

# TIVA8 LAB

## High-End Washers for Laboratories

Bringing **95 Years of Professionalism** into your laboratory

Laboratory

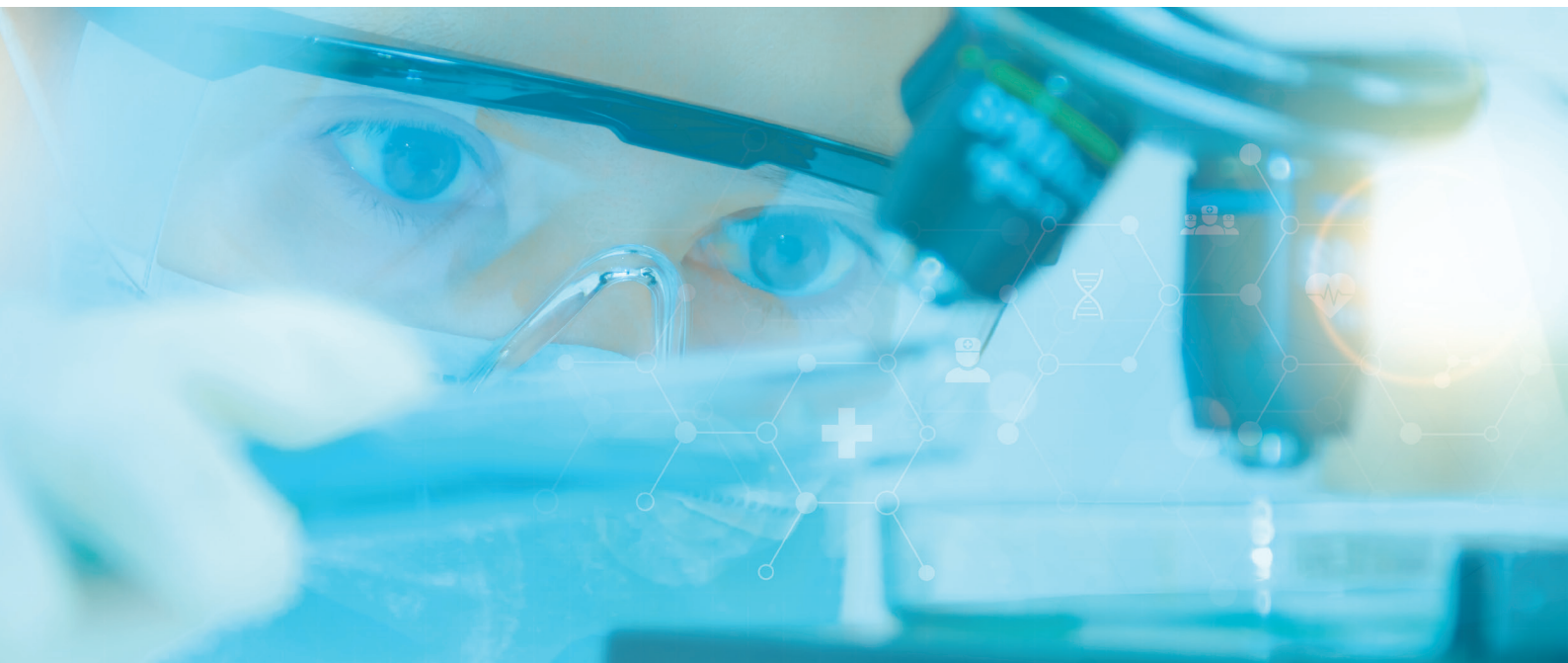




## Made with Over **95 Years of Experience**

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

sterilization solution in 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 **TIVA8** Lab Washer Series

### Complete laboratory process solutions

Tuttnauer is proud to introduce its lab washer series. This 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 washer disinfectant in your lab awards maximum flexibility, sustainability, and an efficient driven solution for glassware treatment.

Tuttnauer's **TIVA8** Lab line Washers contain unrivalled levels of efficiency that deliver on water and energy savings. The high-quality system is specifically designed for research intensive laboratory settings that offer automated cleaning and drying of typical laboratory glassware, as well as miscellaneous plastic items used in research facilities.

