



Tuinbouwtechniek
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USER MANUAL

HYGIENE STATION URK



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1 INTRODUCTION

All technical and technological information as well as all pictures and technical descriptions, which are given in this manual, or have been handed over in any other way remain the property of NIEROS and are not allowed to be used for any other purpose as for using this appliance, or to be copied, multiplied, or a third party being acquainted with without written approval of NIEROS.

You are kindly requested to read this instruction manual before installing and starting the appliance. It is also recommended to have the instructions kept safe for later use. These instructions contain practical and important information for impeccable working and maintaining of the appliance. They also contain directions how to avoid accidents and injuries during installation and operations. Get acquainted with the operation and functioning of the appliance and respect these instructions. If you have any questions regarding the appliance, or have any interest in any other products, please contact our NIEROS experts. All data in these instructions are based on the latest information. All rights to later modifications are reserved. All rights of construction and/or technical changes of our products without commitment of adapting already delivered products are reserved.

1.1 Warranty

Warranty time is 12 months with warranty conditions according to delivery conditions of NIEROS. All the parts submitted to usual tear and wear are not under warranty.

Warranty rights extinguish:

- repairs which are performed by an unauthorised person
- the service and maintenance not carried out in accordance with the instructions of NIEROS
- the repairs which are carried out without written agreement of NIEROS
- changes on the machine which have been made without written agreement of NIEROS.
- the machine is being used in a wrong way, careless or unsuitable regarding its purpose

1.2 Out of service

In case the machine will not be used for a longer time period or before putting it out of service, all the parts that are dangerous to people or nature have to be removed.

1.3 Safe use

NIEROS has made every effort to inform you as precisely as possible about possible dangers when working with the appliance. It is important that you pay attention to the instructions at all times and that you are the person who is responsible for either training or using this machine. The Buyer/user is obligated to train its staff in how to use, clean and maintain the appliance with the instructions supplied.

Hygi-control is made for cleaning and disinfection of hands and soles.

Each person working with this machine has to be acquainted with all safety directions and warnings in this manual and appropriate directions for preventing accidents and other directions from safety at work.

Installation and repairing has to be done only by qualified expert.

Installation of the machine is allowed only if all technical data correspond the force of the house (plumbing, electric network). The data is written on type board.

All phases should be connected equally in order not to overload the electrical system.

In case of interruptions, breakdown, emergency or danger, turn off the machine immediately with an EMERGENCY OFF safety switch.

Packaging (foil, nails, bands ...) should be removed out of reach of children. If anything is damaged or parts are missing you should not install the machine - but please immediately contact NIEROS.

Switch on the machine only if the brushes and the grates are placed. Never put hands in the vessel for cleanser or disinfection agent. You could get burnings.

Do not put body parts between brushes when the machine is running! You could get caught, pressed, or burned, or be injured in any other way.

Pay attention not to get any objects , which could get caught like shoelaces between the brushes.

Protect your eyes from splashes of water and bleach.

Fitting and connecting extra devices on the machine without a written permission of NIEROS is not allowed.

Pay attention to maintenance periods.

2 DESCRIPTION HYGI-LINE URK

NIEROS HYGI-LINE is maintaining hygiene in production and social areas in industries with high hygiene standards. HYGILINE products are designed for cleaning and disinfection of footwear, hands and working instruments. All products are made from stainless steel AISI 304, some machine's components (e.g. pumps, el. systems) are made of other materials. Control unit has IP 65 protection.

Machines marked with URK are combined hygiene barriers and serve as obligatory transpassing before entering or exiting the production area. When entering the person has to fullfill all prevued conditions in order to pass-by turnstile. The conditions vary between chosen models. After washing and disinfecting of hands turnstile is relased and one can pass over brushes to clean the soles (machines V V70, V300 also sides of footwear). Exiting the production area one is registered by sensors - brushes start to rotate and cleaning solution is added automatically. Machines marked with W have additional function for handwashing (extra pair of openings).

