Smart Air Filtrator

Instruction Manual

Figures

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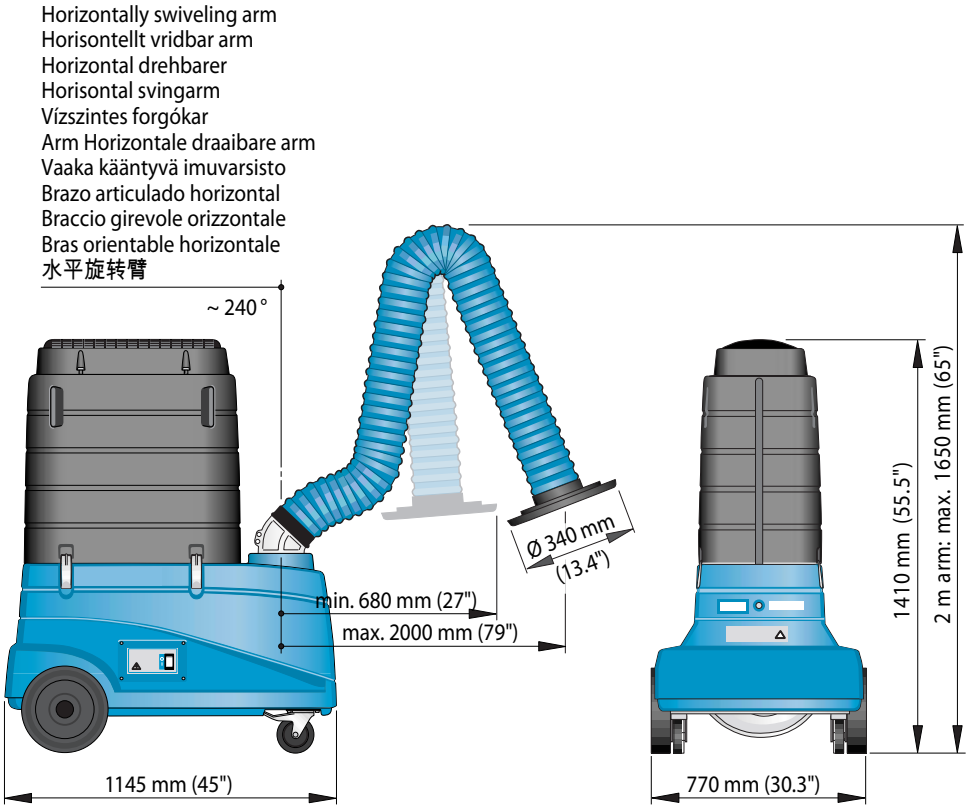
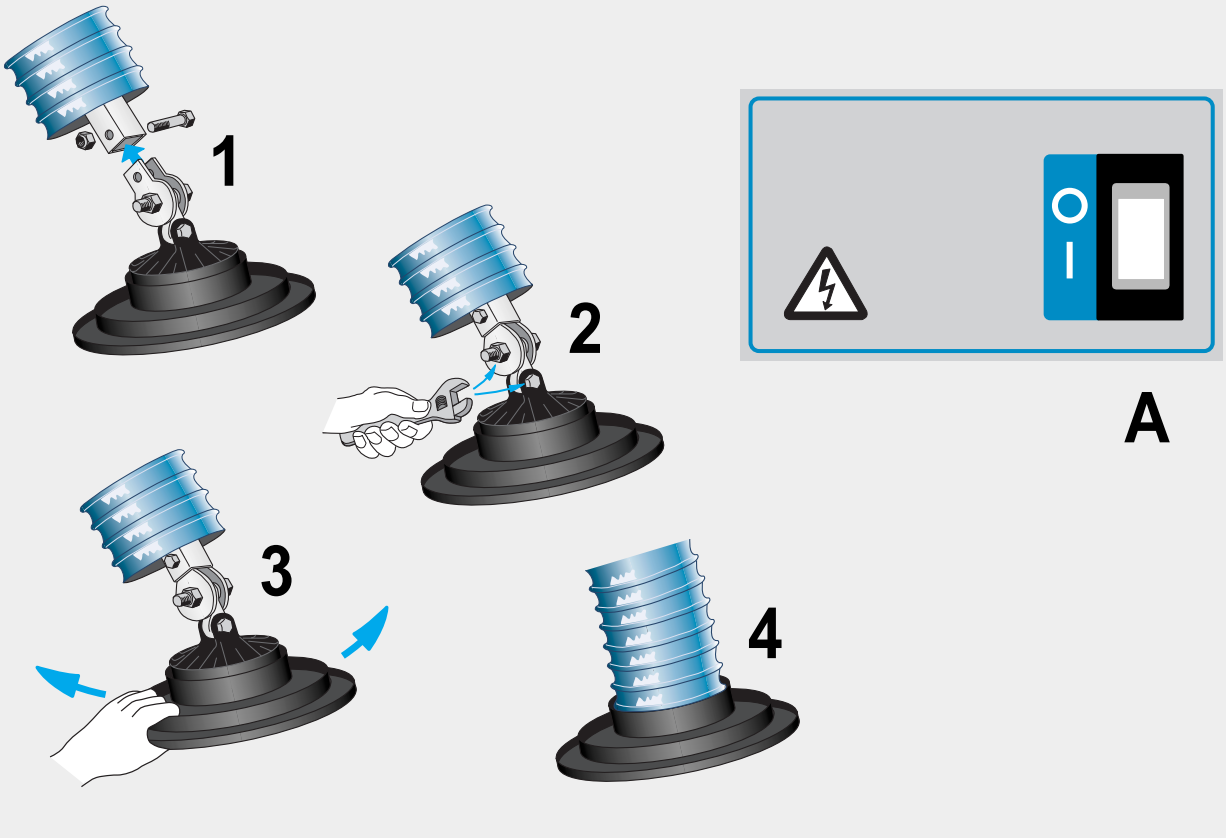
Dimensions
Dimensioner
Abmessungen
Méretek
Afmetingen
Mitat
Dimensiones
Dimensioni
Dimensions
尺寸



