# USER MANUAI STEAM HERO



# **Foreword**

This user guide contains safety tips, relevant information and assistance when using Steam Hero.

It offers support to familiarise with, maintain and care for the device.

Follow this user manual to ensure a long service life and reliable operation of the device.

This user manual is part of the device.

Make sure that this manual is always accessible.

Read this user manual in full before using the device for the first time and re-read it regularly. Make sure that every user of this device knows and implements the user manual.

Some graphic representations may differ from your device.

For better representation, components have been removed or modified in some graphics.

#### .

# Please note

To make reading easier, the masculine form is used in this user manual for personal designations and gender-related nouns. Corresponding terms generally apply to all genders in terms of equal treatment. The shortened and consistent form of expression is solely for editorial purposes and implies neither opinion nor judgement.



# Feedback form

Thank you for your help.

In order to guarantee you a high level of user-friendliness, we are always working on our products and manuals. For this, we need your support.

We would be very happy to receive your feedback.

Simply copy or scan this page and send it to the contact details below.

Feedback		
Assessment	In general, how would you rate th	is manual?
	****	O Excellent
	***	O Very good
		○ Good
	**	O Decent
	*	O Poor
Your data	Company	
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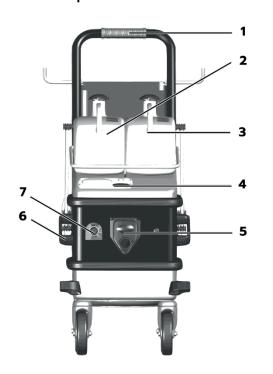


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# 1 Product description

# 1.1 Complete overview of the basic device



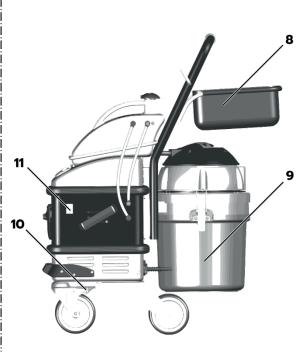


Figure 1.1-1 Complete overview of the basic device

- 1 Handle
- 2 Storage tank
- 3 Hot water module
- 4 Display
- 5 Hose connection
- 6 Carrying handle (both sides)

- 7 Steam regulator
- 9 Suction unit
- 10 Parking brake front wheel (both sides)
- 11 Main switch

# 1.2 Technical Specifications

Name	Unit	Value (including tolerance)
Nominal voltage	V in AC	120
	Hz	60
Overall performance	W	1800
Nominal input of stainless steel	W	1000+700
boiler		
Nominal input of engine	W	1200
Noise development	dB	74.5
Automatic refill system (optional)	I	3.8
Maximal steam temperature	°F	353
Maximal pressure steam	Bar-psi	10-145

Unterdruck	mm H2O	2100
Dirt container holding capacity	I	8
Steam and suction hose	m	3.2
Device length	mm	744
Device width	mm	468
Device height	mm	920
Device weight	kg	26

Table 2.6.1-1 Technical Specifications

# 1.3 Declaration of Conformity

# DICHIARAZIONE DI CONFORMITA' ( CE DECLARATION OF CONFORMITY

Il sottoscritto, rappresentante il seguente costruttore

The undersigned, representative of the following manufacturer

[costruttore] T.P.A. IMPEX S.p.A.

[indirizzo] Piazzetta Albere, ¾, Fellette di Romano d'Ezzelino-VI (ITALIA)

DICHIARA che l'apparecchiatura descritta in appresso:

DECLARES that the product:

Descrizione STEAM AND VACUUM CLEANER

Description

Modello STEAM HERO

Model

è conforme alle disposizioni legislative che traspongono le seguenti direttive:

- direttiva 2014/30/UE (Direttiva EMC)
- direttiva 2006/42/CE (Direttiva macchine)
- direttiva 2011/65/UE (Direttiva RoHS)

is in accordance with the following Directives:

- 2014/30 EU Directive (EMC Directive)
- 2006/42 EC Directive (Machinery Directive)
- 2011/65/UE RoHS Directive

e che sono state applicate tutte le norme e/o specifiche tecniche di seguito indicate and that all the following standards have been applied

EN 60335-2-69:2012, EN 60335-2-79:2012

used in conjunction with EN 60335-1:2012/A15:2021

EN 62233 :2008

EN 55014-1:2017

EN 55014-2 :2015

EN 61000-3-2:2019

EN 61000-3-3:2013/A1:2019

Ultime due cifre dell'anno in cui è affissa la marcatura CE '23

Last two figures of the year of the CE marking

Luogo Romano d'Ezzelino

Place

Data 15.05.2023

Date

T.P.A. IMPEX S.p.A.
Pluzzana Alberg 3-4 Tol. MA4.832777
36066 BOMANO D'EZZELINO (VI)

Firma Sign

(nome e funzione) Giovanni Zen (Certification manager)

Figure 1.3-1 Declaration of Conformity

# 2 Security

# 2.1 Legend of warnings



This warning sign warns of possible dangers.

To avoid death, injury and damage, follow all measures marked with this warning sign without exception.

# The level of danger differs as follows:



#### **DANGER**

Serious injuries or danger to life!

The keyword "Danger" indicates an imminent situation which, if not avoided, will result in serious bodily injury or death.



# **WARNING**

Serious injuries or danger to life possible!

Warning keyword indicates a situation which, if not avoided, could result in death or serious injury.



# CAUTION

Minor or medium bodily injuries!

The keyword "caution" indicates a situation that will result in minor or moderate physical injury if not avoided.

# **ATTENTION**

Property damage!

The keyword "Attention" indicates a situation that will result in property damage, if not avoided.



# 2.2 Legend of symbols

Symbol	Function	
	Prerequisite for action	
	Shows conditions for subsequent actions.	
<b>→</b>	Call to Action	
_	Prompts the operator for an action	
⇒	Action result	
	Shows the result of a previous action.	
_	Count	
	Structures several points of a list.	

Table 2.6.1-1 Legend of symbols



# INFO

Displays useful and helpful information or tips and recommendations.

# 2.3 Warnings



#### **WARNING**

Power supply defect!

Risk of death.

- → Make sure that the power supply of the device is free of defects before each start-up.
- → Touch the device and network connector with dry hands only.



# **WARNING**

Improper handling of electronic devices! Risk of death.

- → Ensure that electrical devices are voltage-free before cleaning.
- → Ensure that electrical devices to be cleaned are not damaged.



# **CAUTION**

Improper handling!

Burns, injuries and property damage.

- → Ensure that all unauthorised persons leave the work area.
- → Direct the steam jet exclusively at the surfaces to be cleaned.
- → Ensure that people and animals are protected from the steam jet.
- → Make sure that the device is switched on and is supervised.
- → Make sure the device is secured against unauthorised use.
- → Ensure that repair work on the device is carried out by authorised specialist personnel only.
- → Only perform maintenance activities described in this manual.
- → Ensure that the device remains technically unchanged.





