USER MANUAL

(Original instruction)

DPF MASTER FLASH PROFESSIONAL PLUS

Device for the regeneration of DPF / FAP / GPF particulate filters and SCR catalysts.

Model: DPF 300

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1. Contents

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2. General information

The operating manual provides technical information about the filter cleaning device DPF/FAP/GPF and catalysts. In addition, this manual provides general guidance on the filter cleaning and regeneration process.

The manual describes how to set up, operate and basic procedures related to servicing the device. Each user should have access to the operating instructions in a legible form. When changing the location of the device, the instruction manual must be attached to the device, as it is an integral part of it.

The operating instructions contain important information on the safe and proper operation of the device. Following the instructions in the operating manual helps to prevent hazards, reduces repair and downtime costs, and increases the reliability and service life of the equipment.

Each person operating (hereinafter referred to as the operator) or assisting during the operation of the device is obliged to read the operating manual and observe the safety requirements. The device may be commissioned, operated and serviced only after reading this manual, and after detailed training in the field of safety. The operator of the device is obliged to provide the user with the instruction manual and to make sure that it is learned in an appropriate manner.

The operator and any other person performing activities using the device undertakes to follow the instructions provided in this document and the rules resulting from the law and health and safety regulations.

These instructions do not exempt from the application and compliance with the general regulations concerning accident prevention and environmental protection.

3. Description of safety symbols used in the manual

Safety instructions are identified by a warning sign and signal word. The signal word (DANGER, WARNING, CAUTION) describes the weight of the impending danger and has the following meaning:

DANGER

Indicates an immediate danger with a high risk of death or serious personal injury (loss of body parts or long term damage), if not avoided.

Failure to follow this advice may result in death or serious injury.

WARNING

Indicates a possible hazard with a moderate risk of death or (serious) injury if not avoided.

Failure to follow this advice may result in death or injury.

CAUTION

Indicates a low-risk hazard which can cause minor to moderate injury or material damage if not avoided.

Failure to follow this instruction may result in bodily injury.

Important information, tips, recommendations and notes are marked with an information sign and signal word, the meaning of which is shown below:

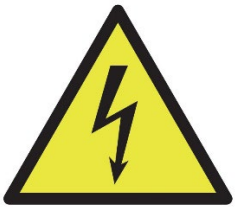
IMPORTANT

Indicates information and tips important for keeping the machine in good technical condition or facilitating its proper use, optimization of operation or storage.

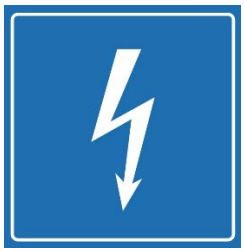
Failure to follow these instructions will prevent full use of the machine or may lead to process disruptions, damage to the machine or the environment.

4. Safety symbols used

Hot surface warning



Warning of the risk of electric shock



Main switch

Use protective glasses

Use protective gloves

Use hearing protection

5. Preparation of the pneumatic installation

The air supply process is of great importance for the correct functioning of the device. By adhering to the following recommendations, its best performance will be maintained:

The pneumatic system connection must meet the following conditions:
- Air pressure 6-8 bar (90-100 psi)
- Effective capacity of the compressor at 7 bar: 20 m^3/h (333 l/min)
- Minimum air tank capacity: 100 l
- Minimum internal cross-section of the pneumatic conduit: 12 mm
- The cable ends with a pneumatic quick coupler socket: DN 7,2 mm

CAUTION

Compressed air supplied to the machine from the plant's central installation must be clean, free from solids and moisture. Any contamination and water may damage the valves and pneumatic conduits. Between the air tank and the machine air connection, the user should install a compressed air preparation unit equipped with a separator and a particulate filter with an insert 5µm.

CAUTION

Before connecting compressed air to the device, make sure that all pneumatic elements in the device are put in a safe position.

IMPORTANT

For optimal compressor operation, it is recommended to use an air reservoir of more than 100 liters. The larger air reservoir reduces the compressor frequency.

6. Preparation of the electrical installation

DANGER

There is a risk of death from electric shock if the electrical connection is not made properly!

Remember that improperly made electrical connection may make the operation of the device dangerous and cause personal injury and material damage.

Remember that the electrical connection may only be performed by installers with appropriate education and persons qualified to perform these works.

The technical connection conditions for connecting to the low-voltage grid of the power company must be complied with.

Confirm the necessary connection parameters on the basis of the nameplate, which should correspond to the values shown 3~/400V, power 12kW.

On the basis of the read parameters, the appropriate cross-sections of the cables should be selected (however, not less than 2,5 mm^2, recommended type of installation TN-S).

Prepare and make sure that the laying of the power cables is not dangerous and has been made in accordance with the applicable standards.

The device must be connected via a 40A 0.03A three-phase residual current circuit breaker, which should be installed by a qualified person.

7. Warranty

The general warranty period for this device is 12 months.

Wearing out parts are not covered by the warranty. The terms of the supplier's warranty apply to accessories purchased by the manufacturer.

Warranty and liability for personal injury and material damage are excluded if their causes arise from the following situations:

a) Using the device contrary to its intended use.

b) Incorrect operation and servicing of the device.

c) Operation of the device with improperly installed or inoperative safety devices.

d) Operation of the device with damaged or partially non-functional parts or subassemblies.

e) Non-compliance with the operating instructions to the full extent.

f) Unauthorized modification of the structure or change of the rated parameters.

g) Improper performance of repairs.

h) Force majeure.

Interference with the device and its systems, as well as any modifications not agreed with the manufacturer of the device, in particular on electrical, mechanical and hydraulic components, may result in loss of warranty, revocation of the declaration of conformity and loss of rights to the symbol CE.

8. Safety Tips

8.1 General Guidelines

Please read the operating instructions carefully before putting the device into operation! It is necessary to read the operating instructions even if the operator already has experience working on similar devices. During the operation of the device, regardless of the information contained in this manual, the current health and safety regulations apply. For components and components purchased by the manufacturer, you must follow the safety instructions for the components concerned.
Before starting work, the device must always be checked for the presence of safety devices and their correct operation. Do not disassemble or disable safety devices. Defects or errors posing a safety risk must be removed immediately. Only employees who are assigned tasks by the person responsible for the system and trained and familiar with the method of operating the device may be engaged to work on the device. Responsibilities should be clearly defined.
Never leave the machine running unattended and switch the machine off when you need to leave the work site.

8.2 Safety instructions before taking the device into operation

Before using the device, connect the device to the pneumatic and electrical systems and perform the following safety checks:

a) Door inspection
To do this, open the door. At this point, it cannot be possible to turn on the device in auto mode.

b) **Checking the emergency stop system**
Depress the emergency stop switch. After pressing, the device should signal the alarm and it should not be possible to turn it on.

c) Inspection of pressure hoses and their fittings.
To do this, check all fastenings (bands) of pressure hoses, starting from the pump, through the filtering system, to the chamber, and possibly tighten the screws securing the band.

d) **Checking ball valves**

Check that the drain valve (at the back of the device), the drain valve for water from the filter, and the system vent valve (next to the liquid pressure gauge) are closed, i.e. the valve handle is perpendicular to the valve.

e) Checking the phase sequence sensor
Open the electrical cabinet and verify that the phase sequence sensor (CKF-316) is green.

CAUTION

The safe use of the machine depends on the observance of the recommendations contained in the manual.

