User and Maintenance Manual

Sink and washing and cleansing Machine

A4 - POSEIDONE

CE

Rev: 00

2022.09.19

TITANOX S.r.l.

Head Office and Plant:
Via Canove n.2/A
Loc. CANOVE DE BIAZZI 26038 TORRE DE PICENARDI (CR)
VAT: 00679310193

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FOREWORD

For the proper operation of this machine, carefully read the instructions for use and maintenance, as well as the safety standards regarding the use of “washing, cleansing, disinfecting equipment/machines and related accessories”, which will instruct you on operation, use and maintenance. The Chapters of the Manual are in the same order as the Table of Contents. Each page shows the page number and the number of the last page of this Manual.

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GENERAL FEATURES

Reference Directive and Standards

This machine has been designed pursuant to the following standards, where applicable:

- EU Regulation 2017/745 (European regulation on medical devices)
- Directive 2014/35/EU (Low Voltage Directive)
- Directive 2014/30/EU (EMC Directive)
- Standard IEC EN 61326-1:2013 (EMC)
- Standard IEC EN 60529 (Degree of protection)
- Standard IEC EN 61010-1:2010 /A1:2019 (Safety)
- Standard UNI EN 1717:2002 (Pollution of potable water by backflow)
- Standard UNI EN ISO 15223-1:2021 (Labelling)
- Standard IEC 62366-1:2015 (Usability)
- Standard IEC 62304:2006 (SW Lifecycle)

Intended Use of Machine

This machine has been designed to be used as a **sink** for organic substances and for **washing and cleansing** medical and sanitary devices such as:

- Stainless steel or plastic urinal bottles
- Stainless steel or plastic bedpans
- Suction bowl
- Urine container (jug)

Main Electrical Features

- Complete control by micro-controller
- Smart control of electromechanical devices
- Steady or flashing green light to indicate operating status of machine
- Steady or flashing red light to indicate alarm and type of alarm
- Acoustic device for warnings
- Double safety electronic circuit to start up and switch off electropump
- Control of electropump by solid state electronic devices
- POWER-SHUTDOWN safety circuit, in case of short circuit of electropump
- Continuous check of current in electropump
- Continuous check of safety devices
- Automatic standby at end of cycle, with low absorption
- The device is supplied without plug

TECHNICAL SPECIFICATIONS

Description	*Value*	*Unit of measurement*
Sizes	536X735X930	mm
Main construction material	Aisi 304 stainless steel	-
Net weight	58,5	Kg
Gross weight	78	Kg
Max. water reservoir capacity	19	litres
Amount of water introduced	17	litres
Max. detergent reservoir capacity	2,3	litres
Amount of detergent required	2	litres
Washing sink capacity	55	litres
Draining tube diameter	90	mm
Cold water feeding	3/4G	inches
Hot water feeding	3/4G	inches
Electric power supply	230	VAC
Network frequency	50/60	Hz
Max. electric power absorbed	400	W
Electric power absorbed in standby	2,8	W
Operating temperature of equipment	+5 / +40	°C
Min. cold water temperature	10	°C
Max. hot water temperature	75	°C
Min. hot water temperature	70	°C
Alarm temperature in machine compartment	>80	°C
Max. operating altitude	4000	m (a.s.l.)
Min. hot and cold-water pressure	2,5	bar
Noise level	55	dB
Insulation degree of control compartment	IP64	-
Degree of protection against mechanical impacts	IK08	-
Max. duration of FAST washing cycle	130	Seconds
Max. duration of NORMAL washing cycle	300	Seconds
No. of FAST washing cycles at each reload	40	Quantity
No. of NORMAL washing cycles at each reload	20	Quantity
Amount of detergent used in FAST cycle	50	ml
Amount of detergent used in NORMAL cycle	100	ml
Amount of water used in FAST cycle	60	litres
Amount of water used in NORMAL cycle	150	litres
Detergent recommended for use	- ANIOS LB 30 - BACTISINE ALCOLICO 2000	

SAFETY INSTRUCTIONS

Most workplace accidents and injuries occur due to failure to comply with some simple and essential safety rules. Indeed, in most cases, they can be avoided, simply by anticipating the potential causes and consequences by adopting the necessary caution and prudence**.** However, whatever the type of machine or the accuracy with which it was designed and manufactured, not all accidents can be avoided. Carefully complying with a single, elementary safety rule may be enough to avoid many serious injuries.

PAY ATTENTION TO THIS SYMBOL

It means: CAUTION! BE CAREFUL. For your safety and the proper operation of the equipment.

It indicates potential health and safety hazards, and points out the safety precautions to be taken in the workplace.

PAY ATTENTION TO THIS SYMBOL

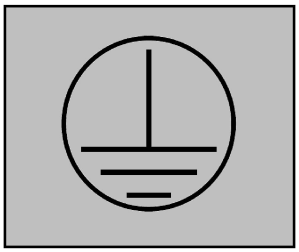
It means: CAUTION! ELECTROCUTION RISK

It indicates potential health and safety hazards, and points out the safety precautions to be taken in the workplace

PAY ATTENTION TO THIS SYMBOL

It means: CAUTION! DANGER! READ INSTRUCTIONS!

If present in certain parts of the machine, the relevant instructions must be read.



PAY ATTENTION TO THIS SYMBOL

It means: CAUTION! THIS IS A PROTECTIVE EARTHING POINT.

This symbol is found in certain parts of the machine and indicates that a protective earthing clamp is present (earthing connection).

PAY ATTENTION TO THIS SYMBOL

It means: CAUTION! BEFORE CARRYING OUT ANY INTERVENTION OR MAINTENANCE OPERATIONS, DISCONNECT ELECTRIC POWER SUPPLY.

This symbol is found in certain parts of the machine and indicates that safety must be ensured by disconnecting the 230VAC power supply before carrying out any operations.

GENERAL WARNINGS

Operator's Responsibility: Care and Maintenance of Medical Instruments and Devices and Related Accessories

Cautious and efficient operators must comply with basic and essential safety rules. Therefore, they must take the necessary precautions to ensure the safety of other people as well as their own. In order to ensure the safety of others and to protect the machine from any damage, they must not be careless. Even though they are not responsible for the complete maintenance of the machine, if they have the skills required and are authorized to do so, they can perform some simple maintenance operations such as washing and checking the proper functioning of mobile parts, complying, always, with the instructions provided in this Manual. It is also essential that they comply with the general rules of conduct contained in this Manual. It is not the users' responsibility to perform complex maintenance operations, which must always be carried out by specialized personnel. However, the operators share the responsibility for the care of the machine. The way they operate will basically determine - with the passing of time - whether the machine will show signs of wear and tear. Appropriate maintenance is essential to avoid serious damage and the wear of those parts under the most stress, and to keep the machine in perfect working order. Operators who treat the machine with care - reporting any anomalies or faults - contribute to maintaining the machine in good working order.

Warnings for Machine Operations

Make sure machine is connected to electrical network and earthing conductor is connected. The earthing conductor must have optimal loss features, validated by a technician. Do not start washing cycle if hydraulic connection to water network, i.e., hot and cold-water inputs or feeds, is not complete. Make sure minimum hot and cold-water pressure is 2.5 bars. Lower pressure will impair overall system performance. Make sure pump is completely air-free. In order to discharge air from electropump, unscrew brass nut on upper side of pump using a 13 mm wrench until enough water has flowed out to ensure the loading of the electropump. Close by screwing cap.

WARNING!
Do not use product for anything but its intended use.

WARNING!
Do not tamper with or alter product.

WARNING!
ONLY USE THIS EQUIPMENT AS DESCRIBED IN CHAPTER "General Features" UNDER PARAGRAPH "Intended Use of Machine"

Warnings for the use of cleaning products

WARNING!
Use detergents recommended by manufacturer:
ANIOS LB30 or as alternative BACTISINE ALCOLICO 2000

Warnings for transportation and storage

The equipment must be packed in its original packaging for transportation. Keep equipment in vertical position during transportation and/or storage.

CAUTION!
Do not tilt or turn upside down during transportation or storage.

Warnings for prolonged inactivity of machine

In case of prolonged inactivity of the machine, release internal pump impeller. In order to do so, contact a technical expert and read paragraph "**Procedure to Release Pump**".

Warnings about machine cleaning efficacy

Instructions:
FAST cycle and NORMAL cycle perform cleaning and cleansing of medical and sanitary devices only if equipment is operated according to specifications and instructions described in this Manual.

Warnings about User and Maintenance Manual

WARNING!
This Manual is an integral part of the product.

Consistent compliance with the information contained in this Manual:

“**User and Maintenance Manual A4-NETTUNO Sink and washing and cleansing Machine**”

guarantees human safety and the proper operation of the product.

MACHINE INSTALLATION

Installation: step 1 of 14

Identify, together with the technician and person in charge of safety, the most suitable area for the installation of the machine.

Installation: step 2 of 14

Make sure the following items are present near the machine:

- Water network connection sockets for hot and cold water
- Hot and cold water feed tubes with min. diameter of ¾
- 230VAC socket equipped with a 16A/10mA magnetothermal-differential switch
- Floor water drain with internal diameter of 90mm
-

Installation: step 3 of 14

Make sure earth cable (yellow/green) is present, and that it is connected to the general earthing system of the building.

Installation: step 4 of 14

Carefully remove equipment from packaging.

WARNING:
Keep original packaging material for the entire warranty period.

Installation: step 5 of 14

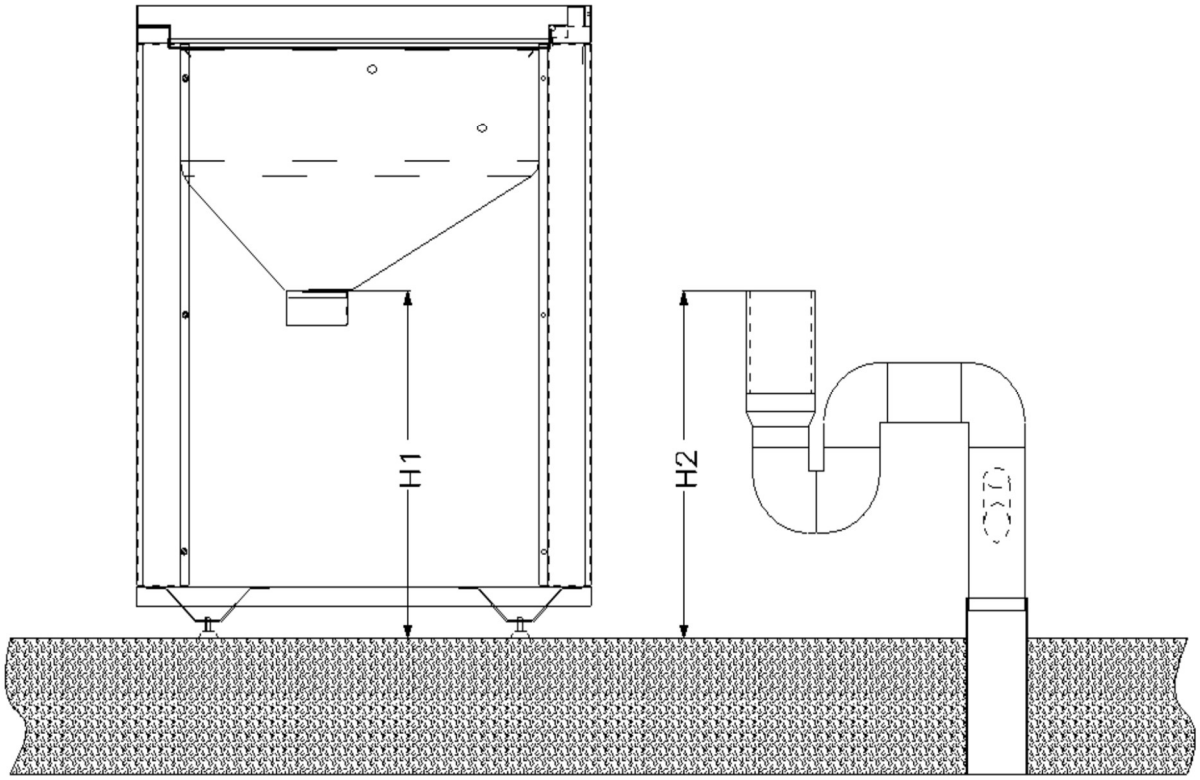
Remove side panel of equipment, by unscrewing all fixing screws.

