

INSTRUCTION MANUAL

WRS

CLEANING SYSTEMS

HOLLAND



DPF 15050C  
DPF REINIGER

# General manual

## 1. Aims and scope of the user manual

The user's manual describes the machine and thus enabling the user to operate the machine better. Generally, the manual contains the following information.

- Operating Information
- Machines Description
- Set Up of the Machine
- Using the Machine
- Machine Safety Rules
- Maintenance and Repairing of the Machine.

## 2. Responsibilities

**Responsibilities of Product's Owner:** The product's owner is responsible for applying of safety rules stated in this Instruction Manual or getting them applied by delegating his authorities and risks, which may arise due to not applying. The product's owner is also responsible for the periodical maintenance of the machine.

**Responsibilities of the Manufacturers:** The manufacturer is responsible for the risks due to manufacturing and assembling faults, even though all requirements stated in this manual have been fulfilled.

## 3. General description

The filters which will be washed are placed inside of the machine that has 2 different spots for tighten the filter. One of them is for commercial cars (right side) and the other one is for trucks, buses at the left side. The washing process is done through the cleaning hose inside of the machine. The hose will be easily attached to the filter with the easy connect adapters. And washing process will be done automatically after the start command. Machine has been designed for minimum consuming the water, detergent, electric, and time (work force) with cyclic and filtering water system.

### Using areas:

- To clean DPF / FAP Filters
- To clean Catalyst Filters

### 3.1. Specifications of the Basic Use of the Machine:

The machine is made with respect to appropriate standards and safety rules. However, when the machine is operated, the life of the operator, some components, or the machine itself may be subjected to damage or danger.

- The machine must only be used for the aim it has been designed for.
- It should be used according to the instruction given in the user's manual.
- The machine should be operated by personnel who can be aware of the risks that are likely to occur.
- In case, any functional disorder happens on the machine particularly the one that might endanger the machine's safety, the machine must immediately be stopped and the problem should then be solved.

Apart from the recommended materials, if other materials are to be worked on the machine, there should be a written confirmation from the manufacturer so that the new materials can be used. If the machine is used in operations out of which it is made for, the manufacturer or its representatives will not be responsible for any damage that may occur.

Risk due to wrong use of the machine is bearing by the user. Working of the machine within the designed limits is explained in the user's guide.

# Machine parts



- 1. Pneumatic Door
- 2. Control Panel
- 3. Water Tank
- 4. Water Recycling Filters

- 5. Vehicle Filters Press Platform
- 6. Passenger Filter Hydraulic Press
- 7. Emergency Stop
- 8. Electric Panel

# Installation

## Step 1

Connect main power cables from electric panel to your garage electric supply.

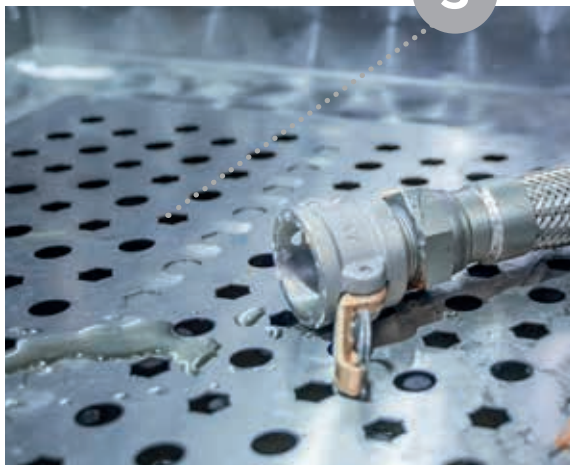
## Step 2

Connect you air supplier to machine air inlet.



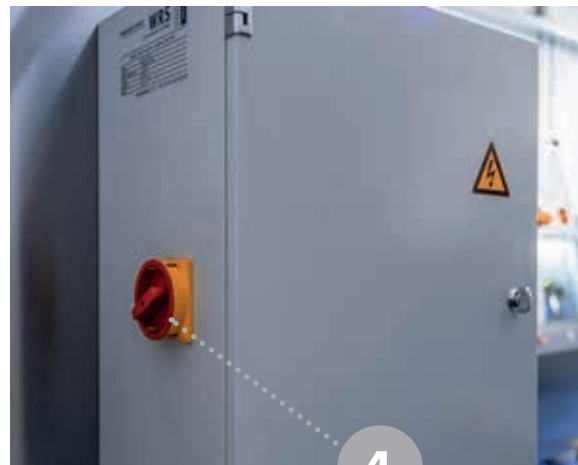
## Step 3

Fill the water tank 250 Lt.