2



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Anschluss-schema
Kábelezési ábra
Elektrisch aansluitschema
Kytkentäkaavio
Esquema de circuitos
Schema elettrico
Schéma électrique
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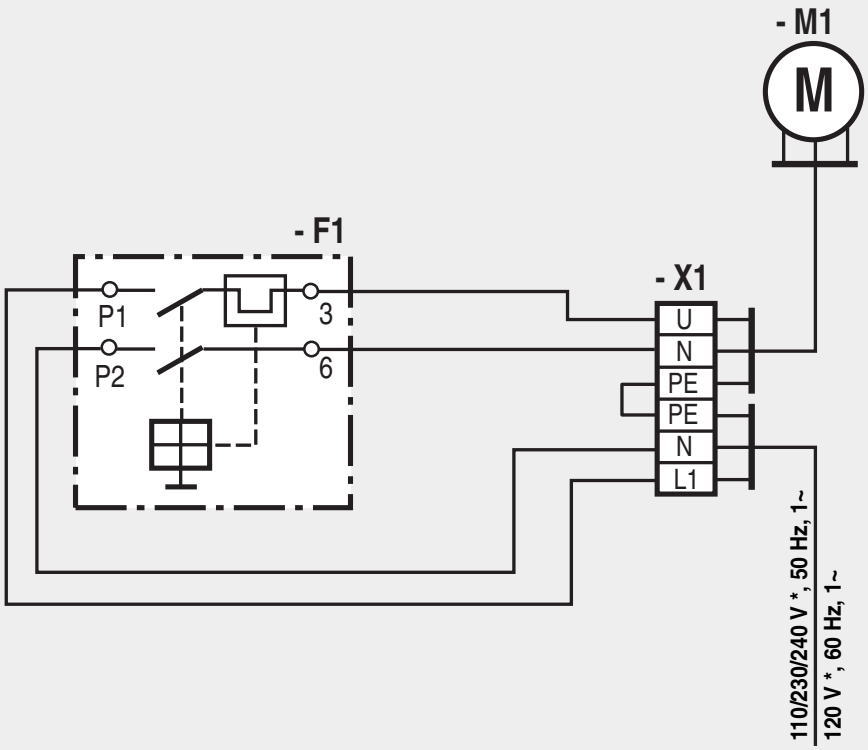