Hygi-control can be equipped with a registration system (optional), which registers each person passing in any direction. This enables perfect control and traceability of hygiene standards in your company. Registration system can be also connected to your PC computer or network.

CLEANING OF FOOTWEAR	X	X	X	X	X	X	X	X
CONTROLL OF TRANSPASSING	X	X	-	X	X	X	X	X
DRYING OF HANDS	-	-	-	-	-	X	-	-

(!) The additional description of functions is written bellow.

a) SOAPING

When the person approach the machine it is automatically illuminated. Both hands have to be put deep enough to be registered and soap spraying is activated. When the spraying is stopped tripod turnstile is unlocked and one can pass. Hands are rinsed at basin, mounted close to machine.

b) HANDS WASHING

When the person approaches the machine it is automatically illuminated with gentle yellow light. Both hands have to be put deep enough to be registered and soap spraying is activated, after 3-5 seconds water begins to spray. When the spraying has stopped tripod turnstile is unlocked and one can pass.

(!) Note: If the hands ARE NOT in the washing chamber as long as the splashing is going on, the next function (hand disinfection) is not possible (hands are registered by sensors placed in the chamber).

c) DISINFECTION OF HANDS

Disinfection automat is activated when the hands are put into foreseen openings illuminated yellow. Disinfector is normally connected or to tripod turnstile, door or electric lock in order to prevent passing to not disinfected persons without disinfected hands.

d) DISINFECTION OF SOLES

Each person has to step into disinfection basin before entering clean areas and disinfect the soles.

e) CLEANING OF FOOTWEAR

When retouring from production everybody has to pass rotating brushes and clean the footwear. When the sensor registers the person brushes are automatically activated as well as spraying of cleanser onto them. Rotating time can be set – see chapter control unit.

f) CONTROL OF TRANSPASSING

tripod turnstile is built-in to prevent free trespassing of persons, who did not fulfill prescribed operations.

Tripod turnstile can be:

- Entry– retour free; enables controlled entry in clean area and free retour on the same path
- Entry controlled electronically – retour blocked; person can use this path only to enter the area
- Entry and retour controlled electronically

3 INSTALATION

Hygi-control can be installed only by qualified and authorized person respecting national regulation.

Hygi-control should be placed in a room overflow with air temperature +4°C to 40°C and no rusting subjects. Floor should be non slippery. The device should be leveled by water balance to ensure good disinfection of soles.

3.1 Water Connection

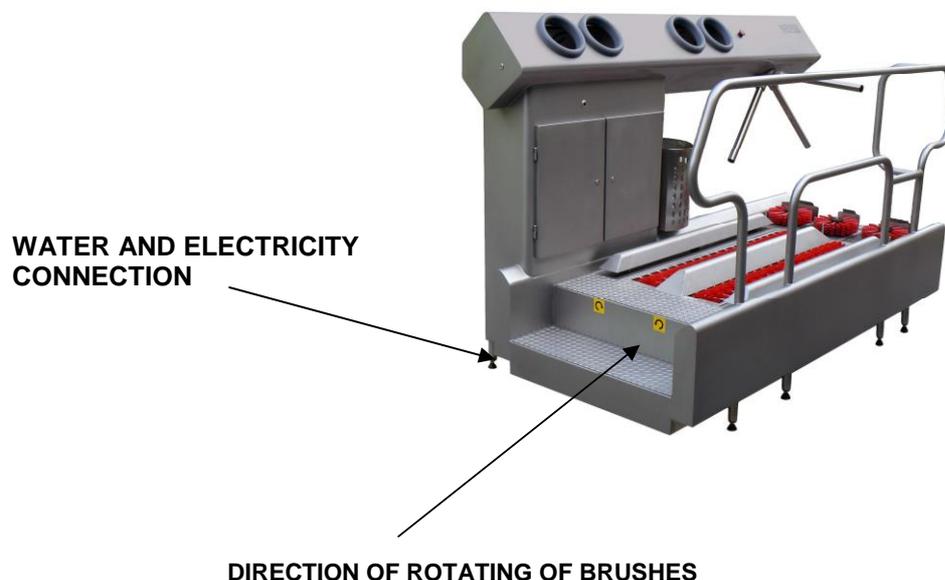
Machine requires R ¾" water connection. Either cold or hot water can be used, but not higher then 43°C because of. If needed use temp erature mixing valve. Pressure of water should be between 2, 5 and 6 bars;

