Tuttnauer Lab

TIVA LAB

High-End Glassware Washer for Laboratories

Bringing **over 95 years of Professionalism** into your laboratory

Laboratory

Tuttnauer Lab

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

TIVA8-1ML | TIVA8-X-1ML | TIVA8-XE-1ML

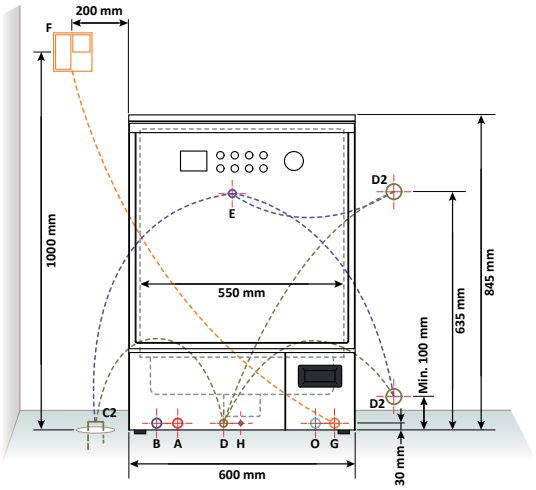
Under-Counter Washer

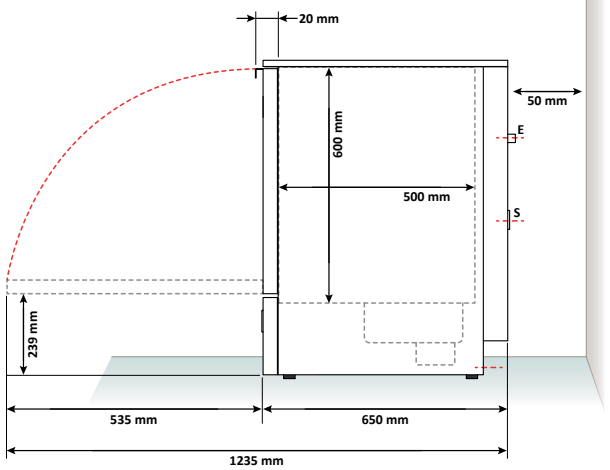
Chamber Capacity - 165 Liter

Door resistant to aggressive chemicals • Ergonomic handle
Durable and transparent glass door (TIVA8-1ML) or
Stainless steel (TIVA8-X-1ML | TIVA8-XE-1ML)

A wide range of racks, nozzles and accessories complete these machines, suitable to wash and dry a wide variety of laboratory glassware.

Dimensions	TIVA8-1ML	TIVA8-X-1ML	TIVA8-XE-1ML
External dimension (WxDxH) mm	600x650x845	600x650x845	600x650x845
Chamber dimension (WxDxH) mm	550x500x600	550x500x600	550x500x600





Legend

A	Hot water connection - male-thread G ¾" (tube G ½")	**F**	Omnipolar magneto switch with a circuit breaker
B	Cold water connection - male-thread G ¾" (tube G ½")	**G**	Electrical connection box
C2	Drain Ø1" ½ (DN40) - hose connection 1" (25mm) (at floor)	**H**	Equipotential clamp
D	Drain connection to the machine	**O**	Deionized water connection - male-thread G ¾" (tube G ½")
D2	Drain Ø1" ½ (DN40) - hose connection 1" (25mm) (at wall)	**S**	Steam outlet exhaust
E	Output connection capacitor discharge machine		

TIVA8-WD-1ML | TIVA8-WD-XE-1ML

Under-Counter Washer

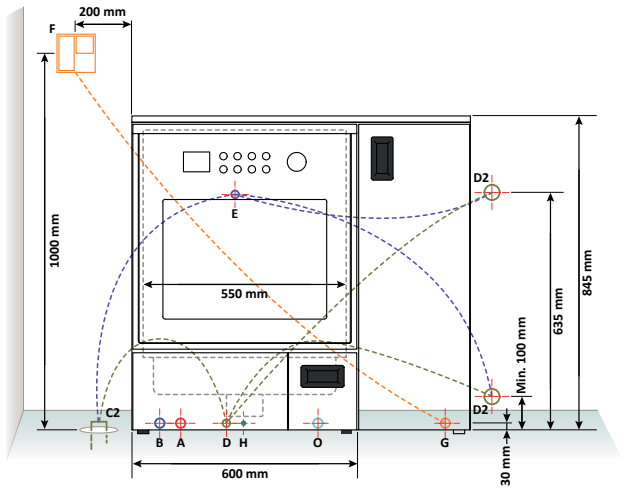
Chamber Capacity - 165 Liter

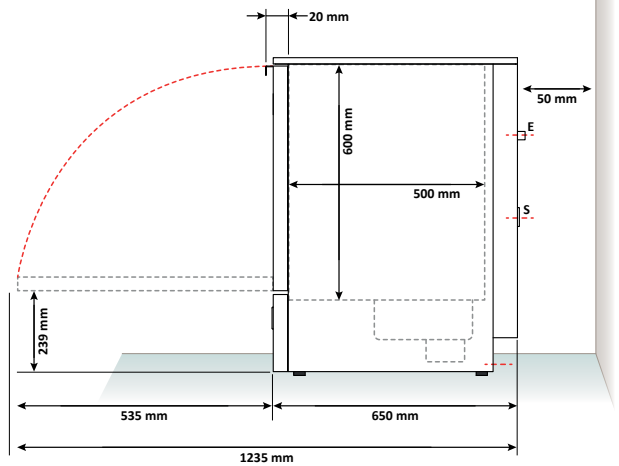
Door resistant to aggressive chemicals - Ergonomic handle. Durable and transparent glass door (TIVA8-WD-1ML) or Stainless steel (TIVA8-WD-XE-1ML).

A wide range of racks, nozzles and accessories complete these machines, suitable to wash and dry a wide variety of laboratory glassware.

Detergent storage compartment
Located in the side panel with a handle to allow access to it.