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Használati útmutató
Gebruiksaanwijzing
Käyttöohje
Instrucciones de uso
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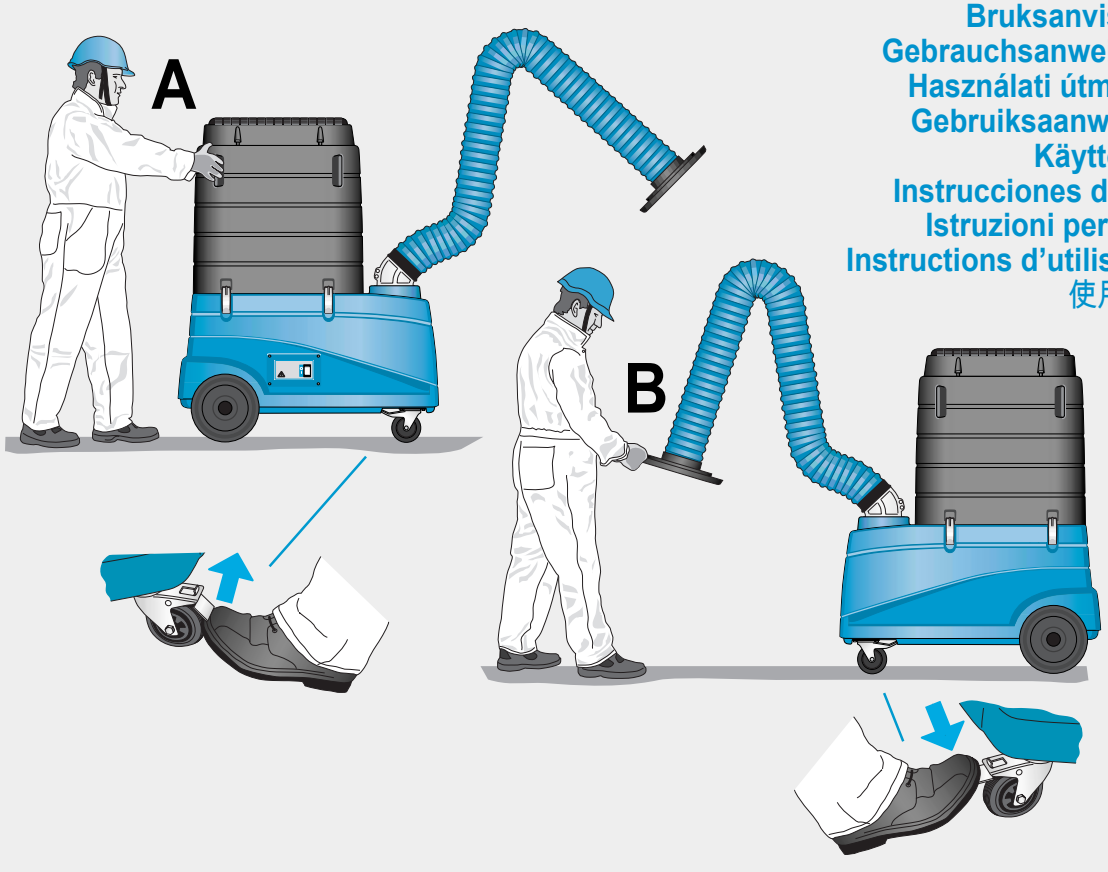

