

• WTS-1 R



• USER MANUAL

Dear customer,

Thank you for choosing a product from the Wassermann range. Wassermann dental equipment 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 instruction manual carefully before you connect this device and start work, and operate the device according to the recommended guidelines. The operation safety and the functionality of this device 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 instruction manual. We are not liable for any damages which occur due to inappropriate usage or faulty operation of this device.



Make sure that anyone using this device has read and understood this instruction manual.

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

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Index

1 Features.....	4
2 Safety guidelines.....	5
2.1 Safety symbols used in this manual.....	5
2.2 Safety guidelines.....	5
3 Application.....	5
4 Before starting.....	5
4.1 Transport.....	5
4.2 Installation.....	6
4.3 Storage.....	6
5 Start-up / Installation	6
6 Operation.....	7
7 Troubleshooting.....	8
8 Care and maintenance.....	8
8.1 Cleaning.....	8
8.2 Maintenance.....	9
8.3 Warranty	9
8.4 Spare parts.....	9
8.5 Scope of delivery / Accessories.....	9
8.6 Repairs.....	10
9 Technical data.....	10
10 EG-Konformitätserklärung.....	11

1 Features

The WTS-1R is a vacuum cleaner designed for cleaning up plaster dust and abrasive materials.

Unlike other vacuum cleaners from Wassermann Dental-Maschinen GmbH, the WTS-1R does not operate on the low-pressure principle (large quantity of air, low air speed, and large diameter). Instead, it uses the high-pressure method (large quantity of air, high air speed, and smaller diameter). This allows it to remove coarse dirt particles and heavier material. The WTS-1R has a volume indicator (red light on front) which comes on when the filter is full. Shaking out the filter can increase the suction power. To do so, set the switch at the front to RA to shake the filter. Switch off the shaker after about 10 seconds, then continue working. The WTS-1R also has a suction power adjustment, allowing it to be used in dental laboratories.

You can even clean up liquids with the WTS-1R. Just make sure that there is no paper filter in the suction unit and remember that acids, acetone and solvents can attack mechanical parts.

- powerful and mobile under-table suction unit
- high-power suction unit for professional use in the laboratory
- specially designed for deployment on dry trimmers, milling units etc.
- electromagnetic impulse filter cleaning
- speed regulator
- filter saturation pilot light and current volume display
- gentle start-up control
- coasting electronics
- innovative easily changed filter concept:
 - 2 new-style polyester filter cassettes FKP 4300
 - filter surface 2 x 4300 cm = 8600 cm
- dust retention capacity as per BIA usage category C
- simple handling

2 Safety guidelines

2.1 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 must be observed.



Information!

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

2.2 Safety guidelines



- The unit has been designed for a voltage of 220–240 V / 50/60 Hz. Make sure that your unit is connected to the correct voltage.
- Always remove the plug from the socket before undertaking maintenance or cleaning.
- The unit has lockable rollers to prevent it running away from you.

3 Application

The **WTS-1R** is used to suck up all types of dirt and dust in dental laboratories. Its high-pressure suction can even handle heavy pieces of material (including dust that could enter the lungs).

This makes the unit especially suitable for use with dry trimmers and sandblasting equipment.

Only use the device for this type of application.

4 Before starting

4.1 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.

4.2 Installation

Open the box, remove the packing materials, and carefully lift out the device and accessories. Check the included accessories (1 x Saugschlauch Ø 37 3,2 m lang und Filterbeutel FB 25) .

Keep packing materials such as plastic bags well away from children because of the danger of asphyxiation.

- Set the unit up on a level surface.
- The device must stand on a steady and level surface.
- Connect the following **before** you turn the unit on:
 - Connect the hose to the suction unit and the external device.
 - Plug in the power cable, making sure that the mains voltage is correct.



Install the device in a place where it will not block the working area and the functionality (take the dimensions into account).

Do not install the unit outdoors or in places without proper ventilation.



Before start-up, be sure the device reaches room temperature.

4.3 Storage

If the unit is to be stored for an extended period, protect it from moisture and dust.