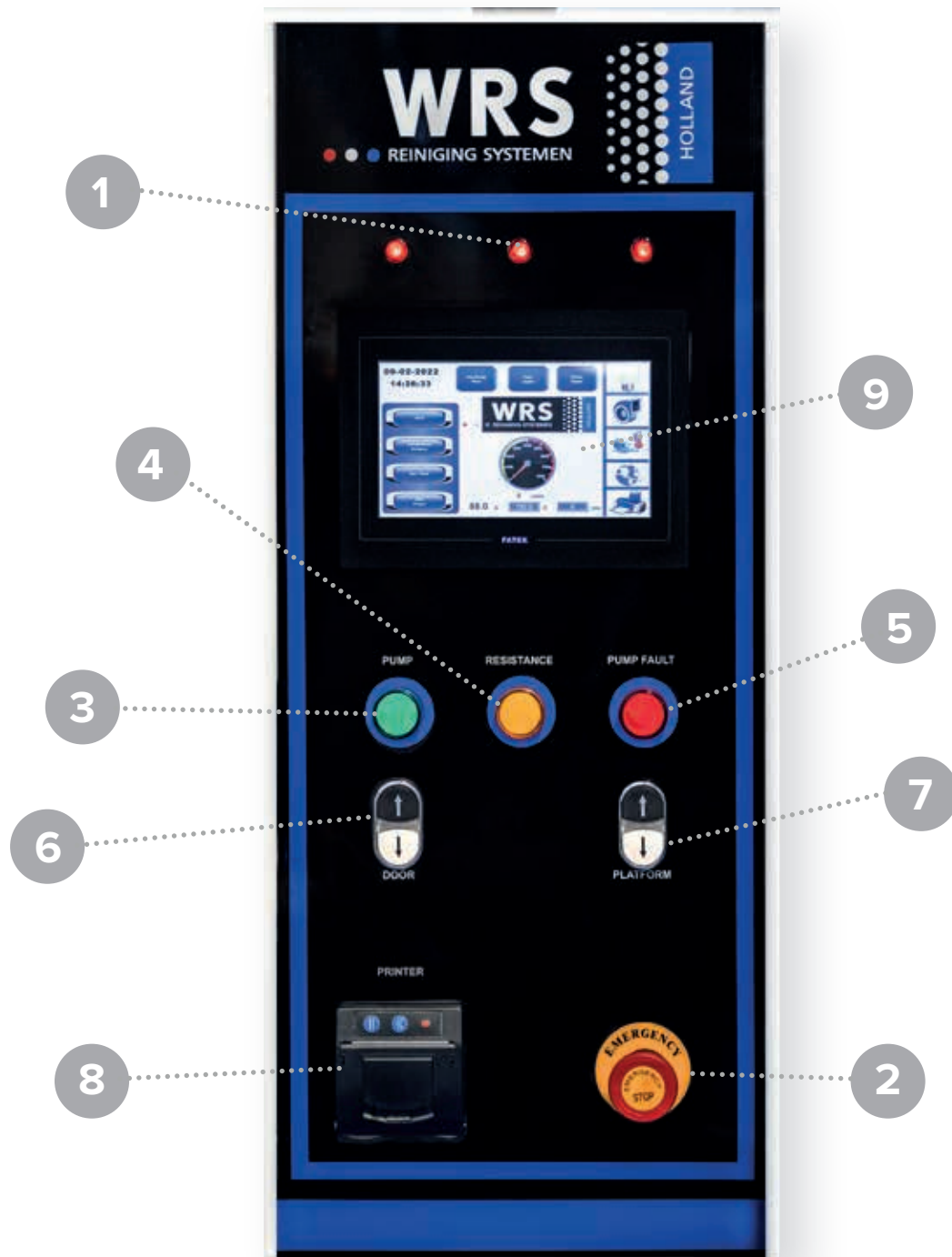
## Step 4

Turn to 1 position from 0 position the button where behind electric panel. The machine will start in 1 minutes.



