

**S 35 M****mafeil**  
creating excellence

170656.0620/a

<b>de</b>	Absauggerät	Originalbetriebsanleitung	5
<b>en</b>	Dust extractor	Translation of the original operating instructions	16
<b>fr</b>	Aspirateur	Traduction de la notice d'emploi originale	27
<b>it</b>	Aspiratore	Traduzione delle istruzioni d'uso originali	39
<b>nl</b>	Afzuigtoestel	Vertaling van de originele gebruiksaanwijzing	50
<b>es</b>	Aspirador	Traducción del manual de instrucciones original	61
<b>fi</b>	Imurointiilaitte	Käännös alkuperäiskäyttöohjeesta	73
<b>sv</b>	Sugaggregat	Översättning av originalbruksanvisningen	84
<b>da</b>	Udsugningsapparat	Oversættelse af den originale betjeningsvejledning	95
<b>ru</b>	Аспирационное устройство	Перевод оригинальной инструкции по эксплуатации	106
<b>pl</b>	Urządzenie odpylające	Tłumaczenie oryginalnej instrukcji obsługi	118
<b>cs</b>	Odsávací přístroj	Překlad původního provozního návodu	129
<b>sl</b>	Odsesovalna naprava	Prevod izvirnih navodil za uporabo	140



MAF2060/b

**WARNUNG**

**Lesen Sie alle Sicherheitshinweise und Anweisungen.** Versäumnisse bei der Einhaltung der Sicherheitshinweise und Anweisungen können elektrischen Schlag, Brand und/oder schwere Verletzungen verursachen. **Bewahren Sie alle Sicherheitshinweise und Anweisungen für die Zukunft auf.**

**WARNING**

**Please read all safety instructions and directions.** Failure to comply with the safety instructions and directions can cause electric shock, fire and/or serious injuries. **Please retain all safety instructions and directions for future reference.**

**AVERTISSEMENT**

**Veillez lire toutes les consignes de sécurité et instructions.** Tout non-respect des consignes de sécurité et instructions risque d'être à l'origine de décharges électriques, d'incendies et/ou de blessures graves. **Conservez toutes les consignes et instructions pour pouvoir les relire à tout moment.**

**AVVERTENZA**

**Leggere tutte le avvertenze di sicurezza e le istruzioni.** La mancanza del rispetto delle avvertenze di sicurezza e delle istruzioni possono causare scossa elettrica, incendio e/o gravi lesioni. **Conservare tutte le avvertenze di sicurezza e le istruzioni per il futuro.**

**WAARSCHUWING**

**Lees alle veiligheidsaanwijzingen en instructies.** Nalatigheid bij het naleven van de veiligheidsinstructies en aanwijzingen kan elektrische schok, brand en/of ernstige letsels veroorzaken. **Bewaar alle veiligheidsaanwijzingen en instructies voor later gebruik.**

## **ADVERTENCIA**

**Lea todas las indicaciones de seguridad e instrucciones.** Si no se cumplen las indicaciones de seguridad e instrucciones, se pueden producir descargas eléctricas, incendios y/o lesiones graves. **Guardé todas las indicaciones de seguridad e instrucciones para el futuro.**

## **VAROITUS**

**Lue kaikki turvaohjeet ja käyttöohjeet.** Laiminlyönti turvaohjeiden ja käyttöohjeiden noudattamisessa voi aiheuttaa sähköiskun, tulipalon ja/tai vakavia vammoja. **Säilytä kaikki turvaohjeet ja käyttöohjeet tulevaisuuden varalle.**

## **WARNING**

**Läs alla säkerhetsanvisningar och anvisningar.** Underlåtenhet att följa säkerhetsanvisningar och anvisningar kan orsaka elstötar, brand och/eller allvarliga personskador. **Behåll alla säkerhetsanvisningar och anvisning för framtida användning.**

## **ADVARSEL**

**Læs alle sikkerhedshenvisninger og instruktioner.** En manglende overholdelse af sikkerhedshenvisningerne og instruktionerne kan føre til elektrisk stød, brand og/eller alvorlige kvæstelser. **Opbevar alle sikkerhedshenvisninger og instruktioner til fremtidig brug.**

