

# User manual

## WTS-1R



Fig. 1: WTS-1R

***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 user manual carefully **before** you start work, and operate the unit according to the recommended guidelines.

**Keep this user manual on hand for ready reference.**

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## Contents

<b>CONTENTS.....</b>	<b>2</b>
<b>1 FEATURES.....</b>	<b>3</b>
<b>2 FOR YOUR SAFETY .....</b>	<b>4</b>
2.1 YOUR USER MANUAL.....	4
2.2 SAFETY GUIDELINES .....	4
2.3. RESPONSIBILITY FOR OPERATION AND DAMAGE .....	5
<b>3 APPLICATIONS.....</b>	<b>5</b>
<b>4 BEFORE YOU START.....</b>	<b>6</b>
4.1 UNPACKING / TRANSPORT .....	6
4.2 LOCATION / STORAGE .....	6
<b>5 START UP .....</b>	<b>7</b>
<b>6 OPERATION.....</b>	<b>7</b>
<b>7 TROUBLESHOOTING / PROBLEM SOLVING .....</b>	<b>8</b>
<b>8 MAINTENANCE .....</b>	<b>9</b>
8.1 CLEANING .....	9
8.2 SERVICING .....	9
8.3 WARRANTY.....	10
8.4 SPARE PARTS AND ACCESSORIES .....	10
8.5 REPAIRS .....	10
<b>9 TECHNICAL DATA.....</b>	<b>11</b>
9.1 141991 WTS-1R VACUUM CLEANER .....	11
<b>10 EC CONFORMITY CERTIFICATE.....</b>	<b>12</b>

## 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.

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## 2 For your safety

### 2.1 Your user manual

You should read and follow the instructions carefully in this user manual for setting up and operating the unit. The unit is intended only for the specified purpose.

**Especially important points** are highlighted as follows:



#### **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, which must be observed.

### 2.2 Safety guidelines



- The unit has been designed for a voltage of 230V / 50Hz. 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.

### **2.3. Responsibility for operation and damage**

The responsibility for operating the unit lies exclusively with the owner or user if the said unit is incorrectly serviced, maintained or altered by persons not employed by an authorized dealer or if the unit is used in a manner contrary to its specified purpose.

The unit must be maintained and operated in accordance with this user manual. Wassermann Dental-Maschinen GmbH is not responsible for damage arising from the **non-observance** of these instructions.

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



**Ensure that this user manual is accessible at all times and has been read and understood.**

## **3 Applications**

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.

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## 4 Before you start

### 4.1 Unpacking / Transport

- Remove the packing materials and place the unit on a firm, level surface or use the supplied bracket to mount it on the wall. Check that all items have been supplied (1 x dust extraction hose D 37,3.2 m long and filter bag FB 25).
- Keep packing materials such as plastic bags well away from children because of the danger of **asphyxiation**.
- Do not operate the device if
  - there are obvious signs of damage
  - the power cord is faulty
  - you suspect hidden faults
- Before moving the unit, ensure that the power cord has been disconnected from the socket. Use appropriate packing materials to avoid accidental transport damage.



### 4.2 Location / storage

- Set the unit up on a level surface.
- Always ensure that the work area is large enough for easy operation (allow for the unit's size) – **do not set the unit up outdoors!**
- If the unit is to be stored for an extended period, protect it from moisture and dust.
- Connect the following **before** you turn the unit on:
  - Connect the hose to the suction nozzle
  - Plug in the power cable, making sure that the mains voltage is correct.



**Make sure that all cable and hose connections have been made before you start work and that the unit is located on a firm base.**

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## 5 Start up

- 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 nozzle.
  - Plug the power cord into the unit.
  - Connect the suction hose to the suction nozzle (suction action starts automatically).
  - 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.
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- 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 / Problem solving

Fault	Likely cause	Likely solution
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	Hose not connected to suction unit	Connect unit
	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 Maintenance

### 8.1 Cleaning

The unit should be cleaned on a regular basis to ensure problem-free operation. It requires only normal cleaning (sponge, damp cloth, and mild detergent). Do not use chemical additives.

Solvents **must not** be used to clean the mounting plate!

Protect the hose from internal contamination.

The **model plate** must always be legible and should not be removed.

### 8.2 Servicing

Our vacuum cleaners are maintenance-free. Just make sure that the unit 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.

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### **8.3 Warranty**

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

Vacuum cleaners 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 repaired.

The 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 and accessories**

<b>Spare parts</b>	
Item number	Description
141501	Hose holders D 50/35
320070	Suction hose D 35 3.2 m long
610060	Filter bag FB 25

Item number	Description
<b>Accessories</b>	
141501	Hose holders D 50/35
320070	Suction hose D 35 3.2 m long
610060	Filter bag FB 25

### **8.5 Repairs**

**Servicing or repairs to the unit must only be carried out by trained technicians. Only original spares are to be used. Responsibility for the product is voided if unauthorised persons alter it or if inappropriate components are installed.**

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## 9 Technical data

### 9.1 141991 WTS-1R Vacuum Cleaner

Voltage :	230 V / 50 Hz
Power consumption	6 A
	: 1200W
Output :	25 liters
Container contents :	IP 24
Safety class:	220m <sup>2</sup> /h, unhindered
Suction power:	
Dimensions:	W400 x H560 x D400mm
Weight:	12. 7kg



Noise emission  $\leq 70 \text{ dB(A)}$



**We reserve the right to make technical changes.**

## 10 EC CONFORMITY CERTIFICATE

**in accordance with 73/23/EWG (low-voltage guidelines) modified by 93/68/EWG and 89/336/EWG (EMV guidelines) and 89/392/EWG (Machinery guidelines), with modifications**

Manufacturer: W A S S E R M A N N      Product description : Vacuum cleaner for  
Dental-Maschinen GmbH      dental applications  
Rudorffweg 15 - 17  
D-21031 Hamburg

Model: WTS-1R

Applicable standards: DIN EN 60335-1 ( VDE 0700 Part 1 )  
DIN EN 60335-2-69 ( VDE 0700 Part 69 )

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 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 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 wijzigingen aan de machine worden aangebracht.

Place, date: Hamburg, den 10.Apr.2003

Company stamp :

Signed:

Wilfrid Deane

Wilfried Wassermann  
(Managing Director)









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