Installation: step 6 of 14

Measure distance from bottom of sink to floor. Insert draining siphon into floor drain tube. Measure highest point of siphon from floor. Cut off exceeding portion of tube until optimal height is reached for coupling with sink.

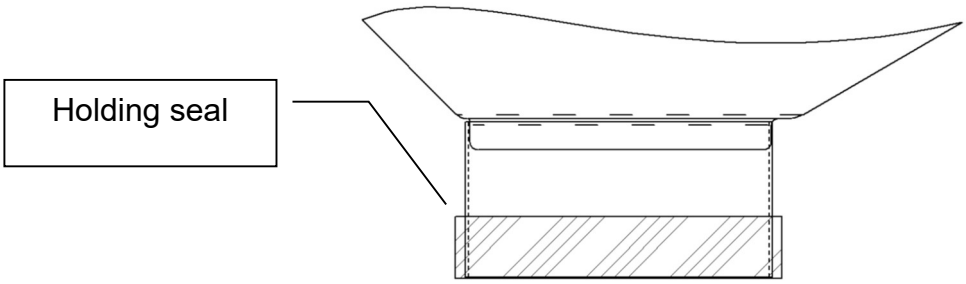
See Figure below:

where **H1 ≈ H2**



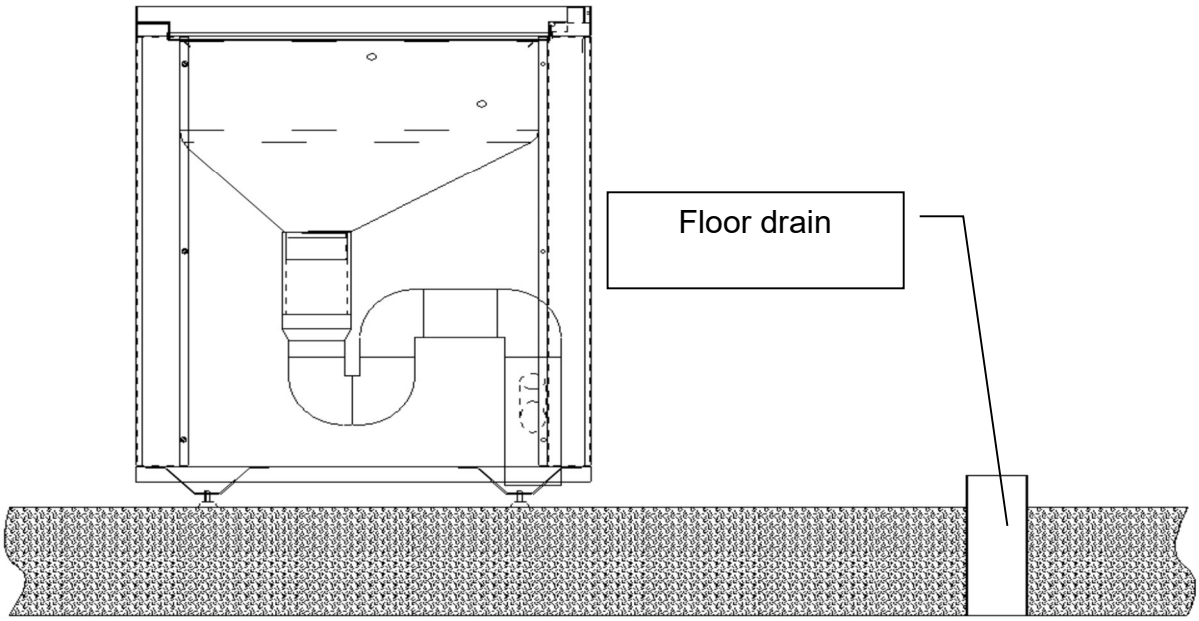
Installation: step 7 of 14

Check to determine if holding seal on draining collar of washing sink is properly positioned. If necessary, use “acetic silicone” sealant to ensure retention of draining liquids.



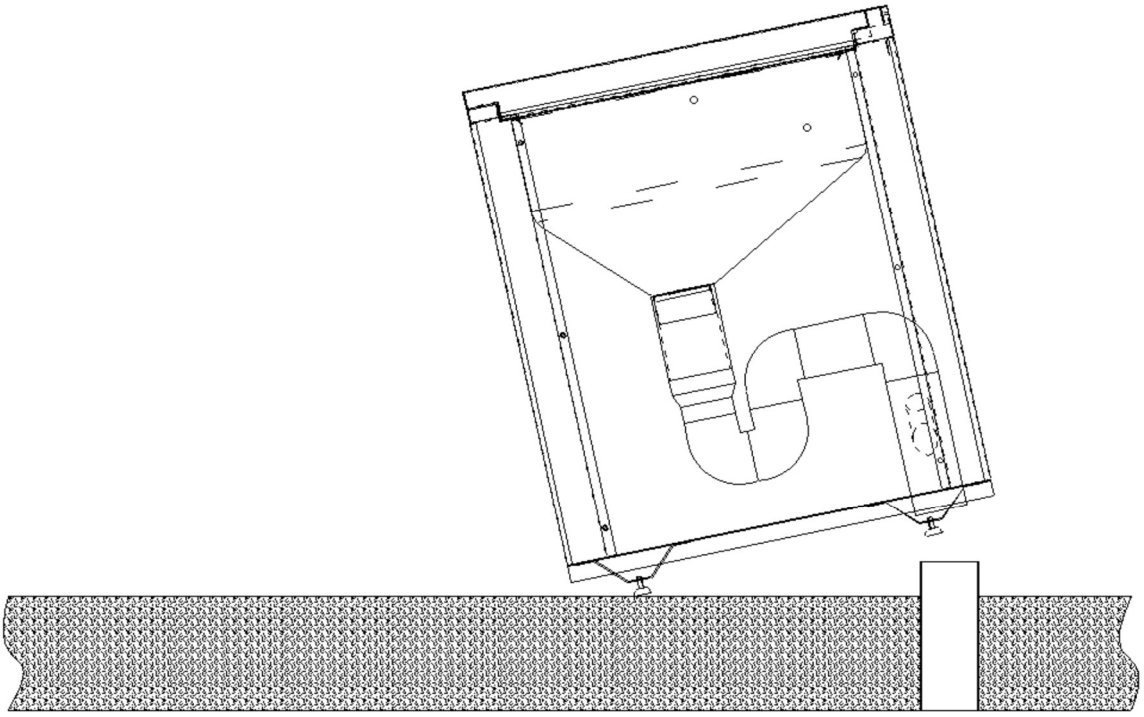
Installation: step 8 of 14

Check to determine if drain tube for overflowing water reservoir is properly positioned. It must be inserted into the holding seal of the 50mm / 45° tube of the draining siphon’s Y pipe fitting. Direct Y pipe fitting towards floor drain.

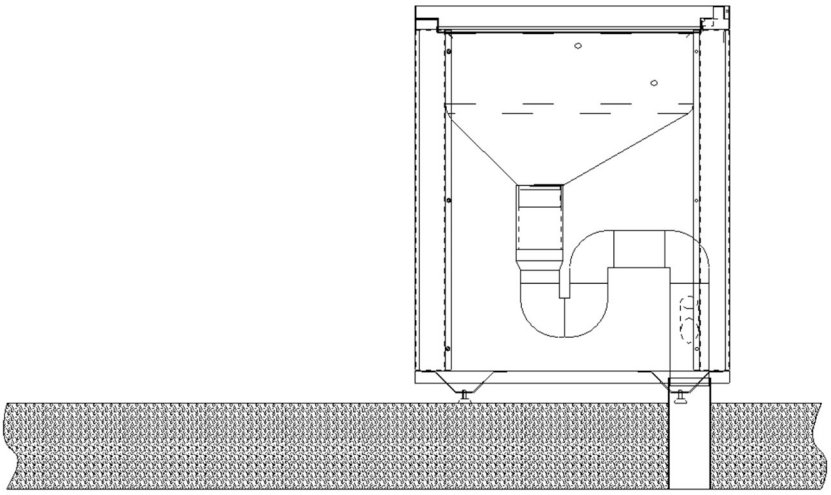


Installation: step 9 of 14

Lift machine a few centimetres off the floor and insert siphon’s Y pipe fitting into floor drain tube.

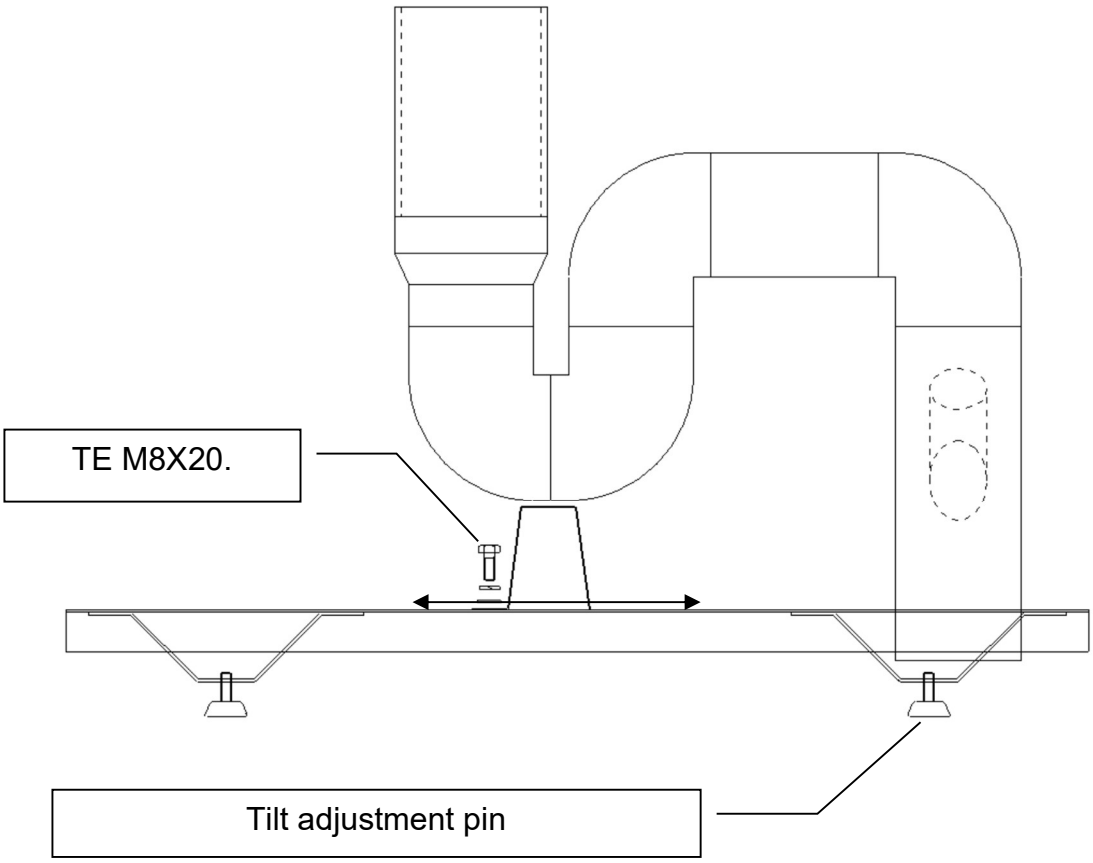


Machine is placed on drain tube.



