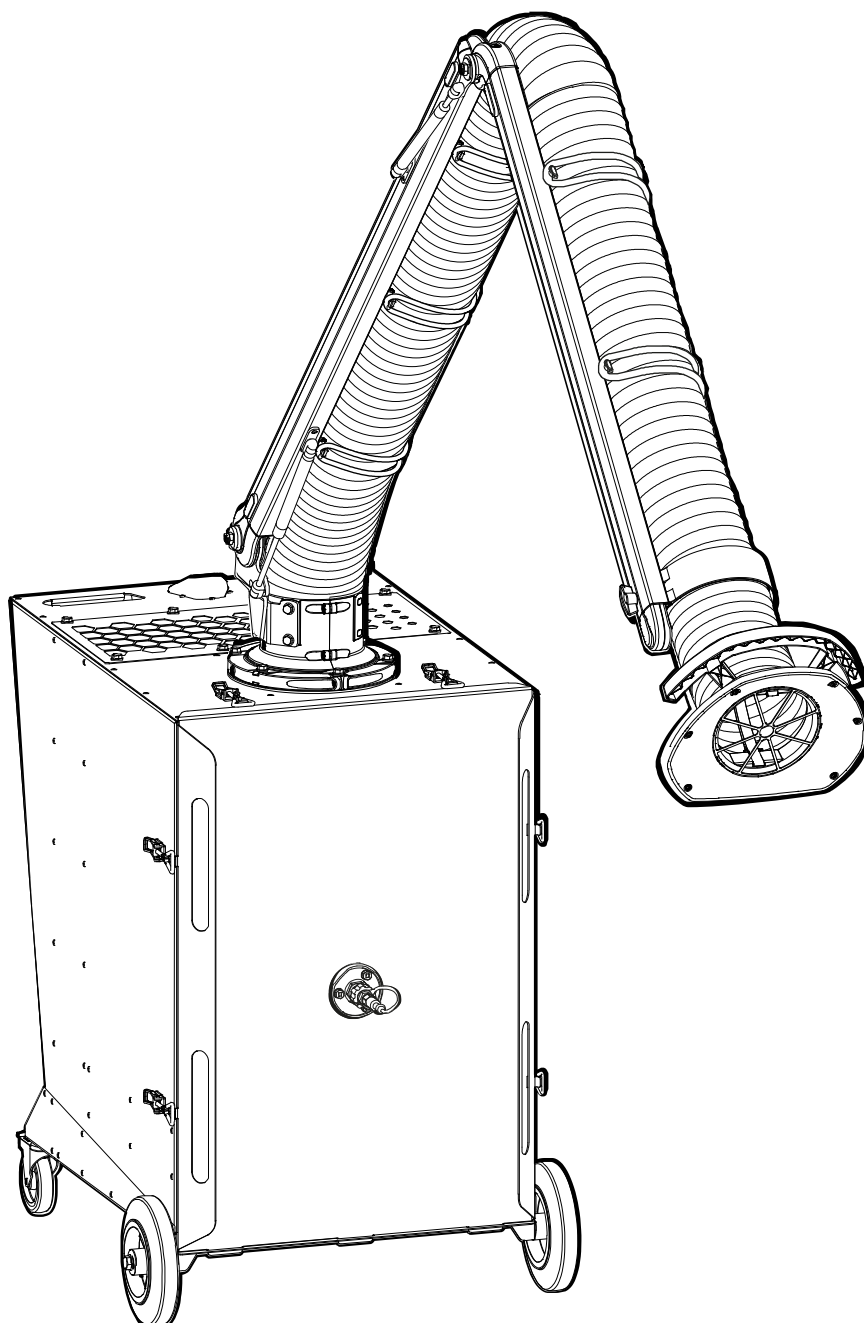


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Foreword

FUMEX operates in the environmental technology sector and specialises in extraction arms, fans, and filters for all work environments. The company strives to create work environments free from airborne contaminants.

Our products are manufactured using modern methods and undergo extensive quality inspections. The products comply with applicable safety and environmental requirements.

If you have any questions about FUMEX or our products, please contact your dealer or the FUMEX sales department.

1 Introduction

1.1 The manual

To ensure your knowledge of the product, you must read this manual before use.

The information in this manual is intended to facilitate the installation, operation, maintenance, troubleshooting, and repair of the product. The manual also provides the user with a technical understanding and basic safety instructions to minimise risks when working with the product, as well as to increase the product's service life.

The manual should be considered a part of the product and should always be accessible and in close proximity to the product.

The following symbols are referred to in the manual:



Safety instructions (applicable to people or machinery) that must always be adhered to. Risk of death or risk of personal injury or damage to property.



Recommendations which convey important information for an optimally functioning product.

1.2 Declaration

CE The product is CE certified and complies with all applicable regulations, directives and standards.

For a full EC Declaration, please contact FUMEX.

1.3 Warranty

To preserve the validity of the warranty, it is forbidden to modify or re-engineer the product during the warranty period without first obtaining prior approval from FUMEX. This is also applicable to any spare parts used which do not correspond to the manufacturer's specifications.

Damage caused by improper use of the product will result in:

- the warranty being voided
- the EC Declaration and CE certification being voided.

The warranty period is one year from the date of purchase and covers the product and its constituent parts. All manufacturing defects are covered by the warranty. FUMEX replaces defective parts in accordance with NL 17.

FUMEX is not liable for any consequential or incidental damage, or any loss of income as a result of or in connection with the warranty case.

The onus is on the buyer to select the appropriate product for the intended use. Any modifications to the FUMEX product or its intended use will void the warranty.

1.4 Manufacturer

FUMEX AB
Tel. no.: +46 910-361 80
Email: info@fumex.se

G:a Burträskvägen 48
SE-931 92 Skellefteå
Sweden

2 Safety

2.1 General

The product is safe to use. It is designed in such a way that hazardous parts are only located in inaccessible areas. Even so, if the product is not used correctly or as intended, it may be hazardous to the user or cause damage to the product. The user should therefore be informed and trained to handle the product's safety features.

2.2 Warning levels (on product)

Safety signs on FUMEX products make use of colour codes and signal words in accordance with ISO 3864-2.



Red (DANGER) – used to indicate an imminently dangerous situation which, if not avoided, will result in death or serious personal injury.



Orange (WARNING) - used to indicate a potentially dangerous situation which, if not avoided, may result in death or serious personal injury.



Yellow (CAUTION) - used to indicate a potentially dangerous situation which, if not avoided, may result in moderate or minor personal injury.

2.3 Safety signs

Refer to **3.2 Labels and safety signs**.

2.4 Protective equipment

No special protective equipment is required to use the product. However, personal protective equipment such as safety glasses, respiratory protection, and safety gloves must be worn when replacing filter cartridges and emptying the dust collector.

2.5 General warnings & information



The product must not be modified.

The product must not be operated without safety devices.

During maintenance, repair, adjustment work or decommissioning, the machine must be switched off, not pressurized and the wheels must be locked.

The machine may only be used in perfect technical condition and according to its intended use as described in Section **3.3 Areas of Use**. Faults that may jeopardise safety must be rectified immediately.

Work on the machine's electrical equipment may only be carried out by a licenced electrician in accordance with applicable local electrical safety regulations.

There is always risk associated with the machine's moving parts (e.g. cutting, clamping or gripping points).

In the event of fire, hatches or service doors must not be opened.

Under no circumstances may water be used to extinguish/cool in the event of fire or heat build-up. A powder extinguisher or other suitable extinguisher must be used instead.

The machine must not be used in a potentially explosive atmosphere or to extract dust and gases in explosive concentrations.

Air containing sparks must not be extracted into the extraction arm. If welding is performed which generates a large amount of sparks, a spark arrestor must be used (refer to Chapter **11 Accessories & Spare Parts**).

All work on the machine must be carried out by certified and authorised personnel.

The machine must not be used in confined areas without exhaust ventilation.

For maintenance work where contact with dust occurs, personal protective equipment such as safety glasses, respiratory protection, and safety gloves must be worn.



The surface on which the machine is used should be flat and smooth.

The machine should only be used by personnel with good knowledge of the machine and its operation.

Waste disposal must be carried out in accordance with the relevant national regulations.

3 Product Description

3.1 Serial number & product name

Refer to the product nameplate.

3.2 Labels and safety signs



Safety signs that are missing or illegible must be replaced before the machine is used.

According to **Fig. 1**.

