

Steam Cleaner **Wasi-Steam 3**



USER MANUAL

Dear customer,

Thank you for choosing a product from the Wassermann range. Wassermann Dental-Maschinen incorporates the highest standards of quality and the latest technology. In order to enjoy maximum performance and years of trouble-free operation, please read this user manual carefully before you connect this unit and start work, and operate the unit according to the recommended guidelines. The operation safety and the functionality of this unit can only be guaranteed if you follow both the general safety guidelines and the applying laws to prevent accidents as well as the precautions given in this user manual. We are not liable for any damages which occur due to inappropriate usage or faulty operation of this unit.



Make sure that anyone using this unit has read and understood this user manual.

Keep this user manual in a safe place where it can be referred to as required at any time.



The unit complies with the relevant EU guidelines.



The unit is subject to the EU guidelines 2012/19/EU (WEEE Directive).

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1 Features

- Powerful and reliable steam cleaner for all cleaning applications
- Fixed water connection and service interval indicator
- Can be used as a table-top device or as a wall-mounted device
- Pump protection by safety switch (control tap open / closed)
- **Optional:** Wet steam and steam volume regulation
(Volume control set 174633 available) – **can be retrofitted in the factory**
- Selector button for wet or dry steam
- Vapour pressure in idle phase 5 bar / in operating mode 6 bar
- Particularly gentle on seals due to pressure drop to 5 bar after a 10-minute interruption
- Display and control of operating statuses using LEDs
- User-friendly application, high safety standard
- Durable, versatile and eco-friendly
- Tank and housing made of stainless steel
- - **Optional:** Filling unit (5 litres) for manual filling and flexible location selection available (174430) --- recommended when using distilled water or similar. (to connect, the appliance must be switched off and switched on again after connecting the unit - circuit board recognition) - **can only be retrofitted in the factory !!! - Special modification -**

2 Safety Symbols used in this Manual



Warning!

This is a warning of risk situations and dangers.

Failure to observe this warning could be life-threatening. These warnings has to be observed.



Information!

This symbol draws your attention to specific features that has to be observed.

3 Safety Guidelines

Configuring and operating this equipment requires ***precise knowledge*** and ***observance*** of the instructions in this ***user manual***. The equipment is designed only for its intended application.



WARNING:

Servicing and repairs should be carried out only by authorised specialists.
Disconnect the power plug before starting any maintenance work.



Make sure that the equipment is connected to the correct power source.



AWARNING:

**The jet nozzle is a possible source of injury, as it gets extremely hot
(RISK OF SCALDING)!**

Before you use the unit for cleaning, sterilizing or degreasing, put on heat-resistant gloves and wear some form of eye protection.

Never touch the steam gun directly at the nozzle – **risk of scalding!**

Never point the steam gun at people (living beings) – risk of injury!

The steam from the nozzle can reach temperatures up to 164°C, so only spray towards the collector or washbasin.

For usage with permanent water supply:

If the unit is not to be used for an extended period, the tap should be turned off and the steam cleaner switched off.

The tap must have a non-return valve and a breather (washing-machine tap).



If there is a water leak, the moisture detector will switch the unit off all device functions automatically. But the unit electrically remains on. As a warning all 4 LED flashes. .

When it is not in use, the unit switches to a temperature of 158°C and a pressure of 5 bar. The temperature increases automatically to 164°C and the pressure to 6 bar as soon as the steam gun is pressed.

The pressure safety switch turns the unit off automatically when it reaches 7 bar.

The TÜV-tested safety valve on the pressure vessel opens automatically if the operating pressure exceeds 9 bar.

To prevent the pump from running dry, the appliance has a safety switch.

If no pump noise can be heard when the steam container is empty or the water level is low, check whether the tap is turned on.

4 Responsibility for Operation or Damage

The responsibility for operating the device lies exclusively with the owner or user if said device is incorrectly serviced, maintained or altered by persons not employed by an authorised dealer or if the device is used in a manner contrary to its specified purpose. The unit has to be maintained and operated in accordance with this user manual. Wassermann Dental-Maschinen GmbH is not responsible for damage arising from the **nonobservance** of these instructions.