## **ПРЕДУПРЕЖДЕНИЕ**

**Прочитайте все правила и инструкции по технике безопасности.** Несоблюдение этих правил и инструкций по технике безопасности может привести к поражению электрическим током, возгоранию и/или другим серьезным травмам. **Сохраните все правила и инструкции по технике безопасности для дальнейшего использования.**

## **OSTRZEŻENIE**

**Przeczytać wszystkie przepisy bezpieczeństwa i wskazówki.** Zaniedbanie przestrzegania przepisów bezpieczeństwa i wskazówek może prowadzić do porażenia prądem, pożaru i/lub ciężkich zranień. **Zachować wszystkie przepisy bezpieczeństwa i wskazówki na przyszłość.**

## **UPOZORNĚNÍ**

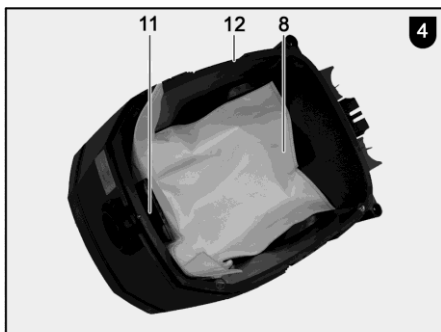
**Přečtěte si všechna bezpečnostní upozornění a pokyny.** Zanedbání bezpečnostních upozornění a pokynů může způsobit zásah elektrickým proudem, požár a/nebo vážná zranění. **Všechna bezpečnostní upozornění a pokyny si ponechejte pro pozdější použití.**

## **OPOZORILO**

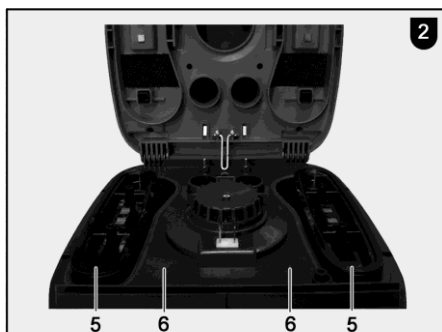
**Preberite vsa varnostna opozorila in napotke.** Neupoštevanje varnostnih opozoril in napotkov lahko povzroči udar električnega toka, požar in/ali hude telesne poškodbe. **Vsa varnostna opozorila in napotke shranite za prihodnjo uporabo.**



MAF02059/a



MAF02057/a



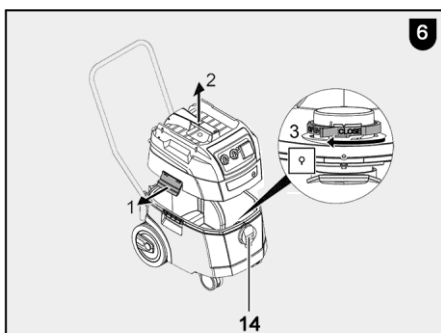
MAF02055/a



MAF02058/a



MAF02056/a



MAF02290/a

#### D - EG Konformitätserklärung

Wir bescheinigen hiermit, dass das Absauggerät S 35 M den angeführten EU-Richtlinien entspricht. Bei Konstruktion und Bau wurden die gelisteten Normen angewendet. Bevollmächtigter für die Zusammenstellung der technischen Unterlagen: Mafell AG

#### GB - EC Declaration of Conformity

We herewith confirm that the dust extractor S 35 M complies with the EU directives quoted. The standards listed were used for design and construction. Empowered person for the configuration of the technical documents: Mafell AG

#### F - Déclaration CE de conformité

Nous déclarons par la présente que l'aspirateur S 35 M est conforme aux directives CE applicables comme suit. Lors de la construction, les règlements suivants ont été utilisés. Plénipotentiaires pour l'assemblage des documentations techniques: Mafell AG

#### I - Dichiarazione di conformità CE

Con la presente certifichiamo che l'aspiratore S 35 M è conforme alle seguenti direttive CE applicabili. Nella progettazione e la costruzione sono state applicate le seguenti norme. Responsabile per la composizione della documentazione tecnica: Mafell AG

#### NL - EG conformiteitsverklaring

Wij bevestigen hiermede dat de stofzuiger S 35 M aan de vermelde EU-richtlijnen beantwoord. Bij constructie en bouw werden de vermelde normen toegepast. Gemachtigde voor de samenstelling van de technische documenten: Mafell AG