1. Nameplate
2. Fumex logotype
3. Safety sign
"Unplug and see manual before opening hatch"
4. Fumex logotype

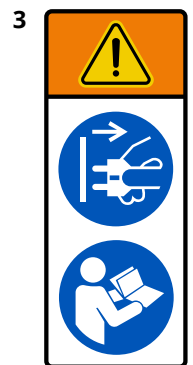
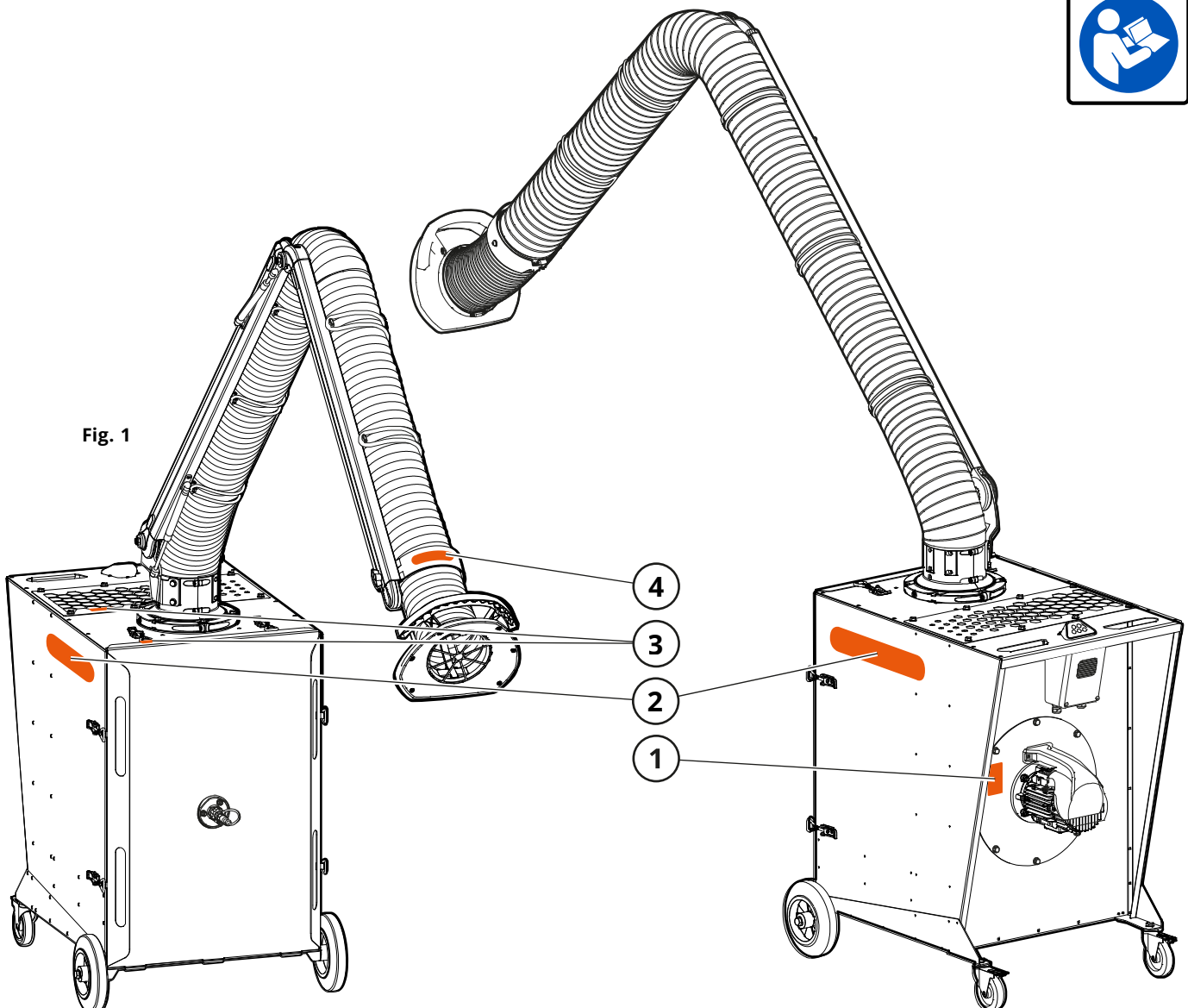


Fig. 1



3.3 Areas of Use

The CMF filter unit is designed for the extraction and filtration of welding fumes indoors, in accordance with EN ISO 21904-1:2020.

3.4 Design

See Fig. 2.

- | | | | |
|-------------------|-------------------------------|----------------------------|----------------------------|
| 1. Extraction arm | 7. Hood | 13. Blow nozzle | 19. Clean side |
| 2. Filter unit | 8. Filter hatch | 14. Dust collector | 20. Audiable alarm |
| 3. Damper | 9. Distribution plate | 15. Wheel | 21. Impeller |
| 4. Swivel | 10. Dirty side | 16. Control panel | 22. Fan motor |
| 5. Exhaust grille | 11. Filter cartridge | 17. Handle | 23. Cooling shroud |
| 6. Exhaust filter | 12. Compressed air connection | 18. Control & junction box | 24. Lockable caster wheels |

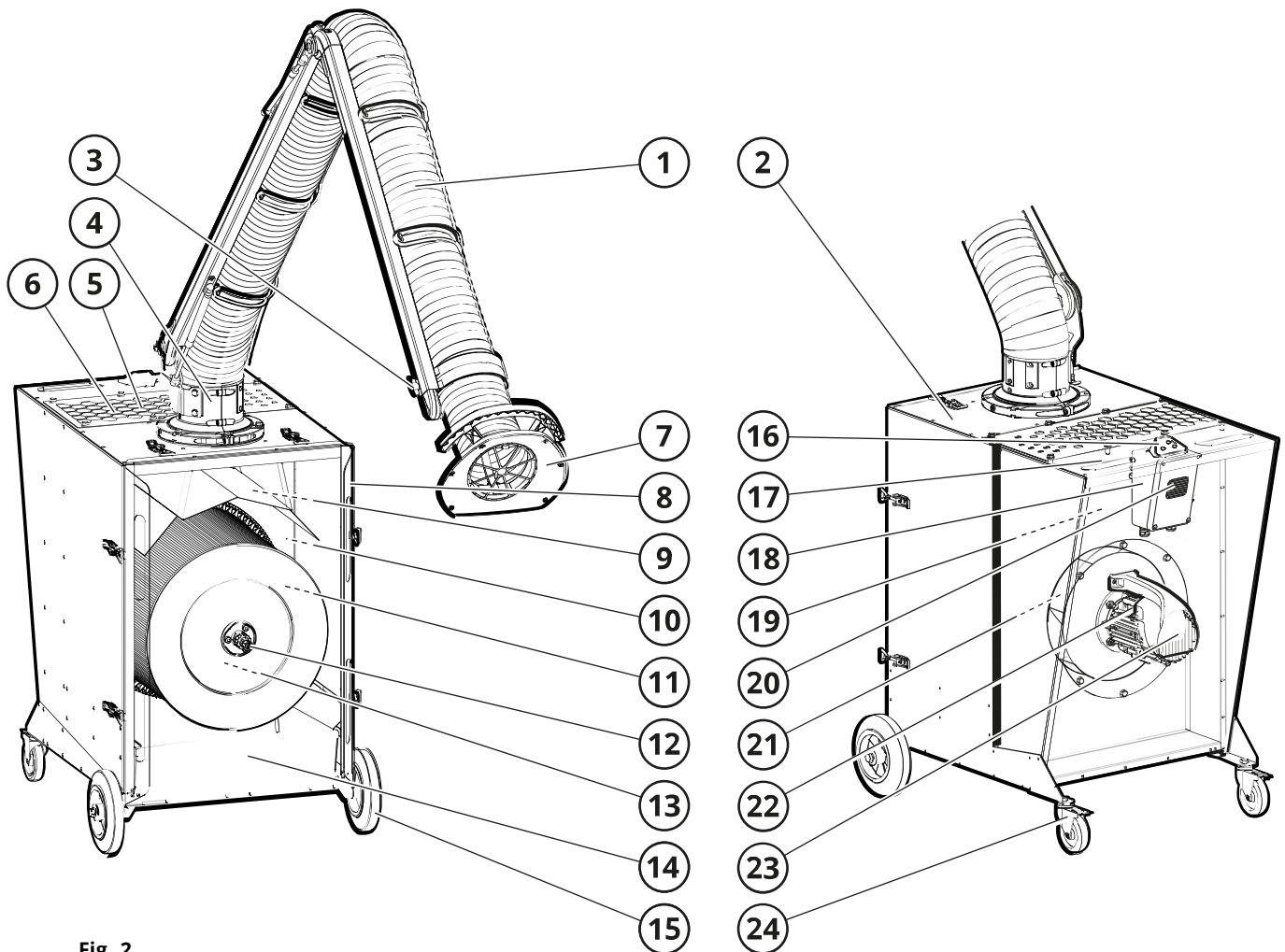


Fig. 2

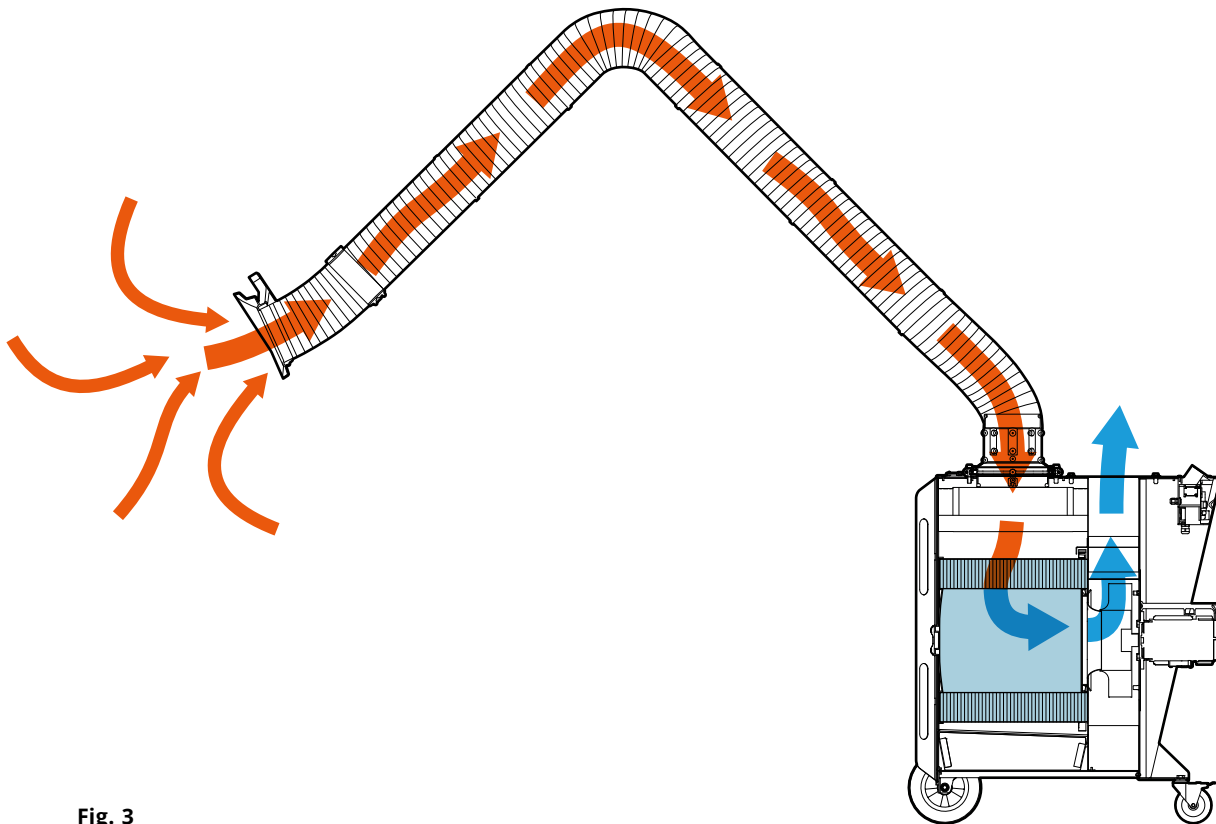


Fig. 3

3.5 Function

The CMF 300 is a mobile filter unit with a built-in fan and top-mounted extraction arm for purging dust-filled and contaminated air in ventilated workshop environments.

Contaminated air is drawn in via the extraction arm (1, **Fig. 2**) to the dirty side of the machine (10), where the air is cleaned through the filter cartridge (11). The degree of filtering is $\geq 99\%$ for smoke and dust contamination from the welding of high-alloy steels, such as steel with a nickel and chromium content of 30% or higher. The clean air is then drawn through the impeller (21) and discharged from the clean side of the filter unit (19) through the exhaust grille (5).