# CAUTION

Defective components! Injuries.

→ Check the device for proper condition before each use. If the device has defects:

- → Leave the status of the device unchanged.
- Contact beam service centre.

# 2.4 Operating conditions

Operate the device under the following conditions:

- Below normal ambient temperature
- In an environment protected from rain and frost
- On flat and cool ground
- At a sufficient distance from heat sources

# 2.5 Storage conditions

Store the device under the following conditions:

- Freeze-proof environment
- Dry environment
- With separate power supply

# 2.6 Description of user and specialist

# 2.6.1 Personal protective equipment

The personal protective equipment consists of the following components:

Appropriate clothing

# 2.6.2 User

Definition and responsibilities of the user:

- Is of legal age.
- Follows this user guide.
- Works with the device.
- Fills and refills fluids for work.



- Cleans and maintains the device.
- Performs the maintenance activities described.
- Before use, ensures that the device is in working order.
- Reports defects to the operator or directly to beam GmbH.

# 2.6.3 Specialist

#### Definition and responsibilities of the specialist:

- Follows this user guide.
- Repairs the device.
- Repairs and documents defects.
- Has the necessary qualification to carry out repairs.
- Is authorised by beam GmbH.

# 2.6.4 Operator

# Definition and responsibilities of the operator:

- Makes the device available for work.
- Ensures that this manual is always accessible.
- Ensures that the operator knows and implements the user manual.
- Provides additional protective equipment that may be required.
- Ensures that maintenance and care intervals are followed.

# 2.6.5 Intended use

The beam Steam Hero is used for environmentally friendly cleaning of a wide variety of materials and surfaces with clear water.

# To ensure proper use, comply with the following points:

- Follow the user manual
- Carry out maintenance work
- Carry out servicing activities

#### 2.6.6 Foreseeable Misuse

#### Use of the device is prohibited for the following purposes:

- to heat various objects or materials
- to clean skin, hair, people or animals
- to hit
- to leverage
- to scratch
- to pick up explosive or flammable substances
- to clean live components
- to clean moisture-sensitive electronic devices
- to clean materials containing asbestos
- to clean materials harmful to health

# 2.6.7 Disposal

#### Dispose of the device and device components as follows:

- Ensure that individual components are properly disposed of at the end of their useful life.
- Ensure that the device is properly disposed of at the end of its useful life.
- Ensure that country-specific waste regulation guidelines are complied with.
- Ensure that all consumables are removed prior to disposal.



# 3 Service and operation

# 3.1 Updates and Changes

Update and change	Chapter	Link
Declaration of Conformity	1.3	Declaration of Conformity

Table 2.6.7-1 Updates and changes

# 3.2 Prepare device



CAUTION Improper lifting of the device! Injuries.

- → Make sure your back and spine are protected when lifting.
- → If necessary, get a second person to help.

# 3.2.1 Assembling the handle

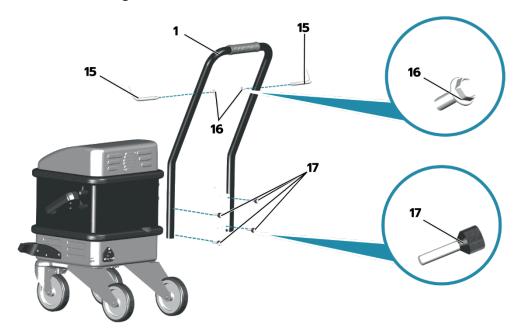


Figure 3.2-1 Assembling the handle

1 Handle15 Holder (both sides)

- 16 Screw holder (2x)
- 5 Holder (both sides) 17 Screws handle (4x)

# Ensure that the following components are available:

- Screw holder 16
- Screws handle 17
- Handle 1
- Holder 15
- → If necessary, get a second person to help.
- → Bring handle 1 in position.
  - ⇒ Accessory box faces backwards.
- → Screw screws in handle 17 with handle 1 and tighten.
  - ⇒ Handle 1 is assembled.
- → Insert holder 15 into handle 1.
- → Screw screws 16 into holder 15 and tighten.
  - ⇒ Holders **15** are assembled.

# 3.2.2 Assembling the hot water module holder and storage tank

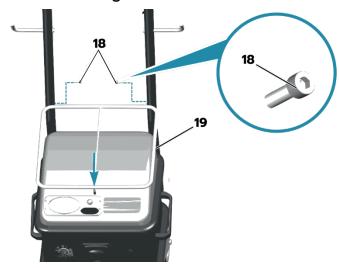


Figure 3.2-2 Assembling the hot water module holder and storage tank

**18** Screws (2x) **19** Holder

# Ensure that the following components are available:

- Screws 18
- Bracket 19
- → Bring holder **19** into position on the handle.
- → Screw in screws 18.
- → Make sure that holder 19 rests on the device.
- → Tighten screws 18.
  - ⇒ Bracket **19** is assembled.

# 3.2.3 Connecting the hot water module and storage tank

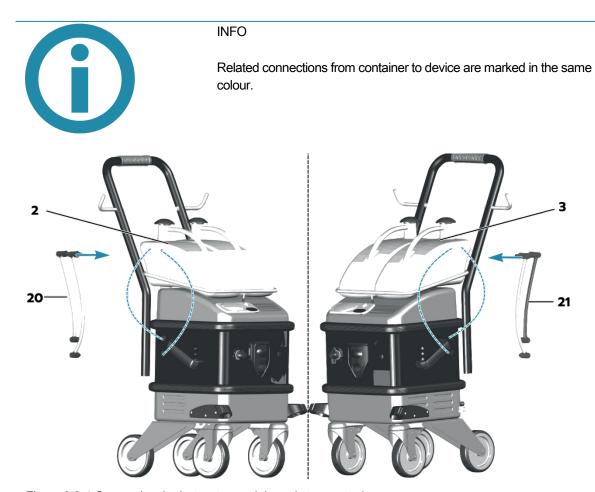


Figure 3.2-4 Connecting the hot water module and storage tank

Storage tank
Hot water module
Storage tank hoses
Hot water module hoses

# Ensure that the following components are available:

- Storage tank 2
- Hot water module 3
- Hoses 20
- Hoses 21
- → Insert storage tank 2 and hot water module 3 correctly into holder 19.
- → Insert hose 20 correctly into storage tank 2: Connection from the storage tank opening on the left to the device opening at the top.
- → Insert hose 20 correctly into storage tank 2: Connection from the storage tank opening on the right to the device opening at the bottom.
  - ⇒ Storage tank is connected.
- → Insert hose 21 correctly into hot water module 3: Connection of hot water module opening on the right to the device opening on the top.
- → Insert hose 21 correctly into hot water module 3: Connection of hot water module opening on the left to the device opening at the bottom.
  - ⇒ The hot water module is connected.