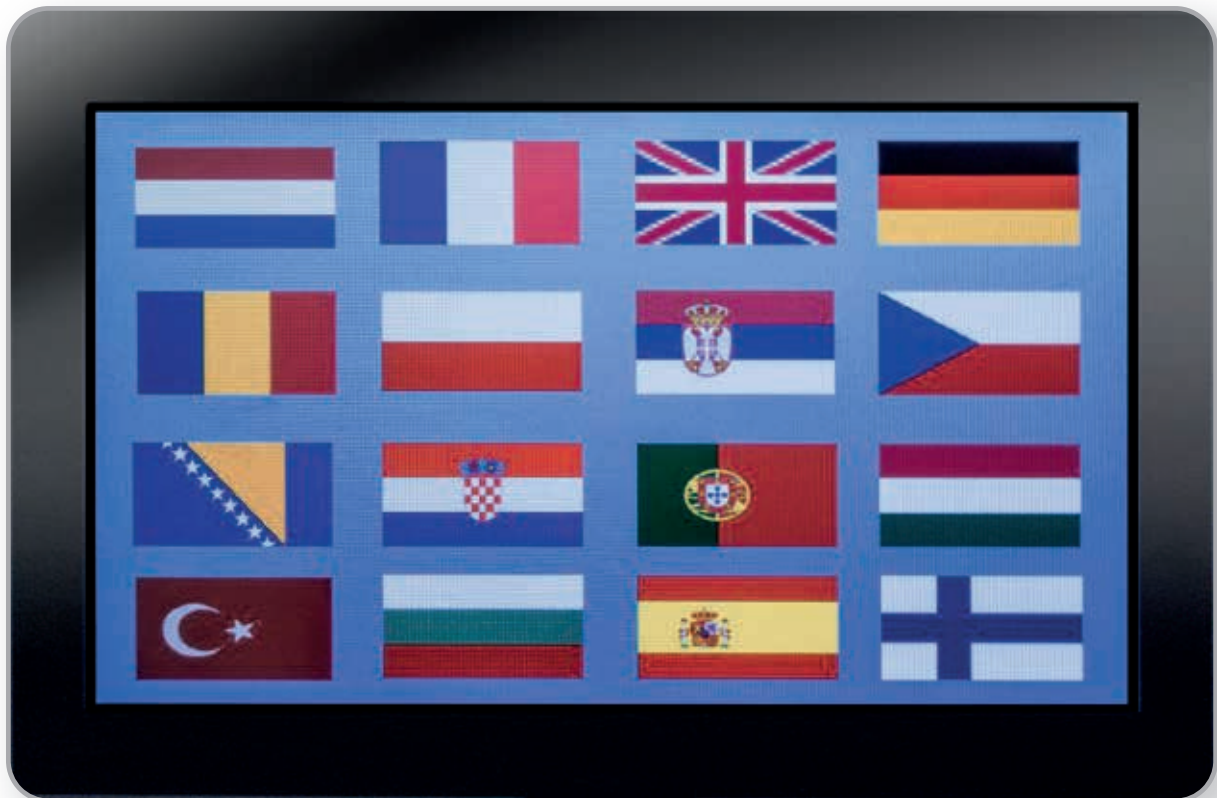
Note: If your machine couldn't get power, please change any phase cables with each other in the electric panel (main power section; L1, L2, L3)

# Using control panel



- |   |                                    |
|---|------------------------------------|
| 1. Phase Lambs showing machine working as well. | 5. Indicator light pump fault      |
| 2. Emergency stop                               | 6. Pneumatic door control joystick |
| 3. Indicator light water pump active/inactive   | 7. Platform control joystick       |
| 4. Indicator light resistance active/inactive   | 8. Printer                         |
| 5. Indicator light pump fault                   | 9. Touchscreen                     |

# Using touch screen



1. Set the language

# Using touch screen



2. Open the print settings page
3. Turn on/off cabin led lights
4. Open water temperature settings page
5. Open manual settings and manual using page
6. Turn on/off steam fan
7. Activate testing to filter
8. Set drying time
9. Set drying degree (suggested max 200 degree)
10. Activate automatic washing

11. Activate push water inside the washing pipe
12. Activate hot dryer
13. Pressure indicator
14. Test result indicator
15. Drying current degree
16. Open set language page
17. Activate printing
18. Open failure page

# Printer page [2]


Write your writing options this page.

COMPANY :

NAME :