8.3 Safety instructions for operating the device

For safety reasons, you should, in particular, follow the instructions contained in it in the following paragraphs:

a) The device must not be used to clean filters containing air / dust mixtures and hybrid mixtures.

b) When using dust-air mixtures, the device must be designed with explosion protection. The relevant regulations must be observed in this regard.

c) In order to keep the risk generated by humans and the device to the minimum possible level, it is forbidden to use any kind of open fire sources or smoking in the washing chamber and near the device.

d) It is also forbidden to eat in the vicinity of the device.

e) The person operating the device must wear protective gloves and goggles.

f) During the automatic regeneration process an operator must be present within 5 m, e.g. to ensure an acceptable response time in the event of an emergency.

g) The regeneration process must be stopped before opening the door.

To increase the level of safety, the following elements of the device should be regularly checked at least once a week, but not less frequently than once a month:

a) **Door inspection**
To do this, open the door. At this point, it cannot be possible to turn on the device in auto mode.

b) **Checking the emergency stop system**
- Switch the device on using the main switch. Then depress the emergency stop switch. After pressing, the device should signal the alarm and it should not be possible to turn it on.
- Start the device in automatic mode. Then depress the emergency stop switch. After pressing, the device should stop the process and signal an alarm.

c) Inspection of pressure hoses and their fittings.
To do this, check all fastenings (bands) of pressure hoses, starting from the pump, through the filtering system, to the chamber and, if necessary, tighten the screws securing the band.

WARNING

Before each start-up of the machine, check that all protective and safety systems are not damaged and work properly.

WARNING

Protective devices must not be bridged, dismantled or rendered inoperable in any other way. Disassembly may be performed only by authorized and trained persons, after first stopping the machine and securing it against being switched on again (e.g. by locking the main switch).

8.4 Safety instructions for service and repair work

Before starting service and repair work, isolate the device from power sources. Electricity is disconnected by removing the power supply plug from the socket. Work on live systems and devices may only be performed by qualified technical personnel and in accordance with applicable regulations.

CAUTION

As part of the work related to cleaning the device, use a protective mask and gloves (masks protecting against fine dust, filter class: FFP 3 according to PN-EN 149 + A1: 2010).

8.5 Threats and Security

The main factor generating threats, apart from general and mechanical components of the device (pneumatic filter mounting system - optional, filter chamber / filter housing) is the filter regeneration process itself. In order to reduce the risk, the device has been fitted with a monitored security door. Moreover, in order to reduce or completely eliminate the risk, the following areas of its occurrence are defined:

1. Water installation:

   Possible leakage of the liquid used in the regeneration process (possible leakage related to: operation of the device – sealing of pipes and active elements, uncontrolled and unauthorized opening of the chamber – leakage from the door during the process) – the manufacturer recommends a quarterly service inspection of the water system and installation of the platform to minimize the risk drip.

2. Drying system:

   Possibility of high temperature in the rear part of the device (external pipes of the drying system). The manufacturer recommends positioning the device in a way that prevents free access to the back of the device.

In order to enable the safe shutdown of the device in an emergency, emergency stop switches are installed in the service area.

8.6 Procedure after actuating the Emergency Disconnect

If the emergency switch is actuated due to a device failure, it is necessary to:

1. Locate the cause - where the problem / malfunction occurred.
2. Repair the defect immediately, unless it requires service intervention, the manufacturer's service should be notified.
3. After correcting the problem / malfunction, test the steps carefully.
4. Unlock the Emergency Disconnect.
5. Start working with the device with particular care after the repair. Do not move away from the device and check the effect of the corrective actions all the time.

9. Location and assembly of the device

The device has mounted swivel wheels, including two front wheels with a brake. It is possible to transport the device using a pallet or forklift truck, but only if the pallet is placed under the device between the wheels and the pallet is attached to the device in such a way as to prevent accidental movement when moving the device with a forklift or pallet truck. As part of this work, make sure that the forks are properly inserted under the pallet temporarily attached to the floor of the device.

CAUTION

Before starting assembly and installation work on the machine, read this manual and all appendices.

CAUTION

There is a risk of the machine overturning when moving and transporting the machine.

The installation site for the device must be stable, level and dry. The ambient temperature must agree with the temperature specified in the technical data section.

The device must be connected to:

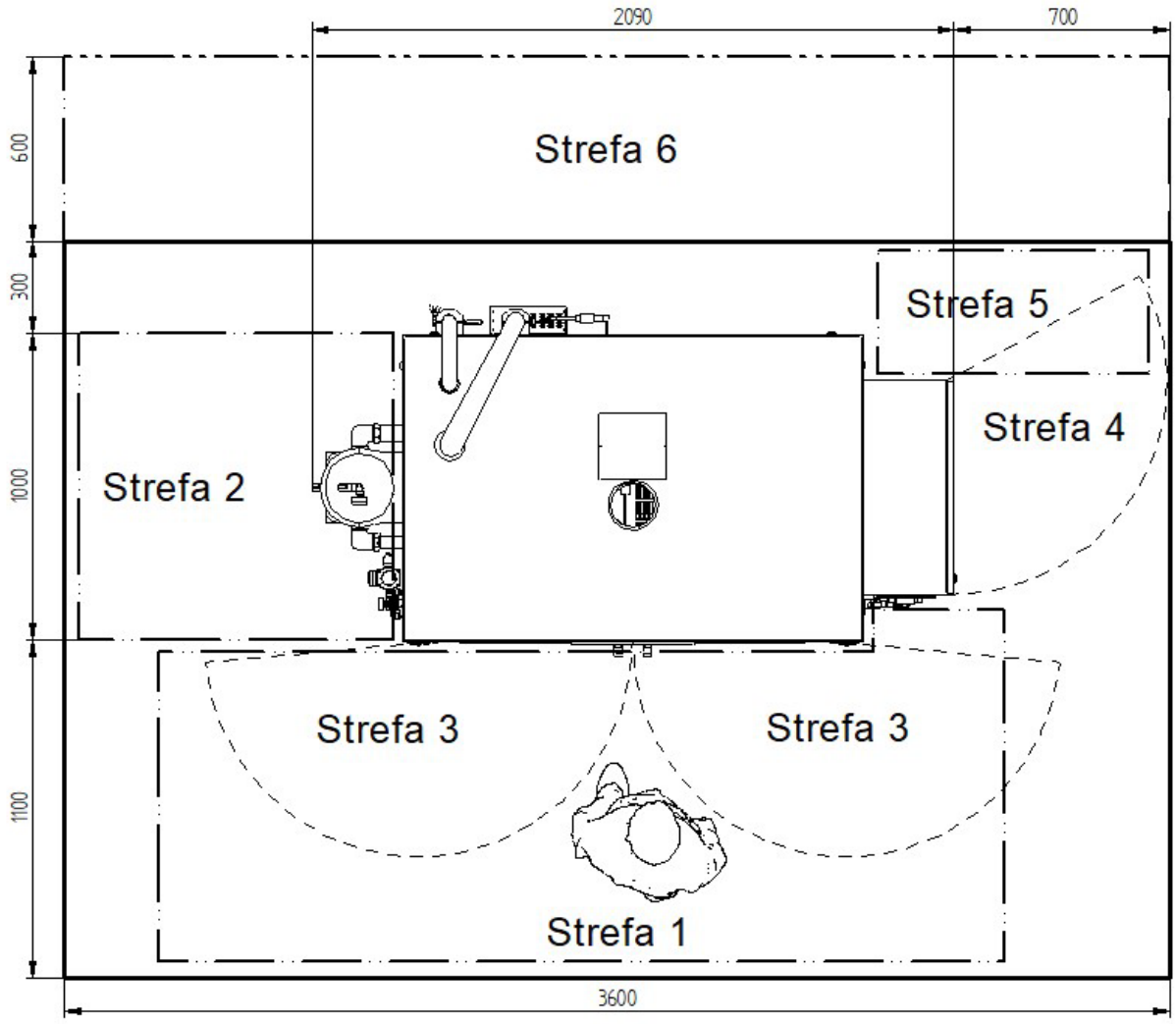
- factory electrical network - via a CEE industrial plug with a voltage above 400 Volt,
- water supply - through a hose to the water valve,
- compressed air installation - by means of a pipe with a minimum diameter 12mm 1/2".