Warranty and responsibility provisions contained in the sales and supply conditions of Wassermann Dental-Maschinen GmbH are not extended by these instructions.

4.1 Warranty



The warranty period for our equipment is 12 months. If faults occur within the warranty period, contact your dental depot or get in touch directly with our service department.

Your equipment should only be operated in perfect condition. If faults occur which could harm operators or third parties, the unit should not be used until it has been fixed.

This warranty does not cover damage caused by improper use, external mechanical causes, transport damage or interference with the unit by unauthorized persons.

5 Application

This steamer is used for cleaning, sterilizing and degreasing dental appliances.

Only use the device for this type of application.

6 Before Starting

6.1 Transport

Before transporting the unit, ensure that it has been unplugged from the power socket. Make sure that it is packed correctly in order to avoid accidental damage.



Be sure to check for any transport damage when unpacking the goods. Note down any damage if found.

6.2 Installation

Open the transport carton, remove the packaging material and carefully remove the appliance and accessories. Check the accessories supplied and fit the enclosed appliance parts as shown in the following illustration.

Mount gun holder with screws
(2x)

Set the position of the drain tap:
to the rear = table version
downwards = wall version

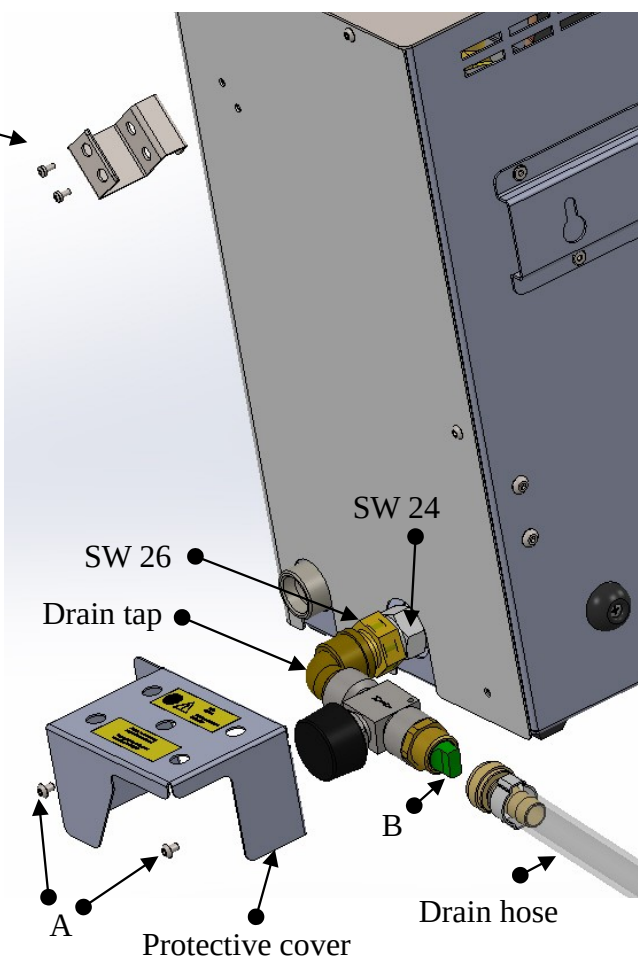
Unscrew the screws (A) with an Allen key and remove the protective cover. Then carefully loosen the drain tap nut SW 26, holding the drain connection SW 24 with a spanner.

Adjust the drain position and carefully tighten the nut again with spanner SW 26, holding the nozzle side with spanner SW 24 (SW 24 must not turn).

If the screw connection is leaking, tighten it carefully.

Finally, secure the protective cover to the housing with screws (A).

Now remove the sealing plug (B) and screw on the drain hose.



The appliance must stand horizontally on a stable and level surface or be fixed in accordance with 6.4 Wall installation.



Install the device in a place where it will not block the working area and the functionality (take the dimensions into account). Make sure that there are about 10 cm of free space on each side to guarantee air circulation (heat dissipation).



Do not install the unit outdoors or in places without proper ventilation. Before start-up, be sure the device reaches room temperature.

6.3 Storage

The unit location is very important when it comes to workplace safety, even if it is only to be set up there for a short period. The room should be dry, well ventilated and vibration-free. An even temperature and wooden supports also help. The unit should not be stored or set up outdoors. If the unit is to be stored for an extended period, protect it from moisture and dust.