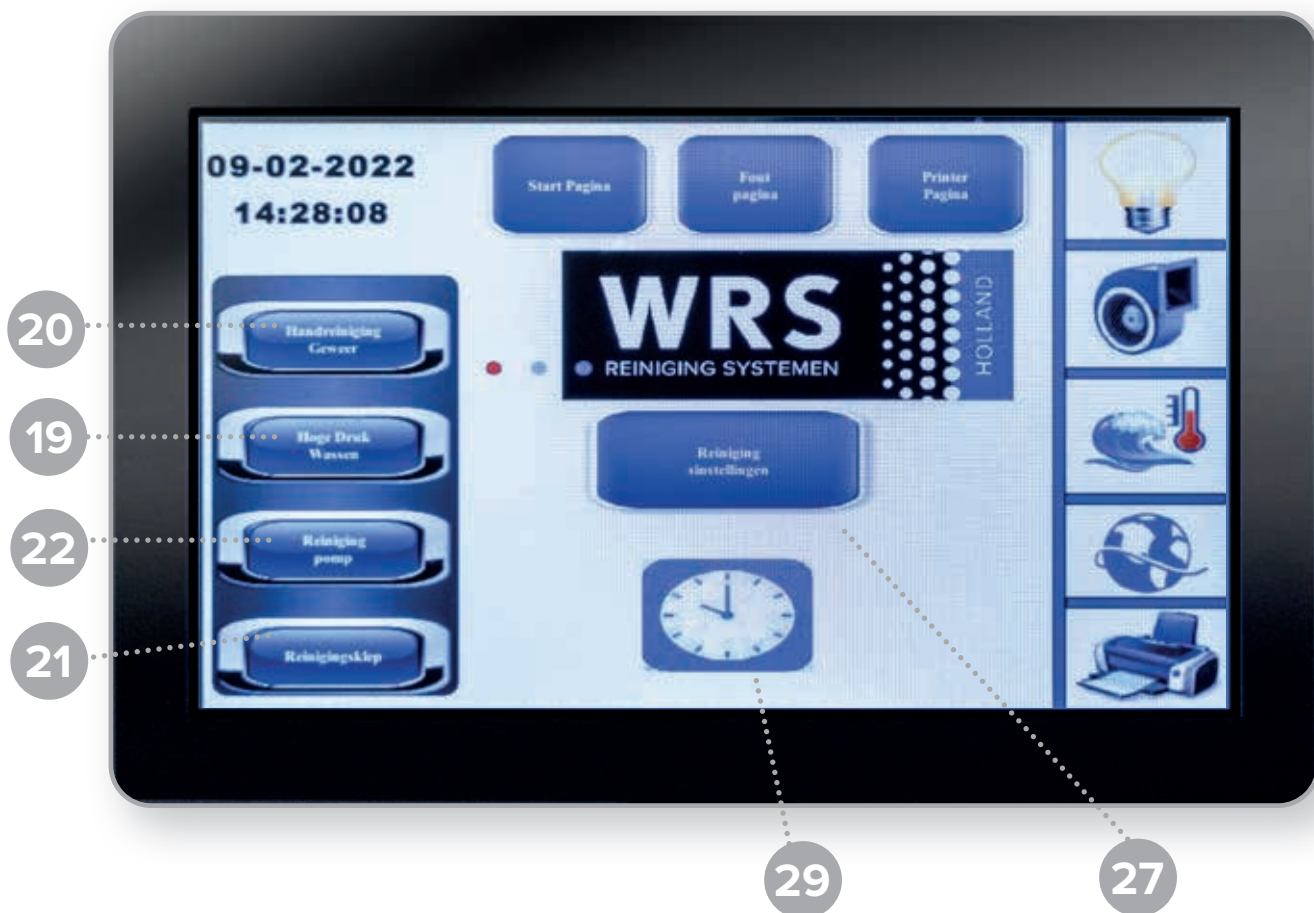
CLIENT : 0

SERIAL NR : 0



Home Page

# Manual page [5]



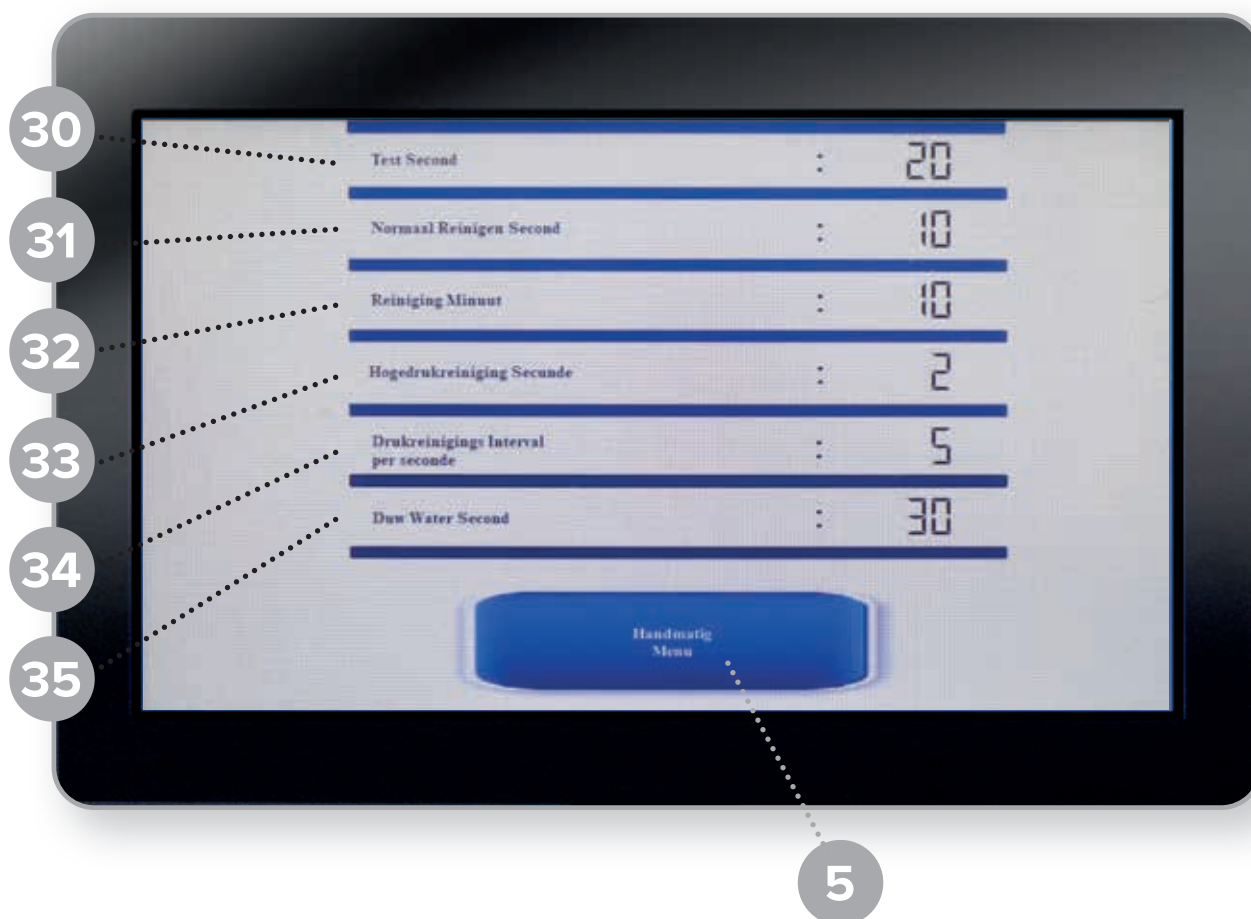
- 19. Active/inactive high pressure washing
- 20. Active/inactive hand washing gun
- 21. Active/inactive washing valve
- 22. Active/inactive washing pump
- 23. Open Automatic Cleaning Settings Page
- 27. Open Automatic Cleaning Settings Page

- 29. Open setting the clock page (**please contact with your service before set clock**)