# 3.3 Commissioning

# 3.3.1 Establish power supply

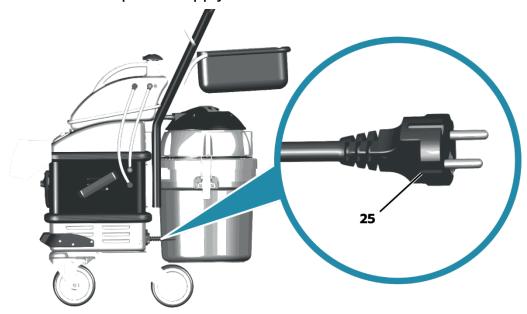


Figure 3.3-1 Establish power supply

# 25 Safety plug

# ATTENTION

Faulty power supply!

Property damage.

- → Make sure that the mains voltage of the socket corresponds to the nominal voltage of the device.
- → For detailed information see 1.2 Technical Specifications.
- → Plug the safety plug 25 into the socket.

# 3.3.2 Fill the storage tank and hot water module



Figure 3.3-2 Filling the storage tank and hot water module

2 Storage tank30 Fastener3 Hot water module31 Fastener

# 3.3.2.1 Fill storage tank

# ATTENTION

Filling medium not allowed! Damage to device!

→ Only use tap water.

- → Open and remove fastener 30 on storage tank 2.
- → Fill with tap water.
- → Attach fastener 30 to storage tank 2 and close.

# 3.3.2.2 Fill hot water module

# **ATTENTION**

Filling medium not allowed!

Damage to device!

→ Use tap water.

If tap water is very calcareous:

- → Use pre-filter for decarbonisation.
- Brita filter cartridge
- → Open and remove fastener 31 on hot water module 3.
- → Fill with tap water.



→ Attach fastener 31 to hot water module 3 and close.

-

# 3.3.3 Suction unit and filter tank



Figure 3.3-3 Suction unit and filter tank

9 Suction unit
36 Filter tank lock (both sides)
34 Suction unit switch
37 Filter tank

35 Locking bracket (both sides)

# The intake volume of the filter tank 37 is made up as follows:

Name	Unit	Value (including tolerance)
Recording volume with polyester filter	Litre	8
polyester litter		

Table 3.3.3-1 Intake volume

# 3.3.3.1 Remove filter tank

- → Secure filter tank 37 against accidental falling.
- → Open lock 35 on both sides.
- → Unhook locking bracket 36 on both sides.
  - ⇒ Filter tank **37** can be removed downwards.

# 3.3.3.2 Remove polyester filter

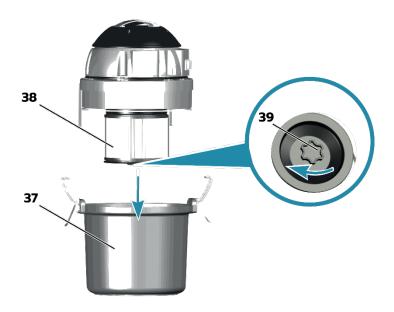


Figure 3.3-4 Remove polyester filter

37 Filter tank 39 Star screw

38 Polyester filter



# INFO

If only liquid is sucked up:

- → Loosen and remove polyester filter 38 professionally.
- → Make sure that the polyester filter 38 is used correctly when the work process is finished.
- → Secure filter tank 37 against accidental falling.
- → Open lock 35 on both sides.
- → Unhook locking bracket **36** on both sides.
  - ⇒ Filter tank **37** can be removed downwards.
- → Unscrew star screw 39 professionally.
- → Remove polyester filter 38 downwards.

# 3.3.4 Steam and suction hose

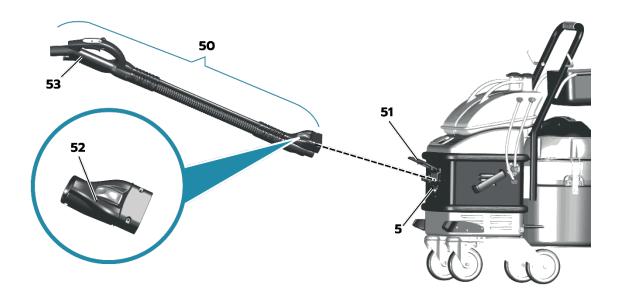


Figure 3.3-4 Steam and suction hose

5	Hose connection	52	Unlocking button
50	Steam and suction hose	53	Hand control unit
51	Cover		

# 3.3.4.1 Connect steam and suction hose

- → Open cover **51** and keep it open.
- → Insert steam and suction hose 50 into hose connection 5 and snap into place.
- → Ensure that the steam and suction hose **50** is engaged.
  - ⇒ Steam and suction hose **50** is connected.

# 3.3.4.2 Remove steam and suction hose

- → Press and hold the release button 52.
- → Detach steam and suction hose 50.
  - ⇒ Steam and suction hose **50** is removed.

# 3.3.5 Accessories

# **ATTENTION**

Sensitive surfaces!

Damage.

→ Ensure that the amount of steam, water and accessories are adjusted to the surface to be cleaned.





#### INFO

Spare parts and accessories.

→ Order spare parts and accessories in the online shop.



# INFO

Maintenance and Care.

To ensure function and long service life, observe the following points:

- → Check accessories regularly to ensure they are in perfect condition.
- → Easier to change accessories: Wet plug connections with a suitable lubricant or silicone agent.

#### 3.3.5.1 Accessories on hand control unit



Figure 3.3-5 Unlocking button

# 54 Unlocking button

# Insert accessories:

- → Insert accessories professionally.
- → Make sure release button **54** is locked in place.

#### Remove accessories:

- → Press and hold the release button **54**.
- → Remove accessories.

The following accessories can be attached directly to hand control unit 53:



- Extension tube
- Extraction nozzle wide
- Extraction nozzle narrow
- Adapter with floor nozzle
- Point jet nozzle

Attachment	Name	Field of use
	Extension tube (double extension possible)	Extension between hand control unit and selectable attachments



Attachment	Name	Field of use
	Extraction nozzle wide without attachment	<ul><li>Pad</li><li>Mattresses</li><li>Carpets</li></ul>
	Extraction nozzle narrow without attachment	<ul> <li>Pad,</li> <li>Mattresses</li> <li>Carpets</li> <li>Car seats</li> <li>Vehicle interior cleaning</li> <li>Foot mats</li> </ul>
	Adapter for floor nozzle	Connects hand control to floor nozzle or extension tube to floor nozzle  Make sure that the lock on the adapter is closed after plugging it in.
	Floor nozzle	Requires one of the following missions:  Use rubber lip  Use brush  Use rubber lip with brush  See 3.3.5.4 Accessories on floor nozzle.  Make sure the adapter is plugged in.
THUMBURY .	Point jet nozzle	Spot jet nozzle can be combined with the following attachments:  - Round brush set small  - Round brush large  - Corner brush  - Crevice nozzle narrow  → See 3.3.5.5 Accessories on point jet nozzle.

Table 3.3.5-1 Accessories on hand control unit

# 3.3.5.2 Accessories on extraction nozzle wide

# **ATTENTION**

Sensitive parquet floors and laminate floors!

Damage.

