

# Dental Cleaner DTC Economy



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 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 user 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 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

- Pressure cleaning unit for perfectly cleaned metal or plastic dental trays and retention plates made of plastic
- Time saving: Completely automated cleaning without prepping
- Complete removal of residues like alginate, silicone or similar material from impression trays and plaster debris from counter plates
- User-friendly operation
- Permanent water supply - simply connect a water line
- Sustainable & economical: The system uses only cold water for cleaning without further chemical additives
- Cuts the costs for expensive chemicals
- Clean wastewater thanks to high quality filtration: Alginate, silicone and plaster debris all collects in a catch tray and does not enter the sewage system

## 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.



**NEVER OPEN the housing, life-threatening high voltage and it will void any warranty!**

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.

**Never open the filling flap while the unit is running.** When the filling flap is open, the unit can not be started.

**Never open the residues drawer while the unit is running.**

**Never use the unit with solvents. There is a risk of explosion.**

**The water in the washing cabinet is not suitable for drinking.**

Before you use the unit for cleaning, put on heatresistant gloves and wear some form of eye protection.

If the unit is not used for a long time, the tap should be turned off and the unit should be switched off.

The tap has to be equipped with a backflow preventer and ventilation (washing machine tap).



If there is a water leak inside the unit, the humidity sensor switches the device off automatically.

The safety pressure switch switches off the unit automatically at an operating pressure of 7 bar.

The safety valve of the pressure vessel automatically opens at an operating pressure of more than 9 bar.

#### **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.

In all cases Wassermann Dental-Maschinen GmbH is not liable for damages and/ or defects that should arise from the use of the unit on the dental trays or retention plates.

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


The pressure cleaning unit is designed for the cleaning of metal or plastic dental trays and retention plates made of plastic.

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 box, remove the packing materials, and carefully lift out the device and accessories. Check the included accessories.

The device has to stand horizontally on a steady and even surface.



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.



## 7 Installation/ Start-up



**Because your unit has been carefully checked for faultless operation, there may be residual water inside the unit.**



**Before** starting the unit, connect up the following:

- The connections for the supply hose and the discharge hose are located at the rear of the unit.
- Connect the **DTC Economy** to a water tap using the supplied inlet hose. The tap must have a non-return valve and a breather (washing-machine tap), **3/4"** , **min. Ø 15 mm.**
- The water pressure has to be at least **2 bar** with an output of **10 liters / minute.**
- The supplied discharge hose also has to be fixed at the rear side of the unit.
- If possible, run the discharge hose into a heat-resistant bucket or washbasin as the draining water can be very hot.

The unit has to be installed in accordance with the standards of the the installation regulations, viz. the water supply line must be connected to a suitable tap  $\frac{3}{4}$ " and the water discharge must be firmly fixed and have a **free outlet!**

**Finally**, insert the power plug into the socket, making sure that the mains and the unit operate on the same voltage. Make sure that the earthing system of the electrical equipment is installed in accordance with the applicable electrotechnical regulations.



**Never use an extension cable for the connection.**

**Never leave the unit running unattended.**

**Never use the unit without opening the tap and connecting the water drainage in advance.**

## 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.

#### 8.1.1 Main Switch

- The main switch (black rocker switch) is located at the right rearside of the unit.
- The main switch has to be set to "0" when the unit is not in operation.
- To switch on the voltage, set the rocker switch to "I".

#### 8.1.2 Filling Flap (Washing Drum)

The filling flap is located at the upper front of the unit.

The filling flap may only be opened with the fixed handle which is for this purpose.

Hold the handle and turn the handle to the left with little effort.

**Never open the filling flap while the unit is running.**

When the filling flap is open, the unit can not be started.

#### 8.1.3 Flap (Residues Drawer)

The flap of the residues drawer is located at the lower front of the unit.

This flap also may only be opened with the fixed handle which is for this purpose.

Hold the handle and turn the handle to the left with little effort.

**Never open the residues drawer while the unit is running.**

#### 8.1.4 Residues Drawer

The residues drawer is located behind the drawer flap.

The residues drawer can be completely removed from the **DTC Economy** by opening the drawer flap and pulling the drawer forward using the handle.

The residues drawer must always be cleaned and rinsed after two wash cycles.