Each model suits different needs, and all Tuttnauer lab washers offer efficient chamber sizes within a compact footprint. The flexibility of each machine is supported by intelligent controls and programmable cycles to clean most residues. Tuttnauer racks, baskets and accessories also enhance productive and effective wash cycles.



## Simple Operation & Process Monitoring

- Touch keyboard with color 3.5" LCD graphic display
- Alarm-check system
- Connectivity: Data transfer via USB and RS232
- Convenient add-on printer
- Washer RePortal (optional)
- User pin management (optional)



## Advanced Control and Warning System

- Microcontroller managing multiple sensors data to support smooth efficient and reliable operation
- Chemical dosing control
- Advanced warning system
- 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 wash spray arms
- Long-lasting components require minimal servicing



## Optimal Results

- Up to 40 standard and customized programs
- 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 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 glass
- Stainless steel design

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

## Under-Counter Washer

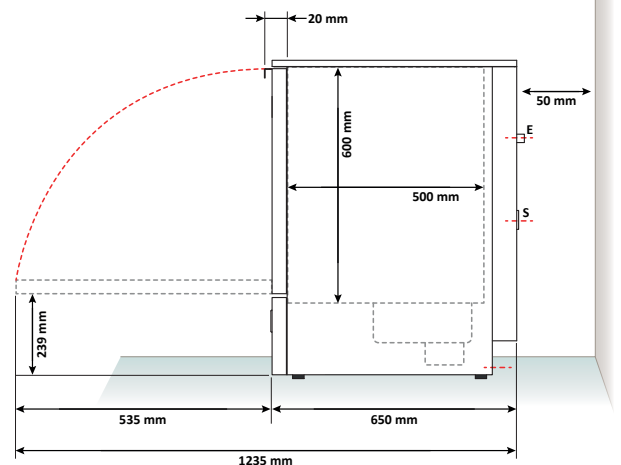
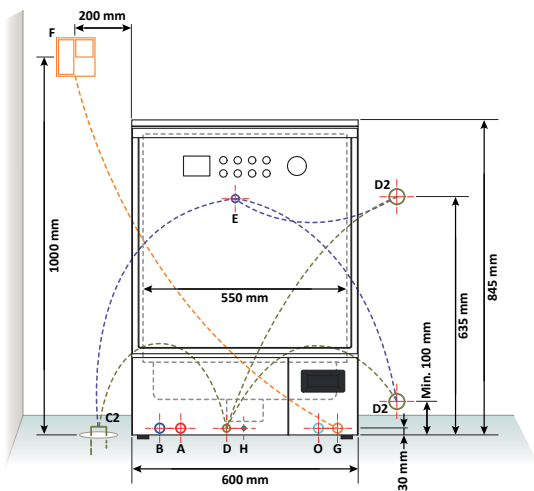
Chamber Capacity - 165 Liter

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

<b>A</b> Hot water connection - male-thread G 3/4" (tube G 1/2")	<b>F</b> Omnipolar magneto switch with a circuit breaker
<b>B</b> Cold water connection - male-thread G 3/4" (tube G 1/2")	<b>G</b> Electrical connection box
<b>C2</b> Drain Ø1" 1/2 (DN40) - hose connection 1" (25mm) (at floor)	<b>H</b> Equipotential clamp
<b>D</b> Drain connection to the machine	<b>O</b> Deionized water connection - male-thread G 3/4" (tube G 1/2")
<b>D2</b> Drain Ø1" 1/2 (DN40) - hose connection 1" (25mm) (at wall)	<b>S</b> Steam outlet exhaust
<b>E</b> 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.