6.4 Wall installation

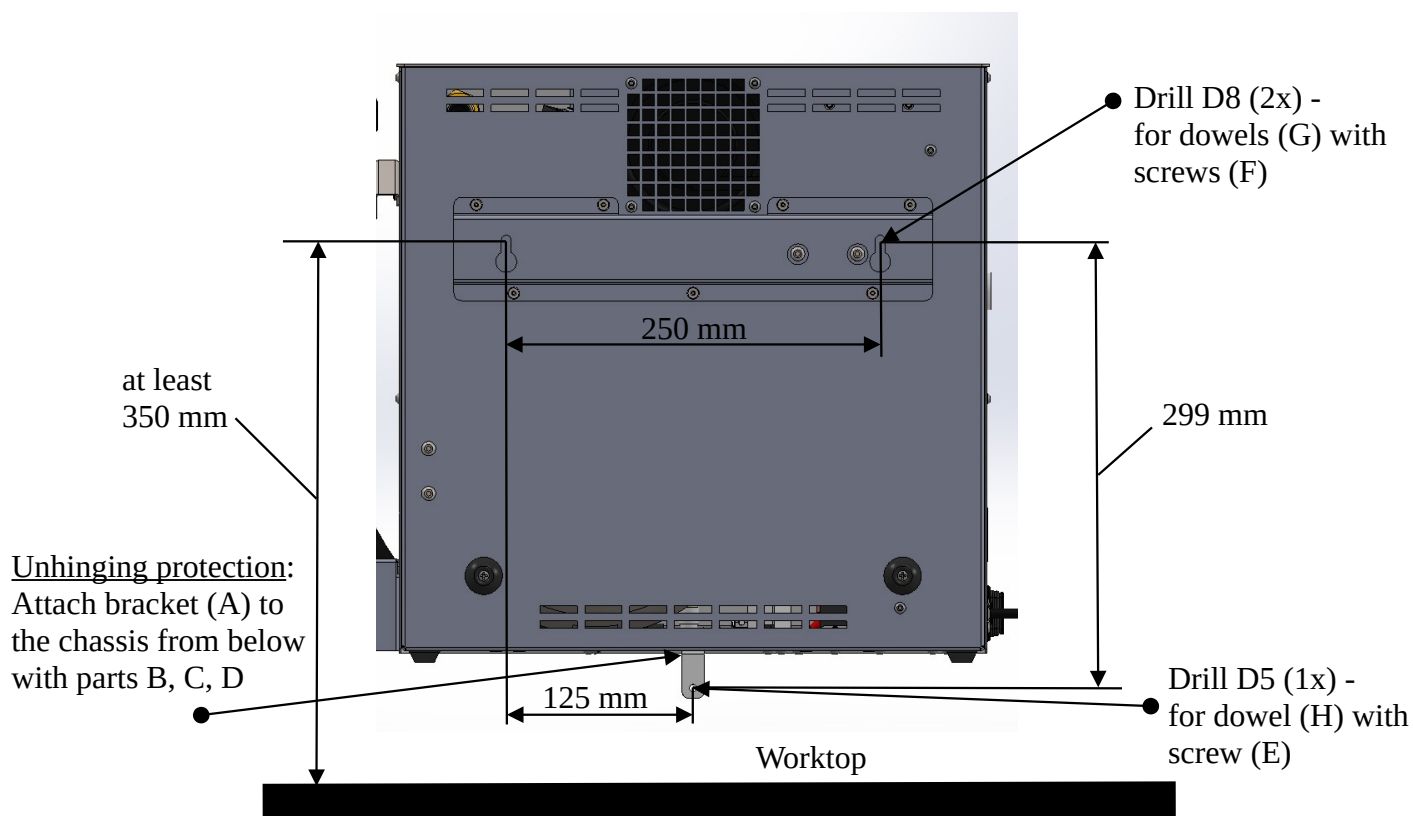
The appliance can also be hung on the wall.

If you have already used the Wasi-Steam 2 steam cleaner from our company with the corresponding wall bracket, you do not need to use the enclosed mounting set, but can also use the existing wall bracket for the Wasi-Steam 3 steam cleaner (same hole spacing).