If rubber lip attachment is used:

- → Select MIN steam setting.
- → Make sure hot water module is disabled.
- → Only use the brush attachment on non-sensitive surfaces.



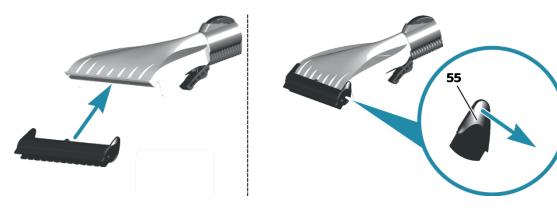


Figure 3.3-6 Use attachment

# 55 Bracket (both sides)

#### Attach attachment:

- → Attach the attachment to the extraction nozzle as shown.
- → Make sure tabs **55** on extraction nozzle are snapped into place.

# Remove attachment:

→ Unlock tabs **55** and remove attachment.

# The following accessories can be attached directly to the extraction nozzle:



- Silicone lip with brush attachment
- Rubber lip attachment
- Brush attachment

Attachment	Name	Field of use
	Silicone lip with brush attachment	<ul><li>Glass surfaces</li><li>Store window</li><li>Window</li><li>Mirror</li></ul>
	Rubber lip attachment	Hard floors like:  - Tiles, granite, marble  - Wooden floors  - PVC  - Laminate
	Brush attachment	Pre-cleaning of heavily soiled surfaces such as:  - Rubber floor mats  - Plastic floor mats



# 3.3.5.3 Accessory on extraction nozzle narrow

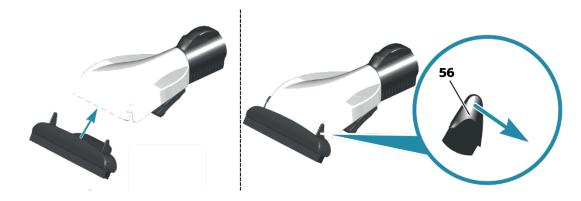


Figure 3.3-7 Use attachment

# 56 Bracket (both sides)

# Attach attachment:

- → Attach the attachment to the extraction nozzle as shown.
- → Make sure tabs **56** on extraction nozzle are snapped into place.

# Remove attachment:

→ Unlock tabs **56** and remove attachment.

The following accessories can be attached directly to the narrow extraction nozzle:



- Silicone lip with brush attachment
- Rubber lip attachment
- Nylon brush attachment

Attachment	Name	Field of use
	Silicone lip with brush attachment	<ul><li>Glass surfaces</li><li>Window</li><li>Mirror</li></ul>

Attachment	Name	Field of use	
	Rubber lip attachment	Almost all surfaces such as:  - Window frames, window sills  - Room doors  - Kitchen cabinets  - Plastic parts	
	Nylon brush attachment	Pre-cleaning of heavily soiled surfaces such as:  - Rubber floor mats - Plastic floor mats - Window rubber	

Table 3.3.5-3 Accessories on extraction narrow nozzle

# 3.3.5.4 Accessories on floor nozzle

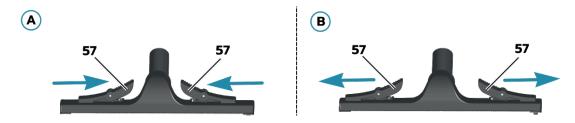


Figure 3.3-8 Open and close the attachment

57 SkidA ClosedB Open

# Open lock:

→ Skid 57 outwards on both sides into open position B.

# Close lock:

→ Skid **57** inwards on both sides into closed position **A**.



Picture 3.3-9 Attachment and adapter

58 Adapter 59 Locking sleeve

# Attach adapter and attachment:



- → Insert adapter 58 into the floor nozzle properly.
- → Turn locking sleeve **59** 90 degrees clockwise.
  - ⇒ Adapter **58** is locked.
- → Open lock: See Figure 3.3-8 Open and close the attachment.
- → Attach the attachment professionally.
- → Close lock: See Figure 3.3-8 Open and close the attachment.

# Remove adapter and attachment:

- → Turn the locking sleeve **59** 90 degrees counterclockwise.
  - ⇒ Adapter **58** is unlocked.
- → Remove adapter 58.
- → Open lock: See Figure 3.3-8 Open and close the attachment.
- → Remove attachment properly.

# The following accessories can be attached directly to the floor nozzle:



- Rubber lip attachment
- Brush attachment
- Glide attachment

Attachment	Name	Field of use	
	Adapter for floor nozzle	→ Make sure that the lock on the adapter is closed after plugging it in.	
	Rubber lip attachment	Hard floors like:  - Tiles, granite, marble  - Gastro or industrial floors  - Wooden floors  - PVC  - Laminate	
	Brush attachment	Pre-cleaning of heavily soiled surfaces such as:  - Rubber mats - Plastic mats - Foot mats	
	Glide attachment	Carpeted floors     Mats     Vacuum dry	



# 3.3.5.5 Accessories on point jet nozzle

# **ATTENTION**

Sensitive surfaces!

# Damage.

- → Only use round brushes and corner brushes on non-sensitive materials.
- → Ensure that use on glass surfaces is excluded.



Figure 3.3-10 Use attachment

# Attach attachment:

→ Attach the attachment to the point jet nozzle as shown in the illustration.

# Remove attachment:

→ Pull off the attachment.

The following accessories can be attached directly to the point jet nozzle:



- Round brush
- Corner brush
- Crevice nozzle with silicone attachment

Attachment	Name	Field of use	
	Round brush set small	<ul> <li>Improvement in cleaning of stubborn dirt</li> </ul>	



Attachment	Name	Field of use	
	Round brush	Improvement in cleaning of stubborn dirt	
	Corner brush	Improvement in cleaning of stubborn dirt     Hard-to-reach corners	
	Crevice nozzle narrow	- Spot suction	
	with silicone attachment	- Vacuum dry	

Table 3.3.5-5 Accessories on spot jet nozzle

# 3.4 Operation

# ATTENTION

Sensitive materials!

#### Damage

- → Before working with the steam function, ensure that the following materials are tested for compatibility on a hidden area:
- Silicone
- Adhesive
- Waxed surfaces
- Polished surfaces
- Lacquered surfaces
- Leather
- Alcantara
- Velour
- → Only start with the lowest functional level.
- → Preheat cold glass surfaces at a distance of 30 cm.



# 3.4.1 Turn on the device

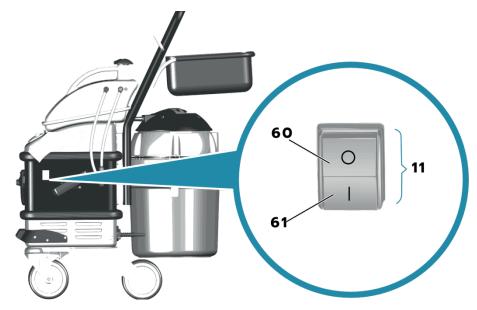


Figure 3.4-1 Switch on the device

- 11 Main switch
- 60 Switch position OFF

61 Switch position ON

Ensure that the following requirements are met:

- Power supply is established.
- Steam and suction hose is connected.
- Suction unit switch **34** is switched on.
- → Set the main switch 11 to the ON position 61.
  - ⇒ Main switch **11** lights up.