DANGER

It is forbidden to use the device in potentially explosive areas. Appropriate measures and measures must be taken to ensure that the materials used in the vicinity of the machine do not constitute an explosion hazard.

10. Work position

The machine can be operated by one operator, whose workplace should provide an overview of the working area of the entire machine and allow access to all its mechanisms that require service during normal operation. The workplace must be well lit by natural or artificial light so that there is good visibility. The operator should be as close as possible to the emergency stop switch on the electrical cabinet. This will enable a quick reaction in the event of a failure or life-threatening or health-threatening situation.



Picture 1. Top view of the workplace

Zoning:

1. Work area (basic device operation)
2. Area for changing filter cartridges and servicing power connections
3. Area of opening the appliance chamber door
4. Electric cabinet door opening area
5. Operation area of the liquid drain valve
6. The zone of additional service

11. Application of the device as intended

The device can clean almost all DPF / FAP / GPF particle filters and SCR catalysts. It is recommended to use a cleaning agent dedicated to the machine – XTON DPF CLEANER EXTRA POWER. The agent is available from the manufacturer of the device.

Intended use also includes:

- compliance with all guidelines included in this manual,
- timely and correct carrying out of inspections, repairs and maintenance works by authorized persons,
- complying with the prohibition of making any modifications to the machine, guards and protective devices resulting in deterioration of safety,
- performance of works improving the safety of service.

12. Application of the device contrary to its intended use

For safety reasons, the following points should be observed:

1. It is not allowed to use the device to clean filters containing dust-air mixtures and hybrid mixtures.
2. It is not allowed to use cleaning agents based on solvents such as isopropanol, gasoline, nitro solvent, etc. in the device.
3. It is not allowed to start the device with improperly installed or inoperative safety devices.
4. It is not allowed to start the device with damaged or not working guards, parts or subassemblies.
5. It is not allowed to arbitrarily modify the device, its construction or change its rated parameters.
6. Do not exceed the permissible operating parameters of the machine.
7. It is not recommended to use consumables other than those recommended by the manufacturer.
8. Use the applicable personal protection measures.
9. The operating instructions must be followed fully.
10. It is forbidden to operate the device by persons under the influence of alcohol or drugs or psychoactive substances.

13. Residual risk

U The device has been designed and manufactured in accordance with the applicable regulations and the best technical knowledge. Despite the use of appropriate construction, the best materials and protection measures aimed at eliminating the danger, some risk elements during machine operation are unavoidable.

Residual risk results primarily from improper operation of the device by the operator or service personnel, both in terms of the operation itself, as well as repairs, maintenance and inspections, and may arise during the performance of prohibited activities listed in section 11.

WARNING

It should be remembered that in the machine and in its immediate vicinity there are residual mechanical, electrical, hydraulic and pneumatic energy and that there are hazards from other sources.

In order to eliminate or reduce to a minimum the above-mentioned hazards / residual risk, the following rules must be observed:

1) the machine must have a user manual, and this manual must be available for the operator and service,
2) read the instructions carefully, follow the rules contained therein, strictly follow the orders, instructions, warnings and prohibitions, which will help prevent accidents,
3) the machine, its safety devices, fittings, tools and instruments used must be efficient and work properly,
4) only people who have acquired the appropriate knowledge and experience in the field of: safe operation, fault recognition and irregularities in the machine operation may be allowed to operate,
5) maintenance, repairs and inspections may be performed by persons familiar with the operating manual, trained and having appropriate qualifications,
6) perform inspections, maintenance and repairs in a timely manner only with disconnected electric, hydraulic and pneumatic power supply and making sure that all moving parts of the machine are stationary, which will reduce the risk of impact, crushing and electric shock,
7) use the required personal protective equipment, also during repairs,
8) secure the machine / workstation against access by unauthorized people.

Compliance with the recommendations presented in this manual will allow for the significant elimination of residual risks and the use of the device without posing any risk to people, the machine and the environment.

Defined residual risk hazards, while adhering to the above-mentioned principles, estimated as negligible - unlikely. The residual risk remaining after the application of security measures against hazards, the implementation of all safety functions and compliance with the above rules has an acceptable level of security.

However, all the above recommendations do not exhaust the possibilities of using other methods to avoid hazards and do not release the user from taking additional steps aimed at further increasing the safety of the device operation.

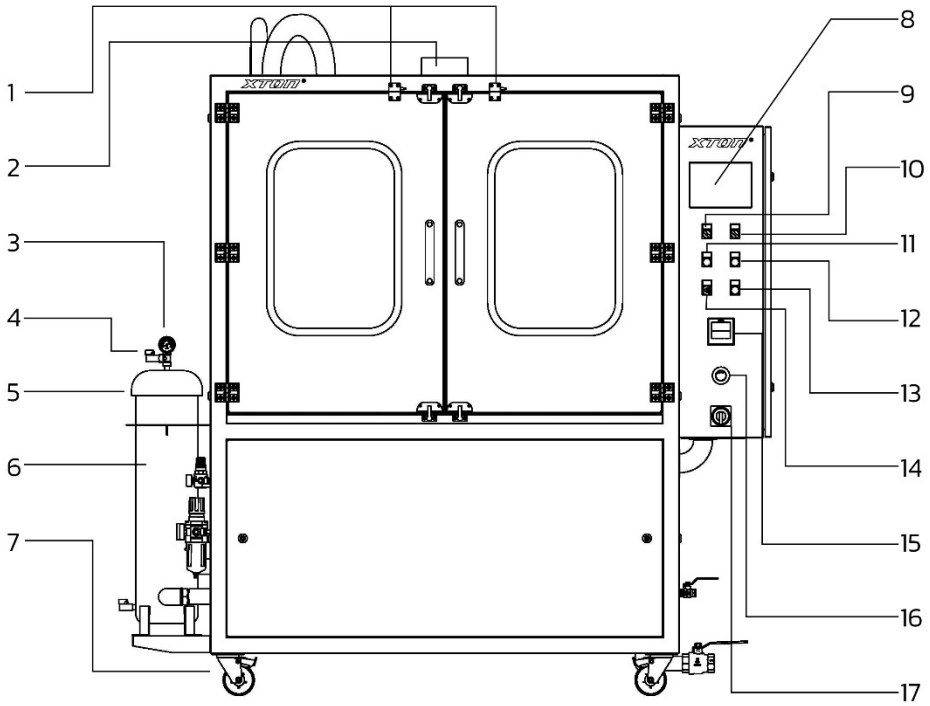
14. Device description

14.1 Technical data

Weight	650 kg
External dimensions (length x width x height)	206 x 120 x 210 (cm)
Internal dimensions of the chamber (length x width x height)	141 x 89 x 109 (cm)
Tank capacity	277 litres

Working pressure	6 – 8 bar (90 – 100 psi)
Tension	3 x 400 V
Maximum power	12 kW
Frequency	50 Hz
Initial protection	C 20 A
Water connection (inlet)	1/2"
Water connection (drain)	6/4"
Air connection	Quick coupler plug NW 7,2
Ambient temperature	5 – 35° C
Noise level during operation	<70 dB
Liquid temperature	down 50°C
Drying temperature	down 120°C
Pressure hoses diameter	6/4"
Pump capacity	down 250 l/min
Liquid filtration	4– gradual, 5 – 300 microns
Air flow	down 430 m³/h
Hypertension	down 370 mbar
Security	temperature sensor, pressure sensors, door opening sensor, emergency safety switch, liquid flow sensor.