5 Start-up / Installation

- Do not operate the device if
 - the power cord is faulty
 - there are obvious signs of damage
 - you suspect hidden faults



Connect the power cord.

- Use the red switch at the front to turn the unit ON/OFF (or to switch to the automatic or shaker mode).
- **0 = Suction OFF**
- **I = Suction ON**
- **A** = Ready for automatic ON/OFF operation (switched ON/OFF when unit connected to power)
- **RA** = Filter-cleaning mode
- If the red volume light comes on, shake the filter.



The WTS-1R has a suction power adjustment – regulated by the knob on the front of the unit.

6 Operation

- Connect the hose to the suction unit and the external device.
- Connect the power cord of the suction unit.
- Plug in the power cord of the external device to the WTS-1 R outlet (suction action starts automatically when external device runs).
- Adjust the suction power on the WTS-1R if it is just being used in the one place. Otherwise, set it to full power.
- The red light at the front comes on when the filter bag is full. Turn the red switch to **RA** and vibrate the filter.
- To change the filter bag, undo the quick release catches at the sides and remove the upper section of the unit.
- Remove the full filter bag and replace it with a new one. Make sure that the opening in the bag lines up with the suction inlet.

i

If the unit is not to be used for an extended period, turn it off.

i

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

i

When changing the filter bag, double check that the opening in the bag aligns precisely with the suction inlet.

7 Troubleshooting

Fault	Cause	Remedy
Unit does not suck	Suction set to minimum	Set to full power
	Suction hose blocked	Clean the suction hose
Dust comes from suction unit	Filter full	Check/change filter
	Filter opening not aligned with suction inlet	Position filter correctly
Suction unit does not start	External device not connected to suction unit	Connect units
	Plug not in socket	Insert plug in separate socket

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

8 Care and maintenance

8.1 Cleaning



Disconnect the power plug before starting any maintenance work.
 The identification plate must always be kept in easily legible condition and must not be removed.

To ensure problem-free operation, the unit should be cleaned at regular intervals.
 The device requires only regular cleaning (sponge, damp cloth, degreaser) - no chemical additives.

Do not use chemical additives!

Protect the hose from internal contamination.

i Use only cold cleaners to avoid damaging the paintwork or removing the lettering.

8.2 Maintenance

The WTS-1 R does not require any servicing. Just make sure that the device is kept clean and that the filter bags are replaced regularly. Check that the quick-release latches at the sides do not get damaged and that the base supports are kept clean.

Changing filter bags:

Open the latches at the sides and insert the new filter bag with its opening aligned with the suction inlet. Make sure that the bag is not kinked and that air can enter freely.

Cleaning filter cassettes:

Using a screwdriver, turn the slotted knob near the name logo to the right, then push the knob inwards. This allows you to open the lid and remove the filter cassettes. The cassettes can be cleaned by tapping the dust out of them (once a year) in the open air.

8.3 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.

8.4 Spare parts

If necessary please contact our service hotline phone:
0049 (0)40 / 730 92 6-0

8.5 Scope of delivery / Accessories

Included parts:

Suction hose Ø 37 - 3,2 m

Filterbag

Item no.

320070

Accessories:

Hose connecting piece Ø 50 / 37

Adapter Ø 75 I / Ø 37 O

Suction hose Ø 37 - 3,2 m

Filterbag 1 set = 3 pieces

Item no.

141501

140067

320070

611019

8.6 Repairs



Servicing or repairs to the unit must only 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.

9 Technical data

WTS-1 R – Item no. 141991

Dimensions:	W: 400 mm, H: 460 mm, D: 400 mm
Weight:	13,7 kg
Voltage*:	220-240 V / 50/60 Hz
Output:	1400 W
Power consumption:	6 A
Suction capacity:	220 m ³ /h (free-blowing)
Cask capacity:	25 l
Operating hours:	800 h
Interrupt operation:	14,5 min / 0,5 min
Safety class:	IP 24

*Other voltages upon enquiry.

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



The technical data are subject to change without prior notice.