# 3.4.2 Display

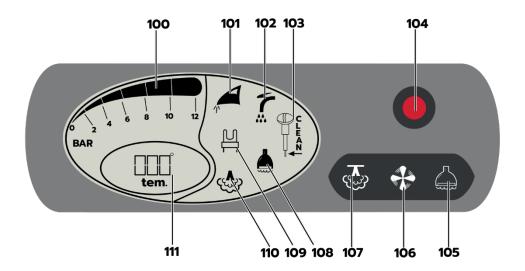


Figure 3.4-2 Display

100	Display pressure	106	Suction button
101	Inactive icon	107	Steam button
102	Water shortage icon	108	Hot water module icon
103	Maintenance indicator	109	Heating icon
104	Control light	110	Steam icon
105	Extract button	111	Status display



INFO Factory setting.

Display switches to energy-saving mode after 10 seconds of inactivity. Display shows status OFF.

# 3.4.2.1 Overview display

Position	Name of the item	Function	
100	Display pressure	Shows current operating pressure in bar.	
101	Inactive icon	Icon has no function.	
102	Water shortage icon	Flashes when the water level in the storage tank 2 has	
		fallen below.	
103	Maintenance indicator	Only active in combination with error code E05.	
104	Control light	Lights up during the suction process.	
		The colour of the control lamp changes according to the set suction power as follows:	
		Green corresponds to minimum suction power	
		Orange corresponds to medium suction power	
		Red corresponds to maximum suction power	
105	Extract button	Pressing extract button changes flow rate.	
		Display shows set flow rate as follows:	
		- LO	
		– ME	
		- H	
106	Suction button	Pressing the suction button activates or deactivates the	
		suction function.	
		Press and hold to change suction power.	
107	Steam button	Pressing the steam button activates or deactivates the	
		heating process for the steam function.	
108	Hot water module icon	Lights up when the hot water module is active.	
109	Heating icon	Flashes during heating process.	
110	Steam icon	Lights up when the steam function is active.	
111	Status display	Shows current status as follows:	
		Operating temperature	
		<ul> <li>Error message</li> </ul>	

Table 3.4.2-1 Overview display



# 3.4.3 Functions



# INFO

Individual functions and function combinations

The suction function can be used as an individual function.

The steam function can be used as a single function.

The hot water and steam functions can be used at the same time.

The suction and steam functions can be used at the same time.

The suction, hot water and steam functions can be used at the same time.

→ Select function and combination according to application.

# 3.4.4 Activate the steam function

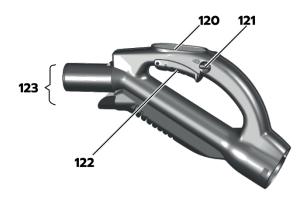


Figure 3.4-3 Activate the steam function

120 Control panel121 Safety button

122 Trigger lever

123 Connection accessories



# CAUTION

Escaping hot steam!

Injuries.

→ Ensure that people and animals are protected from the steam jet.



# CAUTION

Improper use! Injuries.

→ Ensure that locking button 121 is locked when not in use.



#### INFO

Manufacturer's recommendation.

Drops of water escaping after the first heating-up phase.

→ Direct steam onto suitable collection medium until steam flow is even.

# Ensure that the following requirements are met:

- Storage tank 2 is full
- Device is switched on.
- Steam and suction hose **50** is plugged in.
- → Press the steam button 107.
  - ⇒ Device heats up.
  - ⇒ Heating symbol 109 flashes.
  - ⇒ Display pressure **100** shows current operating pressure.
  - ⇒ Display status **111** shows current operating temperature.

# Heating symbol 109 flashes until it is operational.

- → Unlock safety button 121.
- → Test sensitive materials on an small or hidden area.
- → Press trigger lever 122.
  - ⇒ Steam escapes from connected accessories.
- → Stop steam outlet: Release the trigger lever 122.
- → Change amount of steam: Turn the steam regulator 7 until the required amount is reached.
- → Lock safety button 121.

# Change amount of steam:



Figure 3.4-4 Set the amount of steam

- 7 Steam regulator
- Small amount of steam

Large amount of steam

# 3.4.4.1 Deactivate the steam function

→ Press the steam button 107.

# 3.4.5 Activate the hot water function

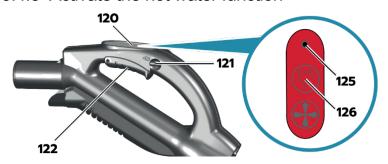


Figure 3.4-5 Activate the hot water function

120 Control panel
121 Safety button
122 Trigger lever
125 Control light
126 Hot water button

#### **ATTENTION**

Sensitive materials! Property damage.

→ Only use hot water on non-sensitive materials.



#### INFO

Heavy contamination.

The flushing effect of the hot water with steam increases the cleaning performance.

Ensure that the following requirements are met:

- Device is switched on.
- Hot water module 3 is filled.
- Steam and suction hose **50** is plugged in.
- → Press the steam button 107.
  - ⇒ Device heats up.
- → Press the hot water button 126 on the hand control unit.
  - ⇒ Hot water module symbol 108 lights up on the display.
  - ⇒ Control lamp 125 on control panel 120 lights up.
- → Unlock safety button 121.
- → Test sensitive materials on an small or hidden area.
- → Press trigger lever 122.
  - ⇒ Steam and hot water escape from connected accessories.
- → Stop the outlet: Release the trigger lever 122.
- → Lock safety button 121.
- → Change flow rate: Press Extract button 105 on the display until the required flow rate is displayed.



# The flow rate is shown on the display as follows:

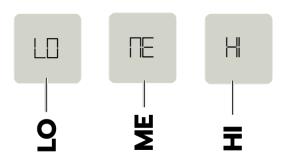


Figure 3.4-6 Set flow rate

LO Small flow rate HI Large flow rate

ME Medium flow rate

#### 3.4.5.1 Deactivate the hot water function

- → Press the hot water button 126.
  - ⇒ Hot water outlet stops.
  - ⇒ Control lamp 125 on the hand control unit goes out.
  - ⇒ The steam function remains active.

# 3.4.6 Activate the suction function

# **ATTENTION**

Improper use of the polyester filter!

Damage.

If only dry vacuuming is used:

→ Make sure that polyester filter **38** is inserted correctly.

If vacuuming is damp or wet:

→ Make sure that polyester filter 38 is removed before starting work.