If you do not yet have the wall bracket mentioned above, attach the Wasi-Steam 3 steam cleaner using the enclosed attachment set (174358).

Before *wall mounting*, make sure that the wall in question has *sufficient load-bearing capacity*.

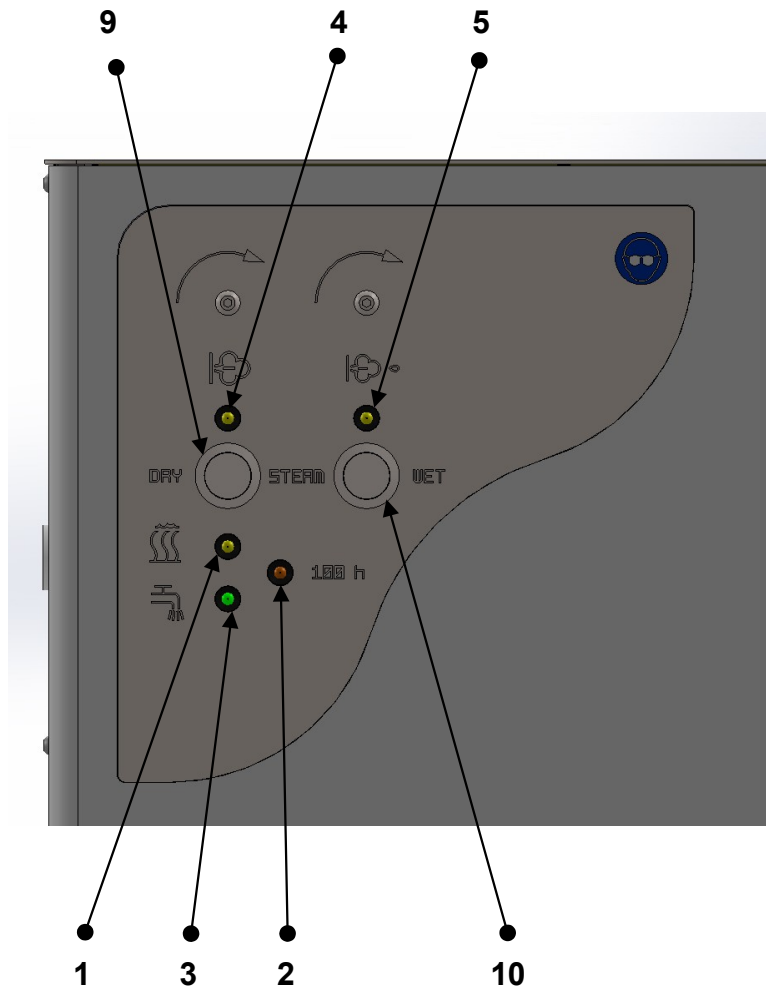
Please refer to the drilling pattern below for the hole spacing for the suspension.



Fastening set (174358) - Check scope of delivery !

- 1x locking bracket (A) / 1x M4 x 8 screw (B)
- 1x disc D 4.3 (C) / 1x serrated lock washer D4.3 (D)
- 1x screw D4 x 16 (E) / 2x screw D6 x 50 (F)
- 2x dowel S8 (G) / 1x dowel S5 (H)

6.5 Functions of the LEDs (diodes)



1 LED yellow = Heating

3 LED green = Water inlet

5 LED yellow = Wet steam

2 LED orange = Operating hours counter (OHC)

4 LED yellow = Dry steam

LED (1) off = Heating off (below probe min.)

LED (1) lights up = Heating on (from / above probe min.)

LED (2) flashes = OHC 100 h - Note on flushing the appliance (work is still possible)

Resetting = 0 is possible (**RESET**):

The appliance must be switched off, then press the dry steam button (9) and simultaneously switch on the appliance with the main switch (7).

LEDs (1), (3), (4) and (5) flash = leaks in the appliance (leakage), but the appliance is still electrically on, but has no functions (gun, heater, etc.)