#### E - Declaración de conformidad CE

Con la presente se certifica que el aspirador S 35 M cumple las directivas europeas mencionadas, las cuales forman la base tanto del diseño constructivo como de los procesos de fabricación. Apoderado legal para la compilación de la documentación técnica: Mafell AG

#### FIN - EY-vaatimusten mukaisuusvakuutus

Vakuutamme täten, imurointilaitte S 35 M vastaa mainittujen EU-direktiivien vaatimuksia. Sen suunnittelussa ja valmistuksessa on sovellettu luettelossa ilmoitettuja standardeja. Teknisten asiakirjojen laatimiseen valtuutettu henkilö: Mafell AG

#### S - EG Konformitetsförklaring

Vi intygar härmed att sugaggregat S 35 M uppfyller angivna EU direktiv. De angivna normerna användes vid konstruktion och tillverkning. Befullmäktigad för sammanställningen av den tekniska dokumentationen: Mafell AG

#### DK - EU overensstemmelseserklæring

Vi atterer hermed, at udsugningsapparat S 35 M opfylder de angivne EU-direktiver. Konstruktion og bygning er udført iht. de angivne standarder. Person, der er befuldmægtiget til at sammenstille det tekniske materiale: Mafell AG

#### RUS - Сертификат соответствия ЕС

Настоящим подтверждаем, что машина S 35 M отвечает требованиям указанных директив ЕС. При проектировании и изготовлении применялись перечисленные нормы. Уполномоченный представитель по составлению технической документации: Mafell AG

#### PL - Deklaracja zgodności UE

Niniejszym potwierdzamy, że maszyna S 35 M spełnia wymagania wyszczególnionych dyrektyw UE. W trakcie konstrukcji urządzenia zastosowano przedstawione normy. Pełnomocnik odpowiedzialny za zestawienie dokumentacji technicznej: Mafell AG

#### CZ - PROHLÁŠENÍ O SHODĚ

Tímto prohlašujeme, že stroj S 35 M splňuje pokyny uvedených směrnic EU. Při plánování a sestavení byly využity uvedené normy. Za sestavení technických podkladů zodpovídá: Mafell AG

#### SLO - ES izjava o skladnosti

S tem izjavljamo, da stroj S 35 M ustreza navedenim direktivam EU. Pri konstrukciji in izdelavi so uporabljeni naštetí standardi. Za sestavo tehnične dokumentacije je pooblaščenó podjetje: Mafell AG



2006/42/EG  
2014/30/EU  
2011/65/EU

EN 60335-1, EN 60335-2-69, EN 55014-1, EN 62233,  
EN 55014-2, EN 61000-3-2, EN 61000-3-3, EN 12100

S 35 M

Art.-Nr. 91C401, 91C420, 91C421

Mafell AG

D - 78727 Oberndorf, den 25.03.2020

Dipl.-Ing. Matthias Krauss  
Vorstandsvorsitzender / CEO

i. V. Dipl.-Ing. Harald Schmid, MBA  
Leitung Entwicklung und Konstruktion

**Table of Contents**

1	Signs and symbols .....	17
2	Product information .....	17
2.1	Manufacturer's data .....	17
2.2	Device identification .....	17
2.3	Technical data .....	18
2.4	Noise emission specifications .....	18
2.5	Scope of supply .....	18
2.6	Device description .....	18
2.7	Safety devices .....	19
2.8	Use according to intended purpose .....	19
2.9	Residual risks .....	19
3	Safety instructions .....	19
4	Setting / Adjustment .....	21
4.1	Assembly .....	21
4.2	Mains connection .....	21
4.3	Changing the folded filter cartridge .....	21
4.4	Changing the filter bags .....	21
4.5	Disposal of filter bags .....	22
4.6	Inserting the filter bag .....	22
4.7	Emptying the container .....	22
5	Operation .....	22
5.1	Switching on and off .....	23
5.2	Hints and information .....	24
6	Service and maintenance .....	24
6.1	Maintenance .....	24
6.2	Servicing .....	25
7	Troubleshooting .....	25
8	Special accessories .....	26
9	Exploded drawing and spare parts list .....	26

## 1 Signs and symbols



**This symbol appears at places where you will find instructions for your own safety.**

Non-compliance with these instructions may result in very serious injuries.



**This symbol indicates a potentially hazardous situation.**

If this situation is not avoided, the product or objects in its vicinity may get damaged.



This symbol indicates tips for the user and other useful information.