Plumbing has to be brought to the machine with **dirt catcher** (to prevent dirt particles in water would enter the machine) by investor

R ¾" connector to cold resp. warm water (max. 43°C to prevent albumen coagulation –if necessary use mixing battery); warm water is recommended

Water pressure 2,5 to 6 bar (if the pressure is higher set a pressure reducing valve)

Machines with washing function have 2 water connectors – warm water for hands and cold for brushes. Connectors are bellow on the pillar side (Picture1).



Slika1

3.2 Connection on electrical network

Machine should be connected on 3 phases 3x400V, 50 Hz electrical network with electrical cable 5 x 1, 5 mm². Machine can now be connected:

Directly with a fix connection on electrical network; please note that use of power ON/OFF switch (with disconnecting of all phases!) is obligatory.
with a plug for electrical outlet

After connecting to 3 phase el. connection, please check the brushes rotate in shown direction (picture 1).

3.3 Water Outlet connection

Install the machine over a floor drain with an odour trap or connect all of machine's outlets with tube DN50 directly into waste water handling system or a floor drain. Anti-odour trap is not included in the delivery! You have to consider the national regulation about fat and grease disposal.

4 DISINFECTION AND CLEANING AGENTS

There are two different disinfecting agents in use for disinfecting hands and footwear. For cleaning alkaline non foaming cleanser is suitable, which decompose albumen and grease. Please consult producer of chemicals and choose the appropriate one. Consider his safety instructions. **Machine should not be exposed to strong chemicals, especially chlorine.**

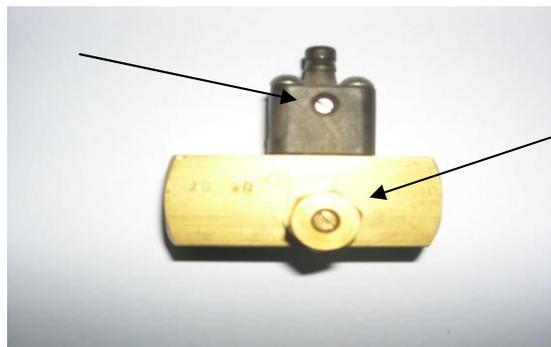
4.1 Disinfection and cleaning agent for hands

Put the agent for hands into pillar. There are two suction installations; put thicker tube - suction hose with floating switch into the vessel with agent for hands. High-pressure pump for dosing of agent is placed behind the doors.

4.2 Disinfection and cleaning agent for footwear

Put agent for footwear into pillar. There are two suction devices; thin tube is to be placed into the vessel with agent for footwear. The concentration of disinfecting solution can be set on the suction valve and/or by exchanging of spray nozzles.

Screw to adjust agent quantity Screw to water sprayed



***adjust
on
brushes***

5 START

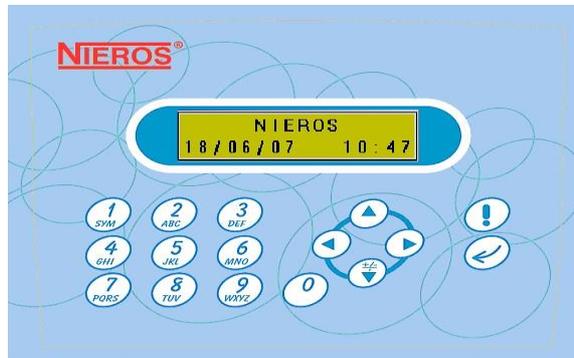
Connection and installation work are allowed to be carried out only by authorized expert.