When the filter cartridge needs to be cleaned, connect the air nozzle (13) to a regulated compressed air supply via the compressed air connection (12) and rotate it slowly until it is thoroughly cleaned. The dust from the filter cartridge then ends up in the dust collector (14).

On the control side is a control panel (16) with start/stop button, motor power control and indicator lights (see section **6.3 Control Panel**). Next to the control panel is handles (17) for moving the unit.

The extraction arm is mounted on a 360° swivel (4) and has external supporting arms. The upper joints are equipped with gas springs that balance the arm's own weight and resistance is regulated in each joint. The hood (7) is designed for maximum suction efficiency and is ideal for capturing welding fumes. A damper (3) at the hood attachment regulates the airflow.

The filter unit is equipped with lockable caster wheels (24).

Accessories include a spark trap, silencer, and work lighting. See chapter **11 Accessories & Spare Parts**.

4 Preparation for use

4.1 Transport & storage



Protect the machine and its parts from rain, snow, aggressive atmospheres and other harmful effects.

4.2 Electrical equipment



Faults in the electrical system must be rectified immediately.

Check all external wires as well as the power switch, light, timer and motor for visible external damage. Repair any damage immediately.

4.3 Assembly & installation

National rules and regulations must always be adhered to during assembly work.

4.3.1 Unpacking

1. Remove the packaging and slowly roll the product off the pallet.
2. Check for any damage and missing parts. Contact a local Fumex representative directly if there is damage or parts are missing.
3. Dispose of the packaging material according to local recycling regulations.

4.3.2 Extraction arm

Mount the extraction arm on the assembly as shown in Fig. 4 to Fig. 17.

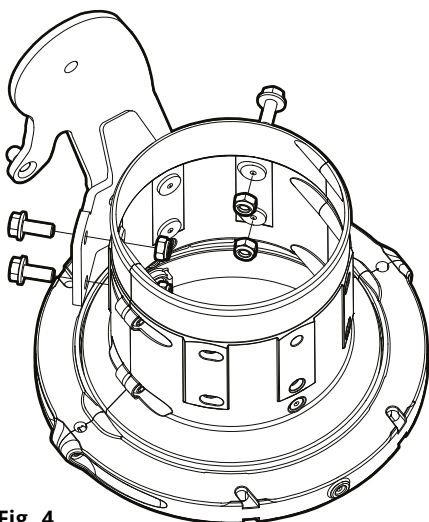


Fig. 4

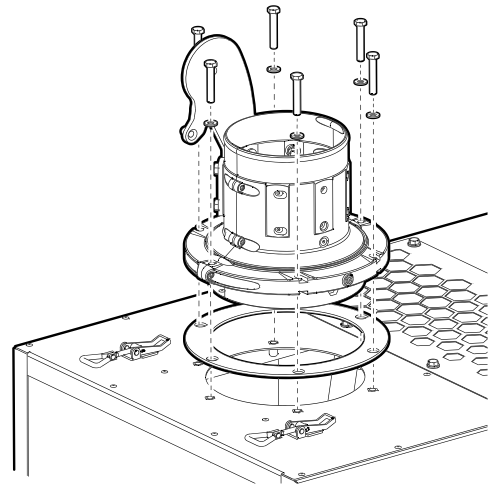


Fig. 5

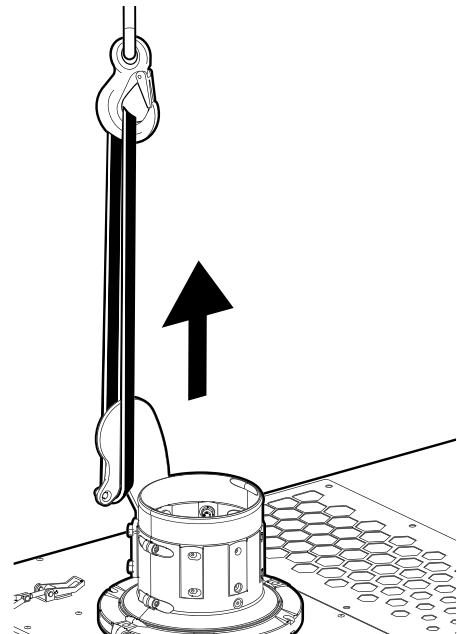


Fig. 6

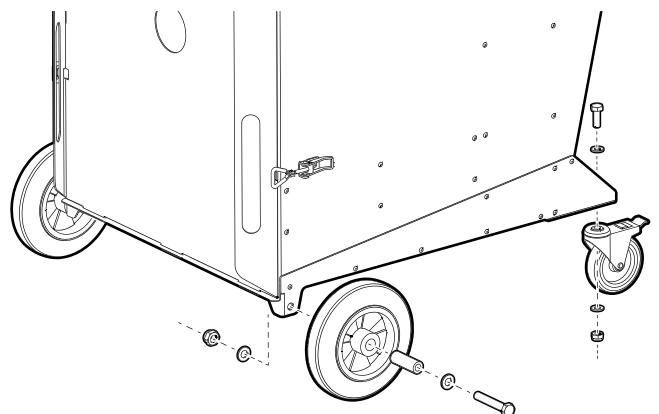


Fig. 7

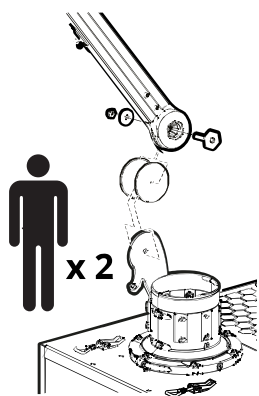


Fig. 8

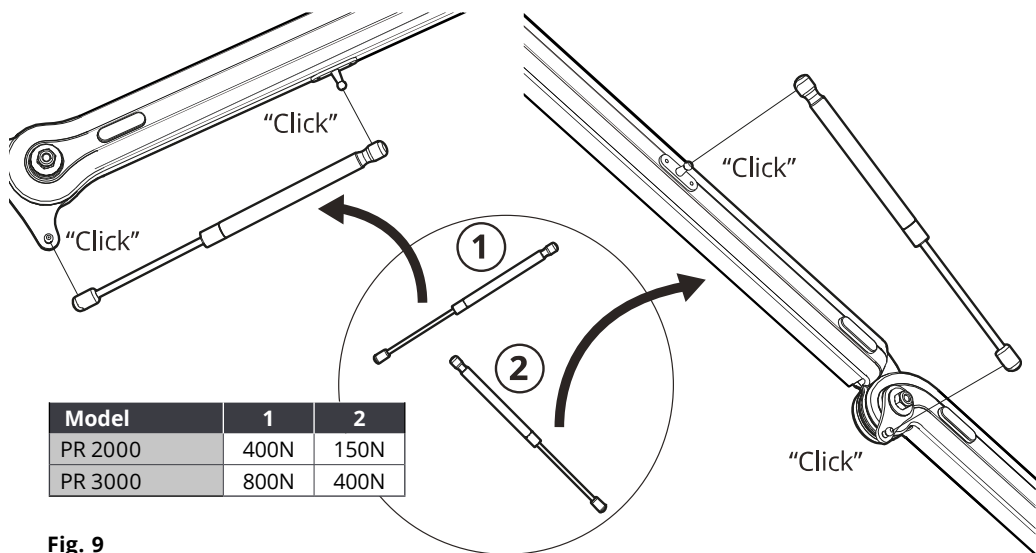


Fig. 9

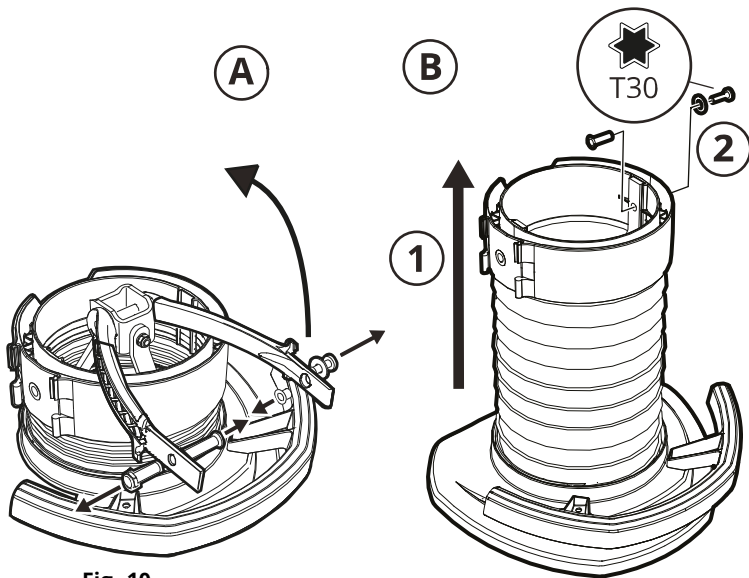


Fig. 10

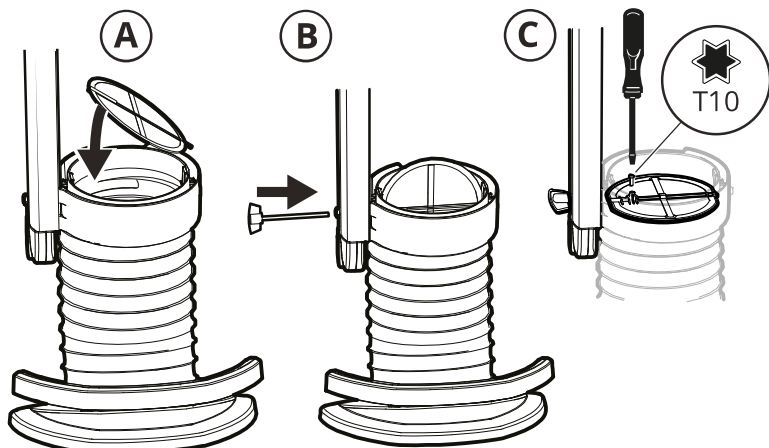
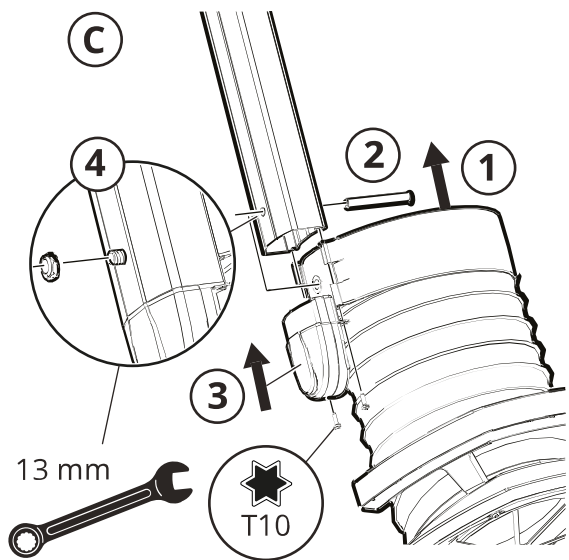