## 2 Product information

for dust extractors S 35 M with Art.-No. 91C401, 91C420, 91C421

### 2.1 Manufacturer's data

MAFELL AG, Beffendorfer Straße 4, D-78727 Oberndorf / Neckar, Phone +49 (0)7423/812-0, Fax +49 (0)7423/812-218

### 2.2 Device identification

All information required for device identification is available on the rating plate attached to the motor casing.



CE symbol to document compliance with the basic safety and health requirements according to Appendix I of the Machinery Directive.



For EU countries only

Do not dispose of electrical tools together with domestic waste!

In accordance with the European directive 2002/96/EC on waste electrical and electronic equipment and transposition into national law, obsolete electrical tools must be collected separately and recycled in an environmentally-compatible manner.



To reduce the risk of injury, please read the operating instructions.



Warning: This device contains harmful dusts. Emptying and maintenance including removal of the dust bag may only be carried out by competent persons wearing suitable personal protective clothing. Do not turn on before the entire filter system is installed and the function of the volume flow control has been checked.

### 2.3 Technical data

Operating mode	Continuous operation
Voltage, frequency	220-240 V~, 50/60 Hz
Power input (nominal load)	1200 max. 1400 W
Current at nominal load	6,0 A
Nominal volume flow	270 m <sup>3</sup> /h
Associated vacuum	280 mbar
Filter surface area	6000 cm <sup>2</sup>
Dimensions	530 x 400 x 560 mm (20 55/64 x 15 3/4 x 22 3/64 in.) without MAX bracket 530 x 400 x 620 mm (20 55/64 x 15 3/4 x 24 13/32 in.) with MAX bracket (without hose hook)
Weight (without accessories)	15,6 kg (34.4 lbs.) without MAX bracket 16,8 kg (37.0 lbs.) with MAX bracket
Diameter intake port connection	Ø 66 / 58 mm

### 2.4 Noise emission specifications

According to BGIA "H" test certificate, the dust extractors class "M" have been tested to GS-BIA-M02 (07/02), DIN EN 60335-2-69 (11/04) Annex AA, DIN 60335-2-69/A1 (11/05).

Noise pressure level of the measuring surface: 69 dB (A)

Ambient conditions: < 40 °C

Noise values were measured acc. to EN 60704-1 on an open air test site at a distance of 1.5 m from the device surface.

### 2.5 Scope of supply

Dust extractor S 35 M complete with:

- 2 folded filter cartridges, polyester nano-coated
- 1 PE discharge-disposal bag 25/35l
- 4 m extraction hose, inside-Ø 27 mm antistatic
- 1 operating manual
- 1 MAX bracket

### 2.6 Device description

The dust extractor S 35 M is a device for use as dry and wet dust extractor.

Wet suction cleaning should be carried out without filter bag. The filter cartridges are suitable for wet vacuuming.

#### 2.6.1 Prior to use

- Pay attention to completeness and transport damages when unpacking the device.
- Prior to use, the users should be supplied with information, instructions and training regarding the use of the dust extractor and the substances for

which it is to be used, including the safe method to dispose of the extracted material.

Diligently read these operating instructions before starting up the dust extractor. It provides important information on operation, safety, maintenance and care. Keep the operating instructions in a safe place and pass them on to the next owner when selling the device.

## 2.7 Safety devices



### Danger

These devices are required for the machine's safe operation and may not be removed or rendered inoperative.

- All mobile machine parts driven by electric motors are covered by stationary, securely fastened protective enclosures that can only be removed with the aid of tools.
- Testing according to EN 60335-1 and EN 60335-2-69 showed that the safety requirements with regard to the electrical safety are also met when a water-air-mixture is vacuumed.
- The dust extractor is suitable for increased loads in case of commercial use. According to EN 60335-1 and EN 60335-2-69.

## 2.8 Use according to intended purpose



### Danger

In general, it is not permitted to vacuum any combustible or explosive solvents, liquids such as petrol, oil, alcohol, thinners or materials with a temperature in excess of 60 °C. Otherwise there will be danger of explosion and fire!

Dust extractors class M are suitable for vacuuming/extracting dry, non-combustible dusts, non-combustible liquids, wood dusts and hazardous dusts with STELs >0.1mg/m<sup>3</sup>.

Any other use than described above is not permissible. The manufacturer cannot be held liable for any damage arising from such other use.