Dimensions	TIVA8-WD-1ML	TIVA8-WD-XE-1ML
External dimension (WxDxH) mm	900x650x845	900x650x845
Chamber dimension (WxDxH) mm	550x500x600	550x500x600





Legend

A	Hot water connection - male-thread G ¾" (tube G ½")	**F**	Omnipolar magneto switch with a circuit breaker
B	Cold water connection - male-thread G ¾" (tube G ½")	**G**	Electrical connection box
C2	Drain Ø1" ½ (DN40) - hose connection 1" (25mm) (at floor)	**H**	Equipotential clamp
D	Drain connection to the machine	**O**	Deionized water connection - male-thread G ¾" (tube G ½")
D2	Drain Ø1" ½ (DN40) - hose connection 1" (25mm) (at wall)	**S**	Steam outlet exhaust
E	Output connection capacitor discharge machine		

Technical features

● Standard + Optional / Not available

Features	TIVA8-1ML	TIVA8-X-1ML	TIVA8-XE-1ML	TIVA8-WD-1ML	TIVA8-WD-XE-1ML
Standard Features					
Certified according to 2006/42/EC, 2014/35/EU, 2011/65/EU, 2014/30/EU, EN61010-1, EN 61326-1	●	●	●	●	●
Pluming system, designed to isolate the potable water pipeline system (water gap) as prescribed by EN 1717	●	●	●	●	●
Wash chamber made of high quality stainless steel, AISI 316L (EN 1.4404)	●	●	●	●	●
Manual door with interlock	●	●	●	●	●
USB SLAVE interface for PC	●	●	●	●	●
USB HOST interface for FLASH DRIVE	●	●	●	●	●
Interface for external printer or data connection exchange	●	●	●	●	●
RS232 Interface for external cycles documentation	●	●	●	●	●
Touch panel with color graphic display	●	●	●	●	●
Parallel Interface for printer	●	●	●	●	●
Forced air drying	●	●	/	●	/
Hot/Cold water connection	●	●	●	●	●
Optional Features					
HEPA H14 filter	+	+	/	+	/
Conductivity probe	+	+	+	+	+
Cold/hot water softener system:	+	+	+	+	+
Wash chamber LED light	+	/	/	+	/
Demineralized water connection	+	+	+	+	+
Spray arm monitor	+	+	+	+	+
External printer for process-documentation	+	+	+	+	+
Technical features	**TIVA8-1ML**	**TIVA8-X-1ML**	**TIVA8-XE-1ML**	**TIVA8-WD-1ML**	**TIVA8-WD-XE-1ML**
Max pump flow rate	370 L/min	370 L/min	370 L/min	370 L/min	370 L/min
Max drying fan flow rate with filter	180 m^3/h	180 m^3/h	-	180 m^3/h	-
Max absorbed power *	6.2 kW	6.2 kW	6.2 kW	6.2 kW	6.2 kW
Max number of dosing pumps for chemicals with flowmeters	4	4	4	4	4
Chemical tank capacity	5 L	5 L	5 L	5 L	5 L

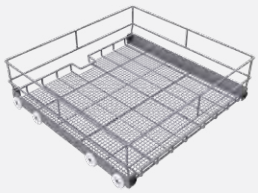
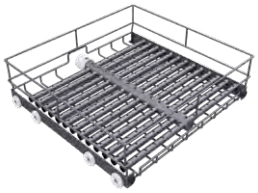
The reference values are based on a voltage of 230 V between Phase and Neutral (between Phase and Phase in three-phase versions without Neutral) with a possible variance between -5 and +10%.

* Max absorbed power varies for each voltage. Please check the configuration data-sheet for exact figures

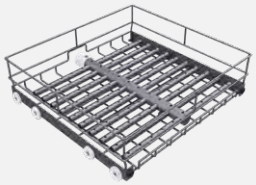
Tuttnauer Lab

TIVA8-1ML | TIVA8-X-1ML | TIVA8-XE-1ML
TIVA8-WD-1ML | TIVA8-WD-XE-1ML

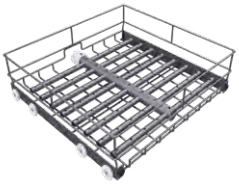
RACKS

Code	Image	Description
119905130		**TL130 LAB. LOWER RACK** Washing rack positioned on the lower level, basic version Suitable for washing the following glassware: Internal loading dimensions WxD: 500x485 mm. Rack external dimensions WxDxH: 525x502x148 mm.
119905139		**TL139 LAB. LOWER RACK 195 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 195 Rack external dimensions WxDxH: 525x497x148 mm.

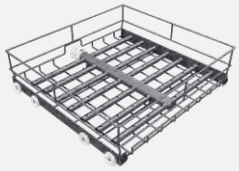
N° max positions	Ø max glassware	Usable nozzles
195	30 mm	Ø 2,5 mm
56	57 mm	Ø 2,5/4 mm
41	70 mm	All

Code	Image	Description
119905125		**TL125 LAB. LOWER RACK 110 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 110 Rack external dimensions WxDxH: 525x497x148 mm.

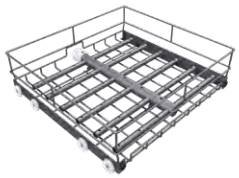
N° max positions	Ø max glassware	Usable nozzles
110	40 mm	Ø 2,5 mm
56	57 mm	Ø 2,5/4 mm
41	70 mm	All

Code	Image	Description
119905140		**TL140 LAB. LOWER RACK 72 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 72 Rack external dimensions WxDxH: 525x497x148 mm.

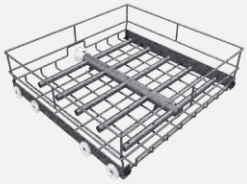
N° max positions	Ø max glassware	Usable nozzles
72	50 mm	Ø 2,5 mm
56	57 mm	Ø 2,5/4 mm
41	70 mm	All

Code	Image	Description
119905141		**TL141 LAB. LOWER RACK 56 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 56 Rack external dimensions WxDxH: 525x497x148 mm.