Fig. 11

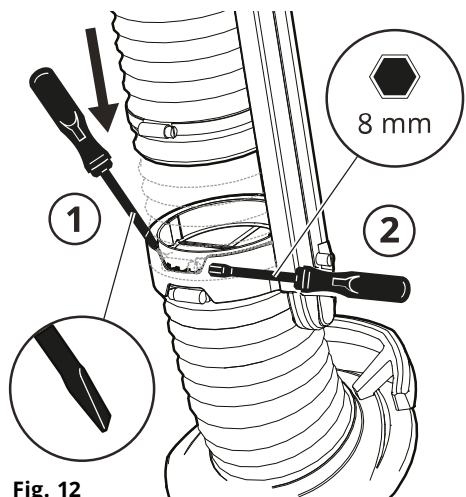


Fig. 12

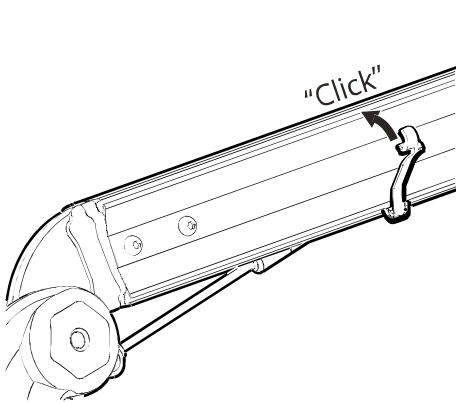
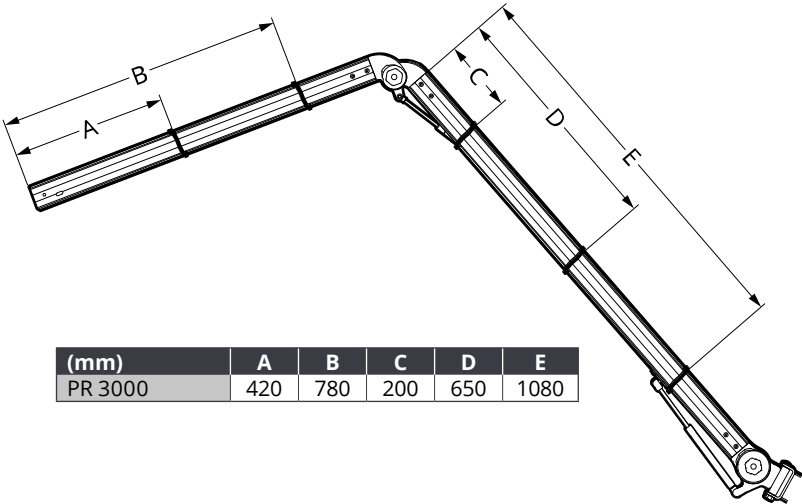


Fig. 13



(mm)	A	B	C	D	E
PR 3000	420	780	200	650	1080

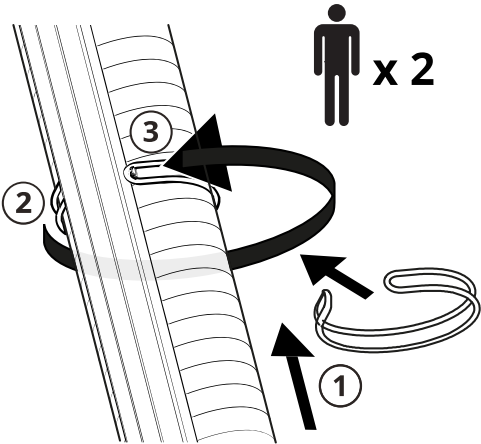


Fig. 14

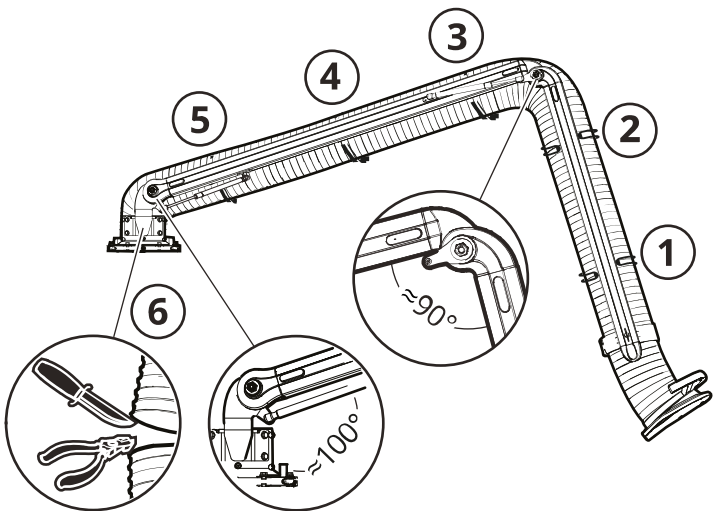


Fig. 15

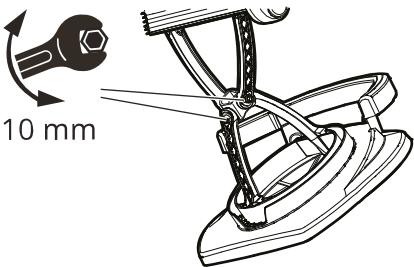


Fig. 16

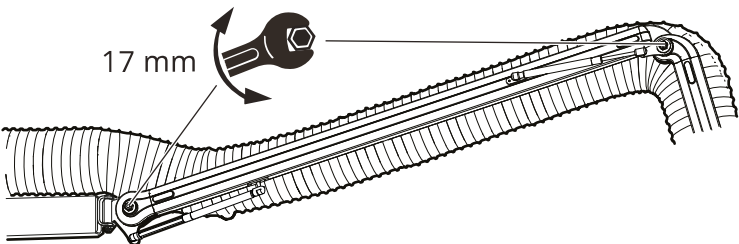


Fig. 17

5 Commissioning

5.1 Start-up



Any faults must be rectified before turning on the power.

1. Connect the plug to an earthed wall socket.
2. Start the machine.



Check the machine for unusual noises, abnormal fan noises and/or vibrations. If the machine turns off automatically, please contact FUMEX.

3. Turn off the fan.

The mobile filter unit is now ready for operation.

6 Operation



The fan motor generates heat and is equipped with cooling channels. The outlet is located at the back of the motor. Do not block the outlet.

Note that electronic equipment is always sensitive to static electricity, high humidity, high temperature, and grid disruption.

6.1 Moving the machine

Inclined surfaces

When moving the machine on steeply inclined surfaces, using the handles on the operating side will reduce the risk of the caster wheels turning the machine with the incline.

Thresholds and obstacles

Where there are thresholds or small obstacles, grasp the handles on the operator's side and carefully reverse over the obstacle.

6.2 Operating side

Se Fig. 18.

1. Control panel
2. Counter
3. Audible alarm
4. Control and junction box
5. Mains connection 230 V

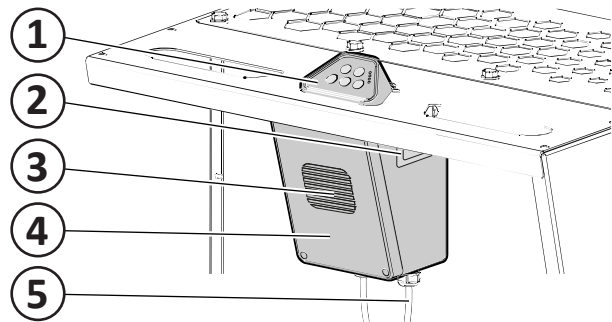


Fig. 18

On the control side (**Fig. 18**) are the control panel (1), the counter for operating time (2), the audible alarm (3) and the control and junction box (4). The control side also has handles for moving the unit and a 230-volt plug (5) with a 5-metre cable.

Control panel

The buttons on the control panel (1) turn the fan on and off and control the airflow. There are also operating indicators, warning indicators and indication of the selected airflow. See section **6.3 Control Panel**

Audible alarm

The need for filter cleaning is indicated by the audible alarm (3) and the warning indicator on the control panel. The audible alarm sounds when the airflow falls below 600 m³/h. If the alarm is ignored, the airflow may become too low.

Control and junction box

The control and junction box houses the control board and filter monitoring system, and the audible alarm is mounted on it. Any accessories are connected via the control board.

6.3 Control Panel

See **Fig. 19**.

1. Start/stop button, fan
2. Warning indicator (Filter status)
3. Operating indicator
4. Increase (+)
5. Decrease (-)
6. Flow indicator

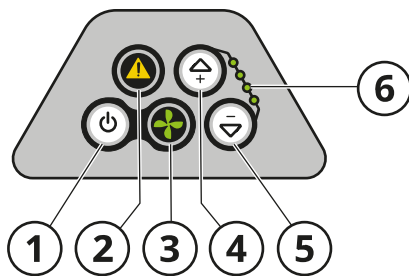


Fig. 19

The fan is started/stopped with the Start/Stop button (1, **Fig. 19**) and operation is indicated by the operating indicator (3). To adjust the airflow, use the “increase” and “decrease” buttons (4 & 5). The selected flow is indicated by a LED bar (6).

The warning indicator (2) lights up when the filter cartridge needs to be cleaned. When the warning indicator lights up, the operating indicator goes out.

6.4 Filter cleaning



If after repeated cleaning and max airflow, the audible alarm is still sounding and the warning indicator are on, it is likely that the filter medium is saturated and the filter cartridge should be replaced.

Filter cleaning is performed manually if necessary, according to the following procedure:

1. Switch off the machine.
2. Close the damper on the extraction arm.
3. Connect filtered and regulated¹ compressed air to connection (A, **Fig. 20**) on the filter unit.
4. Rotate the blow nozzle (B) until the desired effect is achieved, usually 5-10 turns.

¹ The pressure should be in the range of 4-6 bar.