To use the device as intended, observe the operating, maintenance and repair conditions prescribed by Mafell.

This device is also not suitable for operation outdoors in the rain or in rooms with potentially explosive atmospheres.

The dust extractor S 35 M may only be used, set up and serviced by persons who are acquainted with the device and have been instructed about the hazards involved. Corrective maintenance work must be

carried out by MAFELL authorised dealers or MAFELL customer service stations.

The safety instructions applicable in the respective country of use as well as other generally recognised rules pertaining to safety and occupational health must be observed.

## 2.9 Residual risks



### Danger

Even if used in accordance with its intended purpose and despite conforming with the safety instructions, residual risks caused by the intended use will always remain.

- Touching live parts with the housing open and the mains plug not removed.
- Emission of dusts during extended operation with damaged folded filter.
- While exchanging a filter bag or emptying the container, the inhalation of dust cannot be ruled out (respiratory protection).
- Unauthorised changes to the device exclude the manufacturer's liability for any damages resulting thereof.

## 3 Safety instructions



### Danger

Always observe the following safety instructions and the safety regulations applicable in the respective country of use!



### Caution

It is vital to avoid sucking in ignition sources in order to avoid explosions



Caution: The dust extractor/vacuum cleaner must be emptied after work, at the latest at the end of the shift.

- The voltage on the device rating plate must agree with the mains voltage.



- The socket outlet must be protected by means of a domestic fuse of suitable amperage (16 A).
- Do not put device including accessories into operation, if :
  - the device exhibits visible damage (cracks/fissures),
  - the mains connection is defective or exhibits fissuring or ageing,
  - an invisible defect is suspected (after a drop).
- Do not use any damaged extension cables.
- Do not point nozzle, hose or tube at people or animals.
- Particular care should be exercised when vacuuming stairs. Pay attention to safe footing.
- The socket outlet on the device may only be used for the purposes defined in the operating instructions.
- Never work without the protection devices prescribed for the respective operating sequence and do not make any changes to the device that could impair safety.
- When operating the device outdoors, the use of an earth-leakage circuit-breaker is recommended.
- Damaged cables or plugs must be immediately replaced. Replacement may only be carried out by Mafell or an authorised MAFELL service workshop in order to avoid safety hazards.
- Children and adolescents may not operate this device. This rule does not apply to young persons receiving training and being supervised by an expert.
- Switch off the device before carrying out maintenance and after every use and unplug the power plug.
- Always check before starting any work whether the suction hoses are safely attached and undamaged.
- Do not pull the plug by its cable out of the socket outlet.
- Pull out the power plug prior to cleaning or emptying and prior to eliminating any malfunctions.
- Pay attention that the cable is protected against oil and heat and cannot be damaged by being driven over, crushed or pulled.
- Consider environmental influences. Do not expose the device to rain and avoid working near combustible liquids or gases.
- Store the device in a dry, locked place outside the reach of children.
- Regular cleaning of the device is an important safety factor. Pull the plug before starting this work.
- The device must be set up on level ground such that it can neither tilt over nor roll away (lock steering rollers).
- The cleaned air may only be recirculated to those workspaces from where it was extracted; i.e. the electronic tool and the dust extractor may only be operated in the same workspace.
- In case of leaking foam or water, immediately switch off the device. Empty container and where necessary folded filter.
- Acid, acetone and solvents may corrode device components.
- Do not leave the device unattended. Pull the power plug in case of longer work interruptions.
- If the device's connecting cable is damaged, it must be replaced by a special connecting cable that is available from the manufacturer or his after-sales service.
- Have repairs only carried out by skilled workers, e.g. by the after-sales service. If not professionally repaired, devices will constitute a danger for the user.
- Only use original MAFELL spare parts, accessories or special accessories. Otherwise, the manufacturer will not accept any warranty claims and cannot be held liable.

## 4 Setting / Adjustment

### 4.1 Assembly

- Pay attention that the container's two snap locks have safely engaged in the recesses on the motor hood.
- Push the suction hose fitting over the container's suction opening and turn it until the hose fitting engages.

### 4.2 Mains connection

The dust extractor S 35 M is equipped with protective earthing acc. to class I and may therefore only be connected to sockets with protective earth conductor.

Prior to commissioning make sure that the mains voltage agrees with the operating voltage stated on the machine's rating plate.