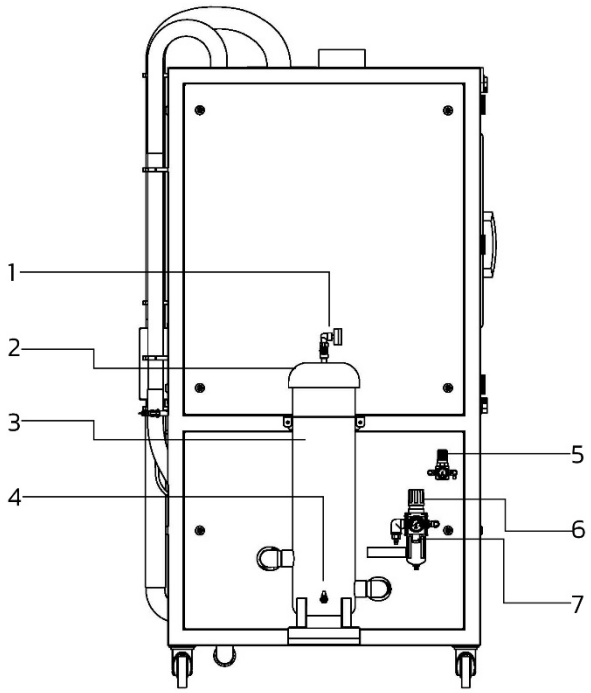
14.2 Front view



Picture 2. Front view

1. Door opening sensors
2. Ventilation channel
3. Fluid working pressure gauge
4. Air vent valve
5. Filter housing cover
6. Filter housing (5 20 "slim filter cartridges)
7. Steering wheels
8. Touch panel
9. AUTO / SERVICE switch
10. Switch for CLEANING / DRYING
11. START button
12. STOP button
13. RESET button
14. Sound signaling device (ALARM)
15. Thermal printer
16. Emergency safety switch
17. Main switch

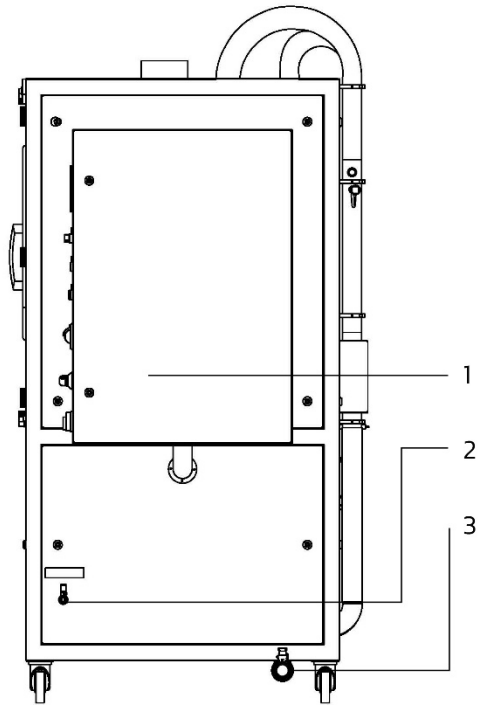
14.3 Left side view



Picture 3. Left side view

1. Fluid working pressure gauge
2. Filter housing cover
3. Filter housing (5 20 "slim filter cartridges)
4. Drain valve of the filtration system
5. Impact pressure reducer
6. Pressure reducer with dryer
7. Compressed air connection (Eurostandard plug DN 7.2 mm)