Before using the program run, always check whether the residues drawer is in the unit.

### 8.2 Preparation of the Fully Automatic Cleaning

#### 8.2.1 Water Tap and Water Drain

Open the tap and make sure that there is no visible leak and that the drain hose is properly attached.

#### 8.2.2 Main Switch

Switch on the unit: Main switch at the rear side of the unit „I“.

#### 8.2.3 Filling the Washing Drum with Impression Trays made of Plastic or Metal

Sort the impression trays to be cleaned into metal and plastic.

The impression trays do not need to be pretreated.

Open the filling flap on the sloping top and leave it open in the desired position.

Fill the drum with a maximum of 25 impression trays.

A load with more than 25 impression trays results in a considerably poorer cleaning result.

We therefore strongly advise against overloading.

After filling the drum, close the filling flap.

#### **8.2.4 Filling the Washing Drum with Retention Plates made of Plastic**

For Retention Plates made of Plastic also follow point 8.2.1 and 8.2.2.  
Then the washing drum can be filled with a maximum of 50 retention plates.

#### **8.3 Check the Residues Drawer**

Before starting the cleaning program, always check that the residues drawer is in the unit and that it has been emptied.

The **DTC Economy** now is ready for operation and the cleaning process.

**8.3.1 Green Button: Cleaning Program for Impression Trays made of Plastic or Metal**

*If you want to clean the **impression trays**, please press the **green button**, the program duration is **2 minutes**.*

**8.3.2 White Button: Cleaning Program for Retention Plates made of Plastic**

*If you want to clean the **retention plates**, please press the **white button**, the program duration is **1 minute**.*

**8.3.3 Red Button: EMERGENCY OFF-SWITCH!**

The cleaning process is stopped immediately when the red button is pressed. Then the machine can be restarted.



**Due to the very high water pressure, never open neither the filling flap nor the residues drawer while the unit is running.**

1 minute cleaning program  
for retention plates

2 minutes cleaning program  
for impression trays

Emergency off-switch



### 8.3.4 Remove the clean Impression Trays / Retention Plates

When the cleaning process is over, the clean impression trays / retention plates can be removed from the washing drum. Just open the filling flap and take out the impression trays / retention plates.

### 8.3.5 Switch off the Unit

If the device is not used, it has to be switched off.  
 Switch the main switch in the rear to "0".

### 8.3.6 Closing the Tap

Close the water supply.

## 9 Troubleshooting

<b>Fault</b>	<b>Cause</b>	<b>Solution</b>
Unit does not start.	When the filling flap is open, the unit can not be started.	Close the filling flap.
Residues drawer overflows.	Residues drawer is full.	Empty the residues drawer.



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.



Every day, remove any impression material that is still in the washing drum and residues drawer.



Clean the filter, which is located under the residues drawer, as required, at least once a week.



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 unit does not require any servicing. Just make sure that the device is kept clean.

### 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

Included in delivery:

Supply line

Supply hose

Discharge hose

Accessories	Item no.
Wasi-Clean water softener, table top version (W 190 x H 405 x D 260 mm)	174995

## 11 Technical Data

DTC Economy	Item no.: 831999
Voltage	220–240 V / 50/60 Hz
Power consumption	12 A
Output	2700 W
W x H x D	490 x 575 x 510 mm
Weight	79 kg
Water supply	3/4" at the tap, min. Ø 15 mm, min. 2 bar with a capacity of 10 l/min
Water consumption	7-8 l/min
Drum capacity	25 dental trays or 50 retention plates

The noise level of the unit amounts to  $\leq 70$  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: **WASSERMANN** Product description: Cleaning unit for  
Dental-Maschinen GmbH dental  
Rudorffweg 15 - 17 applications  
D-21031 Hamburg

Model: DTC Economy Item no. 831999

Applicable standards: DIN EN 61010-1  
DIN EN 61000-6-3  
DIN EN 61000-6-1  
DIN 45635-1  
DIN EN 60335-1  
DIN EN ISO 12100  
DIN EN ISO 14121-1  
DIN EN ISO 60204-1  
DIN EN 61326-1  
DIN EN 55 014-2

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, 2021-03-26

Company stamp :



Signature: \_\_\_\_\_  
Sven Wassermann  
(Managing Director)



Notes:



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