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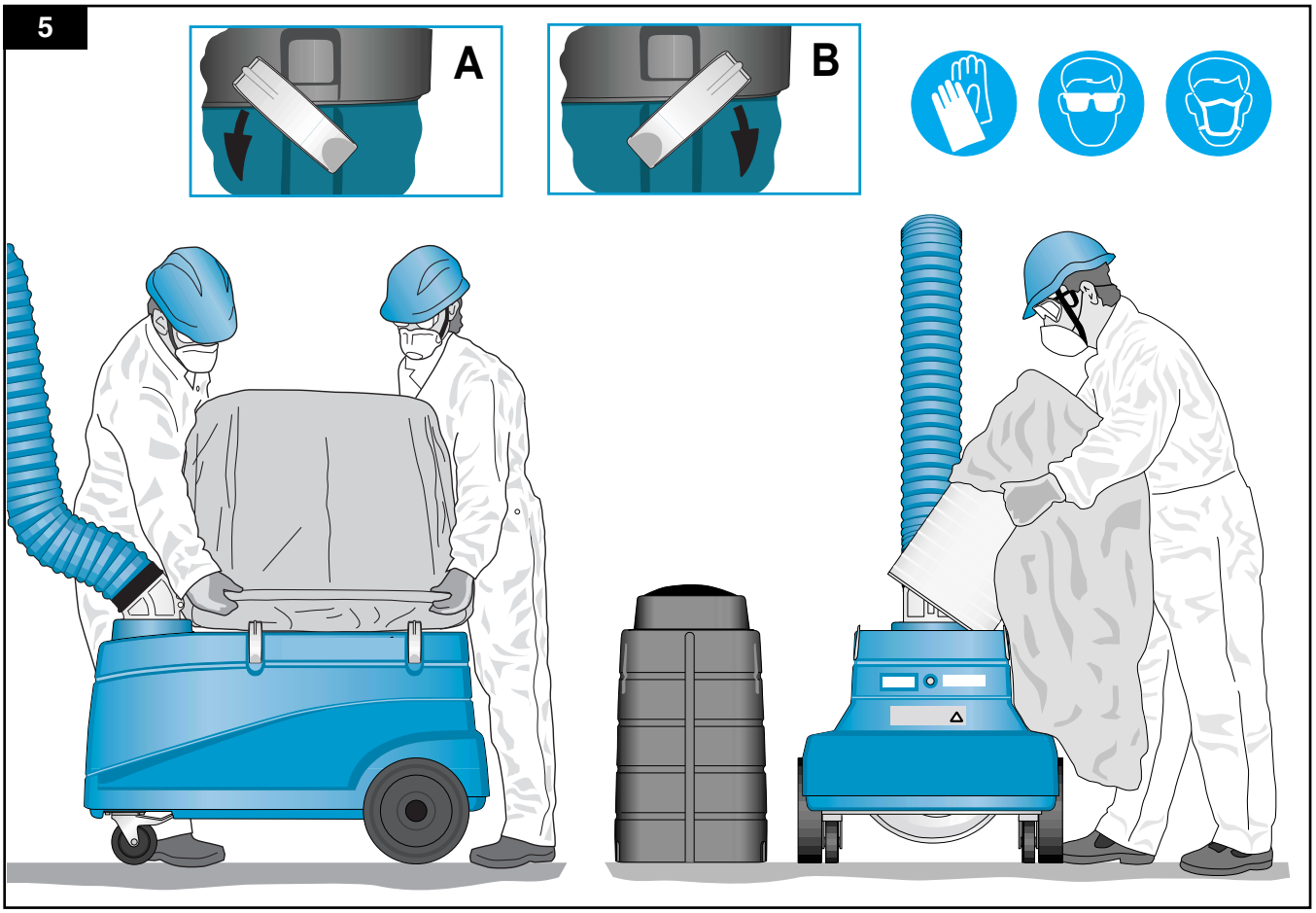
A
B

