



Quality

## Laboratory Glassware Washer-Disinfectors



Washer-Disinfector Line

# Superior Glassware Disinfection

The Laboratory Glassware range of Washer-Disinfectors provides superior cleaning and disinfection combined with innovative options to minimize cost and time. This comprehensive approach offers a flexible solution for safe and thorough processing of a wide range of equipment used in the laboratory for testing and analysis.



## Washer-Disinfector Line

### High Quality Cleaning and Disinfection

For reliable laboratory results re-used equipment must be thoroughly cleaned. Regular washing using Tiva Laboratory Washer-Disinfectors ensures that repeated use of equipment in the laboratory does not affect reliability.

#### Thermal Disinfection

Thermal disinfection takes place at 90°C with a temperature holding time in compliance with EN ISO 15883. Both temperature and time can be modified to meet the specific customer requirements.

#### Mechanical Cleaning Action

Heavy duty pumps ensure high flow rate of water and effective yet gentle water spray pressure for better and faster cleaning results.

#### Designed to Stay Clean

The washing chamber is designed with smooth edges and corners to ensure a clean chamber surface and to prevent dirt build-up.



### Long Lasting and Safe

Handling of equipment is minimized since the washer disinfectors range is fully automatic. This greatly reduces any risks associated with manual cleaning, such as broken glass and exposure to hazardous substances.

#### Water Quality

Built-in large capacity water softeners enhance cleaning and prevent build-up of scale. Connections to cold, warm and DI water are available with a triple water filter system that captures residues so that they are not re-circulated, thus lengthening pump lifetime.

#### Quality Components

Washing chamber, washing arms and filters are made of high quality corrosion proof AISI 316 stainless steel. The external cabinet is made of AISI 304 stainless steel. Double wall chamber construction and thorough insulation minimize heat loss and electricity consumption.

### Standard Compliant

All Tuttnauer washer disinfectors comply with 93/42/EEC and are manufactured in accordance with EN ISO 15883-1 and 2.

## Tiva 610 Lab

### 250 liter chamber

- Basket volume 220 Liters
- Built-in water softener
- Hot air drying
- Single Door
- Three position sliding rails

The Tiva 610 Lab is designed with an extended chamber height. It features three washing/drying levels with telescopic sliding rails on four positions and has the capability of cleaning bottles of up to 50 liters.



## Tiva 600 Lab

### 200 liter chamber

- Basket volume 170 Liters
- Built-in water softener
- Hot air drying
- Single Door
- Three position sliding rails

The Tiva 600 Lab Laboratory glassware washer disinfectors are ideal for medium sized research centers and laboratories to wash and dry all types of glassware and other items. An easy to install single door freestanding washer features two washing/drying levels with telescopic sliding rails on three positions (the upper level height is adjustable). Operation is simple and minimizes the risks due to handling.





## Features

### Performance

- Washing and disinfection temperatures are fully adjustable up to 90°C
- Temperature controlled by means of two independent PT1000 probes
- Fresh water intake between each phase of the cycle promotes hygiene and better cleaning
- Connections to cold, warm and DI water are available, with a triple water filter system that captures residues so that they are not re-circulated, thus lengthening pump life
- A heavy duty self-cleaning water circulation pump ensures rapid flow rate and effective spray pressure
- Filtered forced air drying, with adjustable time and temperature settings, helps to ensure complete drying inside and outside of all the glassware and laboratory instruments
- Built-in water softener enhances cleaning effectiveness and prevents limescale build-up

### Design and Convenience

- LCD display with 20 standard programs and 20 additional custom programs
- RS-232 printer connection for documenting washing phases
- Telescopic sliding rails for safe and easy loading and unloading of glassware
- Equipped with two chemical dosing pumps (two additional pumps optional) under microprocessor control, with the option of modifying the required detergent quantities of each cycle
- Doors are positioned at a convenient height for loading and unloading using a trolley
- Glass viewing window
- Self-cleaning chamber with rounded edges
- Steam condenser prevents steam from entering into the laboratory
- Capacity to store up to four 5 liter containers of detergent

### Optional

- 3rd and 4th chemical dosing pump
- HEPA H14 air filter
- Integrated printer

## Tiva 500 Lab

### 171 liter chamber

- Basket volume 151 Liters
- Single Door
- Built-in water softener
- Two position sliding rails

The Tiva 500 Lab laboratory glassware washer-disinfectors are ideal for small research centers and laboratories to wash all types of glassware and other items. A single door washer, specially designed for installations with limited space, with a washing injection system on two levels. Operation is simple and minimizes the risks due to handling.