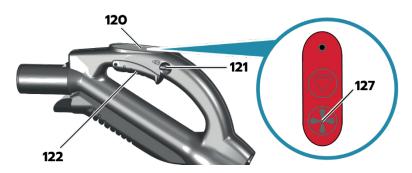


Figure 3.4-7 Activate the suction function

120Control panel122Trigger lever121Safety button127Suction button

Ensure that the following requirements are met:

- Device is switched on.
- Polyester filter 38 is inserted.
- Filter tank 37 is inserted.
- Steam and suction hose **50** is plugged in.
- → Press the suction function button 127 on the hand control unit.
  - ⇒ The device vacuums.
- → Change suction power: Press and hold the suction button **106** on the display.

# Suction power is shown on the display as follows:

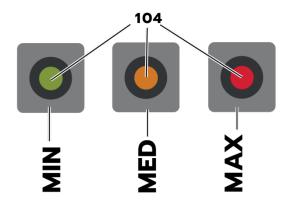


Figure 3.4-8 Set the suction power

104 Control lightMIN Small suction power

MED Medium suction powerMAX High suction power

# 3.4.6.1 Deactivate suction function



# INFO

Residual liquid in the suction line.

- → Leave the suction function activated for 30 seconds after the suction process is complete.
  - ⇒ Residual liquid is sucked into filter tank 37.
- → Ensure that the residual liquid in the suction line has been sucked out.
- → Press the suction function button 127.
  - ⇒ Device stops suction process.



# 3.5 Decommissioning

# 3.5.1 Prepare for decommissioning



#### INFO Storage.

- → Ensure filter cap 37 on filter tank 9 is removed.
- → Ensure that the storage location is frost-free and adequately ventilated.
- → Empty filter tank 37.
- → Insert the empty filter tank 37.

#### 3.5.2 Clean attachments

#### 3.5.2.1 Clean steam and suction hose and accessories

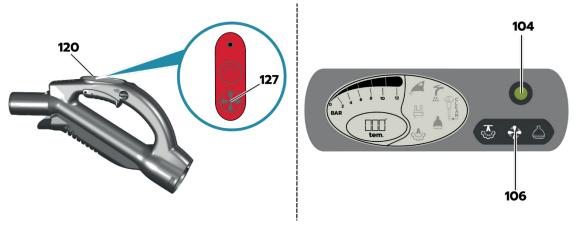


Figure 3.5-1 Clean the steam and suction hose and accessories

104 Control light106 Suction button120 Control panel127 Suction button



#### INFO

Heavy foam formation.

If the rinsing process foams a lot:

→ Repeat the rinsing process with clear water.

Ensure that the following requirements are met:

- Filter tank 37 is empty.
- Detergent is prepared.



#### INFO

Cleaning the steam and suction hose and accessories with detergent.

→ Use 2 litres of mildly alkaline detergent.



#### INFO

Cleaning the steam and suction hose and accessories with disinfectant.

- → Use VAH-listed surface disinfectants based on peroxides.
- → Follow the exposure times specified by the manufacturer.
- → Set suction power: Press and hold suction button 106 on the display until the indicator lamp 104 lights up green.
  - ⇒ MIN suction level is set.
- → Press the suction function button 127 on the hand control unit.
  - ⇒ The device vacuums.
- → Suck cleaning agents or disinfectants completely with used accessories and the steam and suction hose.
  - ⇒ The steam and suction hose and accessories have been cleaned.
- → Deactivate suction function.
- → See 3.4.6.1 Deactivate suction function.
- Make sure all features are disabled.
- → Turn off the device.
- → Disconnect power supply.
- → Empty the filter tank 37.
- → Remove accessories and let dry.
- → Unplug the steam and suction hose and let them dry.
- → See 3.3.4.2 Remove steam and suction hose.

3.5.2.2 Clean filter tank and clean polyester filter

Ensure that the following requirements are met:

- Filter tank 37 is removed.
- → Empty and rinse filter tank 37.
- → Remove polyester filter 38.
- → Rinse polyester filter 38 under clean water.
- → Make sure polyester filter 38 and filter tank 37 are completely dry before reinstalling.

#### 3.5.3 Storage



#### INFO

Storage.

- → Ensure filter cap 37 on filter tank 9 is removed.
- → Ensure that the storage location is frost-free and adequately ventilated.



# 3.6 Malfunctions

# 3.6.1 Error codes on display

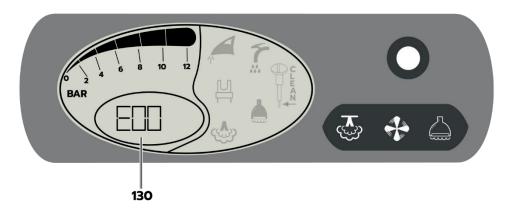


Figure 3.6-1 Error codes on display

#### 130 Error code display

Error code 130 display shows the error code that has occurred.

- → Check error code according to table. See 3.6.1.1 Error codes.
- → Follow table instructions.

If error message is still active after troubleshooting:

#### 3.6.1.1 Error codes

Error code	Acoustic warning signal	Description	Troubleshooting
E01	Yes	Water level in storage tank <b>2</b> too low.	<ul><li>→ Fill up storage tank 2.</li><li>→ See 3.3.2.1 Fill storage tank.</li></ul>
E03	Yes	Boiler pump supply out of order	<ul> <li>→ Reboot device.</li> <li>If error message persists:</li> <li>→ Contact the beam service centre.</li> </ul>
E05	Yes	Boiler is calcified. Steam system is calcified.	→ Descale the device. See 4.3.2 Descale the boiler.
E07	Yes	Boiler temperature is too high.	<ul> <li>→ Let the device cool down.</li> <li>If an error message occurs repeatedly:</li> <li>→ Contact the beam service centre.</li> </ul>
E12	No	Temperature for descaling programme is too high.	<ul><li>→ Let the device cool down.</li><li>→ Restart the descaling programme.</li></ul>
E13	Yes	The descaling programme is ready for the rinsing process.	<ul> <li>→ Follow the instructions to descale the boiler.</li> <li>→ See 4.3.2 Descale the boiler.</li> </ul>



FLU	No	Flushing process is active.	<b>→</b>	Wait until the rinsing process is finished.
END	Yes	Rinsing process is finished.		Prepare for commissioning after descaling. See 4.3.2.4 Commissioning after decalcification.

Table 3.6.1-1 Error Codes

#### 3.6.2 Malfunctions

Error image	Possible Cause	Troubleshooting	
Unit produces little or no steam. The appliance produces little hot water or no hot water.	Hot water module 3 is calcified.	<ul><li>Descale hot water module</li><li>3.</li><li>See 4.2 Hot water module.</li></ul>	
Steam is very humid.	Hot water module 3 is active.	<ul> <li>→ Press the hot water button</li> <li>126.</li> <li>→ See 3.4.5.1 Deactivate the hot water function.</li> </ul>	
Hot water without function.	Hot water module 3 is disabled.	<ul> <li>→ Activate hot water module</li> <li>3.</li> <li>→ See 3.3.2.2 Fill hot water module.</li> </ul>	
Vacuum without function	Switch for suction unit <b>34</b> is switched off	→ Switch on the switch for suction unit 34.	
Low suction or no suction	Foreign objects or dirt accumulation in the steam and suction hose or accessories.	<ul> <li>→ Clean steam and suction hose.</li> <li>→ Clean accessories.</li> <li>→ See 3.5.2 Clean attachments.</li> </ul>	
Device stops	Error code has occurred.	<ul><li>→ See 3.6.1.1 Error codes.</li><li>→ Follow instructions.</li></ul>	

Table 3.6.2-1 Malfunctions

# 3.6.3 Safety precautions



WARNING Improper use! Risk of death.