## Note

For manual washing use sections in turn: 23, 25, 26

# cleaning settings [27]



30. Set testing second.

31. Set pre washing second **(for automatic washing)**  
**Suggested: 10 sec.**

32. Set total washing minute **(for automatic washing)**  
**Suggested for small filter: 30 min.**  
**Big filter: 60 min.**

33. Set high pressure washing second

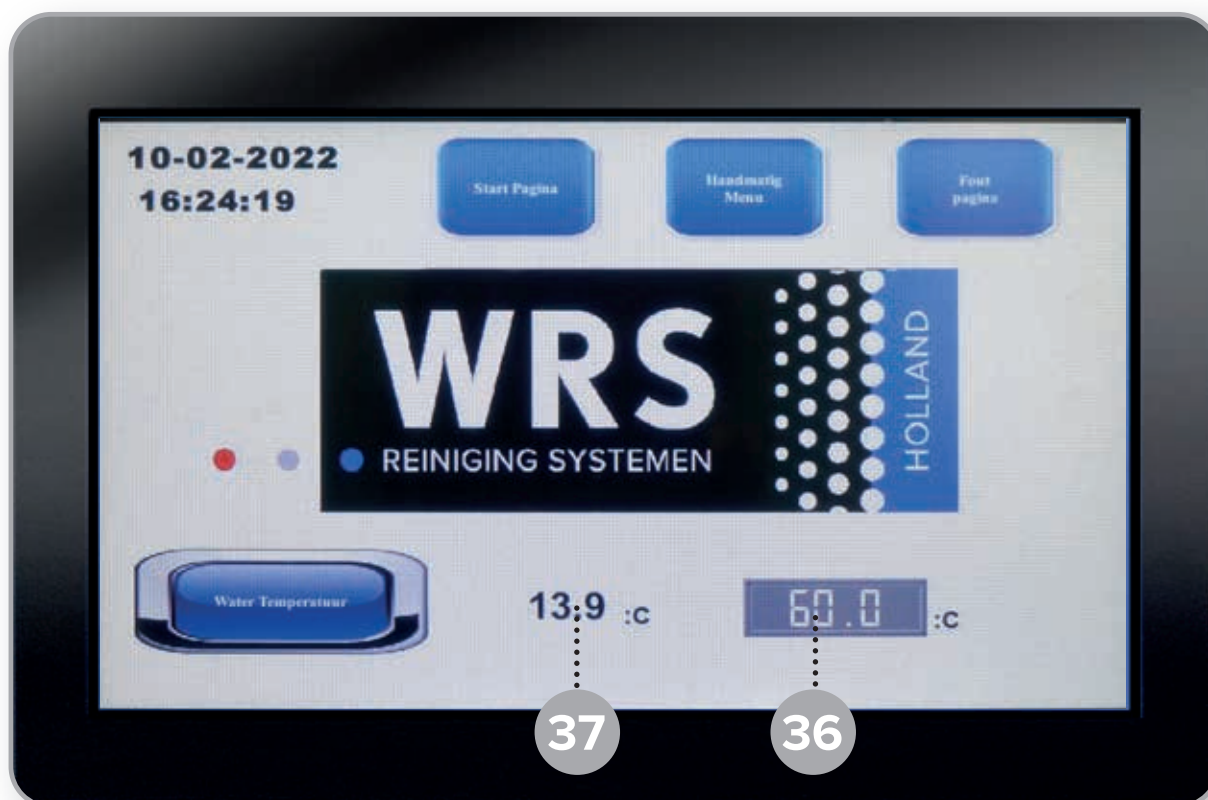
**(for automatic washing) Suggested: 10 sec.**