Installation: step 10 of 14

Fix metal support of drain tube onto the base using the screws provided. Use the most suitable threaded insert available.



Use a (bubble) level to adjust machine tilt on floor.

Use upper side of door as supporting point for the level.

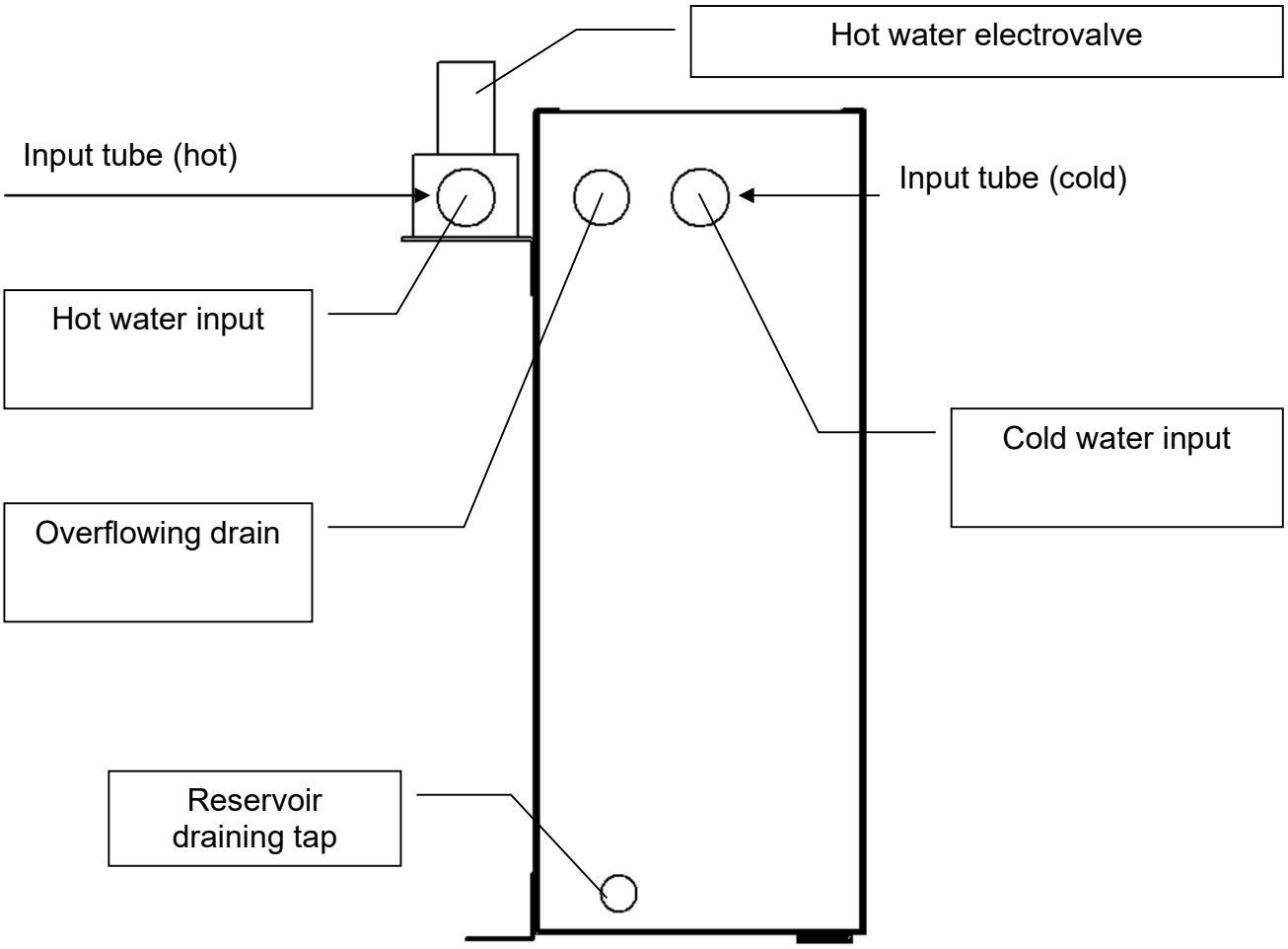
Keeping door closed, adjust pins so that machine lies on horizontal plane according to imaginary lines NORTH-SOUTH and EAST-WEST.

Installation: step 11 of 14

Seal siphon at coupling point with floor drain using acetic silicone.

Installation: step 12 of 14

Connect flexible tubes for the loading of water into machine.
Connect cold water tube to reservoir by ¾ G joint of internal float.
Connect hot water tube to ¾ G joint of electrovalve fixed onto the side of the reservoir.

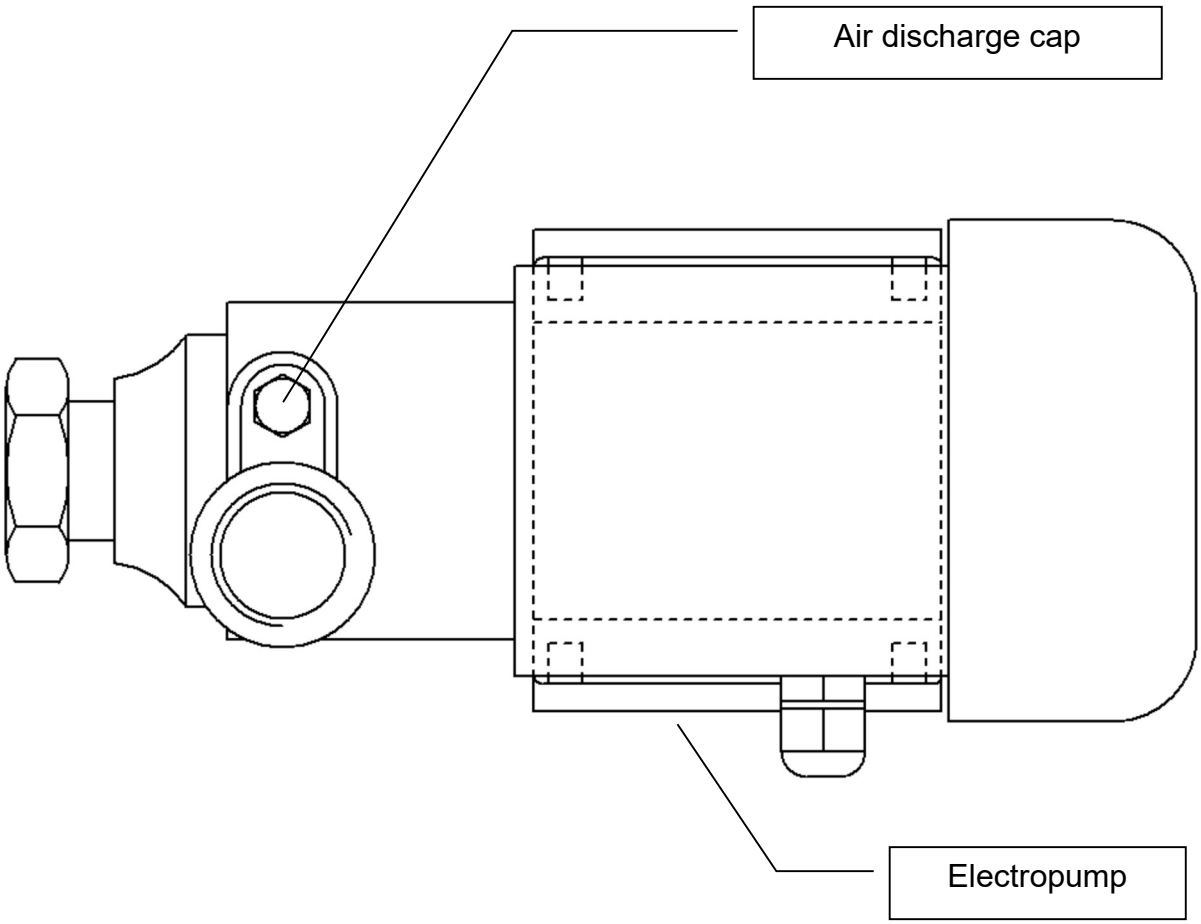


When connection phase is complete, open water taps. Wait until reservoir is completely full. When full, check for leaks in the joints.

Installation: step 13 of 14

Discharge air from electropump.

To perform this operation, unscrew brass nut on upper side of pump using a 13 mm wrench until enough water has flowed out to ensure the loading of the electropump. Close by screwing cap.
(A slotted screwdriver can be used instead of a wrench.)



Installation: step 14 of 14

Connection to 230VAC electrical network.

The machine is equipped with a 3x1.5 tripolar cable with 5mm stripped terminations.

We recommended that a connection point near the machine be used, within 60cm of it.

CAUTION:
Do not use equipment
if electrical system is not equipped with an appropriate
16A/10mA magnetothermal-differential
voltage interruption device.

CAUTION:
For safety reasons,
use an overcurrent protection device
positioned on the external part of the equipment.

CAUTION:
Connect equipment in such a way that it is easy to disconnect it.
For example, use a tripolar plug.

Note: By using an omnipolar plug-socket connection, the equipment can be electrically isolated from the power supply network in a quick and safe manner in case of emergency.

CAUTION:
Make sure machine is properly connected and that protective earthing conductor is in good working order.

Power cable

GUAINA BIANCA o GRIGIA	WHITE or GREY SHEATH
FASE	PHASE
NEUTRO	NEUTRAL
Tabella Colori	Colour Table
ARANCIO	ORANGE
AZZURRO	LIGHT BLUE
BIANCO	WHITE
BLU	BLUE
GIALLO	YELLOW
GRIGIO	GREY
MARRONE	BROWN
NERO	BLACK
ROSA	PINK
ROSSO	RED
VERDE	GREEN
VIOLA	VIOLET

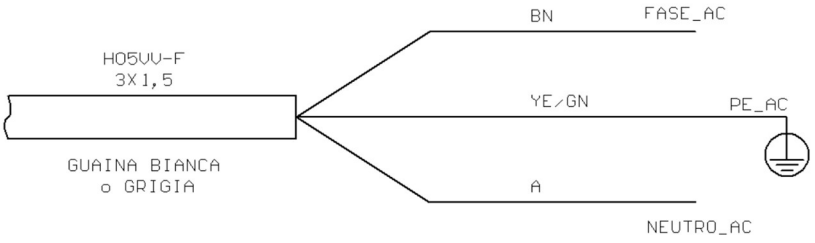


Tabella Colori.

OG	ARANCIO
A	AZZURRO
WH	BIANCO
BU	BLU
YE	GIALLO
GY	GRIGIO
BN	MARRONE
BK	NERO
PK	ROSA
RD	ROSSO
GN	VERDE
VT	VIOLA

CAUTION:
Electrical system cables providing equipment with power must have appropriate section for intended use.

