

TIVA LAB

High-End Glassware Washer for Laboratories

Bringing over 95 years of Professionalism into your laboratory





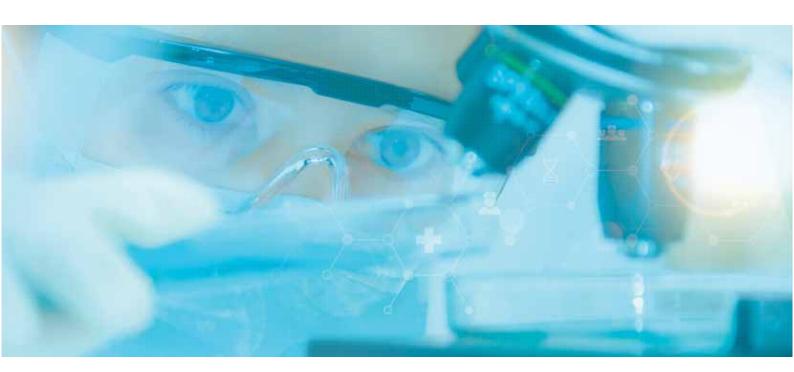
— Equipements, Conseil, Services —



Made with Over 95 Years of Experience

Tuttnauer's sterilization and infection control solutions are trusted by **laboratories**, hospitals, and clinics in more than 140 countries. For over 95 years Tuttnauer has been passionate about delivering a complete

sterilization solution to the healthcare and life science industries. We are proud to have installed over 350,000 sterilization and infection control products around the world.



Welcome to the **TIVA** Lab Washer Series

Complete sterile processing solutions

The TIVA product line corresponds with Tuttnauer's vision, to provide complete end-to-end solutions for reprocessing needs to all the industries it serves, in particular for laboratories. Incorporating a glassware washer in your lab provides for maximum flexibility, sustainability, and an efficient driven solution for glassware treatment.

Safe and efficient **cleaning**, **decontamination** and **drying** of laboratory glassware.

Tuttnauer high disinfection thermal washers provide effective decontamination, washing and drying for a wide range of different glassware and other materials which are commonly used in laboratories.

Supported by a wide range of racks, nozzles, spindles and accessories.

Designed to simplify your work by eliminating manual washing and reducing your manpower. Ensuring the safety of your patients by providing consistent quality washing cycles at all time and ensuring the safety of your staff by eliminating risks of exposure to potentially harmful aerosols.



Intuitive User Experience

- A full control and all-in-one operation from a single touch panel with color display
- Alarm-check system for quick and easy operation
- Washer RePortal SW
- User PIN access management (optional)
- Graphical report of washing phases including time and temperature
- Spray Arm monitoring for continuous washing validation (optional)



Advanced Control and Warning System

- Microcontroller manages data from multiple sensors to support smooth, efficient and reliable operation
- Chemical dosing control
- Real-time indication of water level and quality



Easy to Clean and Maintain Process Monitoring

- The only washer with a water-emptying total system (ETS)
- Easy-to-remove and easy-to-wash spray arms
- Long-lasting components require minimal servicing



Premium Performance

- Up to 40 washing programs. Preset and customized
- Water quality monitoring
- Validation of every cycle using continuous water pressure monitoring
- Quick drying phases due to a steam condenser system
- Uniform forced air drying, dust blocking (HEPA filter is optional)
- Accelerated heating time by using an integrated boiler (optional)
- Reduced program times and electricity consumption using hybrid heating system (optional)
- Water softener system (optional)
- Conductivity probe (optional)



Highest Design Standards

State of the art quality

- Chemical-resistant double-layered glass
- AISI 316L Stainless Steel
- Double-layered tempered glass door for visual monitoring

TIVA15-1VL

AUTOMATIC DOOR

Machine equipped with an automatic sliding door, of double tempered glass, for laboratory glassware with 4 independent levels. The upper levels are removable for washing large materials. On request, it can be equipped with a system that filters, electrically heats and forces, with a powerful blower, the air in the wash chamber and inside the hollow instruments. A wide range of racks, nozzles and accessories, suitable to wash and dry a wide variety of laboratory glassware.

Touchpad keyboard with graphical display

Thanks to the LCD (70x50) graphic touch display, it is possible to choose the desired program or to enter the device programming menu. The LCD display also shows the current state of the machine, using animated graphics that appear on it.