### 4.3 Changing the folded filter cartridge

- Shake off the folded filter cartridges before changing the filter.
- Using a coin or similar object, turn the catch 7 (fig. 1) on locking bolt 9 anticlockwise by 90° and push the locking bolt 9 to the rear.
- Swing open the hood and remove the filter cartridge 5 (fig. 5) towards the top.
- Immediately seal the removed folded filter cartridges in a dust-tight plastic bag and dispose of in accordance with the instructions.
- Insert the new filter cartridges and pay attention to a neat and tight fit of the filters.
- Fold down the hood and return to its initial position by slightly pressing on the locking bolt 9 (fig. 1). The device is now once more closed.

#### 4.3.1 Changing the motor protection filter

The folded filter cartridges are located next to the motor protection filter 6 (fig. 2). If they are heavily soiled, rinse out and reinsert in dry condition. Damaged motor protection filters must be replaced.

### 4.4 Changing the filter bags



#### Danger

This device may contain hazardous dust. Emptying and maintenance operations including the disposal of dust collection containers may only be carried out with appropriate protective equipment.

The filter bag must be changed if the control display blinks during operation and an additional acoustic signal is sounded.

#### 4.4.1 Changing the non-woven filter bag

- Switch off the device to change the non-woven filter bag.
- Pull the dust extractor's plug.
- Open the snap locks 10 (fig. 1).
- Detach the upper part of the dust extractor from the container 12 (fig. 4).
- Pull the filter bag carefully from the intake port.
- Close the flange of the filter bag by turning down the cover.

#### 4.4.2 Changing the PE-discharge and disposal bag

- PE-discharge and disposal bag: Switch on dust extractor, shake off folded filter cartridges. Switch on dust extractor.
- Wear mouth guard.
- Remove suction hose, close intake port with cap 14 (fig. 6).
- Open lateral locks, remove top part. Before putting down the top part, switch on at switch position >IR< so that possibly released airborne particles are extracted.
- Carefully seal PE-discharge and disposal bag with the enclosed sealing tape.
- Pull flange carefully off the intake port and close.
- Carefully remove PE-discharge and disposal bag from the container.
- Dispose of extracted material in accordance with the legal provisions.

#### 4.5 Disposal of filter bags

Dispose of the filter bag in an impervious bag in compliance with the valid regulations for the disposal of such wastes.

- Filter bags, filled with normal domestic dirt are disposed of with the normal domestic waste.
- PE-discharge and disposal bag, filled with hazardous waste: Enquire at your municipality or at the responsible authority.

#### 4.6 Inserting the filter bag

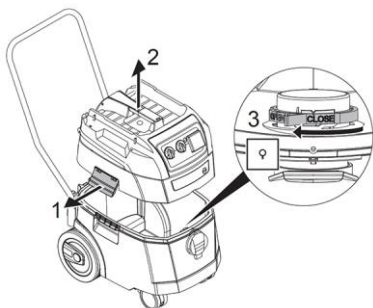
##### 4.6.1 Inserting the non-woven filter bag

- Pull the flange completely over the intake port.



Operation of the rotary valve

- Set the red rotary valve\* inside to CLOSE and turn until it reaches the stop at the mark ▲ .



- Put top part onto container and close lateral locks.

##### 4.6.2 Inserting the PE-discharge and disposal bag

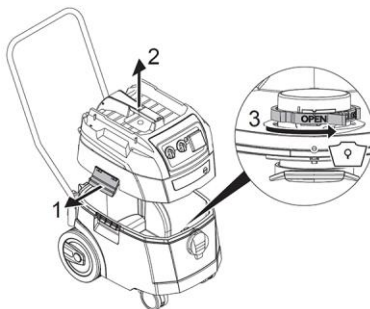


Only dust extractors class M and HEPA with special container and rotary valve in the intake port of types S 35 M and S 35 HEPA are suitable for use with PE-discharge and disposal bags.



Operation of the rotary valve

- Set the red rotary valve\* inside to OPEN and turn until it reaches the stop at the mark ▲ .
- Push flange completely over intake port, place top opening of bag across rim of container.



- Put top part onto container and close lateral locks.

#### 4.7 Emptying the container



Only permissible for dusts with STELs > 1mg/m<sup>3</sup>

Switch off suction device, pull power plug.

- Open locks.
- Remove cover and suction hose from container.
- Tip out container.