- → Ensure that the device is used in compliance with the user manual.
- → Ensure that the intended use and safety chapters are followed.



**INFO** 

The following situations relate exclusively to safety precautions when the device is active.

The following safety precautions relate exclusively to the device in this user

Safety precautions are automatically activated when appropriate situations arise.



Situation when the device is active	Safety precaution	Remedial action	
<ul> <li>Steam and suction hose 50 is removed.</li> <li>Steam and suction hose 50 comes loose due to improper locking.</li> </ul>	The following safety precautions are active:  - Contact switch is contactless.  - Suction function stops.  - Steam function stops.  - Hot water function stops.	<ul> <li>→ Plug in the steam and suction hose 50 properly.</li> <li>→ See 3.3.4.1 Connect steam and suction hose.</li> </ul>	
<ul><li>Power supply is interrupted.</li><li>Accidental unplugging</li><li>Power failure</li></ul>	The following safety precautions are active:  The device is in start mode after the power supply has been restored.  All functions are disabled.	→ Select functions again.	
Trigger 122 on manual control unit 53 is not pressed.	The following safety precautions are active:  - Contact switch is contactless.  - Steam function is locked.	→ Press trigger lever 122.	
<ul><li>Storage tank 2 is opened.</li><li>Hot water module 3 is opened.</li></ul>	Depressurised system ensures safe opening.	<ul><li>→ Fill storage tank 2.</li><li>→ Fill hot water module 3.</li></ul>	

Table 3.6.3-1 Safety Precautions

# 4 Maintenance



# %

#### RECOMMENDATION

Yearly maintenance

Recommends annual maintenance in the service centre.

- → Contribute to the ongoing reliability of your device.
- → Send the device to the service centre once a year.
  - ⇒ Receive a 5% discount on all maintenance-related spare parts.

# 4.1 Document maintenance

Activity		Date	Remark	Name of maintenance personnel
	Hot water module			
	Boiler			
	O-rings			
	Filter			
	Miscellaneous			
	Hot water module			
	Boiler			
	O-rings			
	Filter			
	Miscellaneous			
	Hot water module			
	Boiler			
	O-rings			
	Filter			
	Miscellaneous			
	Hot water module			
	Boiler			
	O-rings			
	Filter			
	Miscellaneous			
	Hot water module			
	Boiler			
	O-rings			
	Filter			
	Miscellaneous			

Table 3.6.3-1 Document maintenance



### 4.2 Hot water module



#### INFO

Calcification caused by use.

→ Prevent operational disruptions caused by limescale deposits: Descale the hot water module regularly.

#### 4.2.1 Rinse the hot water module



#### CAUTION

Improper use of descaler! injuries and property damage.

- → Ensure that the manufacturer's safety instructions are followed.
- → Ensure that accidental drops on surface are removed immediately.



#### INFO

Location-dependent water hardness.

→ Adjust the descaling interval according to the local water hardness.



Figure 4.2-1 Rinse the hot water module

3 Hot water module

31 Fastener



#### INFO

Recommends:

durgol descaling agent

→ Order descaler in the online shop.

Ensure that the following requirements are met:

- Power supply is disconnected.
- Measuring cup ready.
- A suitable collection container is available.
- Vinegar essence or descaler is ready.
- Steam and suction hose 50 is connected.
- → Empty hot water module 3 completely.
- → Mix 0.3 litres of vinegar essence or descaler with 0.3 litres of tap water in a measuring cup.
- → Remove fastener 31 on hot water module 3.
- → Pour the mixture from the measuring cup completely into hot water module 3.
- → Establish power supply.
- → Turn on the device.
- → Press Extract button 105 on Display.
- → Press the hot water button 126 on the hand control unit.
  - ⇒ Control lamp 125 lights up.
  - ⇒ Display status 111 shows COL.
- → Unlock safety button 121 on hand control unit.
- → Squirt the complete mixture into a collection container.
- → Press trigger 122 on the manual control unit.
- → Repeat the process until no more lime comes out.
- → Dissolve heavy limescale deposits: Increase exposure time.
  - ⇒ Hot water module 3 has been rinsed.
- → Fill the hot water module 3 with 1 litre of tap water.
- → Rinse the device: Splash the tap water completely into the collection container.
- → Deactivate the hot water function. See 3.4.5.1 Deactivate the hot water function.
- Turn off the device.

#### 4.3 Boiler



#### INFO

Calcification caused by use.

→ Prevent operational disruptions caused by limescale deposits: Descale the boiler regularly.

If the steam output decreases or there are lime particles in the accessories:

→ Prefer decalcification.





CAUTION

Hot water!

Scalds and injuries.

→ Ensure the boiler has cooled down to below 50°C before descaling.



Figure 4.3-1 Empty storage tank

#### 2 Storage tank

30 Fastener

Ensure that the following requirements are met:

- Boiler temperature is below 50°C
- Power supply is disconnected.
- A suitable collection container is available
- The collection container has a capacity of around 2 litres.
- Steam and suction hose **50** is removed.
- → Empty storage tank 2 completely.

#### 4.3.2 Descale the boiler



#### CAUTION

Chemical descaler and vinegar essence! injuries and property damage.

- → Ensure that the manufacturer's safety instructions are followed.
- → Ensure that accidental drops on surface are removed immediately.

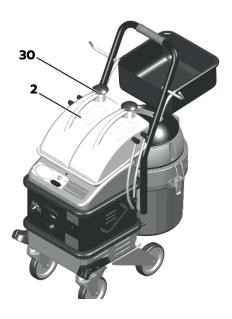


Figure 4.3-2 Fill in descaler

2 Storage tank

30 Fastener



#### INFO

Recommends:

durgol descaling agent

→ Order 1 litre of descaler in the online shop.

#### 4.3.2.1 Start cleaning the boiler



#### **CAUTION**

Cancellation of the cleaning programme! injuries and property damage.

- → Ensure that the power supply is permanently available during the cleaning process.
- → Turn off the device only after performing the actions at 4.3.2.3 Rinse the boiler

Ensure that the following requirements are met:

- Power supply is disconnected.
- Measuring cup ready.
- A suitable collection container is available.
- 1 litre descaler is ready.
- Steam and suction hose 50 is removed.
- → Remove fastener 30 on storage tank 2.
- → Pour the descaler completely into storage tank 2.