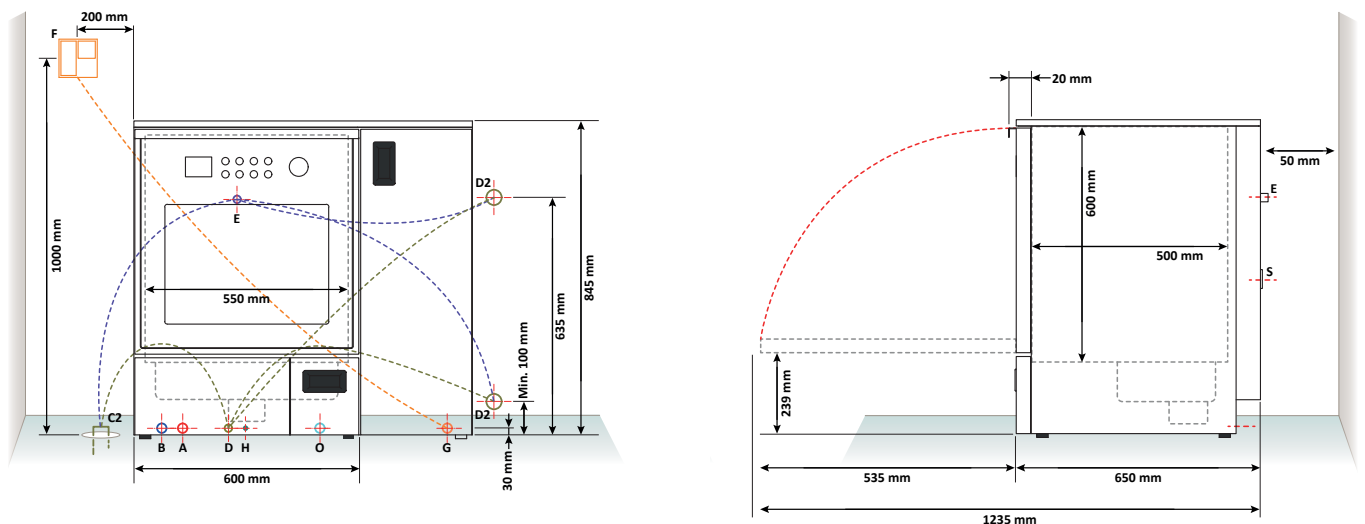
### Detergent storage compartment

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



Stainless steel door

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



## Legend

<b>A</b> Hot water connection - male-thread G $\frac{3}{4}$ " (tube G $\frac{1}{2}$ " )	<b>F</b> Omnipolar magneto switch with a circuit breaker
<b>B</b> Cold water connection - male-thread G $\frac{3}{4}$ " (tube G $\frac{1}{2}$ " )	<b>G</b> Electrical connection box
<b>C2</b> Drain $\varnothing 1\frac{1}{2}$ " (DN40) - hose connection 1" (25mm) (at floor)	<b>H</b> Equipotential clamp
<b>D</b> Drain connection to the machine	<b>O</b> Deionized water connection - male-thread G $\frac{3}{4}$ " (tube G $\frac{1}{2}$ " )
<b>D2</b> Drain $\varnothing 1\frac{1}{2}$ " (DN40) - hose connection 1" (25mm) (at wall)	<b>S</b> Steam outlet exhaust
<b>E</b> 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
<b>Standard Features</b>					
Certified according to 2006/42/EC, 2014/35/EU, 2011/65/EU, 2014/30/EU, EN61010-1, EN 61326-1	○	○	○	○	○
Plumbing 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	○	○	○	○	○
<b>Optional Features</b>					
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	+	+	+	+	+
<b>Technical features</b>					
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 <sup>3</sup> /h	180 m <sup>3</sup> /h	-	180 m <sup>3</sup> /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

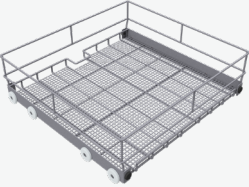

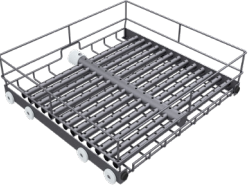

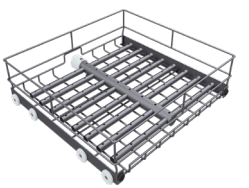
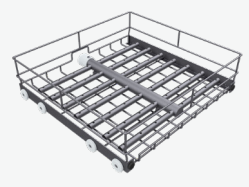
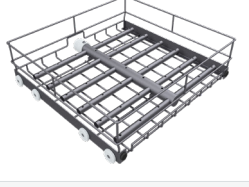
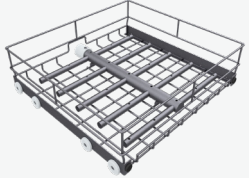
The reference values are based on a voltage of 230 V between Phase and Neutral (between Phase and Phase in three-phase versions without Neutral) with a possible variance between -5 and +10%.