Prior to starting following steps are necessary:

- Before connecting connect the metal casing to earth!
- Open the water valve
- Connect the machine to electrical network
- Release EMERGENCY button
- Fill the machine with cleaning and disinfection agents
- Wait until the disinfection basin for soles is filled to upper level

- Turn the main electrical switch to ON position
- Check if brushes are rotating in prevued direction (if not change the phases – only authorized personnel)
- Change set parameters on the control panel if needed

6 CONTROL UNIT



	Choosing of menu
	Parameter setting
	Confirmation and entering into submenu
	Entering in main menu Exit from submenu return in to basic menu
	dial

There are 2 lines on LCD screen pointing:

upper shows menu, were you are in second are the parameters, which can be changed and confirmed

Parameters, which can be changed, are to be found in the schedule below. Key  shall be pressed for each choice.

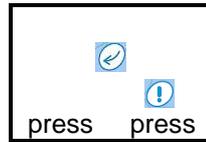
When mistaken, one can press  and get back into upper level - menu.

During operation of machine there is basic menu  shown on the screen.

6.1 Number of registered passages

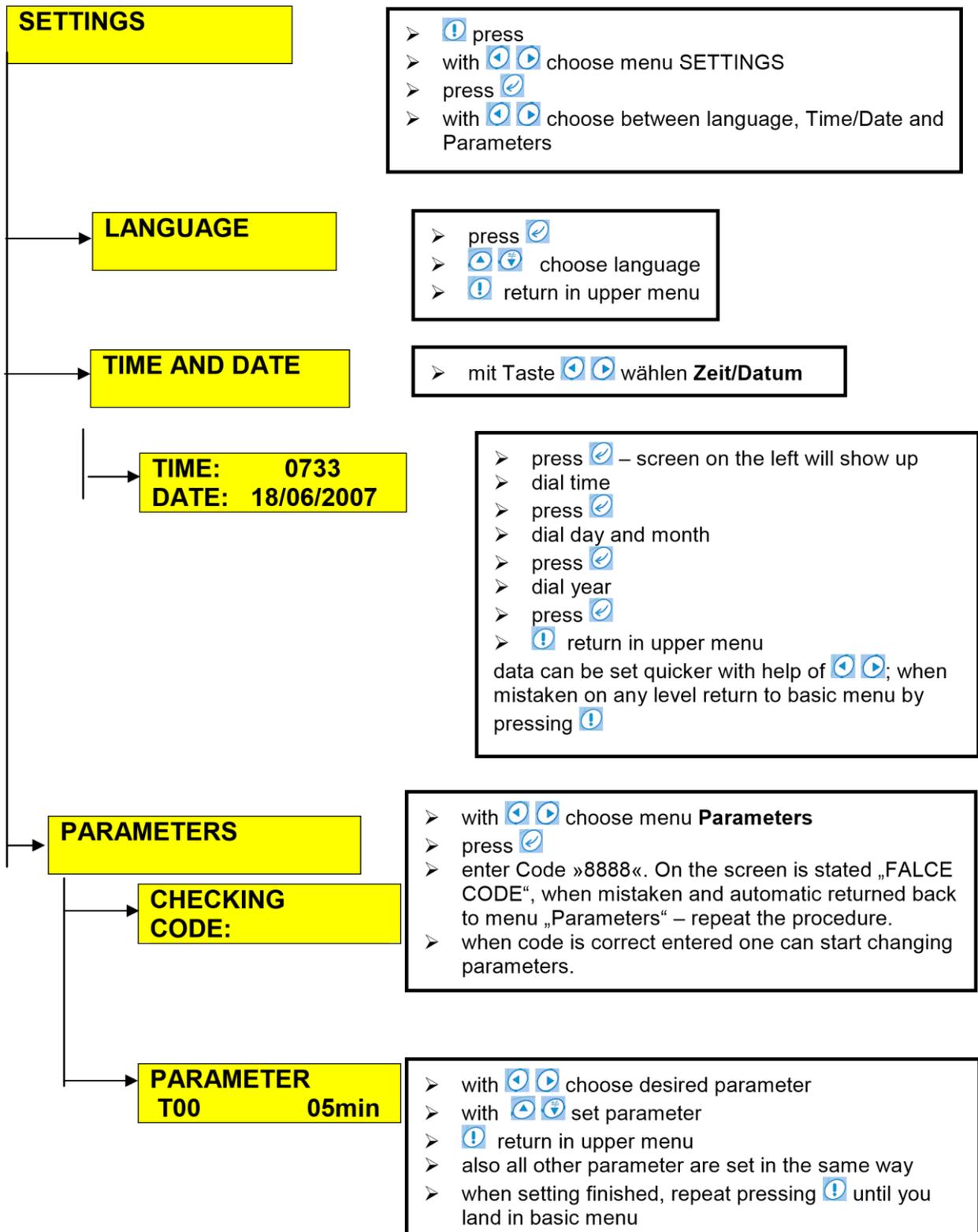
Here are all passages through the machine registered and stated.