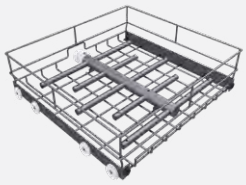
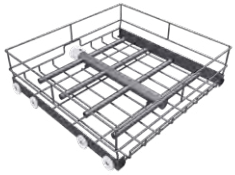
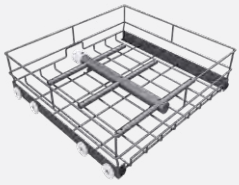
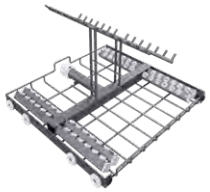
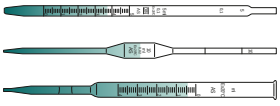
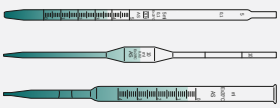
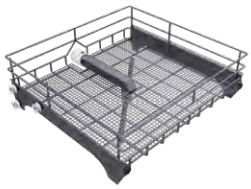
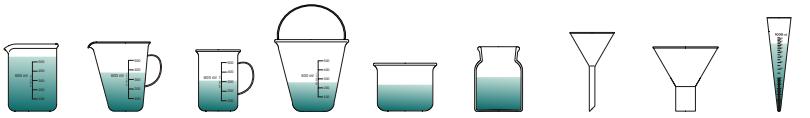
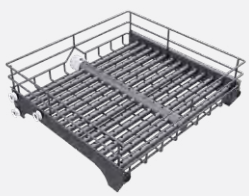
N° max positions	Ø max glassware	Usable nozzles
56	57 mm	Ø 2,5/4 mm
41	70 mm	All

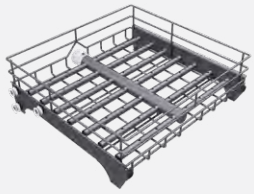
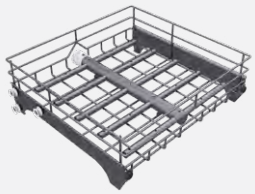
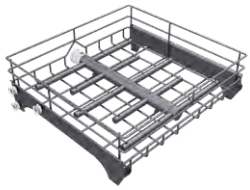
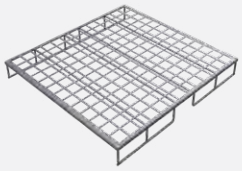
Code	Image	Description
119905142		**TL142 LAB. LOWER RACK 41 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 41 Rack external dimensions WxDxH: 525x497x148 mm.

N° max positions	Ø max glassware	Usable nozzles
41	70 mm	All

Code	Image	Description
119905143		**TL143 LAB. LOWER RACK 25 POS.** **Washing rack positioned at the lower level, max. nozzles positionable: 25** Rack external dimensions WxDxH: 525x497x148 mm.

N° max positions	Ø max glassware	Usable nozzles
25	89 mm	All

Code	Image	Description	
119905144		**TL144 LAB. LOWER RACK 18 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 18 Rack external dimensions WxDxH: 525x497x148 mm.	**N° max positions** 18 **Ø max glassware** 105 mm **Usable nozzles** All
119905145		**TL145 LAB. LOWER RACK 16 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 16 Rack external dimensions WxDxH: 525x497x148 mm.	**N° max positions** 16 **Ø max glassware** 110 mm **Usable nozzles** All
119905146		**TL146 LAB. LOWER RACK 9 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 9 Rack external dimensions WxDxH: 525x497x148 mm.	**N° max positions** 9 **Ø max glassware** 150 mm **Usable nozzles** All
119911019		**TL019 LAB. LOWER RACK 48 POS. PIP.** Washing rack for pipettes positioned at the lower level, max pipettes can be positioned: 48 Suitable for washing the following glassware:  GRADUATED PIPETTES BULB PIPETTES PASTEUR PIPETTES Rack external dimensions WxDxH: 525x497x313 mm.	**Min pipette length** 250 mm **Max pipette length** 535 mm
119911020		**TL020 LAB. LOWER RACK 2 CASS. PIP.** Pipettes washing rack positioned at the lower level, with 2 cassettes Suitable for washing the following glassware:  GRADUATED PIPETTES BULB PIPETTES PASTEUR PIPETTES Rack external dimensions WxDxH: 525x497x346 mm.	**Min pipette length** All **Max pipette length** 290 mm
119905126		**TL126 LAB. UPPER RACK W/S.ARM** Washing rack positioned on the upper level, with spray arm Suitable for washing the following glassware:  BREAKERS JUGS MUGS BUCKETS CANS JARS FUNNELS POWDER FUNNELS IMHOFF CONES Internal loading dimensions WxD: 485x465 mm. Rack external dimensions WxDxH: 530x483x164 mm.	
119905132		**TL132 LAB. UPPER RACK 195 POS.** Washing rack positioned at the upper level, max. nozzles positionable: 195 Rack external dimensions WxDxH: 530x483x164 mm.	**N° max positions** 195 56 36 **Ø max glassware** 30 mm 57 mm 74 mm **Usable nozzles** Ø 2,5 mm Ø 2,5/4 mm All