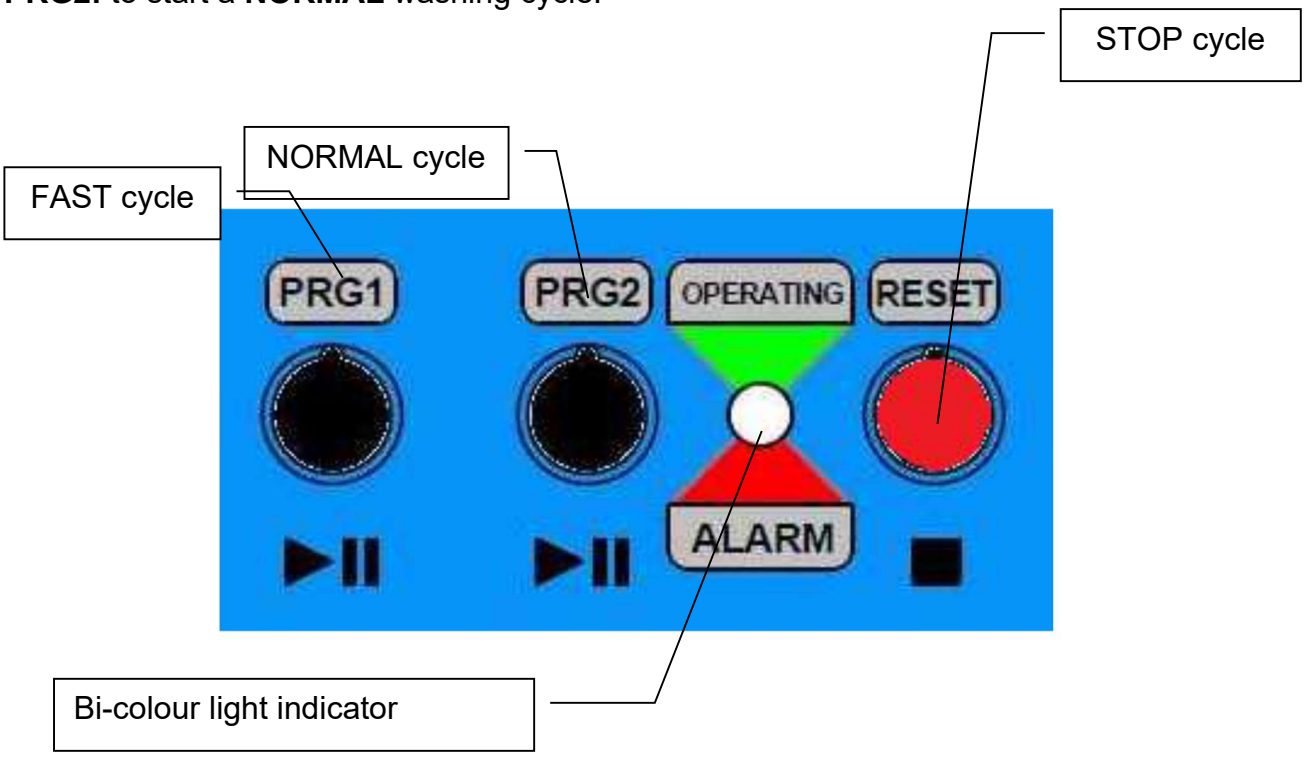
CAUTION:
When connecting to electrical network, make sure connections are done properly to avoid high contact resistance points.

Do not leave cable on floor. Coil and fix it to rear panel.
Lift magnetothermal switch to provide power. The equipment is now ready for its first test cycle.

OPERATING MACHINE

The control panel or operator panel comprises three keys and a bi-colour light indicator.

Black operating keys are:
PRG1: to start a **FAST**-washing cycle.
PRG2: to start a **NORMAL** washing cycle.



Red RESET key stops ■ (STOP) a washing cycle.

OPERATING light indicator is **green** and indicates machine is working.
ALARM light indicator is **red** and indicates an alarm has gone off.

▶II (PLAY/PAUSE) symbol indicates the possibility to pause the program in use.

To pause a program, press the PRG key of the cycle in use once. The cycle will stop immediately. To resume from where the cycle was interrupted, press the same key again.

Note: When cycle is paused, green light indicator flashes.

CAUTION:
Use pause function of selected washing cycle when it is deemed necessary to check inside washing sink to make sure the device to be processed is positioned correctly.

CAUTION:
Close door before resuming cycle. If door is not closed, system sounds an alarm. Cycle resumes only after door has been closed.

CAUTION:
Opening the door when a washing cycle is being performed results in the cycle being interrupted. The cycle will resume after the door has been closed.

CAUTION:
Do not open the door when a washing cycle is in progress if it is not necessary. OPEN DOOR IN CASE OF EMERGENCY ONLY.

Detergent

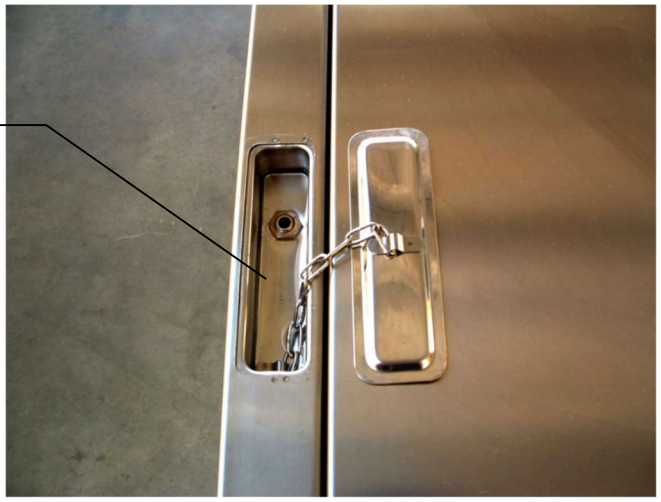
The following detergents are recommended for this machine: **ANIOS LB 30** or as alternative **BACTISINE ALCOLICO 2000**.

	WARNING *Refer to the detergent manufacturer's instructions.*
	WARNING *Do not use detergents containing bleach (sodium hypochlorite)*
	WARNING *Do not use cleaners that contain flammable substances. Their use could cause fire.*

Initial start-up of machine

Before starting test cycle, load detergent reservoir.

Tray for loading detergent



CAUTION:
Detergent must be loaded by trained personnel equipped with personal protective gear in order to avoid exposure to chemicals.

At initial start-up, detergent reservoir is empty. To proceed, load **2 litres** of detergent. **Load pure detergent only.**
To start first test cycle, make sure door is closed and press FAST key. If no problem arises, cycle will end in about 130 seconds.

Note for specialized technical personnel:

Check electropump's cooling fan immediately after pressing FAST key.
If it does not move, press STOP key immediately and start procedure to release pump (See chapter "Procedure to Release Pump").

If an alarm goes off, see alarm table to solve the problem.
A NORMAL cycle should also be performed to check the machine. Duration: 300 seconds.
After checking that there are no liquid leaks and that both cycles were performed successfully, close the side panels.
The machine is now ready for use.

Procedure to release pump

This operation must be performed by qualified technical personnel.

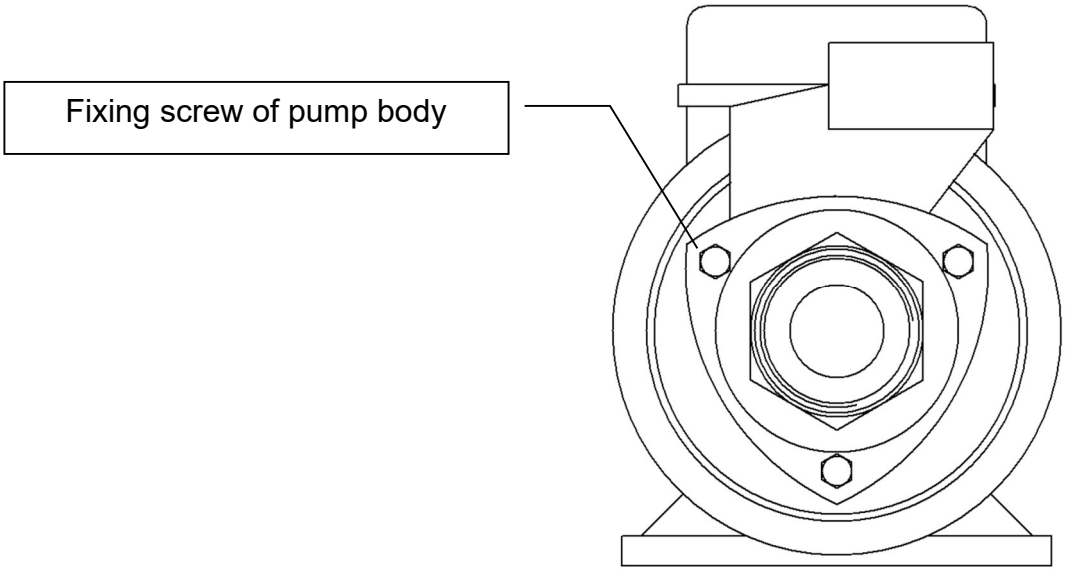
Procedure to remove front panel:

- Raise door.
- Remove all fixing screws.
- Rotate front panel towards the left.
- M Loosen the three fixing screws of the pump using an 8mm wrench.
- Reposition front panel and fix with just two screws.

Release procedure:

- Close door.
- Press FAST key.
- **Wait a few seconds** while electropump is working.
- Check electropump rotation.
- **Press STOP key**.
- Raise door.
- Remove fixing screws.
- Rotate front panel towards the left.
- Fasten the three fixing screws of the pump using an 8mm wrench.
- Place front panel in position and fasten all screws.
- Close door.

Procedure to release pump is complete. Perform test cycle to check.

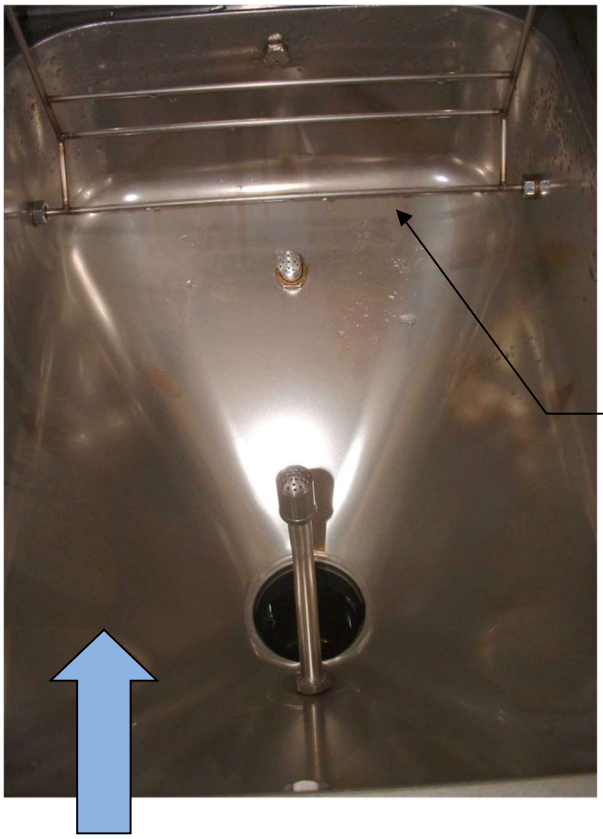


OPERATING MODES

Operating sink. Washing and cleansing bedpan

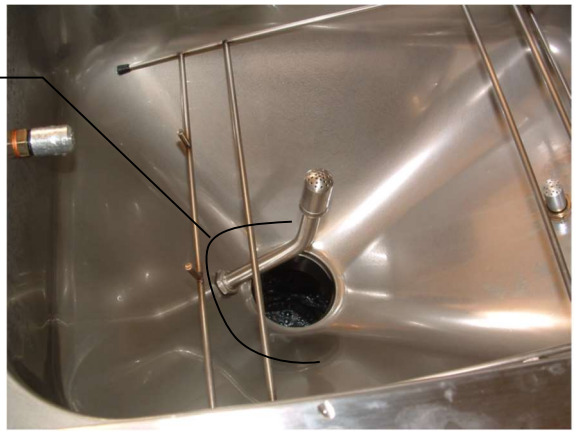
Open door holding handle firmly and raise until upper limit switch is reached.