## Features

### Performance

- Washing and disinfection temperatures are fully adjustable up to 90°C
- Temperature is controlled by means of two independent PT1000 probes
- Fresh water intake between each phase of the cycle promotes hygiene and better cleaning
- Connections to cold, warm and DI water are available, with a triple water filter system that captures residues so that they are not re-circulated, thus lengthening pump life
- Heavy duty self-cleaning water circulation pump ensures rapid flow rate and effective spray pressure
- Built-in water softener enhances cleaning effectiveness and prevents limescale build-up

### Design and Convenience

- LED display with 5 adjustable washing programs
- RS-232 printer connection for documenting the washing phases
- Telescopic sliding rails for safe and easy loading and unloading of glassware
- Equipped with two chemical pumps (two additional pumps optional) under microprocessor control, with the option of modifying the required detergent quantities of each cycle
- Self-cleaning chamber with rounded edges
- Steam condenser prevents steam from entering into the laboratory

### Optional

- Extra power 8 kW
- 3rd chemical dosing pump
- External printer

Model Name	Tiva 500 Lab	Tiva 600 Lab	Tiva 610 Lab
<b>Dimensions</b>			
Width/Depth/Height mm	600/630/850 mm	650/660/1685 mm	650/667/1840 mm
Net Weight	88 Kg	156 Kg	245 Kg
Gross Weight	93 Kg	176 Kg	260 Kg
Basket Volume	151 Liters	170 Liters	220 Liters
<b>Connections</b>			
Drain Pipe	Diam. 25 mm	Diam. 40 mm	Diam. 40 mm
Electrical Connection	400 Vac 3 N+T / 50Hz	400 Vac 3 N+T / 50Hz	400 Vac 3 N+T / 50Hz
Total Power	5600 W	8250 W	8250 W
Pump Power	550 W	750 W	750 W
Dryer Blower	-	150 m <sup>3</sup> /h	250 m <sup>3</sup> /h
Dryer heating	-	2000 W	3000 W
Breather Pipe Chamber	-	Diam. 60 mm	Diam. 60 mm
Demineralized Water Connection	¾" GAS DN 20 mm	¾" GAS DN 20 mm	¾" GAS DN 20 mm
<b>Connections - Cold Water</b>			
Hydraulic Connection Cold Water	¾" GAS DN 20 mm	¾" GAS DN 20 mm	¾" GAS DN 20 mm
Min./Max. Pressure	1.0 / 5.0 bar	1.0 / 5.0 bar	1.0 / 5.0 bar
Flow Rate	24 Liters/minute at 2 bar pressure.	24 Liters/minute at 2 bar pressure.	24 Liters/minute at 2 bar pressure.
Min./Max. Temperature	10° / 15°C	10° / 15°C	10° / 15°C
<b>Connections - Warm Water</b>			
Hydraulic Connection Warm Water	¾" GAS DN 20 mm	¾" GAS DN 20 mm	¾" GAS DN 20 mm
Min./Max. Pressure	1.0 / 5.0 bar	1.0 / 5.0 bar	1.0 / 5.0 bar
Flow Rate	24 Liters/minute at 2 bar pressure.	24 Liters/minute at 2 bar pressure. Dynamic.	24 Liters/minute at 2 bar pressure. Dynamic.
Min./Max. Temperature	40° - 55°C	45° - 60°C	45° - 60°C
<b>Utilities</b>			
Noise	52 dBA	56 dBA	57.5 dBA
Min./Max. Permitted Room Temperature	+5°C / +40°C	+5°C / +40°C	+5°C / +40°C

## Washer-Disinfector Line

International Sales and Marketing  
E-mail: [info@tuttnauer-hq.com](mailto:info@tuttnauer-hq.com)  
[www.tuttnauer.com](http://www.tuttnauer.com)

Tuttnauer Europe b.v.  
Hoeksteen 11, 4815 PR  
P.O.B. 7191, 4800 GD Breda  
The Netherlands  
Tel: +31 (0) 765 423 510 Fax: +31 (0) 765 423 540  
E-mail: [info@tuttnauer.nl](mailto:info@tuttnauer.nl)

Tuttnauer USA Co.  
25 Power Drive,  
Hauppauge, NY 11788  
Tel: +800 624 5836, +631 737 4850 Fax: +631 737 0720  
E-mail: [info@tuttnauer.com](mailto:info@tuttnauer.com)

  
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