LED (3) flashes = low water level (below probe min.) - even if pump is running

LED (3) lights up = water inlet (from / above probe min.) - pump running

LED (3) off = water level o.k. - Pump off

LED (4) or (5) flashes quickly = appliance is below 5 bar - heating on

LED (4) or (5) flashes slowly = appliance has at least 5 bar - heating on

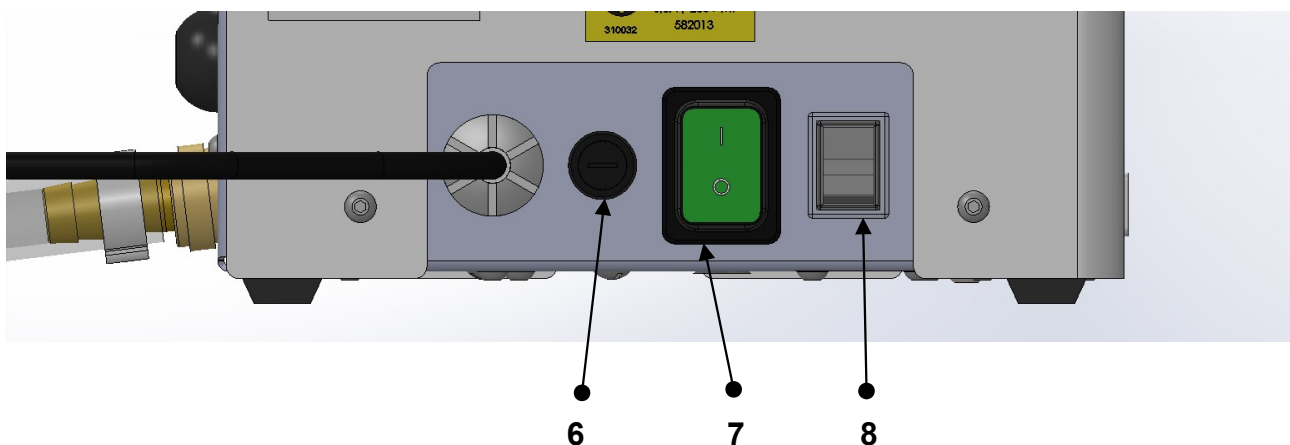
LED (4) or (5) lights up = heating (1) off - appliance has 6 bar or appliance has 5 bar after 10-minute rest phase (stand-by mode)

LEDs (4) and (5) briefly on at the same time then flash alternately = **flush mode on!**

Gun button pressed and appliance switched on at the same time (see section 10.2.1)

Flush mode = heating switched off and pump on/off can only be used for flushing.

6.6 Functions of the switches / buttons



6 6.3 A medium-blowing-fuse

7 Mains / main switch

8 Flush button

9 Dry steam selection button

10 Wet steam selection button

7 Start-up/ Installation



Before starting the unit, connect up the following:

Connect the steam jet appliance (right-hand side) to a tap using the inlet hose supplied (the tap must be fitted with a backflow preventer and an aerator - washing machine tap).

The drain hose supplied is attached to the right-hand side of the appliance.

If possible, guide the hose into a heat-resistant bucket or sink, as the draining water can be very hot.

Finally, insert the mains plug into the socket - make sure that the voltage specifications for the appliance and the mains supply are the same.

7.1 Filling process / First filling



Open the water tap.

Switch on the green main switch (7) - the appliance automatically fills with water by means of a pump and is heated up.

When filling for the first time or refilling after emptying the appliance, the black flush button (8) on the left-hand side of the appliance can be pressed until the pump switches off and the process is complete.

This procedure speeds up the filling process and protects the pump, but only with a fixed water connection.

After approx. 10 minutes, vent the pressure vessel once; hold the steam gun in the direction of the drip tray or sink and press the push button until no more steam / air / water escapes from the nozzle (appliance is depressurised).

(Only applies to new appliances or after emptying the pressure tank).

After approx. 25 minutes, the operating pressure of 6 bar is reached and the appliance is ready for use.

8 Operation

8.1 General Operating Instructions

All instructions for using the unit, whether in verbal or written form, are based on our own experience and experimentation and can only be regarded as guidelines.



Use the push buttons (on the front) to select between dry (9) and wet steam (10).

Take the steam gun in your hand and trigger and control the steam release using the push button.