- Raise metal grid using other hand.



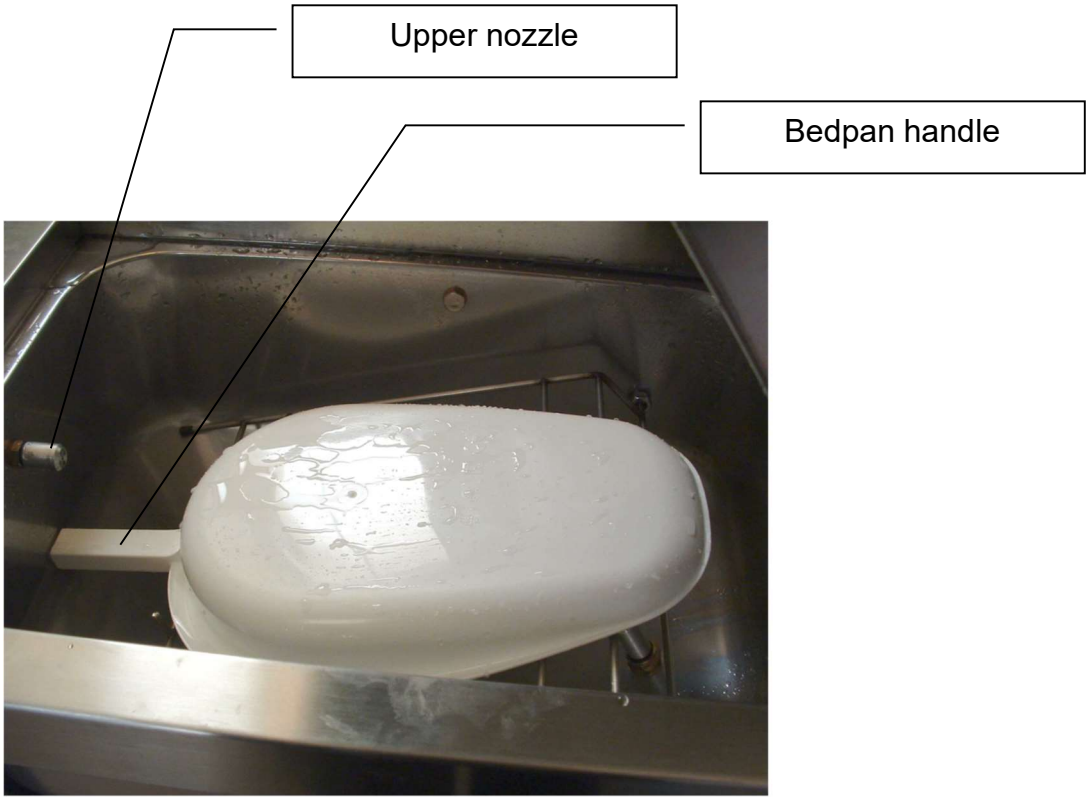
- Place bedpan inside sink
- Turn bedpan upside down and empty contents into sink drain.

Empty bedpan contents in the area delineated by the black line



- Turn bedpan right-side up and remove from sink.
- Lower grid.
- Turn bedpan upside down and place on grid.

Aim bedpan handle towards control panel to align with upper nozzle.



Close door, select **FAST** or **NORMAL** cycle and wait until cycle ends and green light switches off.

WARNING:
When washing cycle ends, place bedpan vertically on a support arranged for dripping and drying

Operating sink. Washing and cleansing urinal bottle

Open door holding handle firmly and raise until upper limit switch is reached.

- Turn urinal bottle upside down and empty contents into sink.
- Place upside-down urinal bottle on spray nozzle.

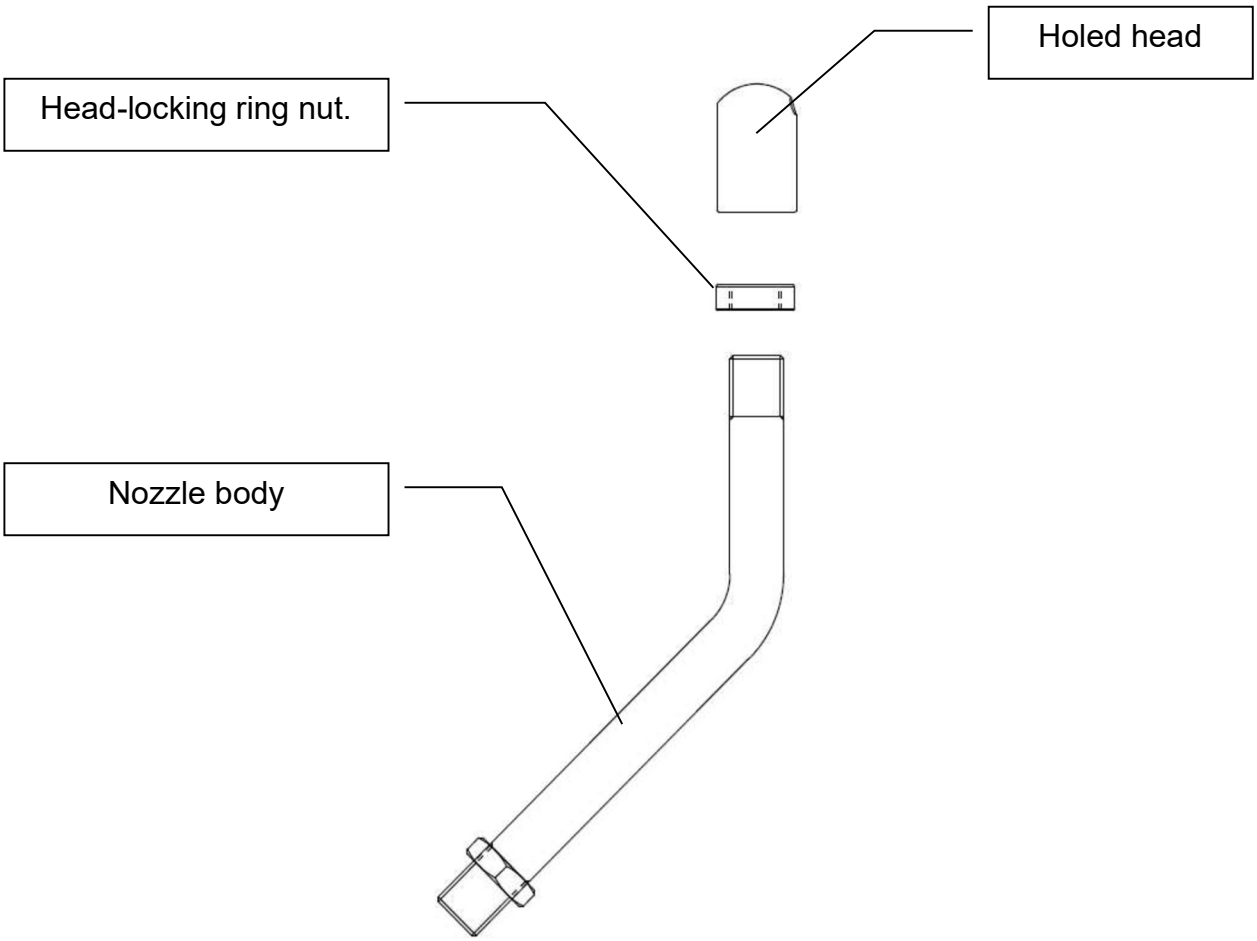
Close door, select **FAST** or **NORMAL** cycle and wait until cycle ends and green light switches off.

WARNING:
When washing cycle ends, place urinal bottle vertically on a support arranged for dripping and drying.

ADJUSTMENT OF WATERJET NOZZLE

For optimal washing performance, adjust height of water-jet nozzle head. Adjust at initial start-up and repeat each time bedpan type changes.
Adjust for bedpans only. In addition to head height, jet direction can also be adjusted.

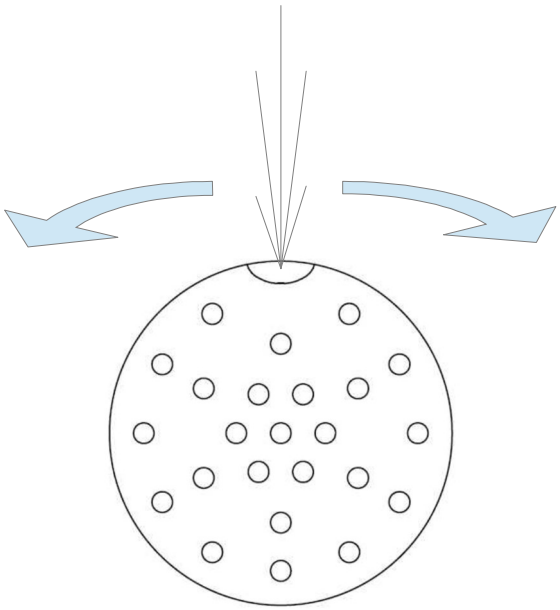
Description of water-jet nozzle



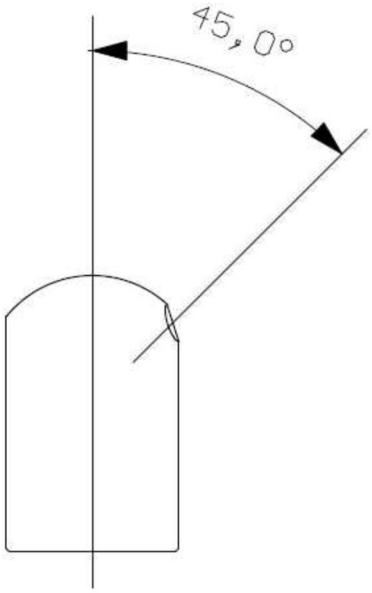
The water-jet nozzle comprises a metal tube aiming upwards. A thread is present at the upper end where a holed head can be anchored.
Turn holed head clockwise or counterclockwise to adjust head height. Water-jet direction can also be set. There is a locking ring nut below the holed head, known as the “head-locking ring nut”. Its purpose is to fix the head in place once the right direction and optimal height have been set.

Adjustment of main waterjet

Rotating holed head allows operator to aim main waterjet.