Code	Image	Description			
119905131		**TL131 LAB. UPPER RACK 110 POS.** Washing rack positioned at the upper level, max. nozzles positionable: 110 Rack external dimensions WxDxH: 530x483x164 mm.	**N° max positions**	**Ø max glassware**	**Usable nozzles**
			110	40 mm	Ø 2,5 mm
			56	57 mm	Ø 2,5/4 mm
			36	74 mm	All
119905134		**TL134 LAB. UPPER RACK 72 POS.** Washing rack positioned at the upper level, max. nozzles positionable: 72 Rack external dimensions WxDxH: 530x483x164 mm.	**N° max positions**	**Ø max glassware**	**Usable nozzles**
			72	50 mm	Ø 2,5 mm
			56	57 mm	Ø 2,5/4 mm
			36	74 mm	All
119905135		**TL135 LAB. UPPER RACK 56 POS.** Washing rack positioned at the upper level, max. nozzles positionable: 56 Rack external dimensions WxDxH: 530x483x164 mm.	**N° max positions**	**Ø max glassware**	**Usable nozzles**
			56	57 mm	Ø 2,5/4 mm
			36	74 mm	All
119905136		**TL136 LAB. UPPER RACK 36 POS.** Washing rack positioned at the upper level, max. nozzles positionable: 36 Rack external dimensions WxDxH: 530x483x164 mm.	**N° max positions**	**Ø max glassware**	**Usable nozzles**
			36	74 mm	All
119905137		**TL137 LAB. UPPER RACK 25 POS.** Washing rack positioned at the upper level, max. nozzles positionable: 25 Rack external dimensions WxDxH: 530x483x164 mm.	**N° max positions**	**Ø max glassware**	**Usable nozzles**
			25	90 mm	All
119905138		**TL138 LAB. UPPER RACK 18 POS.** Washing rack positioned at the upper level, max. nozzles positionable: 18 Rack external dimensions WxDxH: 530x483x164 mm.	**N° max positions**	**Ø max glassware**	**Usable nozzles**
			18	105 mm	All
D00643500		**A126 RAISING GRID** Raising grid suitable for washing racks positioned at the upper level Grid external dimensions WxDxH: 477x456x51 mm.			
ATS238-0103		**A136 STAINLESS STEEL STAND TIVA8** Stand for TIVA8-1ML, TIVA8-X-1ML, and TIVA8-XE-1ML provide an ergonomics height of 150 cm, when the machine is not installed undercounter. Suitable for use as a detergent storage compartment Stand external dimension WxDxH: 600x585x600 mm.			
ATS238-0104		**A137 STAINLESS STEEL STAND TIVA8-WD** Stand for TIVA8-WD-1ML and TIVA8-WD-XE-1ML provide an ergonomics height of 150 cm, when the machine is not installed undercounter. Suitable for use as a detergent storage compartment Stand external dimension WxDxH: 900x585x600 mm.			

Tuttnauer Lab

TIVA10-1ML

MANUAL DOOR

Machine equipped with a manual opening and closing door made of double tempered glass, for laboratory glassware with 4 independent levels. The upper levels are removable for washing large materials. Is 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, to obtain an excellent drying result. A wide range of racks, nozzles and accessories complete these machines, suitable to wash and dry a wide variety of laboratory glassware.

Touchpad keyboard with graphical display

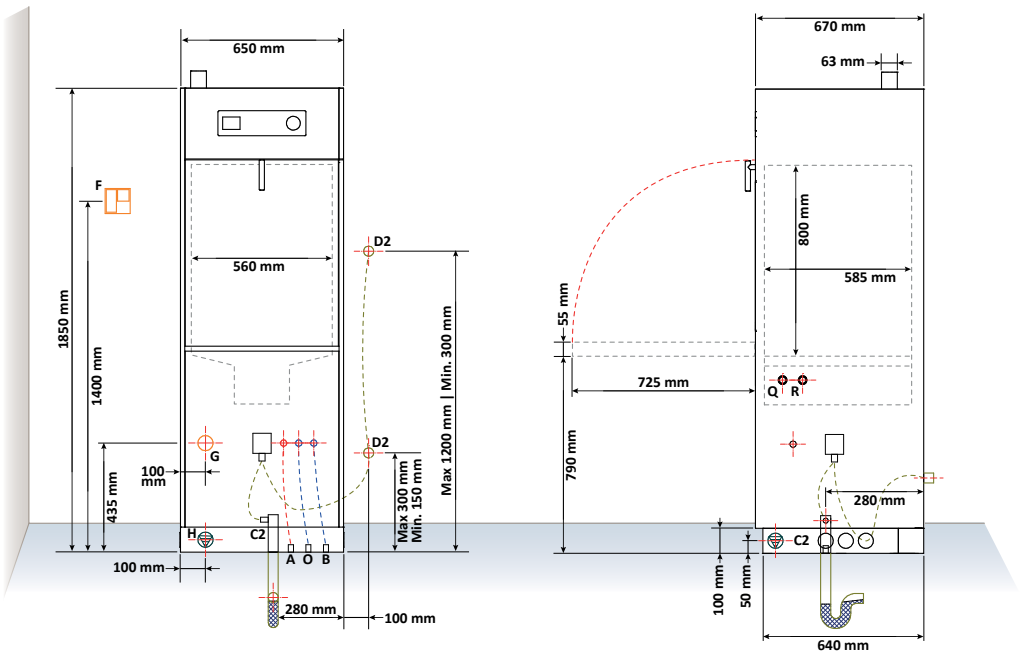
Thanks to the LCD graphic touch display, it is possible to choose the desired program or to enter the device programming menu. The LCD display also shows the current state of the machine, using animated graphics that appear on it.

Dosing pumps

Up to 4 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).



Legend

A	Hot water connection - male-thread G ¾" (tube G ½")
B	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
H	Equipotential clamp
O	Deionized water connection - male-thread G ¾" (tube G ½")
Q	Steam connection G da ½" (inlet)
S	Steam connection G da ½" (outlet)

TIVA10-1VL

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 items. Is 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, to obtain an excellent drying result. A wide range of racks, nozzles and accessories complete these machines, suitable to wash and dry a wide variety of laboratory glassware.