34. Set high pressure washing interval second  
**(for automatic washing) Suggested: 30 sec.**

Note: If you write 30 sec to section 31, high pressure runs every 30 sec.

35. Set push water second **Suggested: 30 sec.**

# Water temperature controle (5)



36. Indicator current water temperature

37. Set water temperature

## Failures (18)



38. Alarms (If there is something wrong with the components I will be shown here).

# Filters & discharge water



1. Filter dirtiness manometer
2. Bag Filter
3. Cartridge Filter
4. Discharge filters water
5. Discharge machine water tank
6. ....



## Cartridge filter (3)

De cartridge filter bevat 4 kaarsfilters. Deze dienen ongeveer na ... spoelbeurten te worden vervangen.

## Bagfilter (2)

.....?



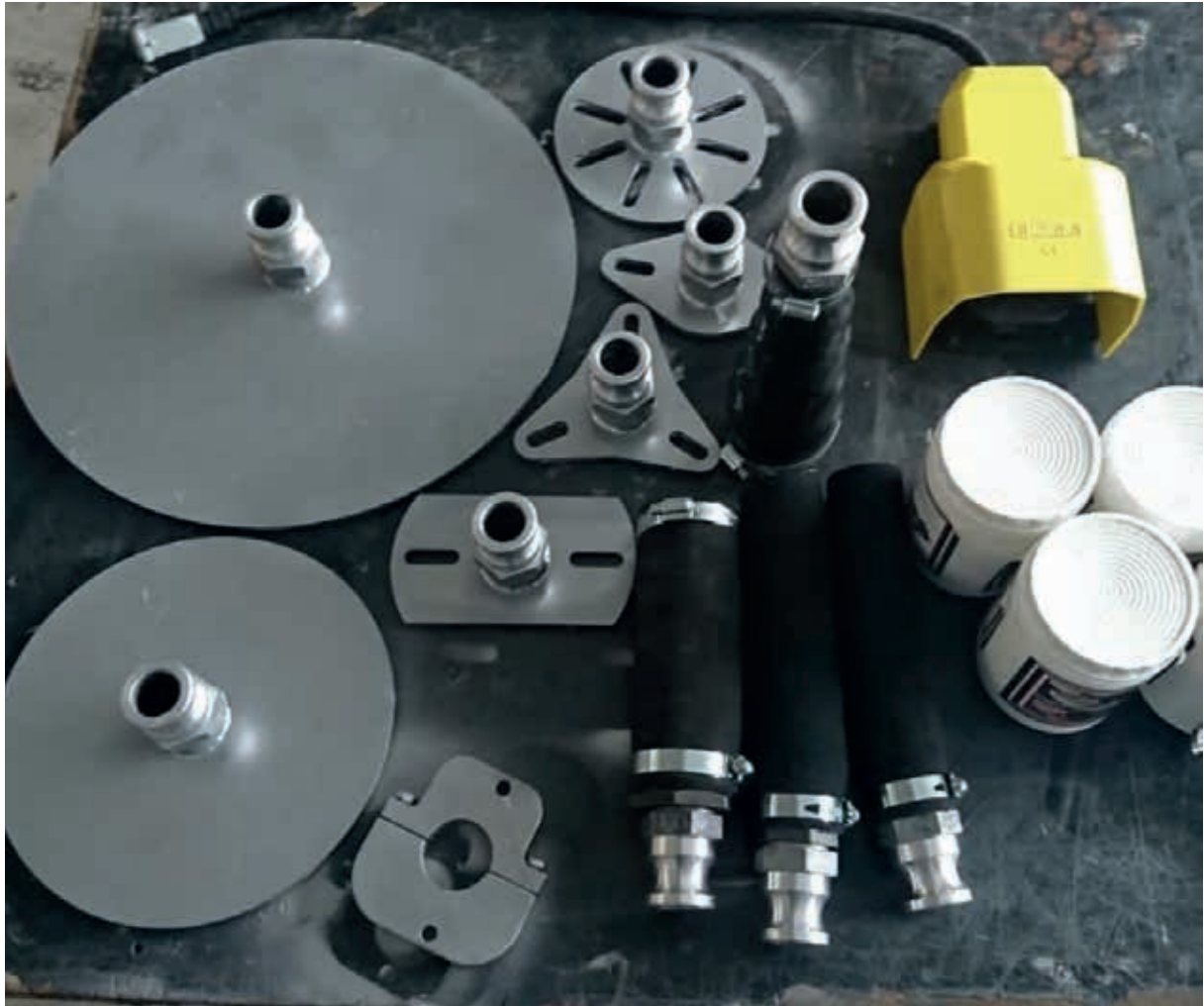
# Inside of the washing cabinet



1. Vehicle Filters Press Platform
2. Passenger Filter Hydraulic Press
3. Hand Washing Gun

4. Drying Pipe
5. Washing & Test Pipe

# Locking apparatus



# Safety & precautions

## General Descriptions

The machines produced by WRS Holland, bear special importance on safety. They are made in such a way that an operator is provided with suitable working environment. Hazards that might occur during operation and the way to prevent them are explained; and on top of this prevention against diseases that may occur as a result of working conditions are also explained.

## Personnel's Quality, Selection, and Basic Responsibilities

The person to operate the machine must be at the age accepted by the legislations. Taking care of the safety orders, the operator's responsibilities should be defined. Only educated and skilled persons should be allowed to operate the machines, and their personal responsibilities should be frankly explained. It should be confirmed that a person operating the machine is the authorized one. Apart from the operator, other persons must not interfere with the operation. A person with general and normal education must not be allowed to operate the machine. The operator must have been educated by an experienced foreman / worker. The machine's electric system and works to be done on electrical with authorized electrician or by a person educated by an experienced electrician and he must do the work according to respective rules and orders. To create safety working environment an operator must have been educated about the machine and first aid. The workers must, however, read and understand the user's guide. The following technic members should be found at the place where the machine is operated. From these technic members, machine and electric technician do not have to be at the place always.