If the unit is not used for more than 10 minutes, it switches to stand-by mode (5 bar). When the steam gun is operated, the unit returns to operating temperature/ pressure (164°C, 6 bar) within 90 seconds.

9 Troubleshooting

Fault	Cause	Solution
No LED's display or only the main switch lights up	Device fuse defective	Replace fuse and determine cause; Call service workshop if necessary
	Overtemperature / overpressure	If the pressure is in the red range (over 6.3 bar), analyse the fault and repair if necessary (service workshop)
Hot water instead of steam comes out of the nozzle	Tank overfilled with water	Set the appliance to dry steam and blast until pure steam comes out
Drip tray overflows	full	Empty the drip tray
Water inlet light flashes / lights up constantly	No water supply (safety switch for pump)	Check the tap and check the connections or remove the pump switch from the filling unit - top up the unit if necessary
Light (OHC 100 h) flashes	Note on tank flushing	Flush the tank according to the instructions
Heater light lights up constantly without pressure increase	Heater defective	Repair in the service workshop
Water leakage - 4 LEDs flash	Leaks in the appliance	Repair in the service workshop
Pump does not run even though water level is too low	No water supply (safety switch for pump)	Check the water tap; if necessary, turn on the water tap or remove the pump switch for the filling unit - if necessary, top up the unit



If the above recommendations do not solve the problem, contact your dental depot or our service department.

10 Care and Maintenance

10.1 Cleaning



Disconnect the power plug before starting any maintenance work.

The identification plate has always to be kept in easily legible condition and has not to be removed.



Remove external dirt from time to time with some form of cold cleaner.

Use only cold cleaners to avoid damaging the paintwork or removing the lettering. The equipment should be cleaned at regular intervals to ensure trouble-free operation.

It requires only normal cleaning (sponge, damp cloth, mild detergent) and no further chemical additives.

10.2 Maintenance

The Wasi-Steam 3 should be descaled depending on use, but at least once a fortnight, in accordance with the following instructions. Always ensure that the appliance is kept clean.

10.2.1 Flushing/ Descaling



Only flush the steam boiler when it is completely depressurised, otherwise there is an extreme risk of scalding.



Please note the following points when draining the water:

- Before draining the water, make sure that the appliance has cooled down (either first thing in the morning or by operating the gun = must be depressurised) and that the drain hose leads into a heat-resistant bucket or sink. For your own safety, you should install the drain hose securely, as the escaping water/steam mixture (if the appliance has not cooled down) is very hot (up to 164°C).
- Carefully turn the drain valve (right-hand side) slowly to the end using the black rotary knob. Then switch the appliance to **flush mode (both steam LEDs flash alternately)**.
- Flush mode = Press and hold the gun button to switch on the appliance (steam LEDs both on = protective function). Now release the gun button (flush mode on = steam LEDs flash alternately) In this mode, the heating is switched off and the pump (intermittent operation 20 / 10 sec) in the appliance can be switched on or off for flushing with the wet steam button (10).
- In this mode, pressing the gun button opens both valves (air equalisation in the boiler), which increases the discharge speed when draining water.
- By pressing the flush button (8) on the left-hand side of the appliance, the pressure (= water pressure in the building / **fixed water connection**) can be increased during flushing to flush the sludge chamber in the steam boiler even more **effectively** until only clear water comes out. When using the filling unit, only the pump in the appliance is used for flushing. (Flushing result is not as good as with the fixed water connection)
- Flushing is recommended after 14 days to prevent damage to the appliance, but at the latest when the operating indicator light (2) flashes.

- The appliance is equipped with an operating hours counter, so that after 100 operating hours the LED (2) of the operating hours counter = 100 h flashes, then flush.
- The operating hours counter is reset by pressing the dry steam button (9) when the appliance is switched off and simultaneously switched on via the mains switch (7) = **(RESET)**.
- Now close the drain valve by turning the black knob clockwise again to close the water outlet.
- Now exit flushing mode by switching off the appliance. If you now switch the appliance on using only the main switch (7) (= normal mode), you can start the appliance up again as described in section 7.1 First filling.
- Now place the splash guard with the sieve grid insert (if present) back in front of the appliance.