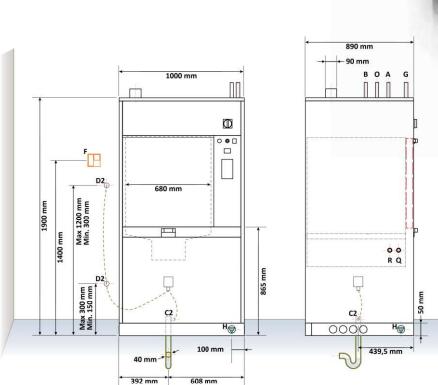
Dosing pumps

Up to 5 dosing pumps with level control sensors and flow meters for monitoring the detergent quantity can be mounted (2 dosing pumps are already mounted in the standard machine).



Liquid detergent canisters

5 Liter liquid detergent canisters are placed inside the base of the device (max. 4 canisters).





Technical features	TIVA15-1VL
External dimension (WxDxH):	1000x890x1900 mm
Chamber dimension (WxDxH):	680x790x810 mm
Max pump flow rate:	626 l/mn
Max absorbed power:	19,6 kW
Max number of dosing pumps for chemicals with flowmeters:	5
Chemical tank capacity:	5 Liter
Device configuration options	
USB SLAVE interface for PC:	•
USB HOST interface for FLASH DRIVE:	•
Interface for external printer or data connection exchange:	•
Touch panel with color graphic display:	•
Certificated plumbing system, designed to isolate the potable water pipeline system (water gap) as prescribed by European Standard EN 1717:	•
Automatic door:	•
Wash chamber made of high quality stainless steel, AISI 316L (EN 1.4404):	•
Hot water connection:	•
Cold water connection:	•
Deionized water connection:	•
Forced air drying:	+
HEPA H14 filter:	+
Main switch ON/OFF. In accordance with the electrical connection:	+
(E.T.S.) Empty Total System:	+
Hybrid heating system: electric steam:	+
Deionized water heating with boiler:	+
Drain pump:	+
Conductivity probe:	+
Water softener system:	+
Wash chamber LED light:	+
Spray arm monitor:	+
Built-in printer frontally installed:	+

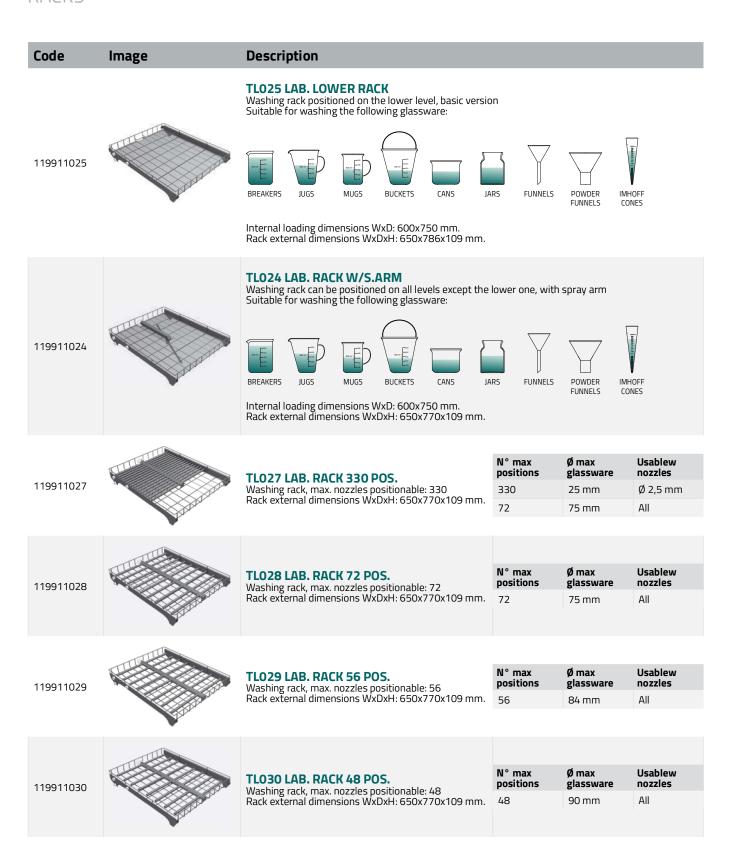
The reference values are based on a voltage of 230 V between Phase and Neutral (between Phase and Phase in three-phase versions without Neutral) with a possible variance between -5 and +10%.