NO. OF PASSAGES



6.2 Settings

In menu »SETTINGS« language, Time/Date and Parameters can be set.



6.2.1 Factory settings

parameter	description	time
T00	FIRST FILL-UP OF SOLE DISINFECTION BASIN	5 [min]
T01	ADDING OF DISINFECTION AGENT AFTER EACH PASSAGE	2 [s]

T02	LIGHTING OF SOAP CHAMBER	5 [s]
T03	SOAP SPRAYING	0.20 [s]
T04	SOAPING	5 [s]
T05	RINSING OF HANDS	5 [s]
T06	LIGHTING OF DISINFECTION CHAMBER	10 [s]
T07	SPRAYING OF DISINFECTION AGENT	0,18 [s]
T08	FREE PASSAGE TROUGH TURN STYLE	5 [s]
T09	BRUSH ROTATION – ENTRY	5 [s]
T10	BRUSH ROTATION – EXIT	5 [s]
T11	PASSAGE – EXIT	5 [s]
T12	FREE PASSAGE TROUGH TURN STYLE - EXIT	10 [s]
T13	LIGHTING OF DISINFECTION CHAMBER 2	10 [s]
T14	SPRAYING OF DISINFECTION AGENT 2	0,18 [s]
T15	FREE PASSAGE TROUGH TURN STYLE – ENTRY 2	5 [s]
T16	BRUSH ROTATION – ENTRY 2	5 [s]
T17	BRUSH ROTATION – EXIT 2	5 [s]
T18	FREE PASSAGE TROUGH TURN STYLE - EXIT 2	10 [s]

6.3 First fill-up of sole disinfection basin

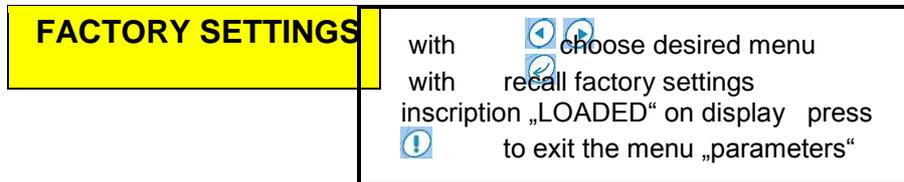
After each start-up of the machine or restart sole disinfection basin has to be filled-up by disinfection agent. On the screen a question shows up

**SOLE DISINFEC.
BASIN FILLS UP?**

if filling- up needed press
 if not
 press and return in upper
 menu

6.4 Recall of factory settings

When you confirm this menu, the factory setting is loaded and all parameters are set on the default value.