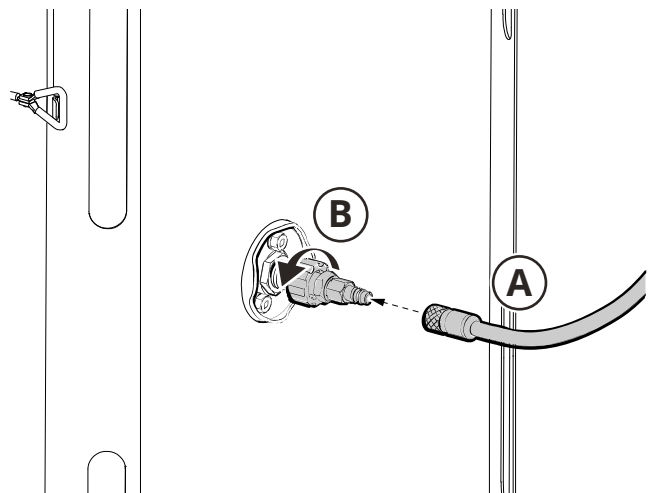


Fig. 20

5. Check the dust collector and empty if necessary, see section **8.4 Emptying the dust collector**.

7 Troubleshooting



Troubleshooting with the power switched on may only be carried out by a licenced electrician.



In the event of a power failure, the machine must be de-energized for one minute before restarting.

7.1 Troubleshooting guide

The troubleshooting guide contains information for identifying faults which are simple to rectify. Always perform the troubleshooting procedures before contacting FUMEX.

TROUBLESHOOTING GUIDE		
Symptom	Possible cause	Recommended action
1. Poor airflow.	Cleaning not performed	Perform the filter cleaning procedure (refer to Section 6.4 Filter cleaning).
	Filter cartridge full	Replace filter cartridge.
	Fan defective	Check fan suction capacity. If the fan is defective, contact Fumex.
	Hose clogged	Clean the hose interior.
	Hole in hose	Replace hose.
	Differential pressure gauge not working	Check the differential pressure gauge hoses and hose connections.
2. Material accumulates in the straining compartment.	Wet dust is building up on the walls	Dry dust is being expelled.
	Dust collector full	Check the level in the dust collector, and empty it if necessary.
3. Visible dust on the clean side of the filter unit.	Defective filter cartridge	Replace the defective filter cartridge.
	Filter cartridge incorrectly installed	Install the filter cartridge correctly.
	Incorrect filter material is being used	Contact the customer service/servicing department.
4. Leakage in filter hatch.	Filter hatch incorrectly mounted	Mount the filter cover correctly.
	Gaskets ineffective	Check gaskets and replace if necessary.
5. Dust emitted from the suction opening during and/or after purging.	Damper open	Close damper.
	Defective damper	Replace damper.
6. Ineffective cleaning.	Imprecise cleaning interval	Change time between intervals in the maintenance schedule.
	Filter cartridge full	Replace filter cartridge.
	Filter cartridge incorrectly installed	Install the filter cartridge correctly.
7. Fan has stopped.	Power supply problem	Check power supply.
	Stuck impeller	Check for any foreign objects in the fan housing. Make sure motor bearings are functioning.
8. Fan performance loss.	Debris	Check for any foreign objects in the fan housing.

8 Maintenance



Please remember that only original spare parts may be used.

Make sure that all moving parts are secured to prevent unintentional movement.

8.1 Cleaning

The product should be cleaned with clean cloths and neutral detergents to avoid damage. For interior cleaning, also use an industrial vacuum cleaner equipped with a HEPA filter.

8.2 Maintenance schedule



Depending on the changing operating conditions between the different systems, the intervals for recommended maintenance may differ. Users should therefore determine their own maintenance intervals.

The checklist for maintenance is designed for normal use of the machine. The recommended intervals are approximate and refer to the time after the first start-up.

FUMEX recommends the following maintenance schedule:

MAINTENANCE SCHEDULE				
Interval	Item	Inspection module	Maintenance instructions	Date
When necessary	1.1	Filter unit CMF	Clean exterior. See section 8.1 Cleaning .	
	1.2	Extraction arm	Adjust friction joints to the desired resistance.	
Daily	2.1	Dust collector	Check the level and empty if necessary.	
	2.2	Filter hatch	Make sure there are no leaks.	
Once a month	3.1	Filter cleaning	Check functionality by purging the filter (refer to Section 6.4 Filter cleaning).	
Every three months	4.1	Cartridge filter	Check for dust at the outlet in the clean section. Rectify if necessary.	
Every six months	5.1	Electrical equipment	Check all electrical equipment, such as the cabling, plug, power switch, lamp, timer, and motor for visible external damage. Replace if necessary.	
	5.2	Assembly	Check for leaks, damage and wear.	
	5.3	Extraction arm	Make sure there are no leaks.	
	5.4	Dust collector	Make sure there are no leaks.	
	5.5	Motor	Check functionality. Replace if necessary.	
	5.6	Impeller	Check for any damage and clear away foreign objects if necessary. Replace a damaged impeller.	

8.3 Replacing the filter cartridge

8.3.1 Removal



Before disassembly, let the machine rest for a few minutes so that the dust in the filter housing can settle.

Save the parts for fitting the new filter cartridge filter.

It is important to remove the dust collector before replacing the filter, as the filter could be damaged.

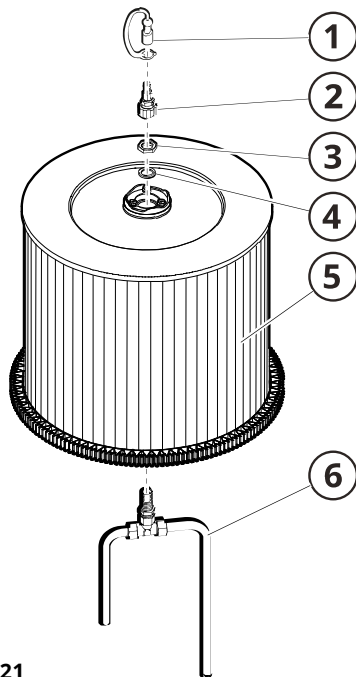


Fig. 21

1. Lock the lockable caster wheels (Fig. 22).

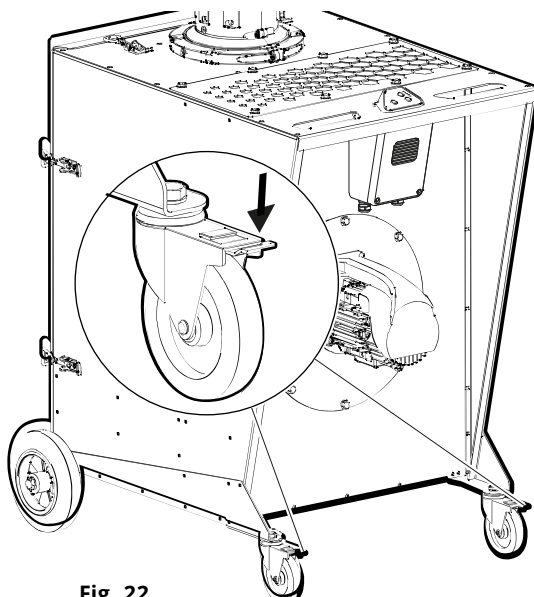


Fig. 22

2. Loosen the plug-in nipple (2, Fig. 21), nut (3) and spacer washer (4) from the air nozzle (6). See Fig. 23 and Fig. 24 for the procedure.

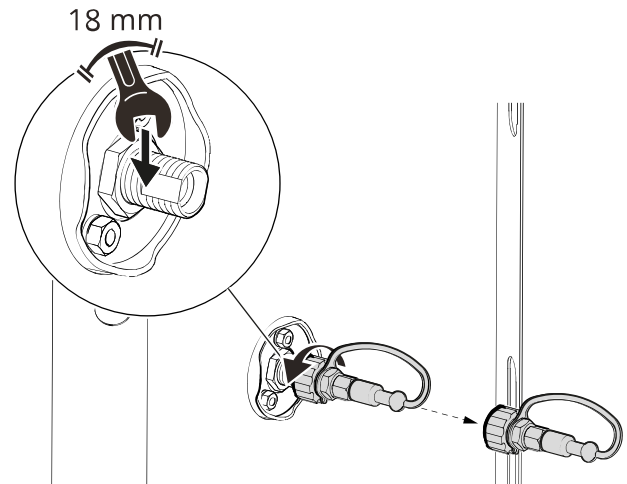


Fig. 23

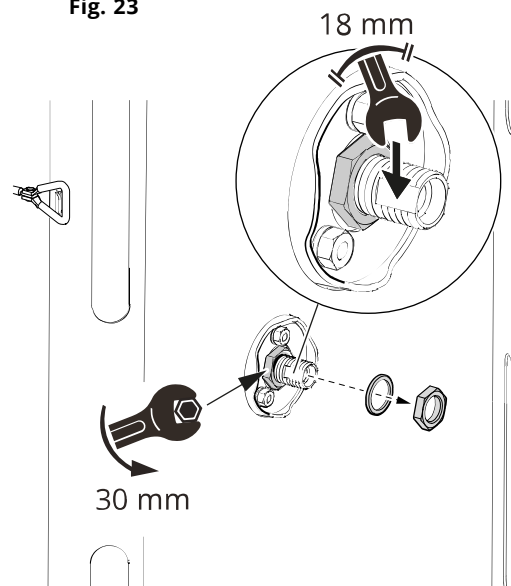


Fig. 24

3. Push the air nozzle into the filter (Fig. 25).

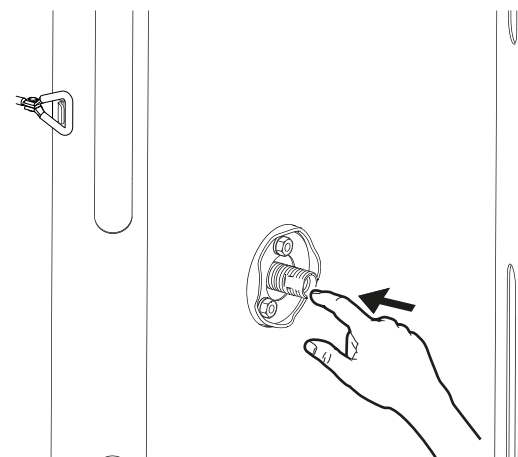


Fig. 25

4. Open the cam locks (1, **Fig. 26**) on the filter hatch. Open the hatch (2). Once the bearing seat is free, lift it upward (3) and remove the hatch.