LEGEND

А	Hot water connection - male-thread G ½" (tube G ½")		
В	Cold water connection - male-thread G ¾" (tube G ½")		
C2	Drain Ø1"½ (DN40) - hose connection 1" (25mm) (at floor)		
D2	Drain Ø1"½ (DN40) - hose connection 1" (25mm) (at wall)		
F	Omnipolar magneto switch with a circuit breaker		
G	Electrical connection box		
Н	Equipotential clamp		
0	Deionized water connection - male-thread G ¾" (tube G ½")		
Q	Steam connection G da ½" (inlet)		
S	Steam connection G da ½" (outlet)		

TIVA15-1VL

RACKS



Code	Image	Description

119911031



TLO31 LAB. RACK 18 POS.

Washing rack, max. nozzles positionable: 18 Rack external dimensions WxDxH: 650x770x109 mm.

N° max positions	Ø max glassware	Usablew nozzles	
18	150 mm	All	

119911032



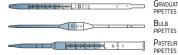
TL032 LAB. RACK 10 POS.Washing rack, max. nozzles positionable: 10
Rack external dimensions WxDxH: 650x770x109 mm.

N° max	Ø max	Usablew
positions	glassware	nozzles
10	190 mm	All

119911026



TLO26 LAB. LOWER RACK 88 POS. PIP. Washing rack for pipettes positioned at the lower level, max pipettes can be positioned: 88 Suitable for washing the following glassware:



Max pipette length Min pipette length 250 700 mm

Rack external dimensions WxDxH: 630x785x355 mm.

ATS238-0291



A016 FIX. H. TRANSF. TROLLEY AWD655-15A

Loading trolley with block system to load washing material into the machine Rack external dimensions WxDxH: 925x723x875 mm.

TIVA LAB LINE

NOZZELS

Code	Image	Description	Additional Description	
P00001002	ψ	A090 NOZZLE Ø6 INT. 3-FLEX H=120 External dimensions WxH: 75x140 mm.	NOTALE WITH ELEVIPLE INTERNAL &C	
P00001006	*	A091 NOZZLE Ø6 INT. 3-FLEX H=230 External dimensions WxH: 75x230 mm.	NOZZLE WITH FLEXIBLE INTERNAL - Ø 6 mm Nozzles Ø 6 mm with 3 flexible internal arms to block the glassware during washing, avoiding possible movements, falls and breakage of the glassware Suitable for washing the following glassware:	
P00001007	*	A092 NOZZLE Ø6 INT. 3-FLEX H=280 External dimensions WxH: 75x280 mm.	ERLENMEYER WIDE NECK NARROW NECK WEIGHING GRADUATED IMHOFF FLASKS WIDE BOTTLES BOTTLES BOTTLES CONES	
P00001008	*	A093 NOZZLE Ø6 C H=120 External dimensions WxH: 75x120 mm.		
P00001009	*	A094 NOZZLE Ø6 C+S H=140 External dimensions WxH: 75x140 mm.		
P00001010	¥	A095 NOZZLE Ø6 C+S H=180 External dimensions WxH: 75x180 mm.	STANDARD NOZZLES - Ø 6 mm Suitable for washing the following glassware:	
P00001011	*	A096 NOZZLE Ø6 C+S H=230 External dimensions WxH: 75x230 mm.	HIGH CAPACITY GRADUATED FLASKS CYLINDERS	
P00001012	×	A097 NOZZLE Ø6 C+S H=280 External dimensions WxH: 75x280 mm.		

Code	Image	Description	Additional Description
P00001013	*	A098 NOZZLE Ø6 C+INT. C.28 H=120 External dimensions WxH: 75x120 mm.	
P00001014	*	A099 NOZZLE Ø6 C+S+INT. C.28 H=140 External dimensions WxH: 75x140 mm.	
P00001015	*	A100 NOZZLE Ø6 C+S+INT. C.28 H=180 External dimensions WxH: 75x180 mm.	NOZZLE WITH RIGID INTERNAL - Ø 6 mm Nozzles Ø 6 mm with rigid bottle holder to block the glassware during washing, avoiding possible movements, falls and breakages of the glassware Suitable for washing the following glassware:
P00001016	*	A101 NOZZLE Ø6 C+S+INT. C.28 H=230 External dimensions WxH: 75x230 mm.	ERLENMEYER WIDE NECK FLASKS WIDE BOTTLES NECK
P00001017	*	A102 NOZZLE Ø6 C+S+INT. C.28 H=280 External dimensions WxH: 75x280 mm.	
P00001018		A103 NOZZLE Ø6 EXT. 3-FLEX H=180 External dimensions WxH: 73,5 (flex) x180 mm.	NOZZLE WITH FLEXIBLE EXTERNAL - Ø 6 mm
P00001019		A104 NOZZLE Ø6 EXT. 3-FLEX H=230 External dimensions WxH: 73,5 (flex) x230 mm.	Nozzles Ø 6 mm with 3 flexible external arms to block the glassware during washing, avoiding possible movements, falls and breakages of the glassware Suitable for washing the following glassware:
P00001020		A105 NOZZLE Ø6 EXT. 3-FLEX H=280 External dimensions WxH: 73,5 (flex) x280 mm.	ERLEN- MEYER FLASKS NAB- NARROW NECK FOW NECK