## 5 Operation



### Danger

The electrical tool must be switched off when it is connected. When the power plug is plugged in, the socket outlet is always live, irrespective of the switch position. In switch position "0", the socket outlet can be used as extension cord (e.g. for lamp).

Connected load: Dust extractor and connected device max. 16 A.

## 5.1 Switching on and off

### Switch positions 1 (Fig. 1)

- Put plug in socket outlet
- >0< = Dust extractor switched off
- >|< = Dust extractor switched on without vibration function
- >IR< = Dust extractor switched on with automatic vibration function
- >AR< = Dust extractor on standby with automatic vibration function  
Only when the tool is switched on will the dust extractor switch on automatically.  
After switching off the tool, the dust extractor will run on for approx. 10 sec.; this is to prevent any residual amounts remaining in the hose.

- Set dust extractor to switch position >0<.
- Pull power plug when finished.
- For storage purposes, fix the suction tube on the container backplate by inserting it in the accessory depot\*.
- The hose ends can be stuck together to prevent any dirt particles from escaping.



**Preselection switch for minimum volume flow signal (horn and light) on dust extractors class "M".**

In mode >AR< and >IR<, the following setting is made, depending on the hose diameter:

Hose inside diameter	Flow rate
Ø 49 mm	70 m³/h
Ø 35 mm	70 m³/h
Ø 27 mm	40 m³/h
Ø 21 mm	20 m³/h
For options Ø 27 mm and Ø 21 mm, the speed is reduced.	

The dust extractor S 35 M is equipped with an electric suction force regulator. The turning knob 2 can be

used to adapt the suction power to the material to be vacuumed.

- Put power plug of the dust extractor into the socket outlet.
- Place switch for normal mode without vibration function to "I", for normal mode with vibration function to "IR" or for standby mode to "AR".  
✓ Dust extractor is ready for extraction.
- After extraction, put switch to "O".  
✓ Dust extractor is switched off
- Pull power plug of the dust extractor from the socket outlet.
- Clear away mains cable.
- Remove electric tool.

The socket outlet 4 is intended for connection of an electric tool (IR/AR mode).

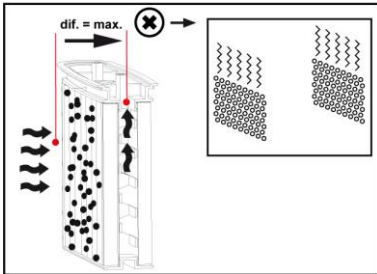
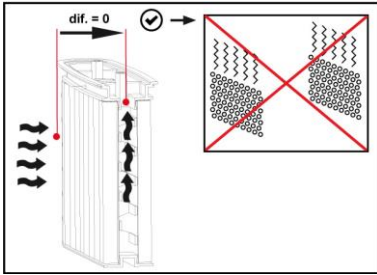
To avoid excessive start-up peaks, the dust extractor is equipped with a starting current limit (soft start).

#### 5.1.1 Permanent filter cleaning

The dust extractor is equipped with an electro-magnet filter cleaning system, that can be used to shake adhering dust off the folded filter cartridges. The folded filter cartridges are cleaned alternatively in succession so that continuous working is guaranteed.



- Constant fill level monitoring of the filters by differential pressure measurement for absolutely accurate need-controlled filter cleaning during operation.
- This guarantees a constantly high air flow during operation, even for critical types of dust.



## 5.2 Hints and information

- When vacuuming dry materials, the folded filter 5 (fig. 2) must be completely dry.
- During wet vacuuming, the built-in sensor prevents the maximum filling level in the container from being exceeded. The device no longer vacuums when the container is full. Switch off motor. Pull the dust extractor plug and empty the container.
- If the sensor responds when vacuuming larger amounts of liquid (more than one container filling), switch off the device and empty the container.
- If the volume flow display 3 (fig. 1) lights up on restart, this may have the following reasons:
  - Container, filter bag 8 (fig. 4) full.
  - Extraction hose clogged.
  - Air cross sections of the dust generator too small.

On completion of work, but especially if you do not intend to use the device for a longer period of time, you should:

- Discharge any dirt and liquids.
- Store the extraction hose such that there are no kinks.
- Neatly reel up the mains cable and protect it against damage.

## 6 Service and maintenance



### Danger

Pull the power plug during all service work.