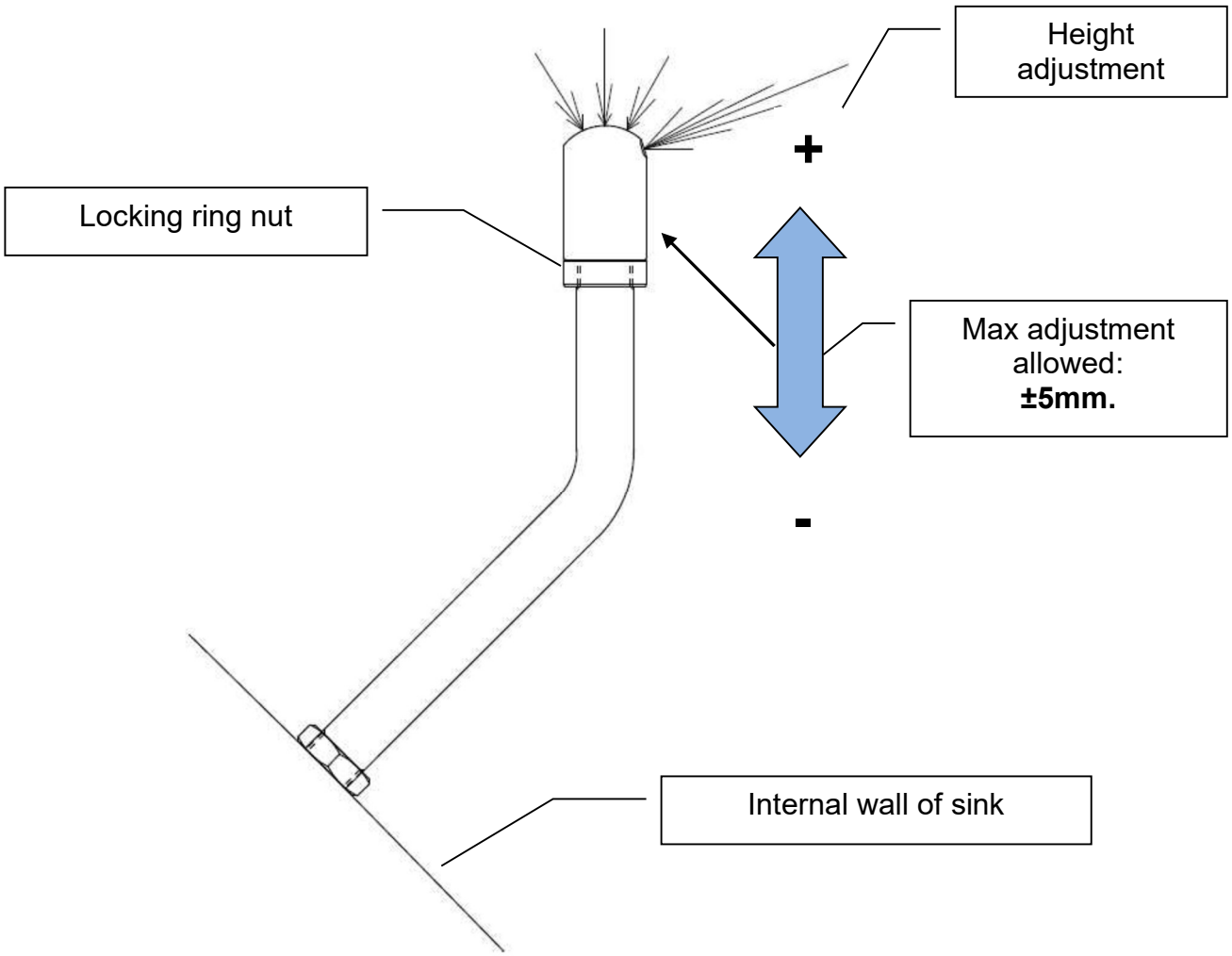


The operator can set the direction of the main waterjet in order to ensure the best washing performance for each type of bedpan.



When adjusting the water-jet, remember that the direction of the water-jet forms an angle of 45° in relation to the vertical axis of the nozzle.

Adjusting the holed head will result in a change in water-jet height in relation to the grid plane where the bedpan lies.



CAUTION:
When adjusting holed head, pay special attention to movement of head. Continuous counterclockwise rotations of the head will result in the nozzle detaching. Total movement is 10mm.

CAUTION:
When adjustment of holed head is complete, always fasten locking ring nut by turning it counterclockwise.

GENERAL NOTES FOR USE

WARNING:
This equipment is not suitable for outdoor use.

Warning for cycle interruption

If door opens while cycle is being performed, process stops immediately and goes into pause mode. Close door to resume process from where it was interrupted.

Warning for regular cleaning

We recommend a NORMAL cycle with an empty machine be performed from time to time, in order to ensure the optimal cleaning of the sink.

Warning in case detergent finishes

If “Detergent Reservoir Empty” alarm goes off, fill detergent reservoir immediately. The system will emit an acoustic signal and the green light indicator will switch on to indicate that maximum detergent level has been reached. Selected cycle resumes automatically.

Warning about washing

Only place one container in equipment for each washing cycle

WARNING:
Only wash one container at a time.

FEATURES OF FAST WASHING CYCLE

FAST CYCLE			
Duration	***Use of hot water***	***Use of cold water + detergent***	***Use of electropump***
30 seconds	NO	YES	YES
70 seconds	YES	NO	NO
30 seconds	NO	YES	YES
130 seconds	**Total time of FAST cycle (2 min. 10")**		

Total values of FAST washing cycle		
These values refer to entire washing cycle		
Description	***Measured value***	***Unit of measurement***
Duration	130	seconds
Total amount of water used during washing cycle	~ 60	litres
Amount of detergent used in FAST cycle	50	ml
Max. number of FAST cycles that can be performed	40	No.

Warning for Use:
FAST cycle only washes and cleans medical and sanitary devices if equipment is operated according to specifications and instructions described in this Manual.

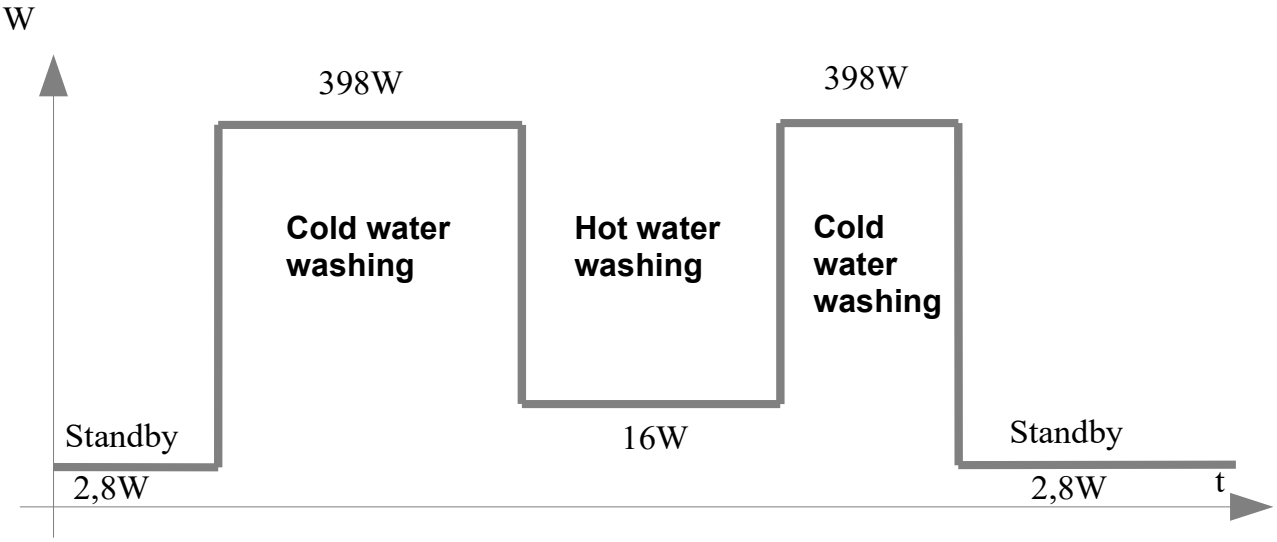
FEATURES OF NORMAL WASHING CYCLE

NORMAL CYCLE			
Duration	***Use of hot water***	***Use of cold water + detergent***	***Use of electropump***
30 seconds	NO	YES	YES
100 seconds	YES	NO	NO
35 seconds	NO	YES	YES
100 seconds	YES	NO	NO
35 seconds	NO	YES	YES
300 seconds	**Total time of NORMAL cycle (5 min.)**		

Total values of NORMAL washing cycle		
These values refer to entire washing cycle		
Description	***Measured value***	***Unit of measurement***
Duration	300	seconds
Total amount of water used during washing cycle	~ 150	litres
Amount of detergent used in NORMAL cycle	100	ml
Max. number of NORMAL cycles that can be performed	20	No.

Warning for use:
NORMAL cycle only washes and cleans medical and sanitary devices if equipment is operated according to specifications and instructions described in this Manual

Power absorbed by network for each washing cycle



WARNINGS AND ALARMS

GREEN light indicator

Green light indicator indicates machine is working.

Light indicator status	***Condition***
1 flash every 4 seconds	Machine in standby, ready to start a washing cycle
Always ON	A program has been selected, washing cycle is being performed.
Quick flashing	Cycle has been paused by pressing PRG key of selected washing cycle
1 flash + 1 acoustic signal	Indicates that RESET key was pressed and held down to clear alarm
10 flashes + 10 short acoustic signals	Indicates that during manual loading of detergent reservoir, maximum level was reached

RED light indicator

Red light indicator indicates an alarm has gone off.

Light indicator status	*Cause*	*Type of alarm*
Always OFF	No alarms	-
Always ON	Program memory empty: board not programmed	**Blocking.**
1 flash + pause	PRG key pressed with door open. Or anytime door is opened while a washing cycle is being performed.	**Non-blocking** Cycle resumes after door is closed.
2 flashes + pause	Detergent reservoir empty.	**Blocking** Alarm automatically resets when detergent reservoir loading is complete.
3 flashes + pause	PRG key pressed with empty cold-water reservoir or while loading	**Blocking** Alarm automatically resets when cold water reservoir loading is complete.
4 flashes + pause	High temperature in machine compartment	**Blocking** Alarm automatically resets when machine compartment has cooled.
5 flashes + pause	No current in electropump	**Blocking**
6 flashes + pause	High current in electropump	**Blocking**
7 flashes + pause	Short circuit current in electropump	**Blocking**

Clearing blocking alarms

When a **blocking** alarm goes off, all normal operations are disabled.
To clear alarm, press and hold down **RESET** key for a few seconds. When light stops flashing, blocking alarm is cleared. Green light indicator flashes and an acoustic signal is emitted to confirm alarm has been cleared.

WARNING:
Before clearing an alarm, identify and evaluate the seriousness of the problem detected.

Troubleshooting table

Alarm warning	***Cause***	***Solution***
Always ON	Program memory empty: board not programmed.	Program SCLPT control board by means of ICD2 Microchip, connecting to 6-pole J6 connector.
1 flash + pause	“Door open” safety control not functioning.	Check if MCL micro-switch is working properly. MCL wiring interrupted. Replace SCLPT control board.
2 flashes + pause	Minimum level contact of detergent level sensor always closed.	Check if detergent level sensor is working properly. Check switching of reed switches during float movement. Check for a short circuit in sensor wiring. Replace SCLPT control board.
3 flashes + pause	Water level contact of cold-water level sensor always closed.	Check if water level sensor is working properly. Check switching of reed switches during float movement. Check for a short circuit in sensor wiring. Replace SCLPT control board.
4 flashes + pause	Temperature in machine compartment is higher than 70°C.	Alarm automatically resets when area around SCLPT control board has cooled. WAIT. Replace SCLPT control board.
5 flashes + pause	No current in electropump.	Check continuity of electropump stator winding. Nominal resistance = 14Ω. Check continuity of engine wiring. Replace SCLPT control board.
6 flashes + pause	High current in electropump.	Check resistance of electropump stator winding. Nominal resistance = 14Ω. Check if engine wiring is correct. Replace SCLPT control board.
7 flashes + pause	Short circuit current in electropump. POWER-SHUTDOWN safety system has been activated.	Check resistance of electropump stator winding. Nominal resistance = 14Ω. Check if engine wiring is correct. Replace SCLPT control board.