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



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

## RACKS

Code	Image	Description													
119905130		<p><b>TL130 LAB. LOWER RACK</b> Washing rack positioned on the lower level, basic version Suitable for washing the following glassware:</p>  <p>Internal loading dimensions WxD: 500x485 mm. Rack external dimensions WxDxH: 525x502x148 mm.</p>													
119905139		<p><b>TL139 LAB. LOWER RACK 195 POS.</b> Washing rack positioned at the lower level, max. nozzles positionable: 195 Rack external dimensions WxDxH: 525x497x148 mm.</p>	<table border="1"> <thead> <tr> <th>N° max positions</th> <th>Ø max glassware</th> <th>Usable nozzles</th> </tr> </thead> <tbody> <tr> <td>195</td> <td>30 mm</td> <td>Ø 2,5 mm</td> </tr> <tr> <td>56</td> <td>57 mm</td> <td>Ø 2,5/4 mm</td> </tr> <tr> <td>41</td> <td>70 mm</td> <td>All</td> </tr> </tbody> </table>	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
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													
119905125		<p><b>TL125 LAB. LOWER RACK 110 POS.</b> Washing rack positioned at the lower level, max. nozzles positionable: 110 Rack external dimensions WxDxH: 525x497x148 mm.</p>	<table border="1"> <thead> <tr> <th>N° max positions</th> <th>Ø max glassware</th> <th>Usable nozzles</th> </tr> </thead> <tbody> <tr> <td>110</td> <td>40 mm</td> <td>Ø 2,5 mm</td> </tr> <tr> <td>56</td> <td>57 mm</td> <td>Ø 2,5/4 mm</td> </tr> <tr> <td>41</td> <td>70 mm</td> <td>All</td> </tr> </tbody> </table>	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
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110	40 mm	Ø 2,5 mm													
56	57 mm	Ø 2,5/4 mm													
41	70 mm	All													
119905140		<p><b>TL140 LAB. LOWER RACK 72 POS.</b> Washing rack positioned at the lower level, max. nozzles positionable: 72 Rack external dimensions WxDxH: 525x497x148 mm.</p>	<table border="1"> <thead> <tr> <th>N° max positions</th> <th>Ø max glassware</th> <th>Usable nozzles</th> </tr> </thead> <tbody> <tr> <td>72</td> <td>50 mm</td> <td>Ø 2,5 mm</td> </tr> <tr> <td>56</td> <td>57 mm</td> <td>Ø 2,5/4 mm</td> </tr> <tr> <td>41</td> <td>70 mm</td> <td>All</td> </tr> </tbody> </table>	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
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72	50 mm	Ø 2,5 mm													
56	57 mm	Ø 2,5/4 mm													
41	70 mm	All													
119905141		<p><b>TL141 LAB. LOWER RACK 56 POS.</b> Washing rack positioned at the lower level, max. nozzles positionable: 56 Rack external dimensions WxDxH: 525x497x148 mm.</p>	<table border="1"> <thead> <tr> <th>N° max positions</th> <th>Ø max glassware</th> <th>Usable nozzles</th> </tr> </thead> <tbody> <tr> <td>56</td> <td>57 mm</td> <td>Ø 2,5/4 mm</td> </tr> <tr> <td>41</td> <td>70 mm</td> <td>All</td> </tr> </tbody> </table>	N° max positions	Ø max glassware	Usable nozzles	56	57 mm	Ø 2,5/4 mm	41	70 mm	All			
N° max positions	Ø max glassware	Usable nozzles													
56	57 mm	Ø 2,5/4 mm													
41	70 mm	All													
119905142		<p><b>TL142 LAB. LOWER RACK 41 POS.</b> Washing rack positioned at the lower level, max. nozzles positionable: 41 Rack external dimensions WxDxH: 525x497x148 mm.</p>	<table border="1"> <thead> <tr> <th>N° max positions</th> <th>Ø max glassware</th> <th>Usable nozzles</th> </tr> </thead> <tbody> <tr> <td>41</td> <td>70 mm</td> <td>All</td> </tr> </tbody> </table>	N° max positions	Ø max glassware	Usable nozzles	41	70 mm	All						
N° max positions	Ø max glassware	Usable nozzles													
41	70 mm	All													
119905143		<p><b>TL143 LAB. LOWER RACK 25 POS.</b> Washing rack positioned at the lower level, max. nozzles positionable: 25 Rack external dimensions WxDxH: 525x497x148 mm.</p>	<table border="1"> <thead> <tr> <th>N° max positions</th> <th>Ø max glassware</th> <th>Usable nozzles</th> </tr> </thead> <tbody> <tr> <td>25</td> <td>89 mm</td> <td>All</td> </tr> </tbody> </table>	N° max positions	Ø max glassware	Usable nozzles	25	89 mm	All						
N° max positions	Ø max glassware	Usable nozzles													
25	89 mm	All													