## General Safety Rules

When using the machine, the user guide must be placed at a place where it can easily be reached. The user's guide must be read by anyone who uses / operates the machine. In general, operation includes solving problems that occur at the work place,

drainage of deposits, getting rid of used oil from the work area etc. In addition, the user's guide contains rules / information about obligatory rules / principles, accidents prevention; environmental protection rules, area where the machine can be used, systematic operation and machine's life. The operator must not climb on the machine when the latter is on, neither should be walk around the machine. The operator, when working, should be on the platform placed particularly for the purpose; and he should make sure that oil, water etc. do not drop on the platform. Machine should be stopped and electric connections be disconnected when a routine maintenance is done. Before starting any electrical repairing, emergency button should be pressed and all electrical connections should be unplugged. When the machine is in operation no component should be changed. When the machine is in operation, no foreign materials (keys, screwdrivers etc.) should be inserted into covered parts of the machine.

No liquid (water, oil etc.) should be allowed to drop onto the electric – electronic sections. Working environment should always be clean and dry. There must be civil defence equipment (fire extinguisher, first aid box etc.) at the working area.

When working the operators must use general work safety equipment (glass, gloves etc.). A worker to do repairing and service / maintenance works should observe safety precautions carefully as he is doing dangerous activities.

A maintenance operator dealing basically with spare parts, he can easily be subjected to compacts and thus his hands / fingers can be cut; for this purpose, he must wear gloves. A working overall must be designed in such a way that it will not be trapped into moving parts, in addition long hair of the operator should be cut short or be covered. During operation, no foreigner should be allowed to get at the vicinity of the machine and hinder the operation.