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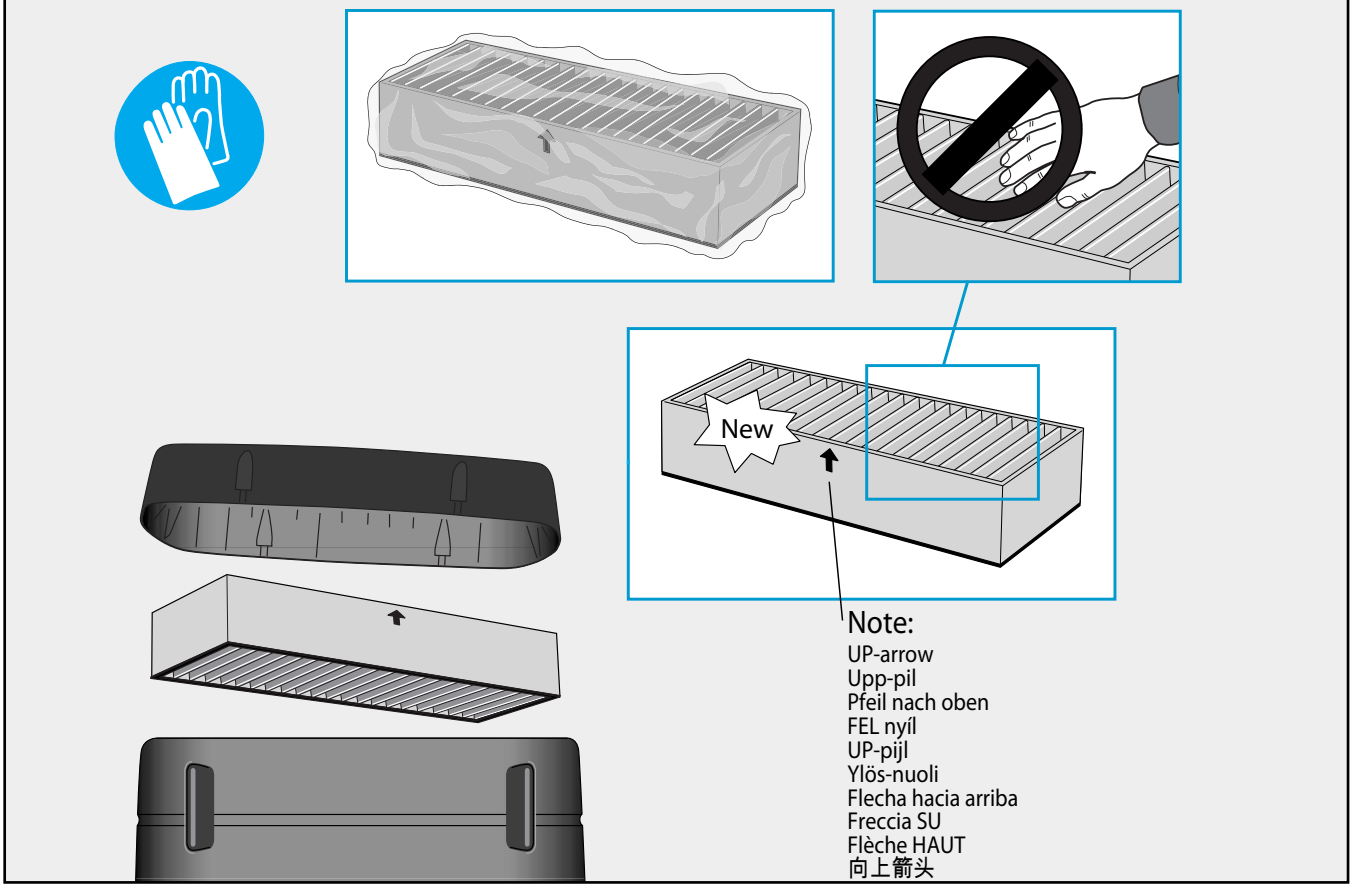
New
Note:
UP-arrow
Upp-pil
Pfeil nach oben
FEL nyíl
UP-pijl
Ylös-nuoli
Flecha hacia arriba
Freccia SU
Flèche HAUT
向上箭头