Code	Image	Description													
119905144		<b>TL144 LAB. LOWER RACK 18 POS.</b> Washing rack positioned at the lower level, max. nozzles positionable: 18 Rack external dimensions WxDxH: 525x497x148 mm.	<table border="1"> <thead> <tr> <th>N° max positions</th> <th>Ø max glassware</th> <th>Usable nozzles</th> </tr> </thead> <tbody> <tr> <td>18</td> <td>105 mm</td> <td>All</td> </tr> </tbody> </table>	N° max positions	Ø max glassware	Usable nozzles	18	105 mm	All						
N° max positions	Ø max glassware	Usable nozzles													
18	105 mm	All													
119905145		<b>TL145 LAB. LOWER RACK 16 POS.</b> Washing rack positioned at the lower level, max. nozzles positionable: 16 Rack external dimensions WxDxH: 525x497x148 mm.	<table border="1"> <thead> <tr> <th>N° max positions</th> <th>Ø max glassware</th> <th>Usable nozzles</th> </tr> </thead> <tbody> <tr> <td>16</td> <td>110 mm</td> <td>All</td> </tr> </tbody> </table>	N° max positions	Ø max glassware	Usable nozzles	16	110 mm	All						
N° max positions	Ø max glassware	Usable nozzles													
16	110 mm	All													
119905146		<b>TL146 LAB. LOWER RACK 9 POS.</b> Washing rack positioned at the lower level, max. nozzles positionable: 9 Rack external dimensions WxDxH: 525x497x148 mm.	<table border="1"> <thead> <tr> <th>N° max positions</th> <th>Ø max glassware</th> <th>Usable nozzles</th> </tr> </thead> <tbody> <tr> <td>9</td> <td>150 mm</td> <td>All</td> </tr> </tbody> </table>	N° max positions	Ø max glassware	Usable nozzles	9	150 mm	All						
N° max positions	Ø max glassware	Usable nozzles													
9	150 mm	All													
119911019		<b>TL019 LAB. LOWER RACK 48 POS. PIP.</b> 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.	<table border="1"> <thead> <tr> <th>Min pipette length</th> <th>Max pipette length</th> </tr> </thead> <tbody> <tr> <td>250 mm</td> <td>535 mm</td> </tr> </tbody> </table>	Min pipette length	Max pipette length	250 mm	535 mm								
Min pipette length	Max pipette length														
250 mm	535 mm														
119911020		<b>TL020 LAB. LOWER RACK 2 CASS. PIP.</b> 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.	<table border="1"> <thead> <tr> <th>Min pipette length</th> <th>Max pipette length</th> </tr> </thead> <tbody> <tr> <td>All</td> <td>290 mm</td> </tr> </tbody> </table>	Min pipette length	Max pipette length	All	290 mm								
Min pipette length	Max pipette length														
All	290 mm														
119905126		<b>TL126 LAB. UPPER RACK W/S.ARM</b> 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		<b>TL132 LAB. UPPER RACK 195 POS.</b> Washing rack positioned at the upper level, max. nozzles positionable: 195 Rack external dimensions WxDxH: 530x483x164 mm.	<table border="1"> <thead> <tr> <th>N° max positions</th> <th>Ø max glassware</th> <th>Usable nozzles</th> </tr> </thead> <tbody> <tr> <td>195</td> <td>30 mm</td> <td>Ø 2,5 mm</td> </tr> <tr> <td>56</td> <td>57 mm</td> <td>Ø 2,5/4 mm</td> </tr> <tr> <td>36</td> <td>74 mm</td> <td>All</td> </tr> </tbody> </table>	N° max positions	Ø max glassware	Usable nozzles	195	30 mm	Ø 2,5 mm	56	57 mm	Ø 2,5/4 mm	36	74 mm	All
N° max positions	Ø max glassware	Usable nozzles													
195	30 mm	Ø 2,5 mm													
56	57 mm	Ø 2,5/4 mm													
36	74 mm	All													