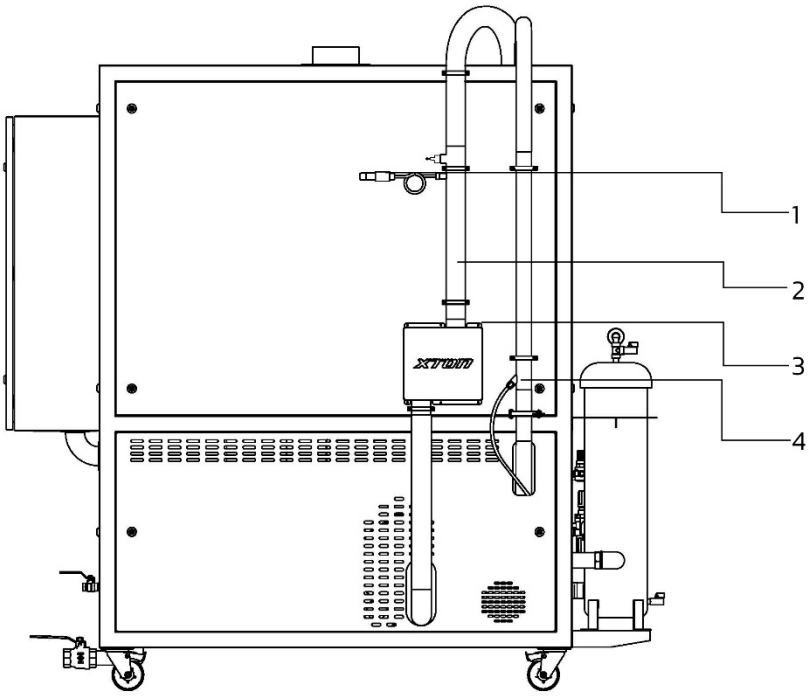
14.4 Right side view



Picture 4. Right side view

1. Control cabinet
2. Water supply connection (GW 1/2 “ball valve)
3. Water drain (ball valve GW 6/4 ")

14.5 Rear view

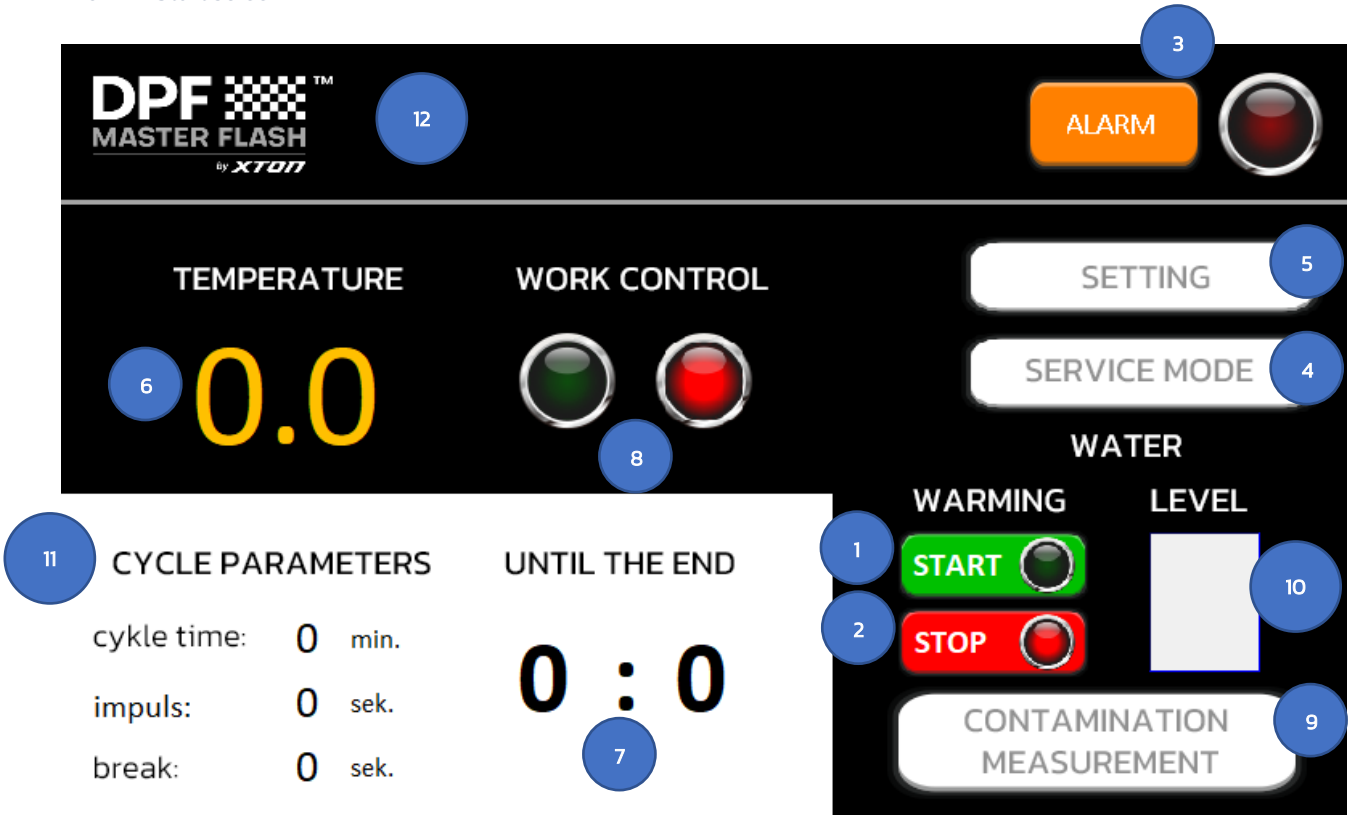


Picture 5. Rear view of the machine

1. Air pressure sensor
2. Drying system and measuring system
3. Air heater with cover
4. DPF filter cleaning system

14.6 Control panel

14.6.1 Start screen



1. **START button**
   During automatic operation, press the START button on the screen, then the heater will be activated. Do not turn off the heating while the device is operating. The temperature will be automatically maintained at the set level. The optimal temperature of the liquid is 38 degrees.
2. **STOP button**
   After pressing the STOP button, the heater will be turned off and the temperature will not be kept at the set level.
3. **ALARM button**
   In the event of an alarm, the ALARM indicator on the screen will light up and the device will beep. Pressing the ALARM button will display the alarm list.
4. **SERVICE MODE button**
   It takes the user to the service mode, which enables manual control of individual components of the machine.
5. **SETTINGS button**
   It takes the user to the settings of the automatic mode, which enables the appropriate adjustment of the operating parameters to the given type of filter.
6. **Temperature indicator**
   Indicates the current liquid temperature.
7. **Cycle time clock**
   Indicates the time remaining until the end of the cycle.
8. **Operation indicators (green and red)**
   They indicate the current state of the automatic cycle.

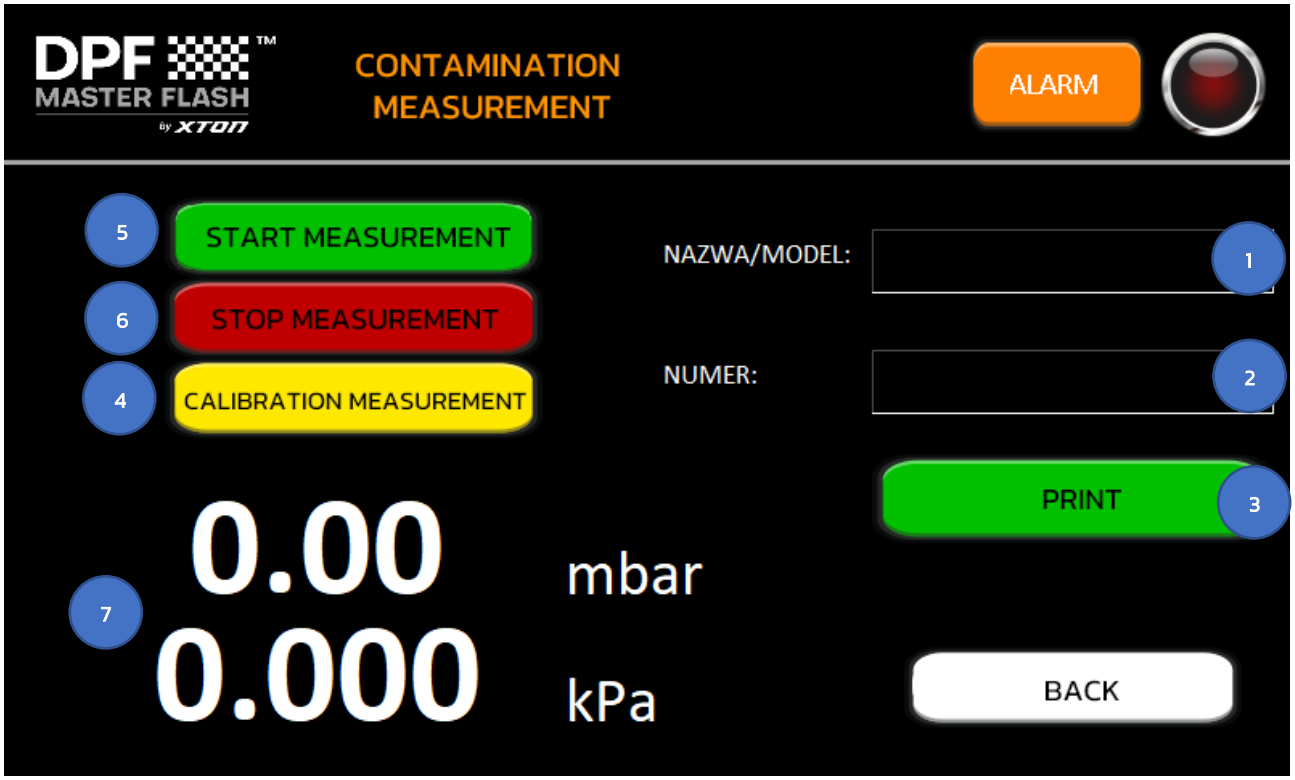
9. **CONTAMINATION MEASUREMENT button**
   It takes the user to the measurement panel performed before and after the cleaning process.

10. **WATER LEVEL**
    Indicates the water level in the tank.

11. **Cycle parameters**
    Indicates the current automatic mode settings.