10.3 Repairs

Servicing or repairs to the unit has only to be carried out by qualified technicians. Only original spare parts are to be used. Responsibility for the product is voided if unauthorised persons alter it or if inappropriate components are installed.

10.4 Spare Parts

If necessary please contact our service hotline phone.

10.5 Service Hotline 0049 (0)40 730 926 -20/ -24

10.6 Scope of Delivery/ Accessories

Scope of delivery	Item no:
Drain hose (1500 mm long) - pre-assembled (clamp + connector)	320031
Inlet hose, complete	320060
Fixing set for wall mounting	174358
Holder for spray gun (incl. screws)	174313

Accessories	Item no:
Wasi-Clean Water softening unit, tabletop appliance (B 190 x H 405 x T 260 mm)	174995
Spray protection unit, stainless steel (B 555 x H 245 x T 210 mm)	174230
Filling unit (5 Litres) – can only be retrofitted in the factory (special modification) (B 215 x H 340 x T 240 mm)	174430
Special nozzle D 2,5 mm (Standard nozzle D 1,2 mm, Item no. 174100)	174352
Volume regulation set – can be retrofitted in the factory for regulating the wet steam and steam volume	174633
Holder set (spray protection unit) for wall mounting	174625

11 Technical Data

Wasi-Steam 3	Item no.: 174989
Voltage	220–240 V / 50/60 Hz
Power consumption	5,5 A (6.3 A medium-blowing-fuse)
Output	1270 W
W x H x D (max.)	505 x 400 x 230 (+ Spray gun hose) mm
W x H x D (housing)	400 x 400 x 230 mm
Weight	23 kg
Working pressure	max. 6 bar (stand by 5 bar)
Steam temperature	max. 164°C at 6 bar
Boiler capacity	3,3 l
Safety class	IP 22
Operating mode	Intermittent operation 5/5 min

Other voltages on request.

The noise level of the unit amounts to ≤ 70 dB (A).



Technical changes reserved.

12 Disposing of the Unit

The unit has to be disposed by an authorized recycling operation. The selected company has to be informed of all possibly health-hazardous residues in the unit.

12.1 Information on Disposal for Countries within the EU



To conserve and protect the environment, prevent environmental pollution and improve the recycling of raw materials, the European Commission adopted a directive that requires the manufacturer to accept the return of electrical and electronic units for proper disposal or recycling.

Within the European Union units with this symbol should not therefore be disposed of in unsorted domestic waste.

For more information regarding proper disposal please apply at your local authority.

13 EU Declaration of Conformity

in accordance with 2014/35/EU (Low Voltage Directive) and 2014/30/EU (Electromagnetic Compatibility Directive) and 2006/42/EC (Machinery Directive) and 2011/65/EU (RoHS Directive) and 2014/68/EU (Pressure Units Directive)

Manufacturer:	W A S S E R M A N N Dental-Maschinen GmbH Rudorffweg 15-17 21031 Hamburg Germany	Product description:	Steam Cleaner for dental applications
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Model:	Wasi-Steam 3	Item no..	174989
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Applied standards:	DIN EN 61010-1 DIN EN 61000-6-3 DIN EN 61000-6-1 DIN 45635-1 DIN EN 60335-1
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Hiermit wird bestätigt, dass die oben bezeichnete Maschine den genannten EU-Richtlinien entspricht. Diese Erklärung wird ungültig, falls die Maschine ohne unsere Zustimmung verändert wird.

This is to confirm that the above mentioned machine complies with the described EU rules. This declaration becomes invalid if the machine is modified without our approval.

Cette machine est conforme aux normes en vigueur d'Union européenne. Cet avis est nul et non avenant si cette machine est modifiée sans notre accord.

Esta máquina, anteriormente mencionada, cumple con los límites requeridos por el reglamento UE. Ahora bien, esta declaración quedará invalidada en caso de realizar modificaciones al aparato sin nuestra aprobación.

Hiermee wordt bevestigd dat bovengenoemde machine voldoet aan de voorgeschreven EU normen. Deze verklaring verliest geldigheid als er zonder onze uitdrukkelijke toestemming wijzigen aan de machine worden aangebracht.

Place, date: Hamburg, 2025-07-28

Company stamp :



Signature: _____
Sven Wassermann
(Managing Director)





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