Touchpad keyboard with graphical display

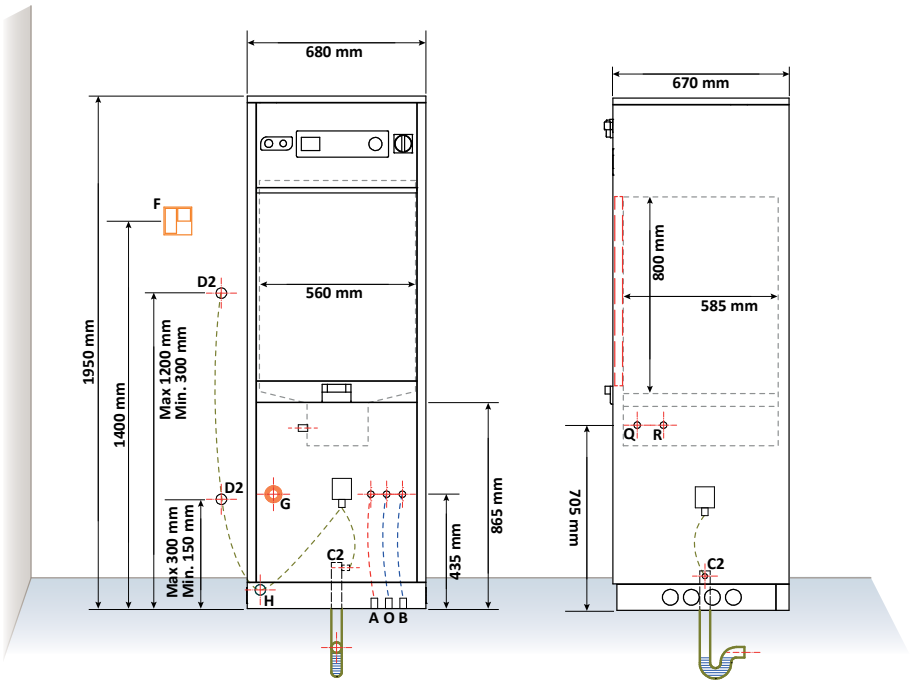
Thanks to the LCD graphic touch display, it is possible to choose the desired program or to enter the device programming menu. The LCD display also shows the current state of the machine, using animated graphics that appear on it.

Dosing pumps

Up to 4 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).



LEGEND

A	Hot water connection- male-thread G ¾" (tube G ½")
B	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
H	Equipotential clamp
O	Deionized water connection- male-thread G ¾" (tube G ½")
Q	Steam connection G da ½" (inlet)
S	Steam connection G da ½" (outlet)

● Standard + Optional / Not available

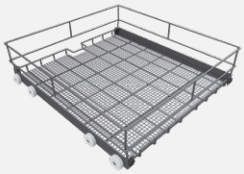
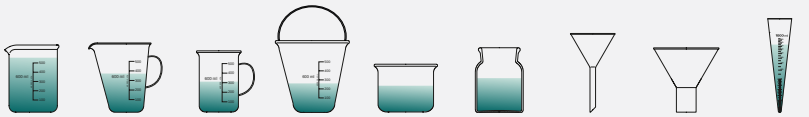
Technical features	TIVA10-1ML	TIVA10-1VL
External dimension (WxDxH):	650x700x1850 mm	680x700x1950 mm
Chamber dimension (WxDxH):	560x585x800 mm	560x585x800 mm
Max pump flow rate:	626 l/mn	626 l/mn
Max drying fan flow rate with filter:	150 m³/h	150 m³/h
Max absorbed power:	11,4 kW	11,4 kW
Max number of dosing pumps for chemicals with flowmeters:	4	4
Chemical tank capacity:	5 Liter	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:	●	●
Forced air drying:	●	●
Wash chamber made of high quality stainless steel, AISI 316L (EN 1.4404):	●	●
Hot water connection:	●	●
Cold water connection:	●	●
Deionized water connection:	●	●
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%.

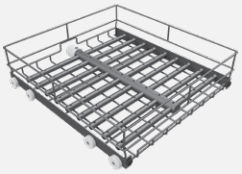
Tuttnauer Lab

TIVA10-1ML | TIVA10-1VL

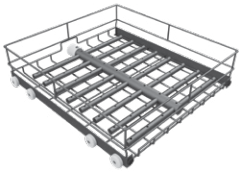
RACKS

Code	Image	Description
119905133		**TL133 LAB. LOWER RACK** Washing rack positioned on the lower level, basic version Suitable for washing the following glassware:  Internal loading dimensions WxD: 495x545 mm. Rack external dimensions WxDxH: 530x568x148 mm.
119905127		**TL127 LAB. LOWER RACK 110 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 110 Rack external dimensions WxDxH: 530x568x148 mm.

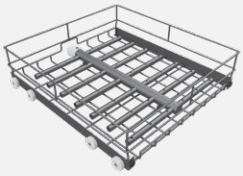
N° max positions	Ø max glassware	Usable nozzles
110	40	Ø 2,5 mm
81	52 mm	Ø 2,5/4 mm
42	70 mm	All

119911011		**TL011 LAB. LOWER RACK 81 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 81 Rack external dimensions WxDxH: 530x568x148 mm.

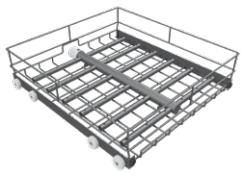
N° max positions	Ø max glassware	Usablew nozzles
81	52 mm	Ø 2,5/4 mm
42	70 mm	All

119911012		**TL012 LAB. LOWER RACK 56 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 56 Rack external dimensions WxDxH: 530x568x148 mm.

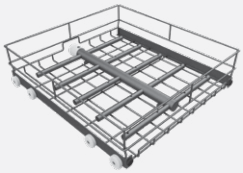
N° max positions	Ø max glassware	Usable nozzles
56	60 mm	Ø 2,5/4 mm
42	70 mm	All

119911013		**TL013 LAB. LOWER RACK 42 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 42 Rack external dimensions WxDxH: 530x568x148 mm.

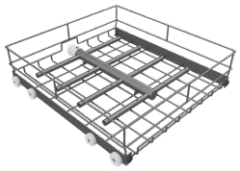
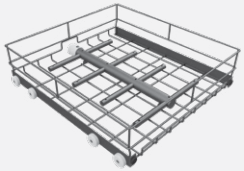
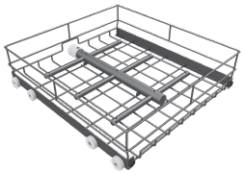
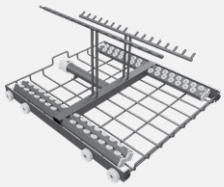
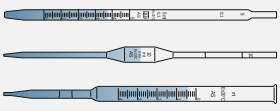
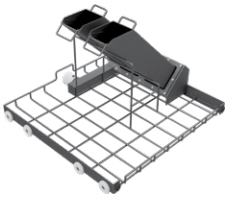
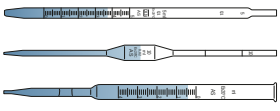
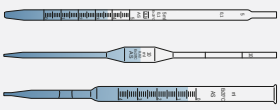
N° max positions	Ø max glassware	Usablew nozzles
42	70 mm	All

119911014		**TL014 LAB. LOWER RACK 36 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 36 Rack external dimensions WxDxH: 530x568x148 mm.