6.5 Needs of the machine written on LCD display

The necessities of the machine in order to operate normally are shown on display:

ADD SOAP

soap is missing
after refill inscription disappears

MOTOR ERROR

motor safety switch is off after release
inscription disappears

EMERGENCY STOP ON

emergency-stop button is activated (pressed)
after release inscription disappears

ADD DISINFECTION AGENT

Disinfection agent is missing
after refill inscription disappears

7 SWITCH OFF

Hygi-control is switched off or taken out of work as follows:

- Turn the main switch to OFF position
- Shut down the water supply
- Disconnect el. connection from electrical network
- empty footwear disinfection basin by pulling out the spill-over tube valve

- Remove the suction lead out of the vessel with cleaning and disinfection agent and put it into a vessel with clean water. Obligatory clean the installation with clean water several times with activating the process of cleaning.
- clean the pool and the brushes
- clean the machine as described in the chapter 8

If you wish to put the machine out of work for longer period or transport it, the deactivation must be carried out only by authorized personnel. Consider the instructions of producer of the cleaning and disinfection agents when removing the waste chemicals.

8 CLEANING AND MAINTENANCE

8.1 Cleaning

Hygi-control has to be cleaned every day! That is why the machine is designed in the way that you do not need any tools for removing the cleaning brushes.

Cleaning the machine with a high pressure cleaner is forbidden!

Do not use products that contain chlorine for cleaning of stainless steel items!

Procedure for cleaning of the machine:

- shut down all electricity by switching of the main switch
- shut down the water supply
- lift up the supporting grid placed over the rotating brushes
- remove the brushes; pull it out of the drive shaft
- put the brushes into 2% solution of cleanser and leave them in for approximately 15 minutes and then wash them with clean water
- switches, sensors, control unit clean only with soft mop without using any cleanser
- soap the whole machine except of the sensors, switches, control unit with cleanser and wash the soap off within a short time; by that take into consideration instructions of producer of the cleanser
- repeat the process of cleaning until all grease and albumen is be removed
- remove the dirt out of jets for brushes
- empty the pool
- putt the brushes back in firmly
- put down the riddle
- open the water supply
- switch on the electricity
- check if the machine is working properly

If you notice that limestone is collecting on the pouts remove it with the appropriate chemical remover for limestone.

8.2 Maintenance

Regular (after or during the machine) check if there are any damages to any parts of the machine.

Check the thickness of the brushes – brush hairs should be at least 1,5 cm higher than the supporting stainless steel bar. If not, you should change the brushes. Use only original brushes to prevent damages on brushes motor drive and components.

9 INTERRUPTIONS

When interruptions occur, shut down the machine immediately! Take action only if the cause of the problem is known. Repairs can be made only by an authorized expert.

Interruption	Possible cause	Solution
The machine does not start	CEE switch - plug is not connected to el. outlet; there is no contact the main switch is not turn in ON position the main switch in the building is switched off - FIT does not work the green light does not light the safety switch OFF is blocked Light »motor error« in the electric cabinet is ON other reasons	check the contacts switch ON the main switch switch on the main switch in the building press ON Check OFF switch check the motor safety switches inside the electric cabinet Check the safety fuse for control system inside the electric cabinet call NIEROS expert
There is no water inflow	the water valve on mains network is closed to low pressure in the water network jets are stuffed magnet valve does not work	open the inflow water valve check with water supplier; clean the jets; jets have to be turn into spraying direction call NIEROS expert
Water does not stop running in	proximity sensor on the machine is dirty magnet valve is blocked other reasons;	clean the sensor with soft mug call NIEROS expert
The brushes do not rotate	the main switch is turned off EMERGENCY switch is ON other reasons the sensor does not work	turn on the main switch release it time on the control unit is not set properly brush is not correctly positioned call NIEROS expert

<p>Bad or no inflow of the cleaning or disinfection agent</p>	<p>there is no more cleaning agent or disinfection agent left in the vessel section tube is not in the vessel jets are dirty dosed quantity is to low the pump does not work</p>	<p>fill the vessel put the suction tube into the vessel clean the jets set the dosing check the safety fuse call NIEROS expert</p>
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Water connection:	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
Water pressure:	2-6 bar	2-6 bar					
Water outlet:	DN 50	DN 50					
Dimensions (mm):	1810x970x1600	1810x970x1600	2150x970x1600	1810x970x1600	2600x970x1600	2600x1265x1600	2600x1265x1600
Weight approx.	260 kg	260 kg	300 kg	260 kg	350 kg	480 kg	450 kg