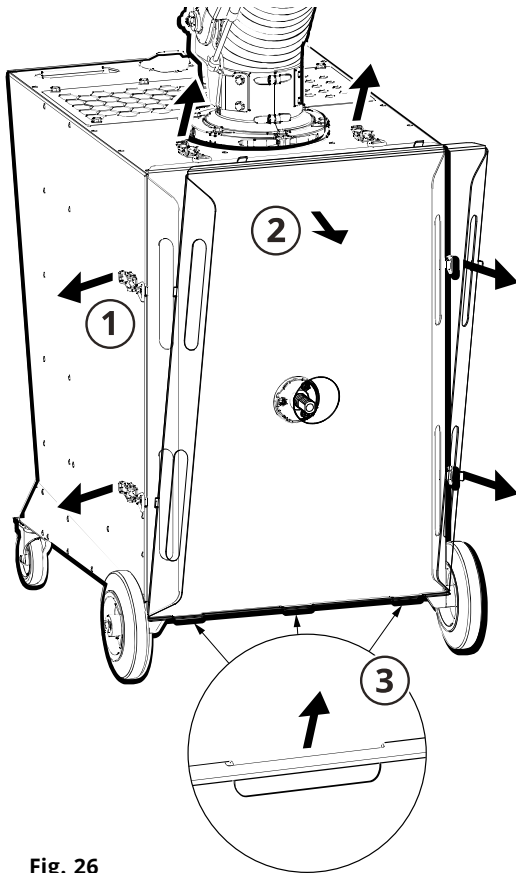


Fig. 26

5. Remove the dust collector (**Fig. 27**). Empty if needed, refer to Section 8.4 Emptying the dust collector.

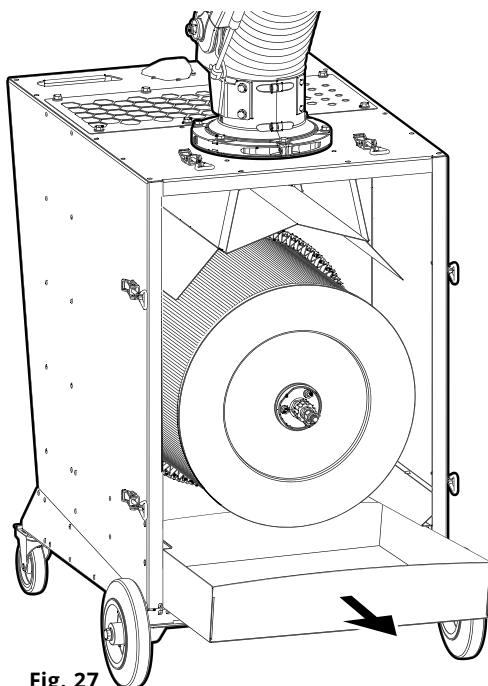


Fig. 27

6. Pull the filter bag CMF PCW3 over the filter cartridge (**Fig. 28**).

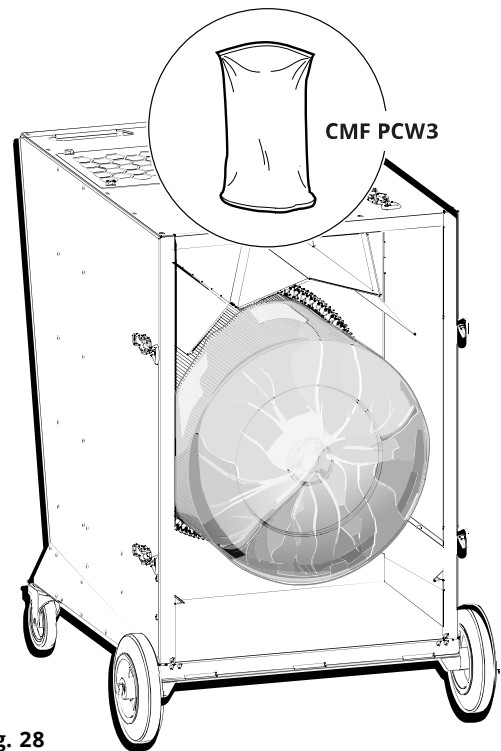


Fig. 28

7. Remove the filter with the filter bag (**Fig. 29**) and place it on the floor with the filter end facing down.

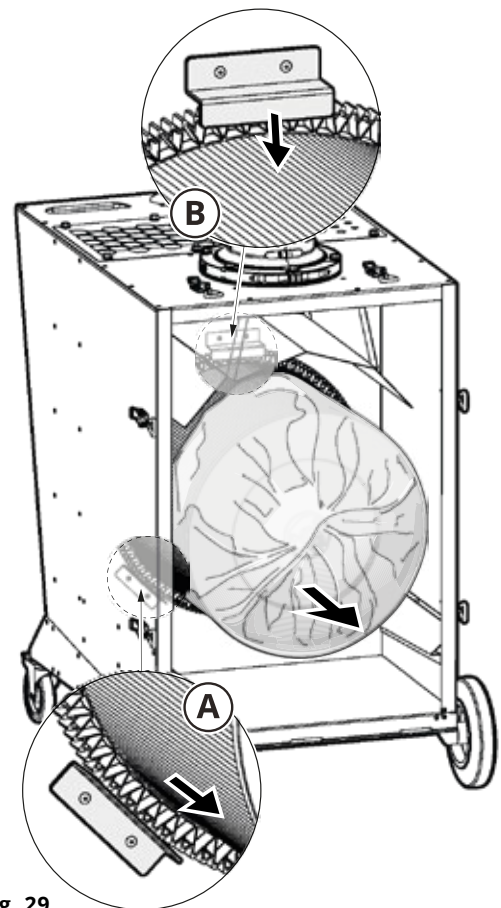


Fig. 29

8. Remove the air nozzle from the filter cartridge (**Fig. 30**) ready to reinstall it on the new filter cartridge.

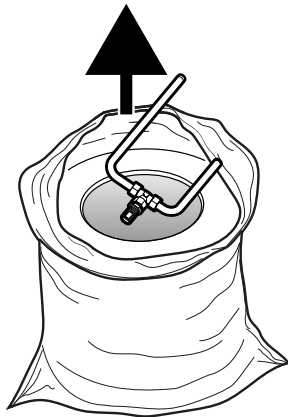


Fig. 30

9. Seal the filter bag.

10. If necessary, clean the filter housing. Refer to Section **8.1 Cleaning**



It is important to ensure that no dust enters the surrounding environment. If dust leaks out and reaches the floor during filter replacement, immediately pick up with a vacuum cleaner fitted with a HEPA filter.

The expended filter cartridge sealed in the bag must then be transported to the final storage location before contaminants and/or dust are able to spread.

8.3.2 Assembly



The filter medium must be intact. There must be no holes.



Note that the filter cartridge lacks contact protection. If handled negligently, the filter medium can be destroyed.

Filter with compressed air-cleaning function

1. Install the air nozzle (6, **Fig. 21**), spacer washer (4), nut (3) and push-in nipple (2) onto the new filter cartridge.
2. Gently insert the new filter cartridge (**Fig. 31**).
3. Slide the dust collector into the bottom of the filter housing.



Check that the filter cover gasket has not been damaged. Replace as necessary.

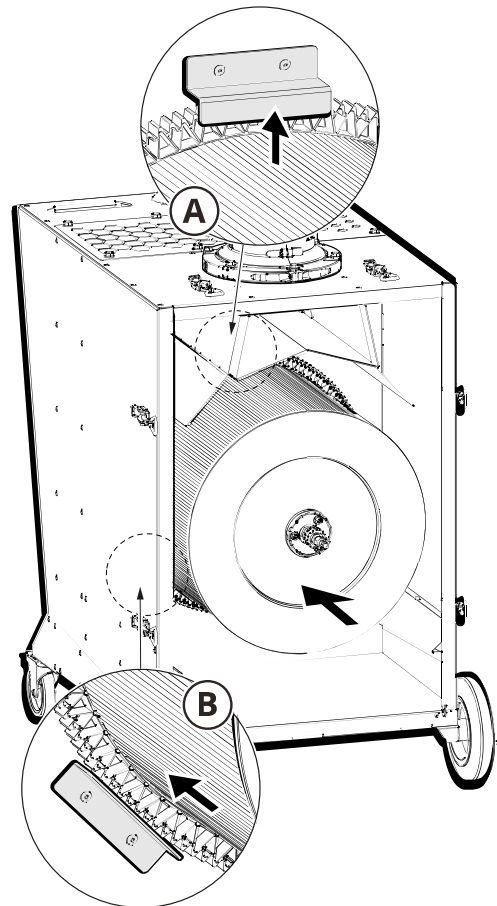


Fig. 31

4. Replace the filter hatch on the filter housing. Check that the filter cartridge is centred on the hole in the filter hatch and that there is a good seal between the hatch and filter housing.

Filter without compressed air-cleaning function

1. Gently insert the new filter cartridge (**Fig. 31**).
2. Slide the dust collector into the bottom of the filter housing.



Check that the filter cover gasket has not been damaged. Replace as necessary.

3. Replace the filter hatch on the filter housing. Check that the filter cartridge is centred on the hole in the filter hatch and that there is a good seal between the hatch and filter housing.

8.4 Emptying the dust collector



It is important to ensure that no dust enters the surrounding environment. If dust reaches the floor when emptying the dust collector, immediately pick up with a vacuum cleaner fitted with a HEPA filter.



The dust collector should be emptied regularly to the dust collector and/or dust bag from becoming too heavy for normal manual handling (max. 20 kg).

Before disassembly, let the machine rest for a few minutes so that the dust in the filter housing can settle.

1. Lock the lockable caster wheels (**Fig. 22**).
2. Open the cam locks (1, **Fig. 26**) on the filter hatch. Open the hatch (2). Once the bearing seat is free, lift it upward (3) and remove the hatch.
3. If necessary, use a suitable resting surface at the same height as the dust collector, such as a pallet lift; see **Fig. 32** and **Fig. 33**.