N° max positions	Ø max glassware	Usable nozzles
36	80 mm	All

119911015		**TL015 LAB. LOWER RACK 20 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 20 Rack external dimensions WxDxH: 530x568x148 mm.

N° max positions	Ø max glassware	Usablew nozzles
20	100 mm	All

Code	Image	Description
119911016		**TL016 LAB. LOWER RACK 16 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 16 Rack external dimensions WxDxH: 530x568x148 mm.
119911017		**TL017 LAB. LOWER RACK 12 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 12 Rack external dimensions WxDxH: 530x568x148 mm.
119911018		**TL018 LAB. LOWER RACK 9 POS.** Washing rack positioned at the lower level, max. nozzles positionable: 9 Rack external dimensions WxDxH: 530x568x148 mm.
119911021		**TL021 LAB. LOWER RACK 56 POS. PIP.** Washing rack for pipettes positioned at the lower level, max pipettes can be positioned: 56 Suitable for washing the following glassware:  GRADUATED PIPETTES BULB PIPETTES PASTEUR PIPETTES Rack external dimensions WxDxH: 525x497x313 mm.
119911022		**TL022 LAB. LOWER RACK 2 CASS. PIP.** Pipettes washing rack positioned on the lower level, with 2 cassettes Suitable for washing the following glassware:  GRADUATED PIPETTES BULB PIPETTES PASTEUR PIPETTES Rack external dimensions WxDxH: 525x497x540 mm.
119911023		**TL023 LAB. LOWER RACK 3 CASS. PIP.** Pipettes washing rack positioned on the lower level, with 3 cassettes Suitable for washing the following glassware:  GRADUATED PIPETTES BULB PIPETTES PASTEUR PIPETTES Rack external dimensions WxDxH: 525x497x540 mm.

N° max positions	Ø max glassware	Usable nozzles
16	110 mm	All

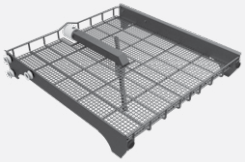
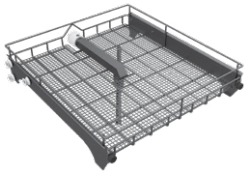
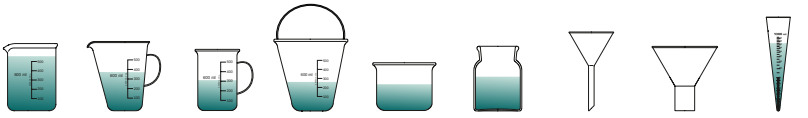
N° max positions	Ø max glassware	Usablew nozzles
12	130 mm	All

N° max positions	Ø max glassware	Usable nozzles
9	160 mm	All

Min pipette length	
250 mm	760 mm

Min pipette length	Max pipette length
All	520 mm

Min pipette length	
All	520 mm

Code	Image	Description
119905128		**TL128 LAB. INT. RACK W/S.ARM** Washing rack positioned at intermediate level, with spray arm Suitable for washing the following glassware: Internal loading dimensions WxD: 485x530 mm. Rack external dimensions WxDxH: 530x550x95 mm.
119905129		**TL129 LAB. UPPER RACK W/S.ARM** Washing rack positioned on the upper level, with spray arm Suitable for washing the following glassware:  Internal loading dimensions WxD: 485x530 mm. Rack external dimensions WxDxH: 530x550x124 mm.
119911003		**TL003 LAB. UPPER RACK 169 POS.** Washing rack positioned at the upper level, max. nozzles positionable: 169 Rack external dimensions WxDxH: 530x550x124 mm.

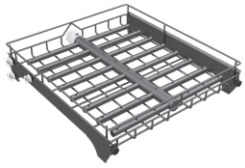
N° max positions	Ø max glassware	Usable nozzles
169	32 mm	Ø 2,5 mm
81	52 mm	Ø 2,5/4 mm
42	70 mm	All

Code	Image	Description
119911004		**TL004 LAB. UPPER RACK 110 POS.** Washing rack positioned at the upper level, max. nozzles positionable: 110 Rack external dimensions WxDxH: 530x550x124 mm.

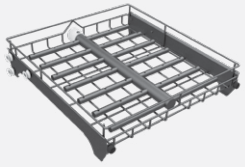
N° max positions	Ø max glassware	Usable nozzles
110	40 mm	Ø 2,5 mm
81	52 mm	Ø 2,5/4 mm
42	70 mm	All

Code	Image	Description
119911005		**TL005 LAB. UPPER RACK 81 POS.** Washing rack positioned at the upper level, max. nozzles positionable: 81 Rack external dimensions WxDxH: 530x550x124 mm.

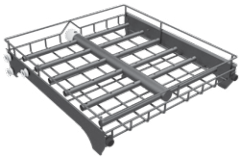
N° max positions	Ø max glassware	Usable nozzles
81	52 mm	Ø 2,5/4 mm
42	70 mm	All

Code	Image	Description
119911006		**TL006 LAB. UPPER RACK 56 POS.** Washing rack positioned at the upper level, max. nozzles positionable: 56 Rack external dimensions WxDxH: 530x550x124 mm.

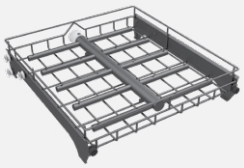
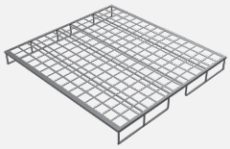
N° max positions	Ø max glassware	Usable nozzles
56	60 mm	Ø 2,5/4 mm
42	70 mm	All

Code	Image	Description
119911007		**TL007 LAB. UPPER RACK 42 POS.** Washing rack positioned at the upper level, max. nozzles positionable: 42 Rack external dimensions WxDxH: 530x550x124 mm.