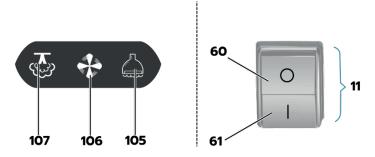


Figure 4.3-3 Start the descaling programme

11	Main switch	105	Extract button
60	Switch position OFF	106	Suction button
61	Switch position ON	107	Steam button

- → Make sure that the main switch 11 is in the OFF 60 position.
- Establish power supply.
- → Press and hold buttons 105, 106, 107 simultaneously.
- → Set the main switch 11 to the ON position 61.
  - ⇒ Message E13 is shown on the display.
  - ⇒ Acoustic signal sounds.
  - $\Rightarrow$  Descaling programme has been selected.
- → Confirm the programme with steam button 107.
  - ⇒ Display status **111** shows CLN.
  - ⇒ The descaling programme runs for around 20 minutes.
  - ⇒ At the end of the programme, the display shows FLU.
- → Empty the boiler. See 4.3.2.2 Empty the boiler.

#### 4.3.2.2 Empty the boiler



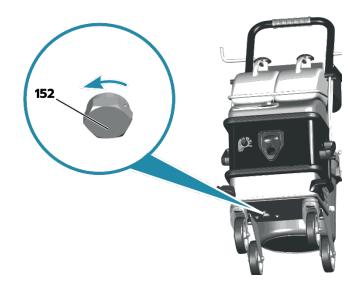


Figure 4.3-4 Empty the boiler

2 Storage tank

152 Drain plug

#### 30 Fastener

Ensure that the following requirements are met:

- Boiler has cooled down
- Device is switched on.
- A suitable collection container is available
- A suitable tool for drain plug boiler **152** is available
- → Ensure that the device is permanently switched on during the descaling programme.
- → Place a container under boiler drain plug 152.
- → Open boiler drain plug 152 anti-clockwise and remove.
  - ⇒ Boiler empties itself.

When the boiler is completely empty:

- → Unscrew the drain plug for the boiler **152** and tighten properly.
- → Empty storage tank 2 completely.
- → Rinse the boiler. See 4.3.2.3 Rinse the boiler.

#### 4.3.2.3 Rinse the boiler



#### INFO

Insufficient level

If error message E01 appears in the display during the rinsing process, carry out the following procedure:

- → Refill storage tank 2: See 3.3.2.1 Fill storage tank.
- → Confirm the continuation of the rinsing process with the steam button 107.
- → Fill storage tank 2 with clear tap water: See 3.3.2.1 Fill storage tank.
- → Press steam button 107 on the display.
  - ⇒ Rinsing process 1 starts.
  - ⇒ The rinsing programme runs for around 8 minutes.
  - ⇒ Display status **111** shows FLU.
  - ⇒ When the programme ends, an acoustic signal sounds.
- → Empty the boiler: See 4.3.2.2 Empty the boiler.
- → Empty storage tank 2 completely.
  - ⇒ Device is ready for rinsing process 2.
- → Fill storage tank 2 with clear tap water: See 3.3.2.1 Fill storage tank.
- → Press steam button 107 on the display.
  - ⇒ Rinsing process 2 starts.
  - ⇒ The rinsing programme runs for around 9 minutes.
  - ⇒ Display status 111 shows END.
  - ⇒ When the programme ends, an acoustic signal sounds.
  - ⇒ Error message E013 is shown on the display.
- → Empty the boiler: See 4.3.2.2 Empty the boiler.
- → Empty storage tank 2 completely.
  - ⇒ Boiler is descaled.



#### 4.3.2.4 Commissioning after decalcification

To reset counters, perform the following procedure:

- → Ensure the steam and suction hoses are removed.
- → Press steam button 107 on the display.
- → Press steam button 107 on the display again and keep it pressed for 5 seconds.
  - ⇒ Acoustic signal sounds.
  - ⇒ Message E05 has lapsed.
  - ⇒ Counter is reset.

To restore the minimum water level in the boiler, carry out the following procedure:

- → Fill storage tank 2: See 3.3.2.1 Fill storage tank.
- → Press the steam button 107.
  - ⇒ Pump fills boiler.

If error message E03 appears on display error code 130:

- → Press the steam button 107 again.
- → Repeat process 3 times.
  - ⇒ Minimum level has been reached.
  - ⇒ Heating symbol 109 flashes.
  - ⇒ Device heats up.

## 4.4 Filters and o-rings

# 4.4.1 Maintenance of polyester filter

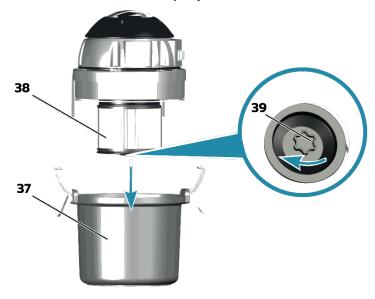


Figure 4.4-1 Maintenance of polyester filter

37 Filter tank 39 Star screw

38 Polyester filter

Ensure that the following requirements are met:

- Filter tank 37 is removed.
- → Empty and rinse filter tank 37.



- → Unscrew star screw 39 professionally.
- → Remove polyester filter 38.
- → Rinse polyester filter 38 under clean water.
- → Make sure polyester filter 38 and filter tank 37 are completely dry before reinstalling.

# 4.4.2 Maintenance of O-rings



#### INFO

Spare parts and accessories.

→ Order spare parts and accessories in the online shop.



#### INFO

Maintenance and Care.

To ensure function and long service life, observe the following points:

- → Check O-rings regularly to ensure they are in good condition.
- → Make sure all O-rings are properly in place.
- → Reduce wear: Wet the O-rings with a suitable lubricant or silicone agent.

#### 4.4.2.1 Change O-rings on hand control unit



Figure 4.4-2 Changing the O-rings on the hand control unit

170 O-ring suction tube

**171** O-rings nozzle tube (2x)

- → Perform visual inspection.
- → If necessary, replace the O-ring in suction tube 170.
- → If necessary, replace O-rings on nozzle tube 171.



#### 4.4.2.2 Change the O-rings on the suction and steam hose



Figure 4.4-3 Change the O-rings on the suction and steam hose

- 175 O-rings nozzle tube (2x)
- 176 O-ring suction tube

- → Perform visual inspection.
- → If necessary, replace O-rings on nozzle tube 175.
- → If necessary, replace the O-ring in suction tube 176.

#### 4.4.2.3 Change O-rings on the extension tube

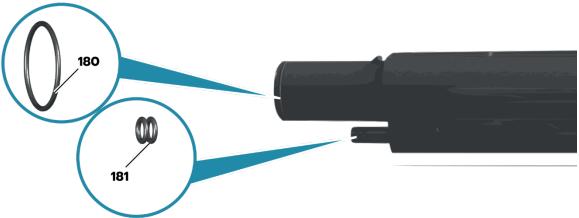


Figure 4.4-4 Changing the O-rings on the extension tube

180 O-ring suction tube

**181** O-rings nozzle tube (2x)

- → Perform visual inspection.
- → If necessary, replace the O-ring in suction tube 180.
- → If necessary, replace O-rings on nozzle tube 181.