After longer periods of operation, MAFELL recommends to take the device to an authorised MAFELL customer service shop for inspection.

The storage place must be dry and frost-protected.

If the device fails despite diligent manufacturing and test procedures, the repair must be carried out by an authorised customer service station for MAFELL products.



### Danger

Only use MAFELL accessories and spare parts. Have components, the replacement of which has not been described in this document, replaced at a MAFELL customer service station.

## 6.1 Maintenance

For maintenance by the user, the device must be disassembled, cleaned and serviced as far as this is feasible without causing any danger for the maintenance personnel and other persons.

Suitable precautions include cleaning before disassembly, providing for locally filtered forced venting at the place where the device is disassembled, cleaning the maintenance area and suitable personal protective clothing.

On machines class M, the outside of the machine should be cleaned by means of dust extraction methods and wiped clean or should be treated with sealant before they are removed from the hazardous area.

All machine parts must be considered contaminated if they are removed from the hazardous area and suitable action must be taken to avoid the dust from being dispersed.

Such objects must be disposed of in impervious bags in compliance with the valid regulations for the disposal of such waste.

The method to be applied when removing covers for cleaning purposes from areas that are not dust-tight should also be specified in the operating manual.

## 6.2 Servicing

If the dust extractor's suction performance decreases, and even cleaning the filters 5 (fig. 2) after replacement of the filter bag 8 (fig. 4) does not increase the suction performance any more, the folded filter cartridges 5 (fig. 2) must be renewed.

Usually it is sufficient to clean the folded filter cartridges 5 from time to time, using a soft brush and water. Allow to dry before reinserting, to prevent the dust from clinging to the moist filter.

To avoid heavy soiling of container and filter, remove dry material from the container before vacuuming liquids. Dry suction cleaning only with completely dried-out device. Do not clean container and accessories with abrasive commercial detergents.

Regularly clean the water sensors 13 (fig. 3) and check them for possible damages.

## 7 Troubleshooting



### Danger

Determining the causes for existing defects and eliminating these always requires increased attention and caution. Pull the mains plug beforehand!

Some of the most frequent defects and their causes are listed in the following chart. In case of other defects, contact your dealer or the MAFELL customer service.

Defect	Cause	Elimination
Decreasing extraction performance	Filter soiled	Clean.
	Non-woven filter full	Change.
	Container full	Empty.
	Nozzle, tube or hose clogged	Clean.
Dust extractor does not start	Power plug in socket outlet?	
	Mains de-energised?	
	Mains cable ok?	
	Cover closed properly?	
	Water sensor switched off?	
Dust extractor in standby mode "AR"?	Set to "I" or "IR"	
Dust extractor does not start when the tool is switched on in >AR< mode	Power plug of tool in device socket outlet?	Put power plug in dust extractor socket outlet
PE-discharge and disposal bag is sucked against the filters	Wrong position rotary valve	Check/change position of rotary slide valve
Dust extractors class M or H: dust in container despite fitted non-woven filter	Wrong position rotary valve	Check/change position of rotary slide valve
Level indicator glows	Filter clogged	Insert non woven filter bag Clean or replace filter
	Extraction hose clogged	Remove extracted material from hose
	Container full	Empty container

## 8 Special accessories

- |  |                  |
|--|------------------|
| - Set of filter bags 5 pcs. (25-l non-woven material)                        | Order No. 093719 |
| - Set of disposal bags 5 pcs. (25-l-PE)                                      | Order No. 093721 |
| - 1 pair pleated filter cartridge (cellulose, glass fibre fleece, polyester) | Order No. 093739 |
| - 1 pair pleated filter cartridge (polyester nano-coated)                    | Order No. 093720 |
| - 1 pair pleated filter cartridge (polyester fleece)                         | Order No. 093674 |
| - 4 m extraction hose LW27 machine connection Ø 35 mm antistatic             | Order No. 093684 |
| - 5 m extraction hose LW35 machine connection Ø 35 mm antistatic             | Order No. 093681 |
| - 5 m extraction hose machine connection Ø 49 mm static                      | Order No. 093730 |
| - Manual extraction set  | Order No. 093718 |
| - Reducing adapter Ø 58 / 35   | Order No. 203602 |

## 9 Exploded drawing and spare parts list

The corresponding information in respect of spare parts can be found on our homepage: [www.mafell.com](http://www.mafell.com)