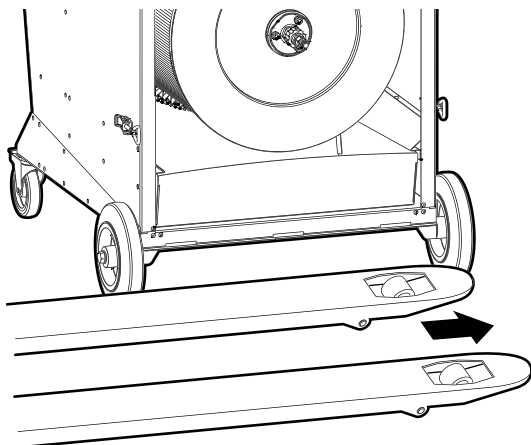


Fig. 32

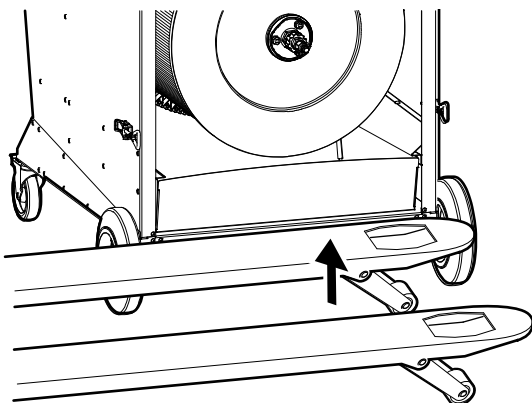


Fig. 33

4. Slowly pull out the dust collector from the filter house into CMF PCW3 filter bag; see **Fig. 34**.

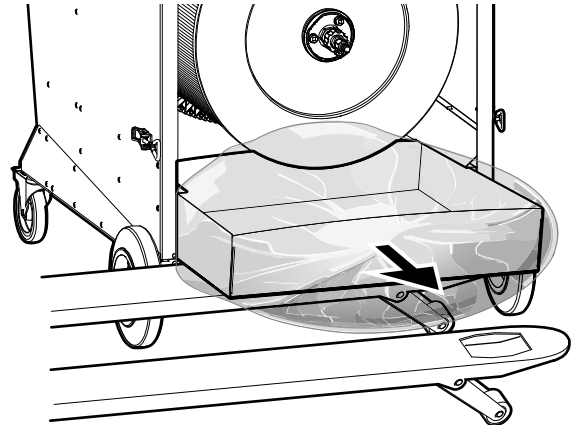


Fig. 34

5. Carefully empty the dust collector in the sealed bag. Let the dust settle in the bag.
6. Carefully remove the dust collector from the bag.
7. Seal the bag. Dispose of the bag according to applicable laws and regulations.
8. If necessary, clean the dust collector and the dust collector shelf.
9. Slide the dust collector under the chute, see **Fig. 27** as a reference.



Check that the filter cover gasket has not been damaged. Replace as necessary.

10. Replace the filter hatch on the filter housing. Check that the filter cartridge is centred on the hole in the filter hatch and that there is a good seal between the hatch and filter housing.

Once packed in the bag, the dust must then be transported to the final disposal site without allowing any contamination and/or dust to escape.

8.5 Extraction arm

Adjusting friction joints

Adjust the friction joints as shown in **Fig. 16** and **Fig. 17**.

9 Decommissioning

9.1 Final decommissioning/disassembly/disposal

Final decommissioning and disassembly of the product may only be done by authorized personnel wearing protective gear. The handling and correct removal of the various types of materials must be in accordance with the applicable legal requirements.

Please contact FUMEX if you have any questions about the various types of waste.

10 Technical information

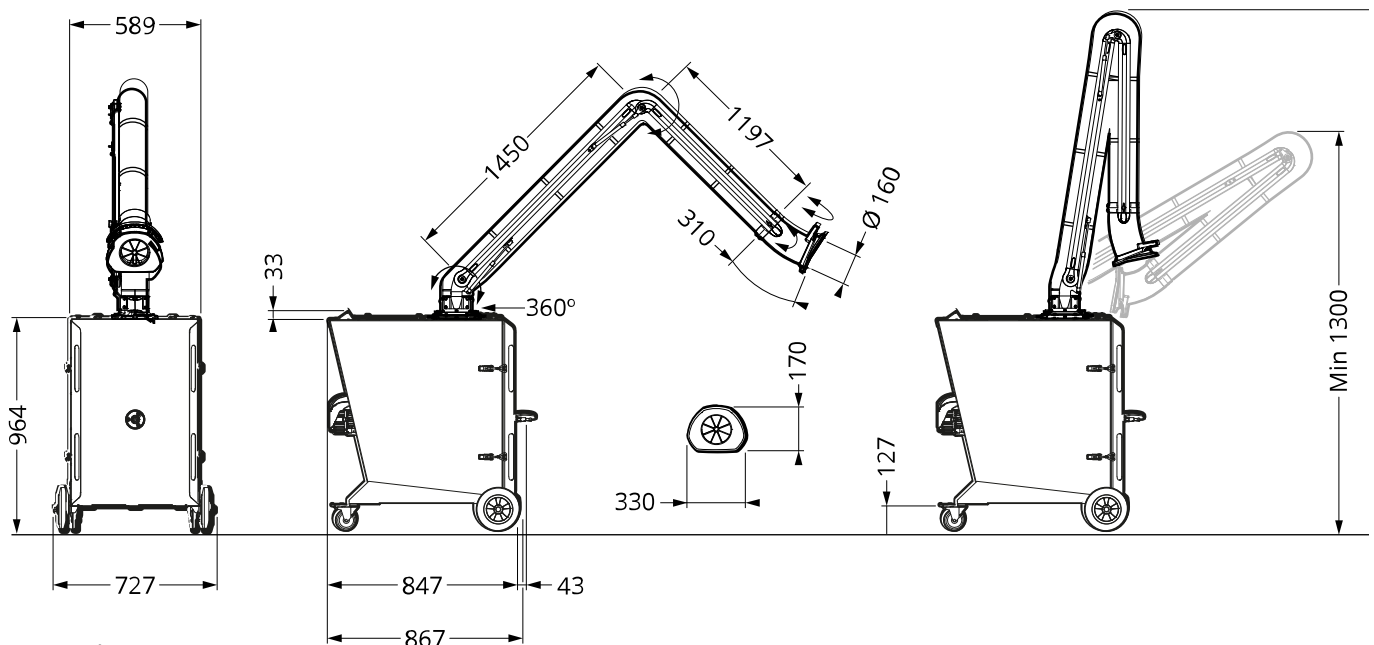


Fig. 35

10.1 Technical data

Dimensions: See **Fig. 35**
 Weight: 95 kg
 Voltage: 230 V 1N~
 Frequency: 50 Hz
 Power: 0.75 kW
 Current: 5.5 A
 Inlet pressure: <6 bar
 Enclosure class: IP40
 Number of filter cartridges: 1
 Filter area: 14 m²
 Airflow (min/max): 650/1200 m³/h

Sound level (at min/max rpm)

Standard: 64/71 dB (A)

Silencer CMF 300 SE: -3 dB (A)

Temperature limits

Ambient temperature: 5 °C till 40 °C

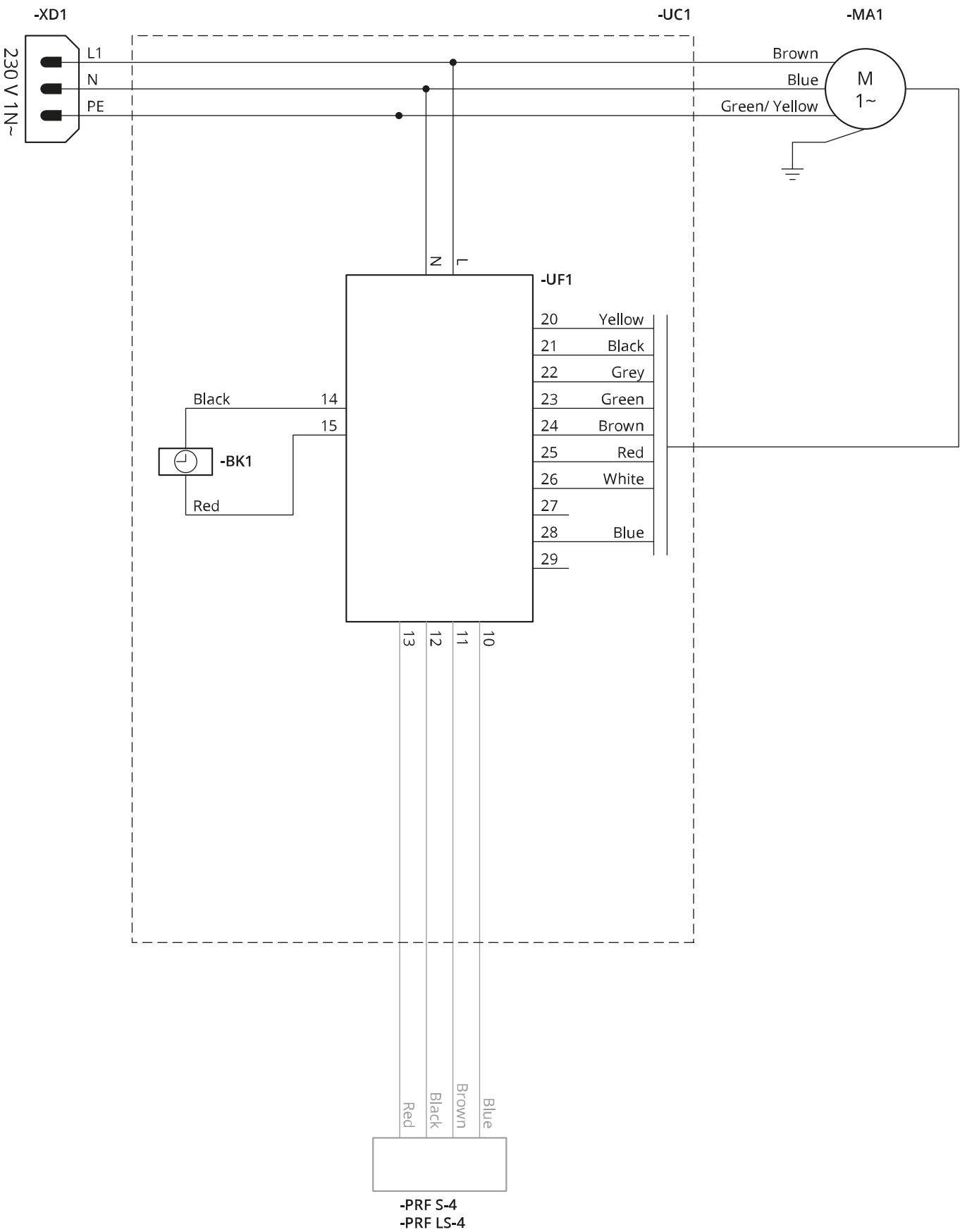
Transport & storage temperature: -25 °C till 60 °C