CARE AND MAINTENANCE INSTRUCTIONS

Care and maintenance operations must be performed by qualified personnel. Care and maintenance operations must be performed by authorized personnel who have been trained for this purpose. If the organizational structure of a company does not include personnel specifically trained for this purpose, the company must communicate with the manufacturer - or their agent - who may provide scheduled maintenance and technical support services, as well as train a machine operator in normal and maintenance operations.

WARNING:
Do not perform any operation relying solely on experience or superficial knowledge of the machine.

Maintenance of equipment.

CAUTION:
Always disconnect plug before performing any maintenance and/or cleaning operations.

Close water feeding taps before performing any maintenance, repair or check operations.
Disconnect power cable before working on electrical system.
For reasons related to clarity, this Manual features drawings with panels or covers that have been removed. **Do not operate the machine without the side panels or protection.**
Remove all rings or metal bracelets before performing any operations.

Perform a visual check: any foreign bodies must be removed.

Cleaning instructions

For general cleaning of machine, use dry air or rags wet with non-aggressive detergents. Do not spray water on unprotected devices. Do not use solvents and gasolines in order to avoid damaging internal and external devices.

Internal washing of sink

For optimal cleaning of equipment, perform a NORMAL washing cycle daily without placing a container inside the sink.

WARNING:
Before performing NORMAL cycle for internal washing of equipment, make sure no container of any kind is present inside sink.

Periodical check of WATERSTOP safety device

The WATER-STOP safety device must be tested daily.
This test must be performed while a NORMAL cycle for the internal washing of the sink is being performed.

Instructions to perform test:

While NORMAL cycle is being performed, open door by raising it a maximum of **15mm**. Cycle will stop after door has been raised a few millimeters, and red-light indicator will go on. Water loading inside sink stops immediately.

Close door to resume cycle from where it was interrupted.

CAUTION:
Do not raise door quickly when checking WATER-STOP safety device.

CAUTION:
Do not attempt to raise door more than 15 mm in case of failure of test.
In case of failure, contact technical support.

REGULAR CHECKS: ORDINARY MAINTENANCE

Checks must be performed every **3 months** to keep equipment in perfect working order.

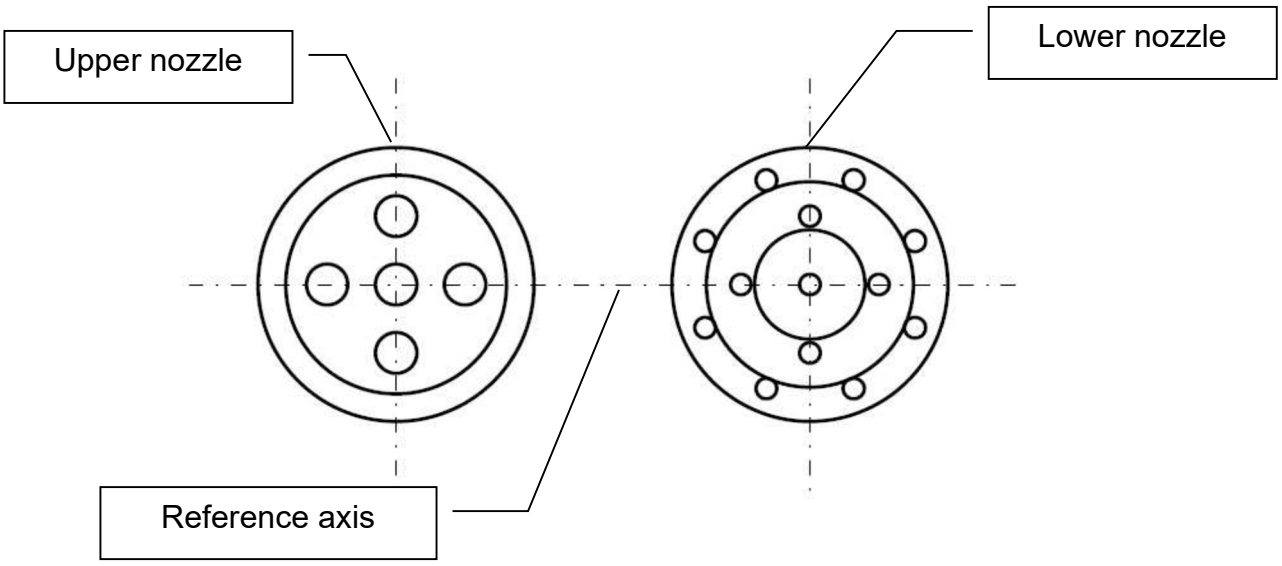
Device	Check	In case of problems
Door opening	Hardening and/or squeaking	Call technical support
Holed head	Nozzle clogging	Remove and clean
Upper nozzle	Nozzle clogging	Remove and clean
Lower nozzle	Nozzle clogging	Remove and clean
Grid rotation	Rotation hardening	Call technical support
Detergent loading tray	Loading tube clogged	Unclog hole

Removal of holed head

If holed head is removed, position according to procedure described in chapter **"Adjustment of Water-jet Nozzle"**.

Removal of upper and lower nozzle

If nozzles are removed, position according to the following instructions



After nozzles have been cleaned, mount by screwing onto respective threaded joints.

CAUTION:
Make sure rubber rings are present and undamaged. Replace if worn.

Screw until limit switch is reached and fasten lightly until rubber ring is compressed.
See Figure for final position during rotation.
Reference axis must be parallel to the floor (the 4 holes are arranged crosswise).

REGULAR CHECKS: HALF-YEARLY MAINTENANCE

Half-yearly maintenance work must be performed every **6 months**.
During maintenance work, check the following devices:

- Floating valve inside water reservoir.
- Water level sensor inside water reservoir.
- Detergent level sensor inside detergent reservoir.

Make sure electropump cooling fan compartment is not clogged with dirt or foreign bodies.
Check incrustation state of tube.
Check for sediment inside water and detergent reservoirs.

Before cleaning the water reservoir, empty it by using the rear tap. Pour reservoir contents into a shallow bowl. Repeat until reservoir is completely empty. Alternatively, use an electrical or manual pump connected directly to outlet tube of draining tap.

Checks of electrical devices

During the **six-month** regular check, check for any burnt conductors, loose electrical connections, or significant oxidation.

CAUTION:
Always disconnect plug before performing any maintenance and/or cleaning operations.

WARNING: If devices are removed, make sure they are reinstalled correctly and that they work. For instructions, see **Technical Manual**.

REPLACEMENT OF WORN OR DAMAGED COMPONENTS

During equipment maintenance operations, all components found to be worn or damaged must be replaced immediately in order to maintain and guarantee optimal machine performance and maximum washing cycle effectiveness. To replace complex components, see Technical Support Manual.

CAUTION:
Always disconnect plug before replacing equipment components.

WARNING:
All machine components or parts must be replaced with originals.
Ask the manufacturer for original parts.

Protecting machine in case of prolonged inactivity

- Disconnect machine from water and electrical network.
- Empty all reservoirs.
- Remove draining siphon.
- Clean machine and place it in a dust-free and dry room.
- Lubricate all mobile mechanical parts.
- Cover machine with a large sheet.

Care, checks and inspections to be performed after prolonged inactivity

CAUTION:
Do not connect plug to electrical network when restoring equipment for use.

Remove the following electromechanical devices very carefully:

- Hot water electrovalve.
- Electropump.
- Detergent electrovalve.

WARNING:
Before restoring equipment devices for use, read Technical Manual.

Disassemble electrovalves and electropump very carefully, and clean internal mechanisms with care.

- Clean capacity reducer inside detergent valve.
- Check if “EUROPA ½” blocking valves are working correctly.
- Remove calcareous sediments from inside tubes or reservoirs.
- Check if electropump is working.
- Assemble all parts following instructions in reverse order.

Install machine, as described in preceding chapters.

COMPETENT ORGANISATION

The competent organization shall issue a statement certifying that it has equipped the water system with devices to prevent the pollution of the equipment’s wall water services, by means pursuant to the provisions of **IEC 61770**.

Operator training

Competent organization must ensure that all personnel authorized to operate this equipment or perform maintenance, cleaning or repair operations are indeed trained to perform such operations and are able to operate in safety.
Competent organization must ensure that all personnel involved in operating the equipment and performing maintenance work are regularly trained, including in emergency procedures to handle pathogenic material released inside the equipment.

WARNING:
Competent organization must train the operator well in such procedures.

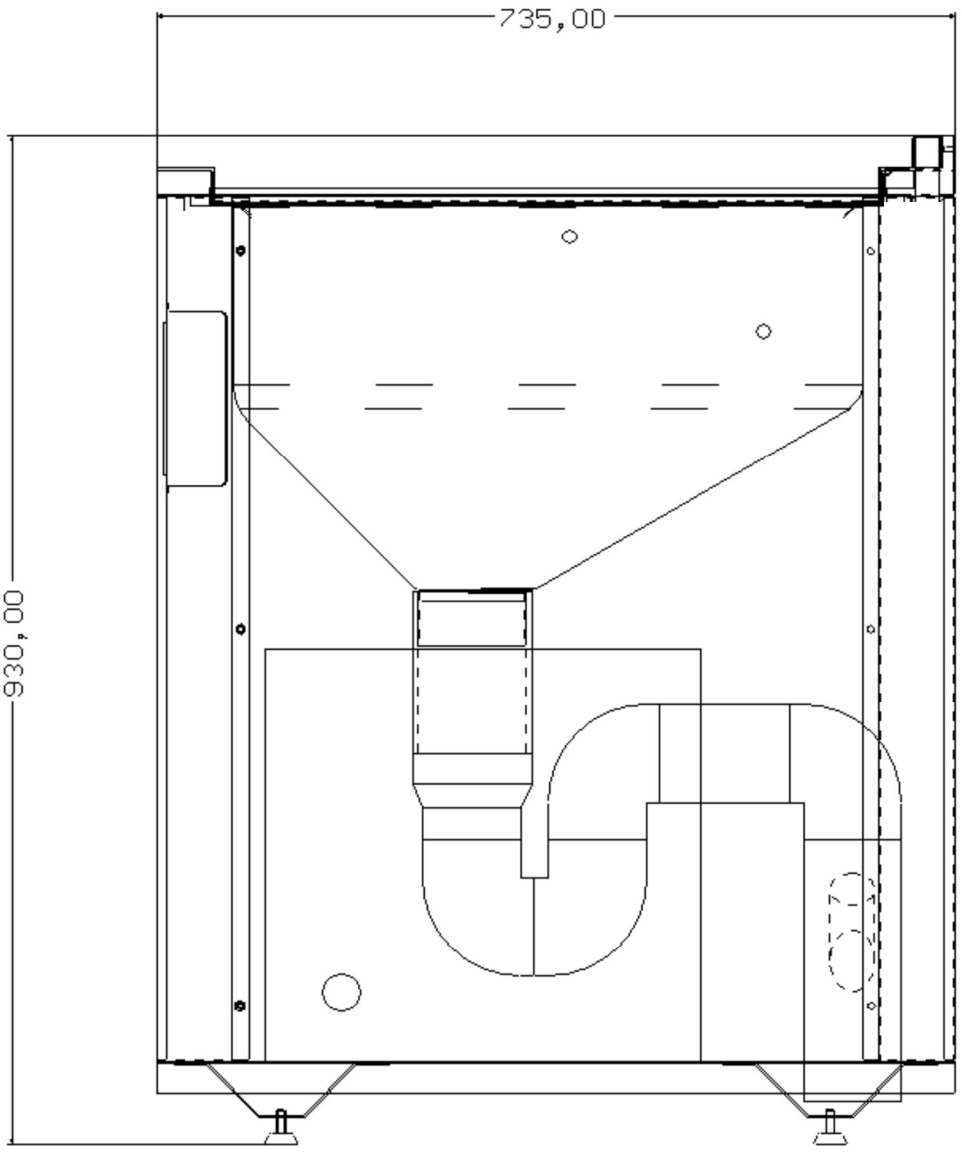
Warnings and precautions for handling pathogens