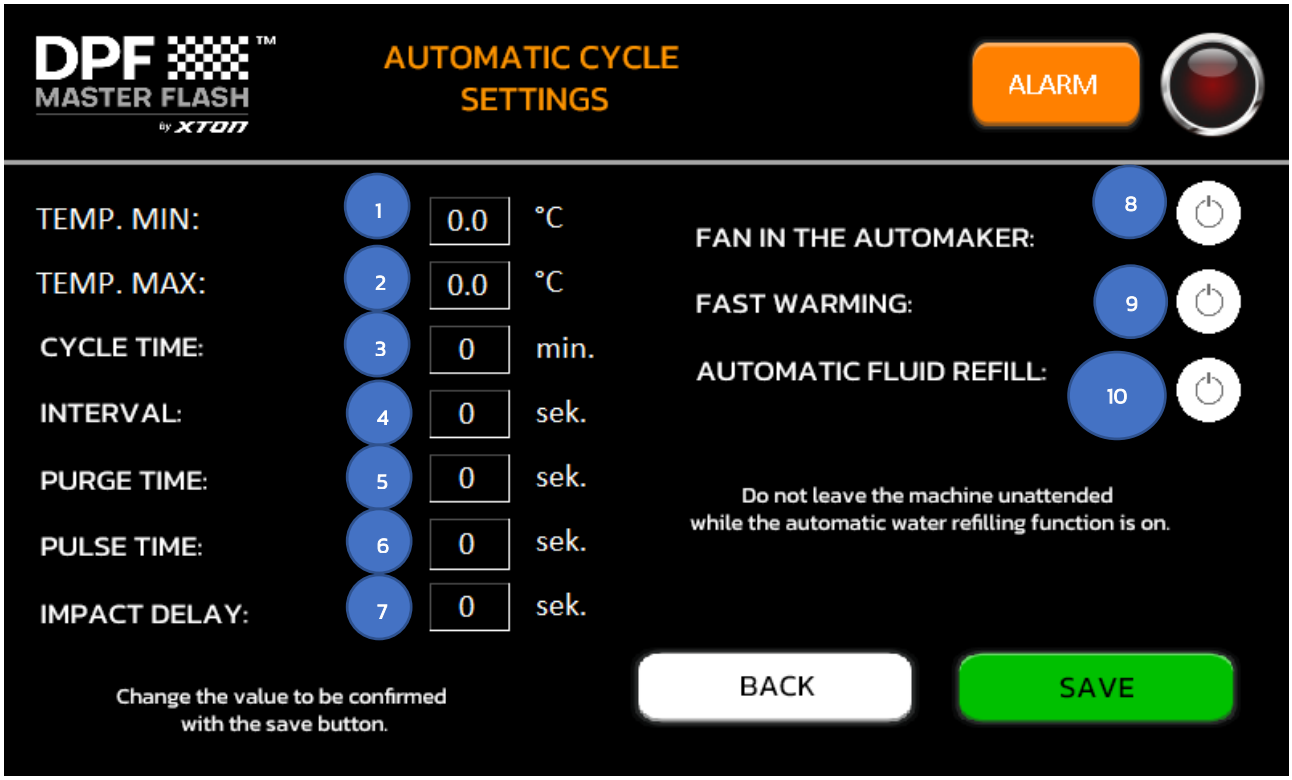
12. **Device logotype**
    After clicking on the logotype, we can change the main settings such as date, time, service data (data printed on the confirmation of the filter contamination test) and the display language.

14.6.2 Measurement screen



1. **Name / Model**
   In this field, enter the vehicle data such as the make or model to which the regeneration relates.
2. **Number**
   Enter the registration number or order number in this field.
3. **PRINT button**
   Pressing the button will result in a printout containing the data of the service in which the regeneration was performed, vehicle data and the value of the DPF filter contamination.
4. **Calibration**
   Pressing the button will perform the calibration of the measuring system.
5. **Start measuring**
   Pressing the button will start measuring the pollution of the DPF filter. The measurement will be visible in two units of mbar and kPa.
6. **Stop the measurement**
   Pressing the button will interrupt the DPF pollution measurement.
7. **Measurement value**
   After the measurement is completed, the value will be displayed in two units: mbar and kPa.

14.6.3 Automatic cycle settings screen



1. **Minimum temperature**
   Minimum liquid temperature. The recommended temperature at which the regeneration process can be started is 20 degrees C.
2. **Maximum temperature**
   Maximum temperature of the liquid. The recommended temperature is 38 degrees C.
3. **Cycle time**
   This is the duration of the automatic cycle.
4. **Interval**
   It is the pause between blows (water + air).
5. **Purge time**
   After each completed regeneration process, the DPF filter will be blown with compressed air only to remove some of the water from it.
6. **Pulse time**
   This is the time of impact (water + air).
7. **Impact delay**
   This is the time when the DPF filter is completely filled with liquid before the first impact (water + air).
8. **Fan in the machine**
   By selecting this parameter, the fan will always be started during the regeneration process *(if it is mounted to the ventilation duct and connected to the device installation).*

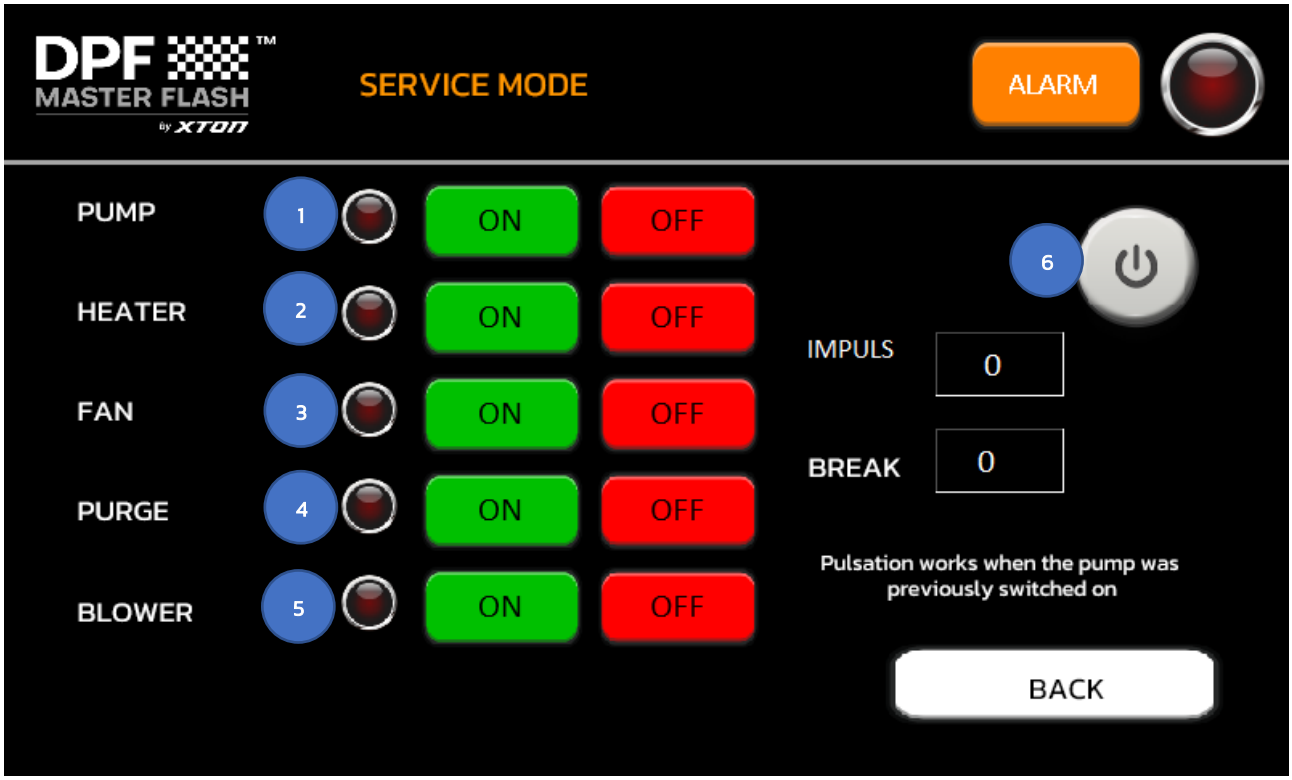
CAUTION

There is no fan connected to the device at the factory and it is not a standard equipment of the device. The fan should be installed on your own. The installation in the upper part of the device is designed for a 230V fan and max. 100W. The fan should be installed by a qualified person.