N° max positions	Ø max glassware	Usable nozzles
36	70 mm	All

Code	Image	Description
119911008		**TL008 LAB. UPPER RACK 36 POS.** Washing rack positioned at the upper level, max. nozzles positionable: 36 Rack external dimensions WxDxH: 530x550x124 mm.

N° max positions	Ø max glassware	Usable nozzles
36	80 mm	All

Code	Image	Description	N° max positions	Ø max glassware	Usable nozzles
119911009		**TL009 LAB. UPPER RACK 20 POS.** Washing rack positioned at the upper level, max. nozzles positionable: 20 Rack external dimensions WxDxH: 530x550x124 mm.	20	100 mm	All
119911010		**TL010 LAB. UPPER RACK 16 POS.** Washing rack positioned at the upper level, max. nozzles positionable: 16 Rack external dimensions WxDxH: 530x550x124 mm.	16	110 mm	All
D00604800		**A117 RAISING GRID** Raising grid suitable for all washing racks Grid external dimensions WxDxH: 477x522x51 mm.			
ATS238-0289		**A049 FIX. H. TRANSF. TROLLEY AWD655-10** Loading trolley with block system to load washing material into the machine Rack external dimensions WxDxH: 750x628x880 mm.			
ATS238-0290		**A020 FIX. H. TRANSF. TROLLEY AWD655-10A** Loading trolley with block system to load washing material into the machine Rack external dimensions WxDxH: 750x623x875 mm.			

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

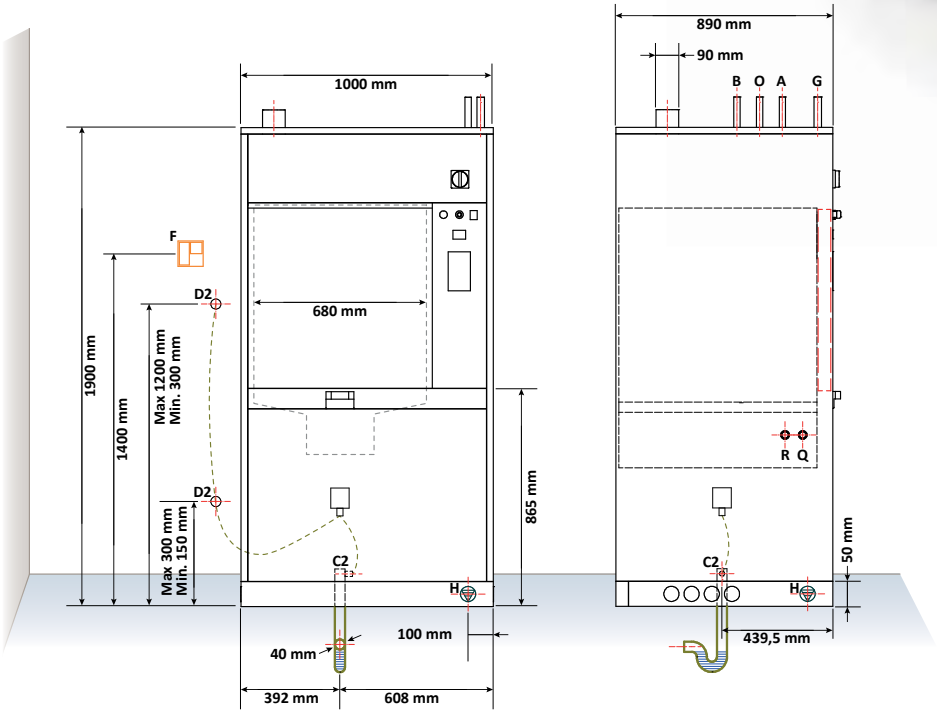
Thanks to the LCD (70x50) graphic touch display, it is possible to choose the desired program or to enter the device programming menu. The LCD display also shows the current state of the machine, using animated graphics that appear on it.

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).



● Standard + Optional / Not available

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:	+

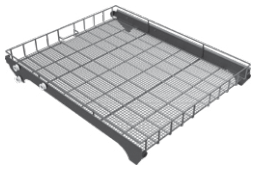
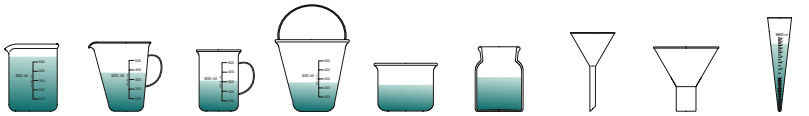
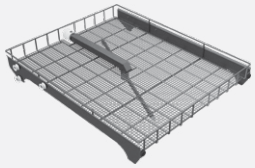
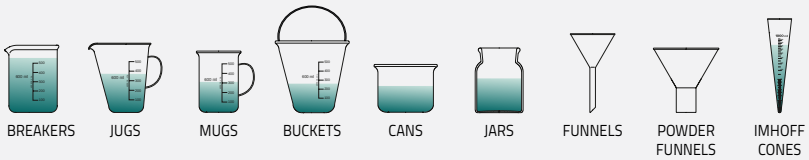
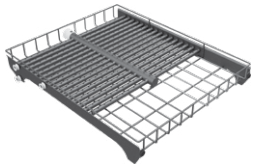
The reference values are based on a voltage of 230 V between Phase and Neutral (between Phase and Phase in three-phase versions without Neutral) with a possible variance between -5 and +10%.