The material processed by the equipment must be considered potentially infected and must be handled accordingly by qualified operators and persons responsible for maintenance. Operators and persons responsible for maintenance must adhere to the instructions contained in this Manual and use the necessary personal protective gear.
Competent organization must ensure personal protective gear is used and operated correctly in order to ensure protection against biological risk, **pursuant to the regulations in force.**

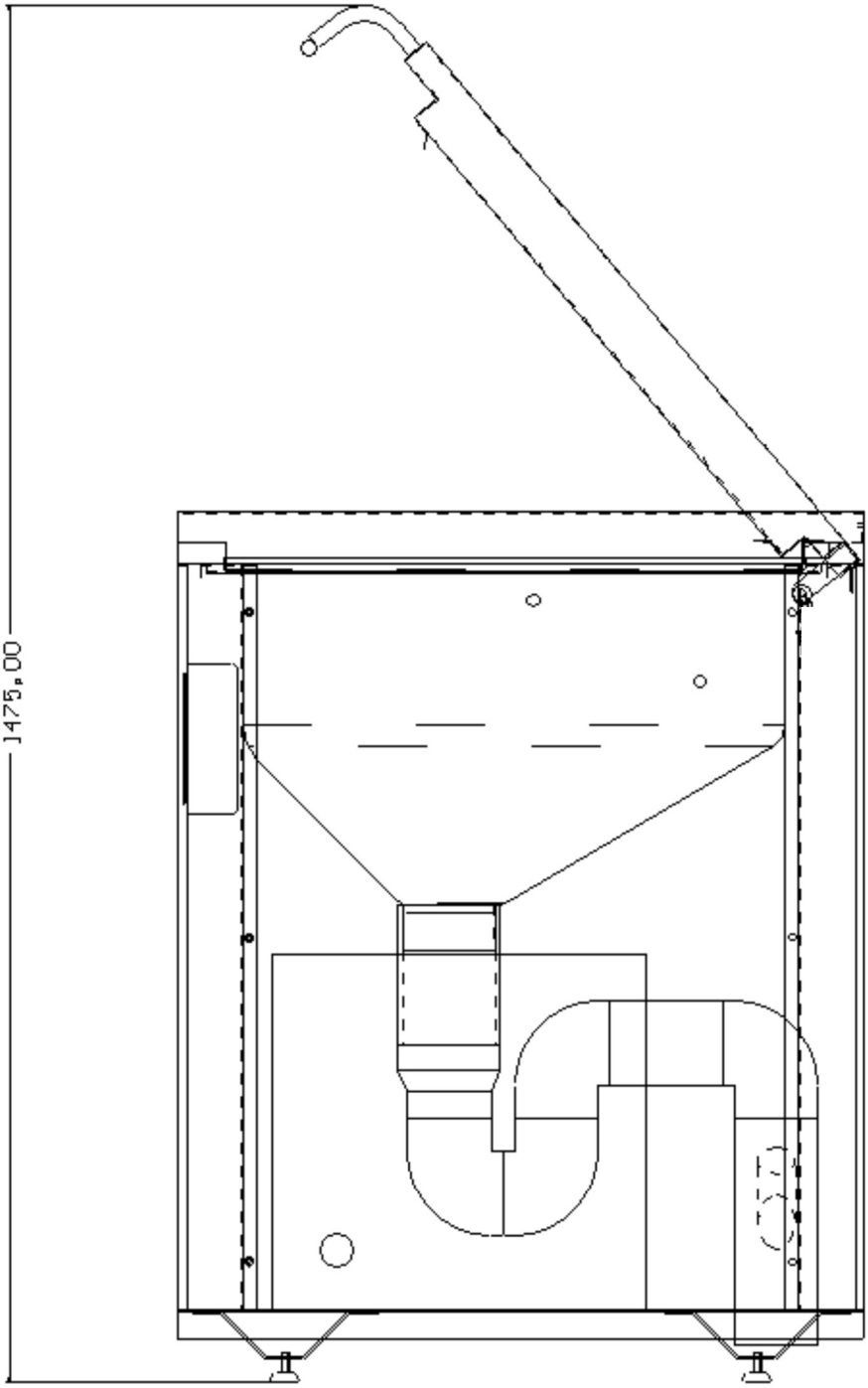
WARNING:
Competent organisation must train operators and persons responsible for maintenance in use and operation of personal protective gear.

OVERALL DIMENSIONS

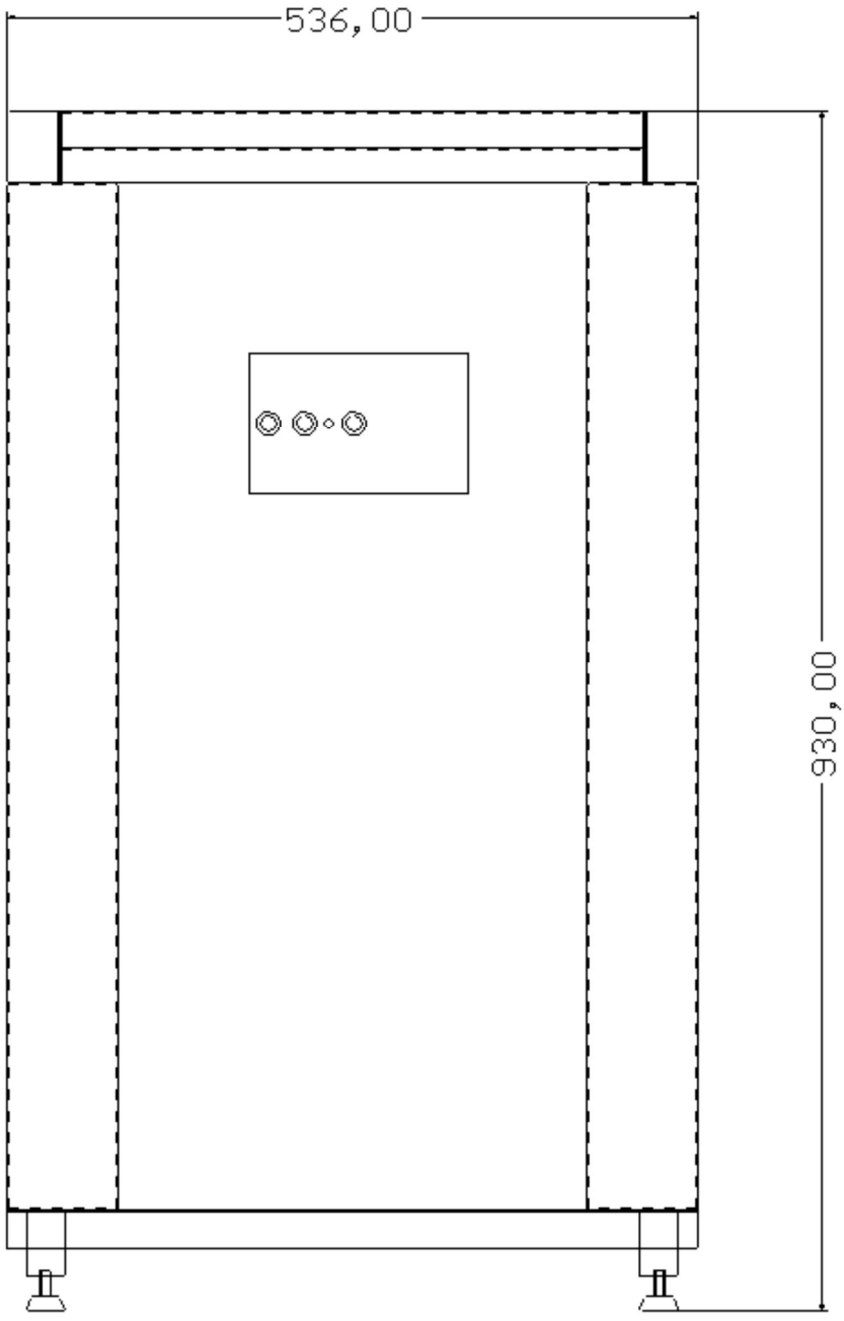
Side



Side with door open



Front



ITEMS INCLUDED WITH DELIVERY

The following items are included with delivery:

- N°1 User and Maintenance Manual
- N°1 Funnel

DISPOSAL

This machine is composed of different materials and mechanical, electromechanical and electronic parts.
It must be disposed of in accordance with the laws in force in the country where it is used.

USEFUL LIFE

The useful life of the device is established in years 5 from the commissioning. For this period Titanox S.R.L. guarantees the availability of spare parts and safe operation as long as the environmental and use conditions defined in the instructions for use are respected by the user.

WARRANTY

The product is covered by a one (1) year warranty.

1. Warranty period starts from date of delivery of equipment to user, acknowledged by STATEMENT ACKNOWLEDGING RECEIPT form, duly filled in, stamped and signed.
2. In case of a claim, date indicated on packing list is valid.
3. Repairing or replacing component under warranty is subject to the irrevocable decision of the company TITANOX and does not include travel expenses of personnel and packaging and shipping costs.
4. Lamps, fuses and any failure or damage due to improper maintenance, negligence, lack of skill or other causes that cannot be attributed to manufacturer are excluded from warranty coverage.
5. Components subject to normal wear and tear and accessories (e.g. buttons, pump moving parts, seals, etc.) are excluded from warranty coverage.
6. The right to request replacement of entire product is not recognized.
7. Warranty does not include compensation for damages, direct or indirect, and whatever their nature, incurred to people or things, due to equipment inefficiency.
8. TITANOX is not responsible for any failure or damage due to improper use of product or resulting from lack of ordinary maintenance or lack of basic principles of good maintenance (negligence).
9. Compensation for equipment downtime is not recognized.
10. Warranty automatically expires if equipment is tampered with, repaired or modified by customer or third parties not authorized by TITANOX.
11. For maintenance operations, customer must only contact retailer or support centres indicated by TITANOX.
12. Components replaced under warranty must be returned to TITANOX, carriage paid by customer.
13. Failure to return component will result in customer being charged with relative cost.
14. TITANOX does not accept returns from final users.
15. All returns to TITANOX for repair must be managed by retailer or support centre chosen by final user in accordance with commercial procedures.
16. All returns to TITANOX must be documented and authorized as per internal procedures.
17. All products returned to TITANOX must be accompanied with return authorization documentation and a document describing problem.

All products returned to TITANOX for repair must be shipped to TITANOX, carriage paid by customer, and must be packed in their original packaging only.

Sink and machine for washing and cleansing bedpans and urinal bottles

A4-POSEIDONE

Nome dell'articolo. **Article name.**	Bedpan washer A4-POSEIDONE	
Numero dell'articolo. **Article number.**	REF	**A4-POSEIDONE**
Numero di serie. **Serial number.**	SN	
Data di costruzione dell'articolo. **Date of manufacture.**		
Codice del Lotto. **Batch code.**	LOT	

TITANOX S.r.l.

Head Office and Plant:
Via Canove n.2/A
Loc. CANOVE DE BIAZZI 26038
TORRE DE PICENARDI (CR)
VAT: 00679310193