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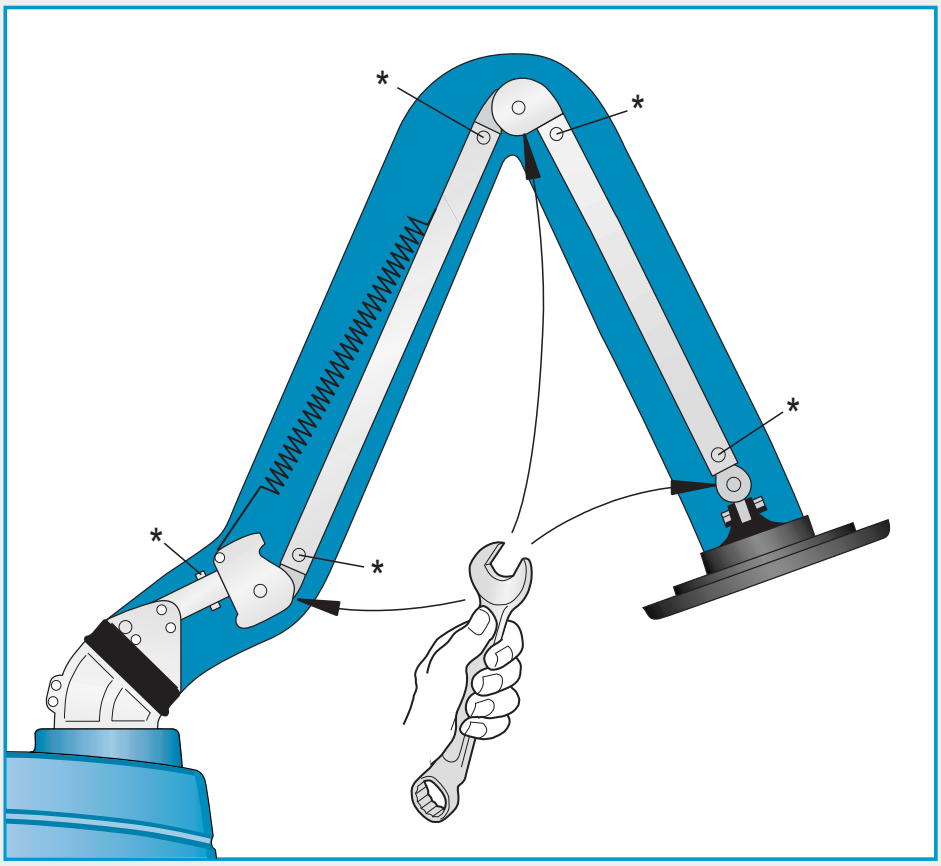

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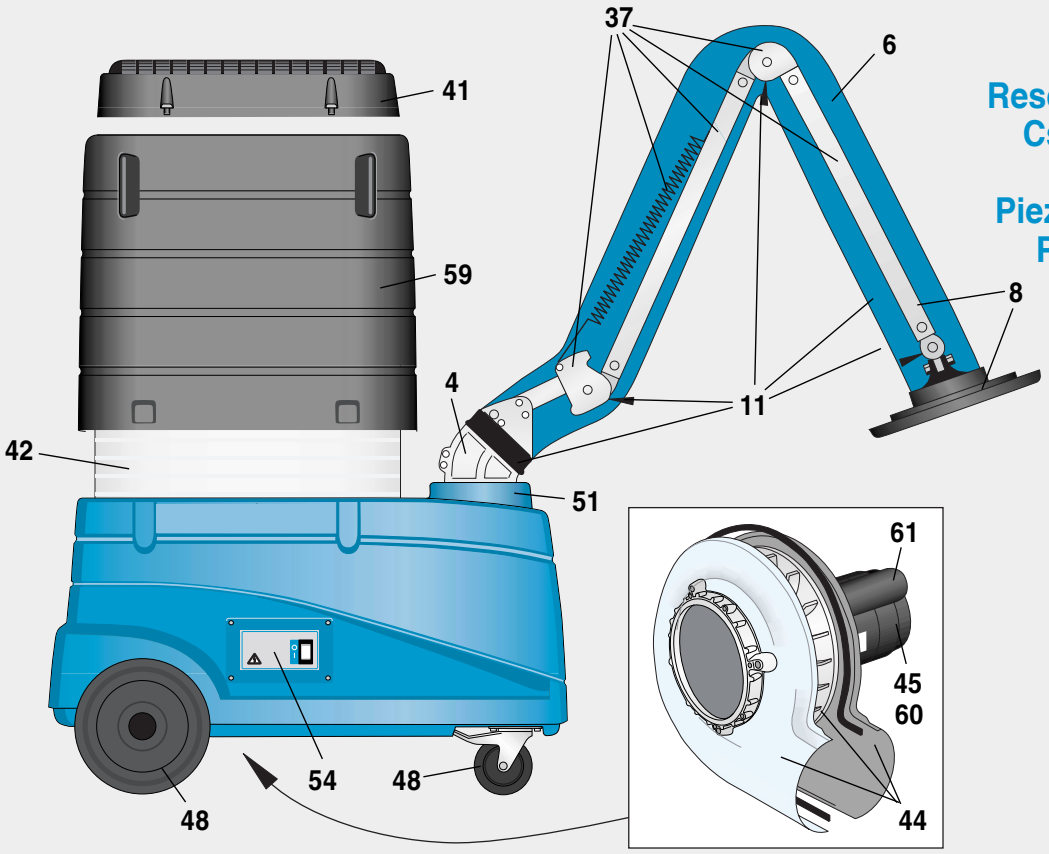