Code	Image	Description	Additional Description
P00001021	*	A106 NOZZLE Ø4 C H=76 External dimensions WxH: 54x76 mm.	
P00001022	*	A107 NOZZLE Ø4 C+S H=111 External dimensions WxH: 54x111 mm.	STANDARD NOZZLES - Ø 4 mm Suitable for washing the following glassware:
P00001023	*	A108 NOZZLE Ø4 C+S H=176 External dimensions WxH: 54x176 mm.	HIGH CAPACITY GRADUATED FLASKS CYLINDERS
P00001024		A109 NOZZLE Ø2.5 P H=81 External dimensions WxH: 15,5x81 mm.	
P00001025		A110 NOZZLE Ø2.5 P+S H=81 External dimensions WxH: 15,5x81 mm.	
P00001026	*	A111 NOZZLE Ø2.5 C H=51 External dimensions WxH: 32x51 mm.	STANDARD OR WITH RIGID CAP NOZZLES - Ø 2.5 mm Nozzles Ø 2.5 mm standard or with internal rigid cap for small glassworks. To block the glassware during washing, avoiding possible movements, falls and breakages of the glassware Suitable for washing the following glassware:
P00001027	*	A112 NOZZLE Ø2.5 C H=81 External dimensions WxH: 32x81 mm.	TEST TUBES LOW CAPACITY CENTRIFUGE TUBES
P00001028	*	A113 NOZZLE Ø2.5 C H=156 External dimensions WxH: 32x156 mm.	

TIVA LAB LINE

ACCESSORIES

Code	Image	Description
D00559900		A114 CAP SCREW M8x1 Hexagon head screw with M8x1 thread To be screwed to the positions of the rack where the nozzles are not placed, to allow the passage of the washing water only in the occupied positions.
119905072		A130 TEST TUBES BASKET H=160 Test tube basket Use up to 4 baskets per cart. Suitable for washing the following glassware: TEST TUBES Maximum tube height: 150 mm.
D00285200		A032 INSERT FOR PETRI DISHES Insert capacity: 30 pcs. Petri dishes. Suitable for washing the following glassware: PETRI DISHES External dimensions WxDxH: 470x240x77 mm.
D00570100		A115 BOTT. RIGID SUPPORT Ø33 Bottle holder Ø 33 mm for nozzles with rigid inside Ø 6 mm
D00570300	M	A116 BOTT. RIGID SUPPORT Ø45 Bottle holder Ø 45 mm for nozzles with rigid inside Ø 6 mm
467010017		A128 ADAP. MALE LUER TO M8X1 MALE THREAD Luer-Lock attachment adapter
467010018		A129 PVDF FEMALE LUER TO 3/16" HOSE BARB Hose holder for Luer-Lock attachment
467010019		A131 PVDF MALE LUER TO 3/16" HOSE BARB Hose holder for Luer-Lock attachment
467010020		A132 PVDF FEMALE LUER TO 1/4" HOSE BARB Hose holder for Luer-Lock attachment
467010021		A133 PVDF MALE LUER TO 1/4" HOSE BARB Hose holder for Luer-Lock attachment
467010022	8	A134 PVDF ELBOW FITTING 1/4" HOSE BARB Hose holder for Luer-Lock attachment

LTR330-103/WAS/TIVA8LAB/V-1/05.21

Le saviez-vous?

Des laboratoires dans 142 pays du monde utilisent les autoclaves Tuttnauer. Fort de ses 95 ans d'expérience dans l'industrie, Tuttnauer propose des solutions de pointe pour tous les types de laboratoires, avec une gamme de produits disponibles dans un large éventail de tailles et des capacités de stérilisation précises et de haute qualité, couvrant toutes les exigences des laboratoires.



Gros Autoclaves de laboratoire



Autoclaves horizontaux de laboratoire



Autoclaves de laboratoire TLC



Ligne ELV - Autoclaves verticaux de laboratoire



Ligne EL - Autoclaves de paillasse de laboratoire

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