Max. humidity: 80 %

Alarm limits

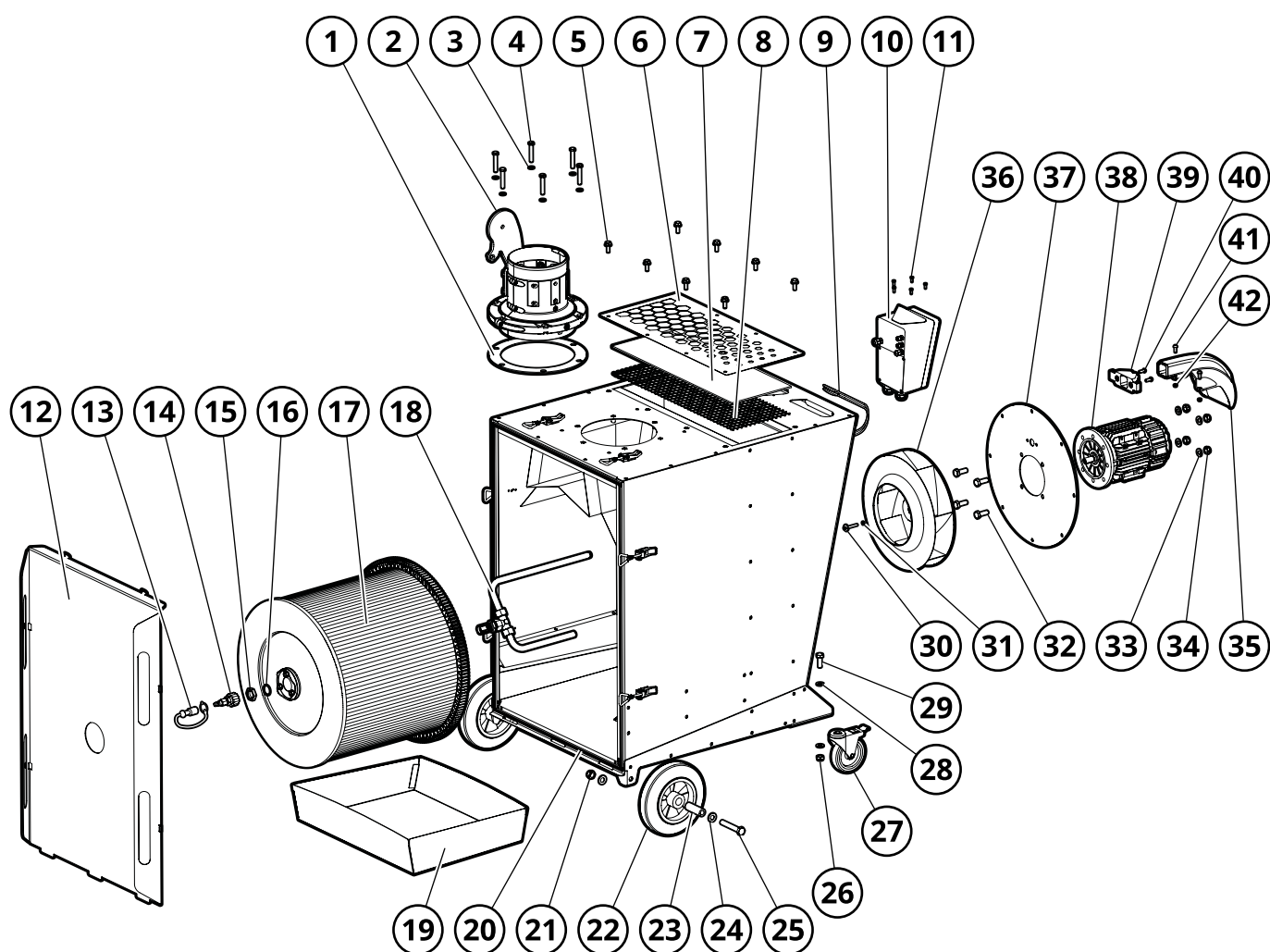
Audible alarm: 600 m³/h

10.2 Circuit diagram electronics

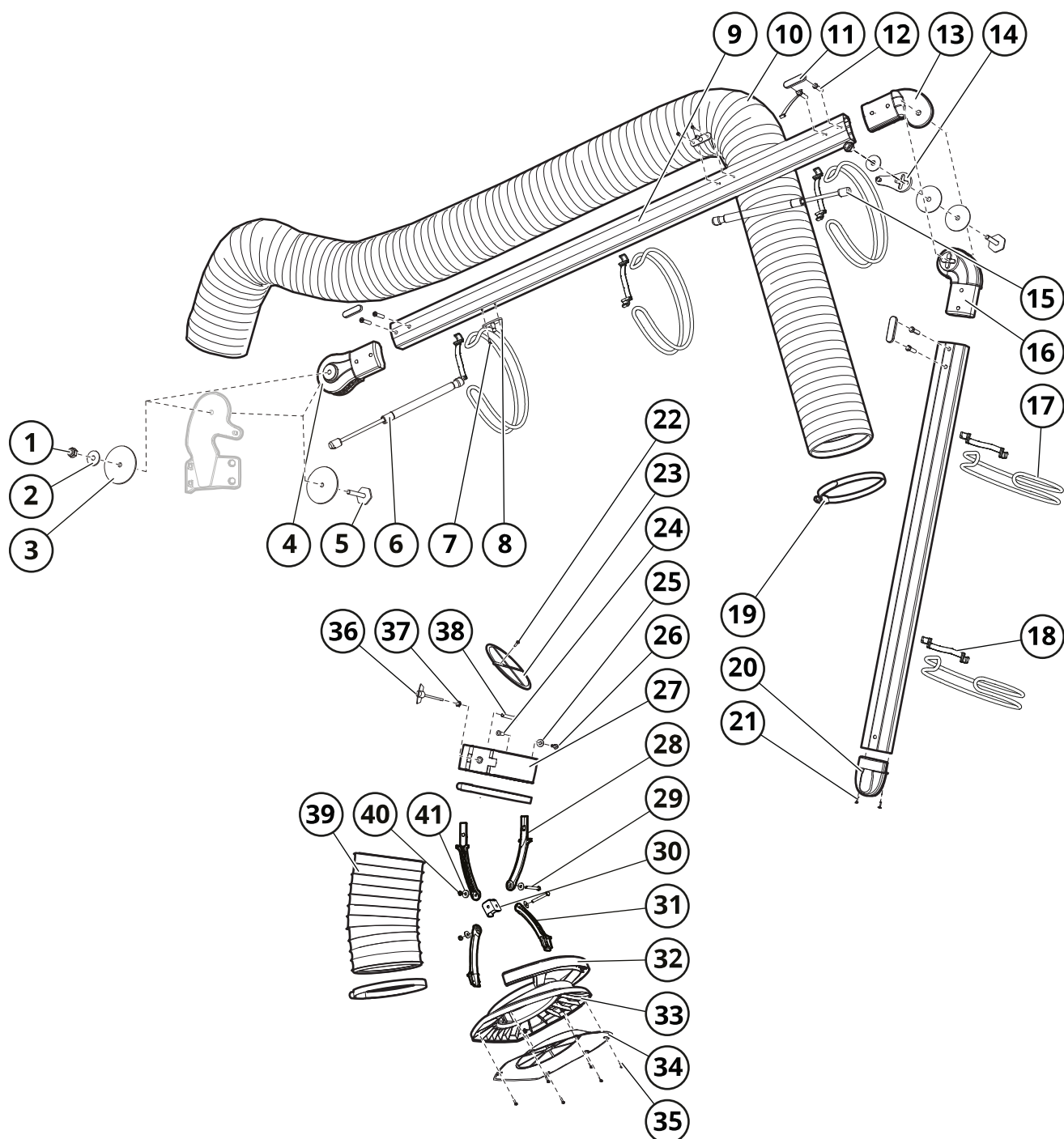


10.3 Exploded-view drawing

10.3.1 Filter unit CMF 300



10.3.2 Extraction Arm

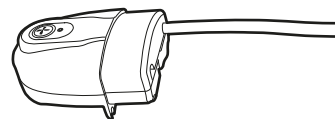


11 Accessories & Spare Parts

Push button PR S

Push button for controlling the fan and/or damper. Including cable routing.

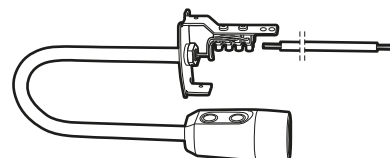
Fig. 36



Work lighting PR LS

Work lighting (LED). Dimmable with adjustable positioning. Built-in push button with LED-indicator for controlling the fan and/or damper. Including cable routing. Power supply via separate transformer or control unit.

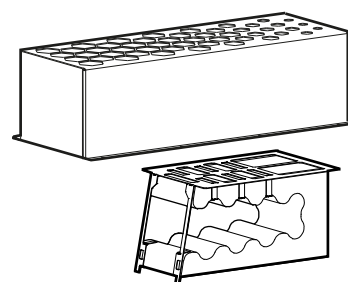
Fig. 37



Silencer CMF 300 SE

Reduces the operating noise of the machine.

Fig. 38

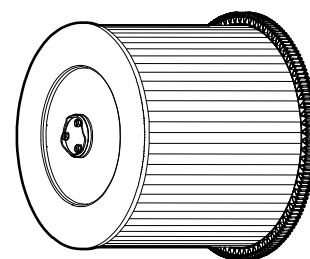


Filter Cartridge CFS 140W3

Filter cartridge for use during normal loads in EN ISO 21904-1:2020 systems for safety during welding. The filter consists of a corrugated polyester material coated with a Teflon membrane that is protected by expanded metal on the inside.

The purchase of CFS 140W3 includes Dust bag CFE PCW3.

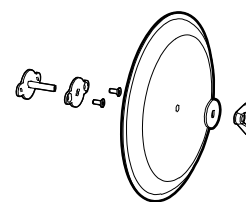
Fig. 39



Spark Trap PR ST

Protects the filter from large particles and reduces the risk of sparks.

Fig. 40



Dust bag CMF PCW3

Bag for contactless replacement of the filter cartridge and emptying of the dust collector.

Fig. 41



Extension Hose PFS-160

Enables work in difficult and remote areas. With magnetic nozzle and quick coupling. Available in lengths of 4 metres and 8 metres.

Fig. 42



12 Notes

EXTRACTION ARMS · VEHICLE EXHAUST EXTRACTION · FANS · FILTERS · CURTAINS · CONTROLS

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