Spare parts
Reservdelar
Ersatzteile
Reserveonderdelen
Cserealkatrészek
Varaosat
Piezas de repuesto
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Pièces de rechange
备件

1 Preface

This manual is for the correct installation, use and maintenance of this product. Read it carefully before using this product or carrying out maintenance. Replace the manual immediately if lost.

This product has been designed to meet the requirements of relevant EC directives. To maintain this status, all installation, repair and maintenance work for this product is to be carried out by qualified personnel using only original spare parts.

2 Notices

This document contains important information that is presented either as a warning, caution or note. See the following examples:

WARNING! Type of injury.
Warnings indicate a potential hazard to the health and safety of personnel, and how that hazard may be avoided.

CAUTION! Type of risk.
Cautions indicate a potential hazard to the product but not to personnel, and how that hazard may be avoided.

NOTE! Notes contain other information that is important for personnel.

3 Description

3.1 Technical data

Table 3-1: Technical data

Capacity	750–900 m^3/h (430–530 cfm)
Filtration efficiency, main filter	*
Filtration efficiency, HEPA filter	> 99.97% DOP 0.3 µm
Filter area, main filter	20 kg (44 lb) active carbon
Filter area, HEPA filter	7.5 m^2 (81 ft^2)
Motor power	0,55 kW
Voltage **	110/120/230/240 V
Phase	1 ~
Frequency **	50/60 Hz
Extraction arm, action radius	maximum 2 m (6 ft 7 in)
Extraction arm, swiveling	approximately 240°
Weight, with 2 m arm	86 kg (189 lb)
Temperature, max. ambient temp.	40 °C (104 °F)
Temperature, max. airflow temp.	40 °C (104 °F)

Noise level ***	73 dB(A)
Material recycling	90 weight-%****

* Depending on type of pollution.

** Depending on model.

*** Measured according to ISO 11203.

**** Without filter cartridge.

4 Fitting the Fume Extractor hood

The Fume Extractor arm is already fitted. The hood must be fitted according to the Figure 2, items 1–4. Adjust the links so that the hood can be easily positioned.

4.1 Initial operation

- Ensure the **Smart Air Filtrator** not been damaged during transport.
- Check that the mains voltage is the same as on the sign plate of the Smart Air Filtrator. Then connect the connection cable with plug to the mains.
- Start the Smart Air Filtrator with the circuitbreaker A on the controlboard.

4.2 Overload protector

The Smart Air Filtrator is equipped with an overload protector which means that the power will disconnect automatically if the fan motor should be overloaded. The overload protector is easily re-set by the push button A on the control board.

5 Wiring diagram

See Figure 3.

M1: Fan motor, 0.55 kW (0.75 hp).

X1: Terminal block, connection to mains (voltage, depending on model).

F1: Circuit switch, Overload protector.