9. **Fast heating**
   Selecting this parameter will turn on both heaters in the device and heat the water to the set temperature faster. Only available in standby mode.

10. **Auto-topping up water (applies to the DPF 300LKQ model or as an additional option)**
    Selecting this parameter will activate the automatic mechanism of adding water to the tank. If the water level drops to a minimum, the valve will be automatically activated to replenish the water in the tank to the required level.

14.6.4 Service mode screen

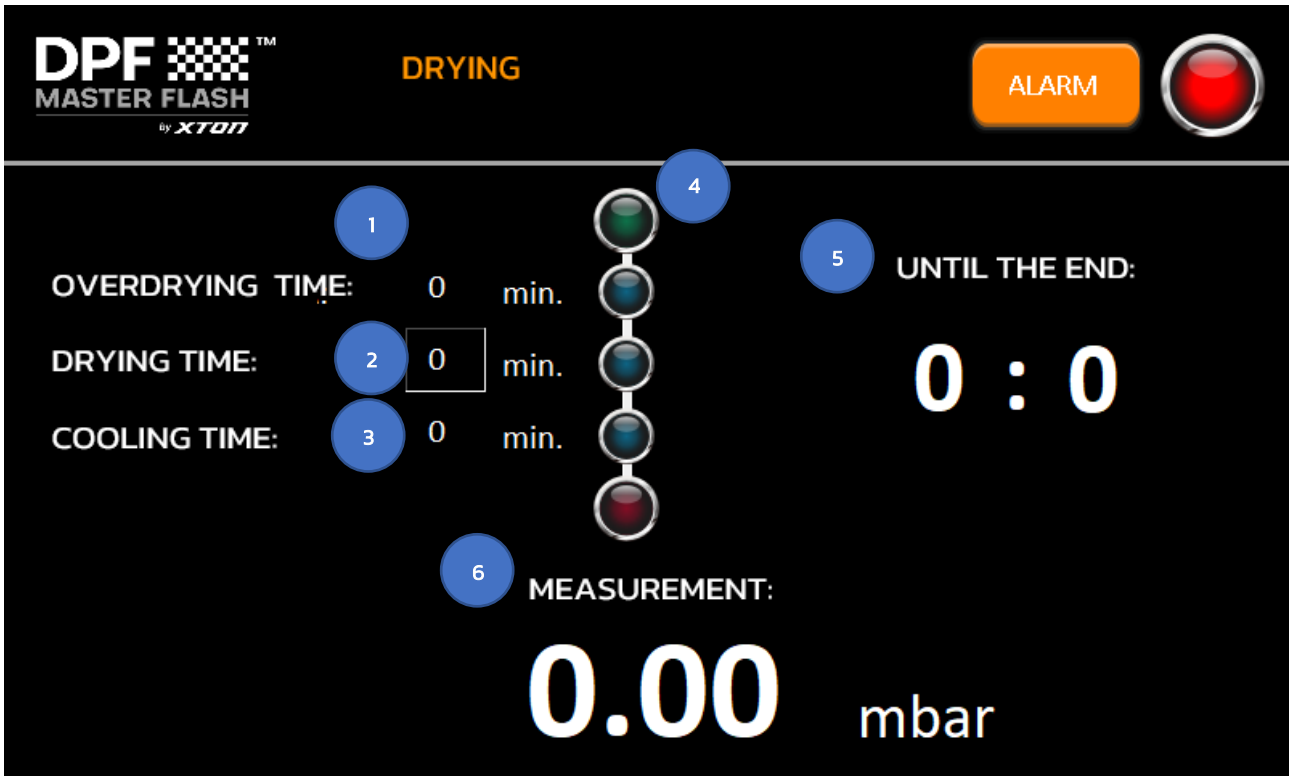


1. **Pump**
   Start and stop the liquid pump
2. **Heater**
   Switching the heater on and off
3. **Fan**
   Enabling and disabling the fan connected to the device installation.
4. **Blow off**
   Enabling and disabling blowing with compressed air
5. **Blower**
   Turn on and off the air blower. This option does not start the heater !!! The maximum temperature generated by the blower is approx. 70 degrees C.
6. **Pulsation**
   Pressing the button will start the shock function (water + air). For the function to work properly, first turn on the PUMP and set the appropriate values in the PULSE and BREAK fields.

CAUTION

Operation in service mode allows the device components to be started even with the door open. Be especially careful when working with the device.

14.6.5 Drying mode screen

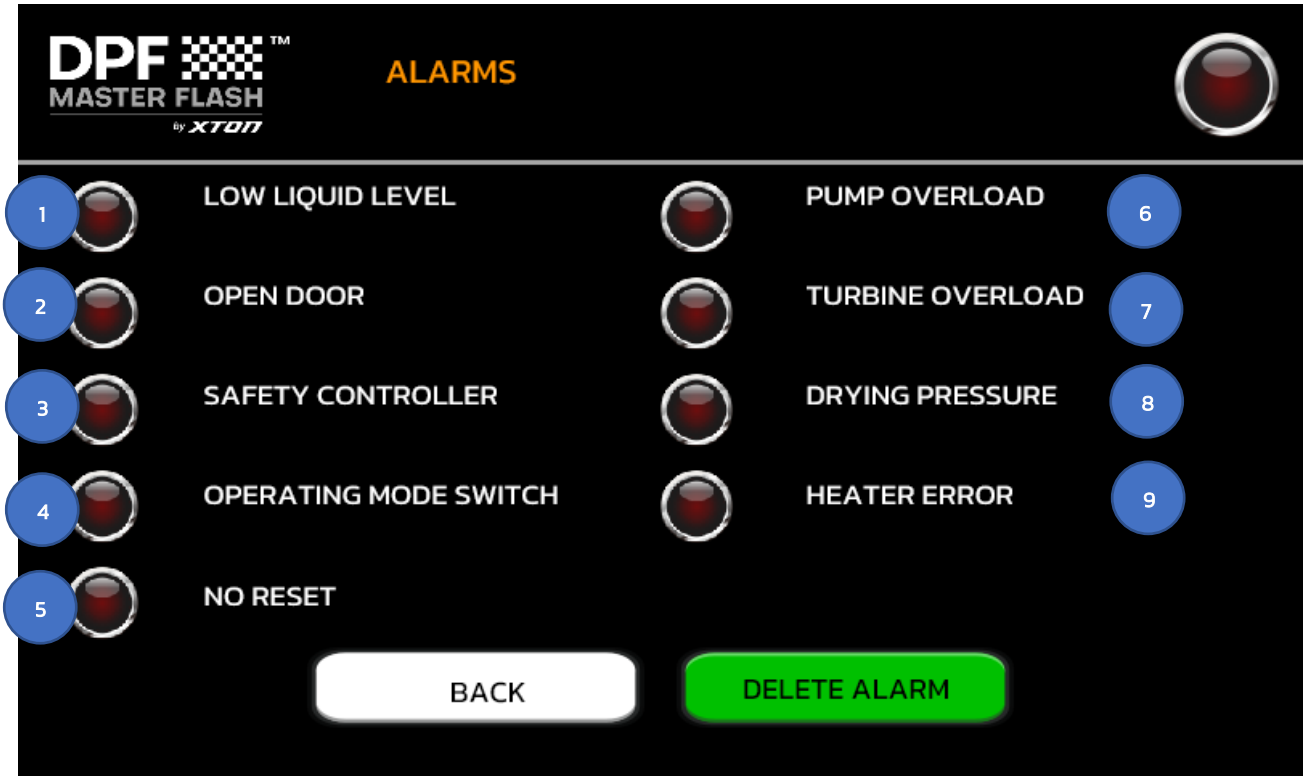


1. **Time of drying**
   This is a pre-drying process where you activate the air blower itself to remove excess water from the DPF. This parameter is factory set.
2. **Drying time**
   In this field, we specify the time of basic drying, where, apart from the air blower, the air heater will also be activated.
3. **Cooling time**
   It is the time needed for the heater and the fan to cool down to prevent their damage. This parameter is factory set.
4. **Signal tower**
   Indicates the stages in which the filter is drying.
5. **Time to end of cycle**
   Shows how much time is left to the end of the drying process.
6. **Measurement**
   Shows real-time measurement of filter contamination expressed in mbar.