10 EG-Konformitätserklärung

in accordance with 2006/95/EG (low-voltage guidelines) and 2004/108/EG (EMV guidelines) and 2006/42/EG (machinery guidelines)

Manufacturer: W A S S E R M A N N Product description: Suction unit unit
Dental-Maschinen GmbH for dental
Rudorffweg 15 - 17 application
D-21031 Hamburg

Model: WTS-1 R Item-no. 141991

Applicable standards: DIN EN 61010-1
DIN EN 61000-6-3
DIN EN 61000-6-1
DIN 45635-1
DIN EN 60335-1

Hiermit wird bestätigt, dass die oben bezeichnete Maschine den genannten EG-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 EC rules. This declaration becomes invalid if the machine is modified without our approval.

Cette machine est conforme aux normes en vigueur de la Communauté Européene. 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 EC. 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, den 07.03.2013

Company stamp:



Signature: _____

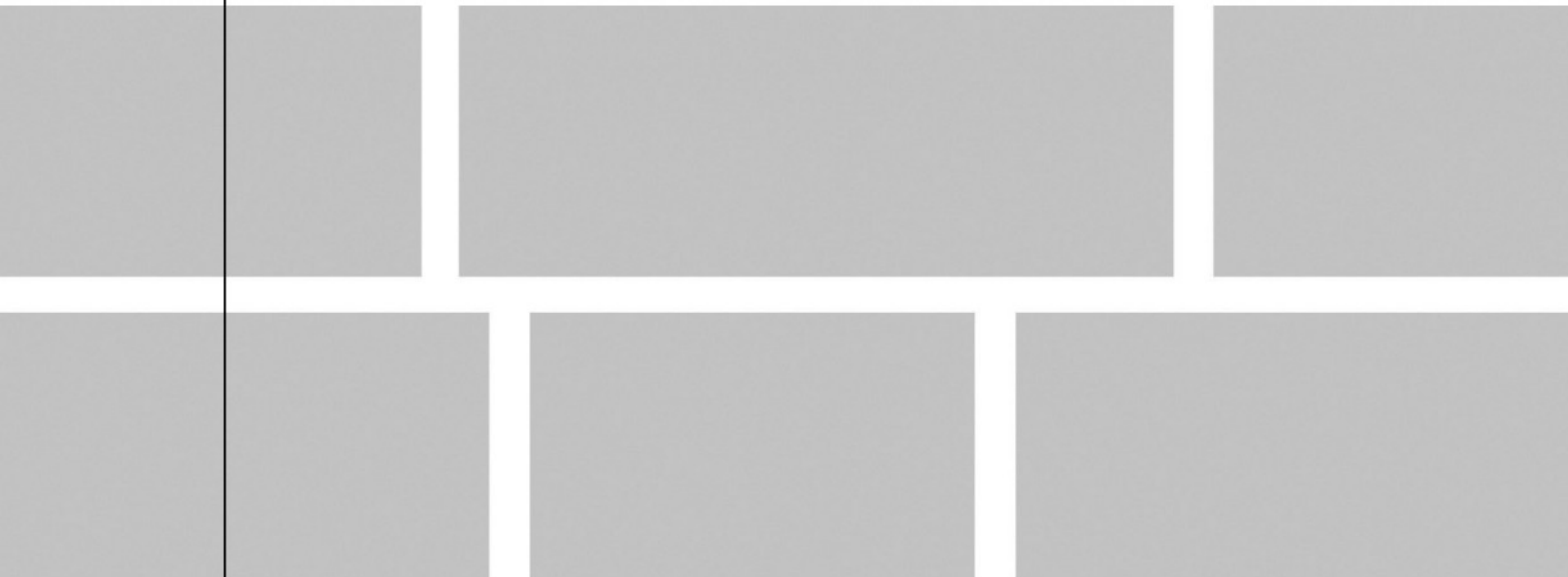


Wilfried Wassermann
(Managing Director)



WASSERMANN
DENTAL-MASCHINEN

● Die Basis für Ihr Labor



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