Code	Image	Description			
119905131		<b>TL131 LAB. UPPER RACK 110 POS.</b> Washing rack positioned at the upper level, max. nozzles positionable: 110 Rack external dimensions WxDxH: 530x483x164 mm.	<b>N° max positions</b>	<b>Ø max glassware</b>	<b>Usable nozzles</b>
			110	40 mm	Ø 2,5 mm
			56	57 mm	Ø 2,5/4 mm
			36	74 mm	All
119905134		<b>TL134 LAB. UPPER RACK 72 POS.</b> Washing rack positioned at the upper level, max. nozzles positionable: 72 Rack external dimensions WxDxH: 530x483x164 mm.	<b>N° max positions</b>	<b>Ø max glassware</b>	<b>Usable nozzles</b>
			72	50 mm	Ø 2,5 mm
			56	57 mm	Ø 2,5/4 mm
			36	74 mm	All
119905135		<b>TL135 LAB. UPPER RACK 56 POS.</b> Washing rack positioned at the upper level, max. nozzles positionable: 56 Rack external dimensions WxDxH: 530x483x164 mm.	<b>N° max positions</b>	<b>Ø max glassware</b>	<b>Usable nozzles</b>
			56	57 mm	Ø 2,5/4 mm
			36	74 mm	All
119905136		<b>TL136 LAB. UPPER RACK 36 POS.</b> Washing rack positioned at the upper level, max. nozzles positionable: 36 Rack external dimensions WxDxH: 530x483x164 mm.	<b>N° max positions</b>	<b>Ø max glassware</b>	<b>Usable nozzles</b>
			36	74 mm	All
119905137		<b>TL137 LAB. UPPER RACK 25 POS.</b> Washing rack positioned at the upper level, max. nozzles positionable: 25 Rack external dimensions WxDxH: 530x483x164 mm.	<b>N° max positions</b>	<b>Ø max glassware</b>	<b>Usable nozzles</b>
			25	90 mm	All
119905138		<b>TL138 LAB. UPPER RACK 18 POS.</b> Washing rack positioned at the upper level, max. nozzles positionable: 18 Rack external dimensions WxDxH: 530x483x164 mm.	<b>N° max positions</b>	<b>Ø max glassware</b>	<b>Usable nozzles</b>
			18	105 mm	All
D00643500		<b>A126 RAISING GRID</b> Raising grid suitable for washing racks positioned at the upper level Grid external dimensions WxDxH: 477x456x51 mm.			
ATS238-0103		<b>A136 STAINLESS STEEL STAND TIVA8</b> 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		<b>A137 STAINLESS STEEL STAND TIVA8-WD</b> 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.			














0:08:44
















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

## NOZZELS



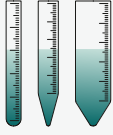










Code	Image	Description	Additional description
P00001002		<b>A090 NOZZLE Ø6 INT. 3-FLEX H=120</b> External dimensions WxH: 75x140 mm.	<p><b>NOZZLE WITH FLEXIBLE INTERNAL - Ø 6 mm</b> Nozzles Ø 6 mm with 3 flexible internal arms to block the glassware during washing, avoiding possible movements, falls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

Code	Image	Description	Additional description
P00001013		<b>A098 NOZZLE Ø6 C+INT. C.28</b> <b>H=120</b> External dimensions WxH: 75x120 mm.	<p><b>NOZZLE WITH RIGID INTERNAL - Ø 6 mm</b> Nozzles Ø 6 mm with rigid bottle holder to block the glassware during washing, avoiding possible movements, falls and breakages of the glassware</p> <p>Suitable for washing the following glassware:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  ERLENMEYER FLASKS WIDE NECK         </div> <div style="text-align: center;">  WIDE NECK BOTTLES         </div> </div>
P00001014		<b>A099 NOZZLE Ø6 C+S+INT. C.28</b> <b>H=140</b> External dimensions WxH: 75x140 mm.	
P00001015		<b>A100 NOZZLE Ø6 C+S+INT. C.28</b> <b>H=180</b> External dimensions WxH: 75x180 mm.	
P00001016		<b>A101 NOZZLE Ø6 C+S+INT. C.28</b> <b>H=230</b> External dimensions WxH: 75x230 mm.	
P00001017		<b>A102 NOZZLE Ø6 C+S+INT. C.28</b> <b>H=280</b> External dimensions WxH: 75x280 mm.	
P00001018		<b>A103 NOZZLE Ø6 EXT. 3-FLEX</b> <b>H=180</b> External dimensions WxH: 73,5 (flex) x180 mm.	
P00001019		<b>A104 NOZZLE Ø6 EXT. 3-FLEX</b> <b>H=230</b> External dimensions WxH: 73,5 (flex) x230 mm.	
P00001020		<b>A105 NOZZLE Ø6 EXT. 3-FLEX</b> <b>H=280</b> External dimensions WxH: 73,5 (flex) x280 mm.	