LEGEND

A	Hot water connection - male-thread G ¾" (tube G ½")
B	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
H	Equipotential clamp
O	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
119911025		**TL025 LAB. LOWER RACK** Washing rack positioned on the lower level, basic version Suitable for washing the following glassware:  Internal loading dimensions WxD: 600x750 mm. Rack external dimensions WxDxH: 650x786x109 mm.
119911024		**TL024 LAB. RACK W/S.ARM** Washing rack can be positioned on all levels except the lower one, with spray arm Suitable for washing the following glassware:  Internal loading dimensions WxD: 600x750 mm. Rack external dimensions WxDxH: 650x770x109 mm.
119911027		**TL027 LAB. RACK 330 POS.** Washing rack, max. nozzles positionable: 330 Rack external dimensions WxDxH: 650x770x109 mm.

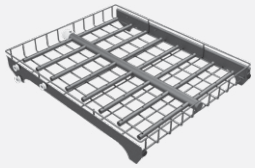
N° max positions	Ø max glassware	Usablew nozzles
330	25 mm	Ø 2,5 mm
72	75 mm	All

Code	Image	Description
119911028		**TL028 LAB. RACK 72 POS.** Washing rack, max. nozzles positionable: 72 Rack external dimensions WxDxH: 650x770x109 mm.

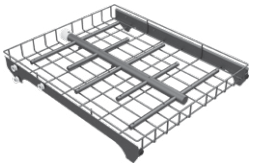
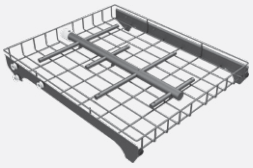
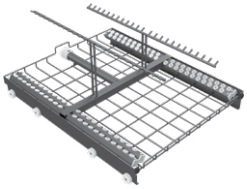
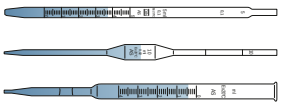
N° max positions	Ø max glassware	Usablew nozzles
72	75 mm	All

Code	Image	Description
119911029		**TL029 LAB. RACK 56 POS.** Washing rack, max. nozzles positionable: 56 Rack external dimensions WxDxH: 650x770x109 mm.

N° max positions	Ø max glassware	Usablew nozzles
56	84 mm	All

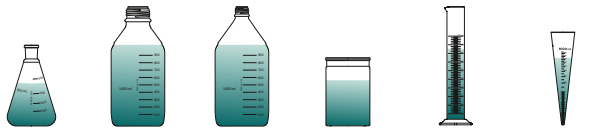
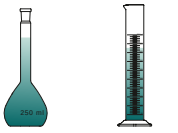
Code	Image	Description
119911030		**TL030 LAB. RACK 48 POS.** Washing rack, max. nozzles positionable: 48 Rack external dimensions WxDxH: 650x770x109 mm.

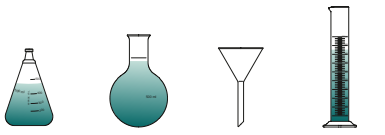
N° max positions	Ø max glassware	Usablew nozzles
48	90 mm	All

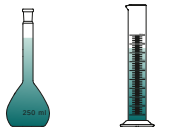
Code	Image	Description			
119911031		**TL031 LAB. RACK 18 POS.** Washing rack, max. nozzles positionable: 18 Rack external dimensions WxDxH: 650x770x109 mm.	**N° max positions** 18	**Ø max glassware** 150 mm	**Usablew nozzles** All
119911032		**TL032 LAB. RACK 10 POS.** Washing rack, max. nozzles positionable: 10 Rack external dimensions WxDxH: 650x770x109 mm.	**N° max positions** 10	**Ø max glassware** 190 mm	**Usablew nozzles** All
119911026		**TL026 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:  GRADUATED PIPETTES BULB PIPETTES PASTEUR PIPETTES Rack external dimensions WxDxH: 630x785x355 mm.	**Min pipette length** 250	**Max pipette length** 700 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		**A090 NOZZLE Ø6 INT. 3-FLEX H=120** External dimensions WxH: 75x140 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:  ERLENMEYER FLASKS WIDE NECK · WIDE NECK BOTTLES · NARROW NECK BOTTLES · WEIGHING BOTTLES · GRADUATED CYLINDERS · IMHOFF CONES
P00001006		**A091 NOZZLE Ø6 INT. 3-FLEX H=230** External dimensions WxH: 75x230 mm.	
P00001007		**A092 NOZZLE Ø6 INT. 3-FLEX H=280** External dimensions WxH: 75x280 mm.	
P00001008		**A093 NOZZLE Ø6 C H=120** External dimensions WxH: 75x120 mm.	**STANDARD NOZZLES - Ø 6 mm** Suitable for washing the following glassware:  HIGH CAPACITY FLASKS · GRADUATED CYLINDERS
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.	
P00001011		**A096 NOZZLE Ø6 C+S H=230** External dimensions WxH: 75x230 mm.	
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.	**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: ERLENMEYER FLASKS WIDE NECK WIDE NECK BOTTLES
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.	
P00001016		**A101 NOZZLE Ø6 C+S+INT. C.28 H=230** External dimensions WxH: 75x230 mm.	
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** **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:  ERLEN-MEYER FLASKS NAR-ROW NECK FLAT OR ROUND BOTTOM FLASK NARROW NECK FUNNELS GRADUATED CYLINDERS
P00001019		**A104 NOZZLE Ø6 EXT. 3-FLEX H=230** External dimensions WxH: 73,5 (flex) x230 mm.	
P00001020		**A105 NOZZLE Ø6 EXT. 3-FLEX H=280** External dimensions WxH: 73,5 (flex) x280 mm.	

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:  HIGH CAPACITY FLASKS GRADUATED CYLINDERS
P00001023		**A108 NOZZLE Ø4 C+S H=176** External dimensions WxH: 54x176 mm.	
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: TEST TUBES LOW CAPACITY FLASKS CENTRIFUGE TUBES
P00001027		**A112 NOZZLE Ø2.5 C H=81** External dimensions WxH: 32x81 mm.	
P00001028		**A113 NOZZLE Ø2.5 C H=156** External dimensions WxH: 32x156 mm.	

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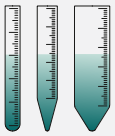
ACCESSORIES

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		**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		**A134 PVDF ELBOW FITTING 1/4" HOSE BARB** **Hose holder for Luer-Lock attachment**

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