When working a work piece, undamaged, sharp edged pen (tool) should be used. Apart from the work piece, no foreign materials (key etc.) should be

found on the horizontal table. Components left on the table may jump off, during operation, and thus causing serious damages. When grease oil and other chemical substances are handled, safety rules should be adhered to.

When handling hot components be care of their scalding and burning effects. In case of malfunction and breakdown, refer to maintenance and repair, as explained in the manual.



## Electrical connection

- Connect the cable of main installation.
- The cable used must be in the property of insulated H07RN-F and at least 5x6 mm<sup>2</sup>.
- 30 mA of residual current relay must be used in the installation.
- During any leakage of electrical current, residual current relay will switch off electrical energy, putting into action.
- Electric installation must be grounded so that residual current relay is in safe.
- Electric connections must not be done by wet hands.
- Power distribution board is protected against water contact. However, it must not be contacted with pressurized water.
- Cover of power distribution board must be continuously kept close.
- The key for opening the cover of power distribution board must be kept in a safe place.

Check the conformity of the electrical installation, which the machine will be connected to. Electrical connection of the machine must be made surely to the installation with the feature like this: grounded, 3 phases, AC 380-400 AC V 50 Hz There must exist maximum 60A of fuse on the installation

## Operating

- Make the electrical connection of air, and electricity.
- Fill the machine with water. When the storage tank is filled up, mix the detergent.
- Switch on the main switch.
- Set the temperature indicator to 80-90 °C.
- Switch on the switches of resistance.

- Connect the filter to washing hose and place it to proper locking stand.
- Connect with the proper adapter.
- Start "TEST" to see it the dirtiness level of the filter.
- According to dirtiness set the desired washing time.
- Close the door of the machine.
- Press the "Automatic Washing" button.

## After washing

- Activate Push water.
- Disconnect to filter from washing pipe.
- Connect filter to drying pipe.
- Press "HOT DRYING" button.
- Turn on the Steam Fan.
- Wait at least 5 minutes for removal the steam.
- Open the door.

## After drying

- Disconnect filter from drying pipe.
- Connect filter to washing and test pipe.
- Press "TEST" button. (If the filter is not cleaned, connect it from the other side and start over).
- Disconnect the filter and dispatch the filter from locking stand.
- Wash the outside of the filter if needed with hand washing gun Switch off the main switch, when it will not be used long time.

## Carrying and assembling the machine

- During carrying the machine, take necessary precautions against the risks of falling down and being turned upside down. Use the suitable lifting tools.
- Place the machine on a flat and solid surface.
- Do not place the machine near the burnable and explosive materials and do not keep the burnable and explosive material near the machine, while it is working.
- Let a fire extinguisher be near the machine absolutely and check whether or not periodical checks of the machine are done.
- Take necessary safety precautions, while using the machine.
- Operation of assembling the machine must be carried out by authorized and competent people.

- Use minimum 20 mm 8 x 19 Seale Rope for lifting the machine. Install the rope in such a way that machine will remain in hanged position, balancing the rope from both sides of the machine.
- Make the lifting operation by using the crane with the suitable capacity. Do not stand under the machine against the risk of falling of the machine, while carrying the machine.

## Maintenance

- Make periodical maintenance, for the machine to run correctly and long lived.
- Before maintenance, the electrical connection of the machine must be switched off.

## Periodical maintenance

### Daily

- After every washing operation, clean inside of the machine with washing gun.

### Monthly

- Clean inner tank filters and bag filter.
- Empty the water.
- Clean the tank.
- Follow filter cleaning and changing manual.

## Water emptying

- Switch off the electrical connection of the machine.
- Be sure that the machine is cold.
- By opening the water discharge valve, discharge the water.

## Possible failures and solutions

### Water leakage from mechanical seal

Possible causes:

1. Water filters must be cleaned.
2. Monthly maintenance must be carried out.

### Machine does not make sufficient cleaning

Possible Causes:

1. The amount of detergent is insufficient.
2. Temperature is low.
3. Timing set is short.
4. Cleaning water is too dirty.

### Water is not heated up.

Possible causes:

1. There is an accident with resistance.
2. There is an accident with thermocouple.
3. Resistance switch is off.

### Some functions are not operating

Possible Causes:

- Check the fuses on distribution switchboard.
- Contact with the manufacturer.

## Consecrating the product

Please, keep close the door when you don't use the machine.

## Lifetime of product

The lifetime of product to run in safe is 10 years.

**Our mission is a  
clean emission**



Wit u meer informatie of  
een afspraak? Neem dan  
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