Code	Image	Description	Additional description
P00001021		<b>A106 NOZZLE Ø4 C H=76</b> External dimensions WxH: 54x76 mm.	<p><b>STANDARD NOZZLES - Ø 4 mm</b></p> <p>Suitable for washing the following glassware:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">   HIGH CAPACITY FLASKS </div> <div style="text-align: center;">   GRADUATED CYLINDERS </div> </div>
P00001022		<b>A107 NOZZLE Ø4 C+S H=111</b> External dimensions WxH: 54x111 mm.	
P00001023		<b>A108 NOZZLE Ø4 C+S H=176</b> External dimensions WxH: 54x176 mm.	
P00001024		<b>A109 NOZZLE Ø2.5 P H=81</b> External dimensions WxH: 15,5x81 mm.	<p><b>STANDARD OR WITH RIGID CAP NOZZLES - Ø 2.5 mm</b></p> <p>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</p> <p>Suitable for washing the following glassware:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">   TEST TUBES </div> <div style="text-align: center;">   LOW CAPACITY FLASKS </div> <div style="text-align: center;">   CENTRIFUGE TUBES </div> </div>
P00001025		<b>A110 NOZZLE Ø2.5 P+S H=81</b> External dimensions WxH: 15,5x81 mm.	
P00001026		<b>A111 NOZZLE Ø2.5 C H=51</b> External dimensions WxH: 32x51 mm.	
P00001027		<b>A112 NOZZLE Ø2.5 C H=81</b> External dimensions WxH: 32x81 mm.	
P00001028		<b>A113 NOZZLE Ø2.5 C H=156</b> External dimensions WxH: 32x156 mm.	

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

## ACCESSORIES

Code	Image	Description
D00559900		<b>A114 CAP SCREW M8x1</b> 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		<b>A130 TEST TUBES BASKET H=160</b> Test tube basket Use up to 4 baskets per cart. Suitable for washing the following glassware:  TEST TUBES Maximum tube height: 150 mm.
D00285200		<b>A032 INSERT FOR PETRI DISHES</b> Insert capacity: 30 pcs. Petri dishes. Suitable for washing the following glassware:  PETRI DISHES External dimensions WxDxH: 470x240x77 mm.
D00570100		<b>A115 BOTT. RIGID SUPPORT Ø33</b> Bottle holder Ø 33 mm for nozzles with rigid inside Ø 6 mm
D00570300		<b>A116 BOTT. RIGID SUPPORT Ø45</b> Bottle holder Ø 45 mm for nozzles with rigid inside Ø 6 mm
467010017		<b>A128 ADAP. MALE LUER TO M8X1 MALE THREAD</b> Luer-Lock attachment adapter
467010018		<b>A129 PVDF FEMALE LUER TO 3/16" HOSE BARB</b> Hose holder for Luer-Lock attachment
467010019		<b>A131 PVDF MALE LUER TO 3/16" HOSE BARB</b> Hose holder for Luer-Lock attachment
467010020		<b>A132 PVDF FEMALE LUER TO 1/4" HOSE BARB</b> Hose holder for Luer-Lock attachment
467010021		<b>A133 PVDF MALE LUER TO 1/4" HOSE BARB</b> Hose holder for Luer-Lock attachment
467010022		<b>A134 PVDF ELBOW FITTING 1/4" HOSE BARB</b> Hose holder for Luer-Lock attachment

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