6 Directions for use

The Smart Air Filtrator is only intended for indoor use. It is designed for extraction and filtration of odours and vapours from non-toxic smelling solvents in moderate concentrations. The hood of the extraction arm should be positioned as close to the pollution source as possible. The Smart Air Filtrator should be moved from behind according to Figure 4, item A and with the wheels unlocked. The extraction arm should be positioned with the wheels locked according to item B.

WARNING! Risk of personal injury, fire or explosion.

- The Smart Air Filtrator must not be used in an environment with danger of explosion or for gases in explosive concentrations.
- The Smart Air Filtrator must not be used for dust or welding fumes.
- The Smart Air Filtrator must not be used for extracting toxic substances.
- The Smart Air Filtrator must not be used for extracting odourless substances.
- The Smart Air Filtrator must not be used without filter cartridge and casing.

7 Changing the filter cartridge

See Figure 5. The filter cartridge is disposable and should be thrown-away after use. The life of the filter cartridge varies greatly depending on how the Smart Air Filtrator is used and how much and what type of pollutants are collected.

Change the filter cartridge when the smell from the filtrated substances comes through the filter outlet. Always check that the hoses for the extraction arm and the fan inlet not are damaged before it is decided to change the filter cartridge.

WARNING! Risk of personal injuries.
Use necessary personal safety equipment when replacing the filter cartridges. Follow local regulations.

Change the filter cartridge in the following way:

1. Disconnect the mains connection cable.
2. Unlock the eccentric locks and remove the filter casing.
3. Use the plastic bag which comes with the new filter cartridge and pull it over the used cartridge. Fold the plastic bag under the cartridge and close it with the band supplied.
4. Handle the used filter cartridge according to the relevant regulations for the substances that have been collected.
5. Wipe off the filter cartridge contact surfaces in the Smart Air Filtrator
6. Check that the new filter cartridge is not damaged. Then fit it on the Smart Air Filtrator
7. Refit the filter casing. Make sure the eccentric locks tighten the filter casing properly.
   A) Increasing the locking power.
   B) Decreasing the locking power.

8 Changing the HEPA filter (accessory)

See Figure 6. If the Smart Air Filtrator has been supplied with a HEPA filter, this should be changed at the same time as the main filter cartridge is changed.

WARNING! Risk of personal injuries.
Use necessary personal safety equipment when changing the HEPA filter.

Change the HEPA filter cartridge in the following way:

1. Disconnect the mains connection cable.
2. Unscrew the top cover.
3. Remove the used HEPA filter and put it in the plastic bag which comes with the new HEPA filter. Close the plastic bag with the band supplied.
4. Handle the used HEPA filter according to the relevant regulations for the substances that have been collected.
5. Check that the new HEPA filter not is damaged. It should be noted that the filter surface must not be touched. Handle the HEPA filter very carefully and fit it in the Smart Air Filtrator . Ensure it is fitted in the correct position and that the seal is downwards. Check that the seal not is damaged. Note the UP-arrows.
6. Refit the top cover. Fasten it securaly.

9 Maintenance

Maintenance is recommended at least once a year.

WARNING! Risk of personal injuries.
- Disconnect the mains connection cable before starting any maintenance work.
- Use necessary personal safety equipment.

Do as follows:

- Change the filter cartridge (and optional HEPA-filter) if necessary, see Chapter ‘7 Changing the filter cartridge’.
- Check the airflow capacity of the Smart Air Filtrator
- Check that the Fume Extractor hose is not damaged. If necessary change the hose.
- Check that the hose to the fan inlet is not damaged. If necessary change the hose.
- Check that no objects have been caught on the guard net on the fan inlet.
- If necessary, adjust the Fume Extractor links.
- If necessary, tighten the arm profile bolts, see * Figure 7.
- Check that the mains connection cable and the fan motor cable are not worn or damaged.
- Check that the eccentric locks tighten the filter casing properly. Adjust the eccentric locks if necessary. See Chapter ‘7 Changing the filter cartridge’.

9.1 Spare parts

Please contact your authorized HBC System distributor

10 Recycling

The product has been designed for component materials to be recycled. Its different material types must be handled according to relevant local regulations.

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