CAUTION

The drying process of the DPF filter must not be interrupted during its duration, as it may damage the blower or the heater.

14.6.6 Alarm screen



1. **Low liquid level**
   This alarm occurs when the water level in the tank drops below the minimum level. You should then add about 20 liters of water and cancel the alarm. If the automatic top-up function is activated, the water in the tank will automatically refill.

2. **The door is open**
   This alarm occurs if the appliance door is open in the "AUTO" mode. Close the door and reset the alarm.

3. **Security controller**
   This alarm occurs when the security system in the device detects an error. Completely disconnect the device from the power supply for 2 minutes and restart it. Then reset the alarm. If it is not possible to clear the alarm, notify the service immediately.

4. **Switching the operating mode**
   This alarm occurs if, while the machine is running, you switch the "AUTO" mode to "SERVICE". Clear the alarm and continue working.

5. **No reset**
   This alarm occurs when the "RESET" button on the main panel of the electrical cabinet has not been pressed. Press the "RESET" button and reset the alarm.

6. **Pump overload**
   This alarm occurs when the water pump is overloaded. Possible reasons:
   a) Service setting of the motor switch in the electrical cabinet
      Check the setting of the PKZM0-6,3-EA motor switch located in the electrical cabinet. The current selector (yellow) should be in the "5.1" position. If necessary, set the value to "5.1".
   b) Blockage of the strainer at the bottom of the side wall of the tank
      Clean the strainer mechanically.
   c) Squeezing the hose between the water tank and the water pump
      Replace the suction hose with a new one.
   d) Defective non-return valve in water inlet to filters

Replace the suction hose with a new one. Replace it with a new one.

e) Heavily contaminated filter elements in the filter housing
Replace the cartridges with new ones and thoroughly clean the inside of the filter housing.

f) Squeezed or damaged hose between filter housing and washing chamber
Replace with a new one.

g) Clogged water outlet at the end of the hose in the washing chamber
Clear the blockage / blockage.

h) Broken DPF filter, no water flow.
Connect the filter on the other side, if there is still a problem, disconnect the DPF filter and check if the problem persists without the filter.

CAUTION

To reset the alarm, open the electrical cabinet, locate the PKZM0-6,3-EA motor switch and set the switch lever to the "1" position, then press "CLEAR ALARM" on the monitor screen.

7. **Turbine overload**

This alarm occurs when the air blower is overloaded. Possible causes:

a) Service setting of the motor switch in the electrical cabinet
Check the setting of the PKZM0-10-EA motor circuit breaker in the electrical cabinet. The current selector (yellow) should be in position "8". If necessary, set the value "8".

b) Clogged air inlet in the side channel fan
Remove the front inspection panel and check the suction basket for obstruction.
Clean if necessary.

c) Clogged air outlet at the end of the hose in the washing chamber
The blanking plug must be removed.

d) Damaged hose between blower and tube at the back of the machine
Replace with a new one.

e) Damaged hose between the pipe and the washing chamber
Replace with a new one.

f) Broken DPF filter, no airflow when measuring the contamination level
Try to connect the DPF filter on the other side.

g) Strongly clogged DPF filter with water after the regeneration process
You should unseal the connection between the hose and the DPF filter so that part of the air passes the DPF filter or use the AD7 adapter (available as an optional accessory) by plugging it in series between the filter being cleaned and the drying hose connection.

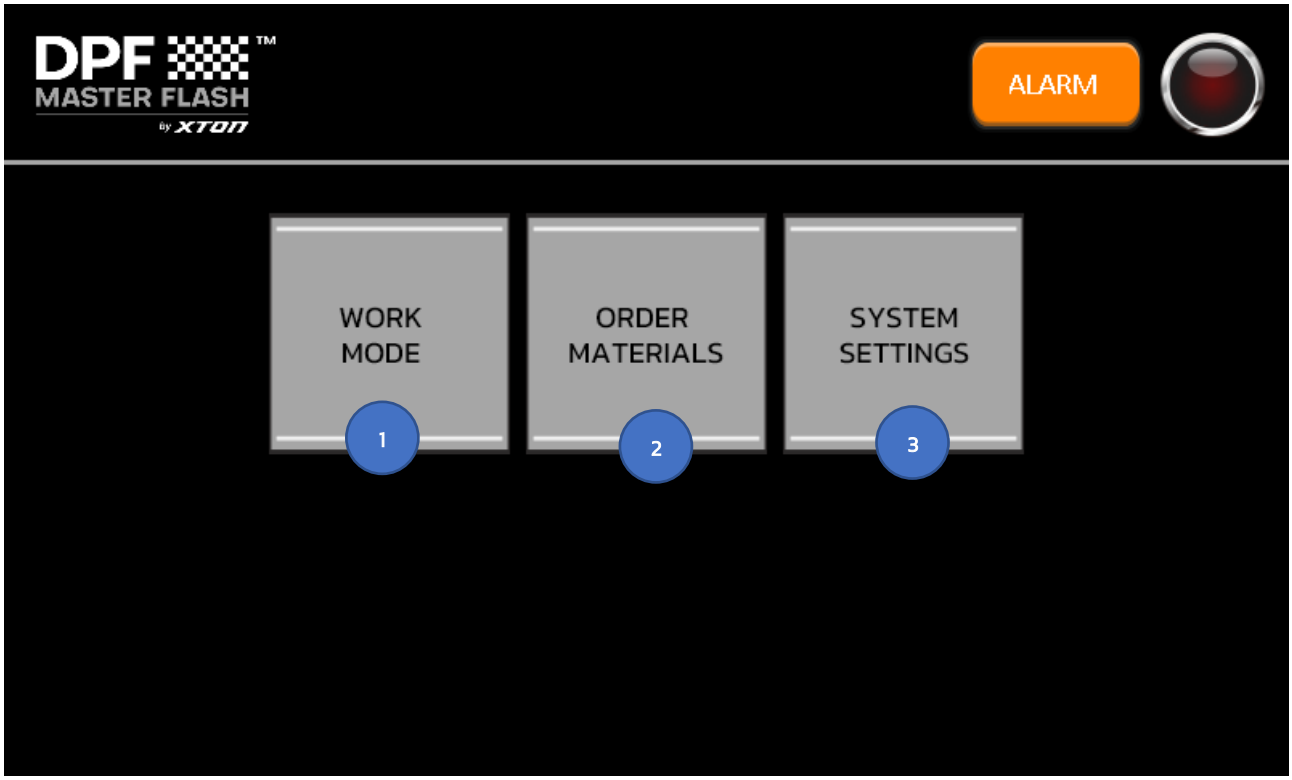
8. **Drying pressure**

This alarm occurs when the DPF filter becomes heavily clogged with water after the regeneration process during the drying process. You should unseal the connection between the hose and the DPF filter so that some of the air passes the DPF filter or use the AD7 adapter (available as an optional accessory) by plugging it in series between the filter being cleaned and the drying hose connection.

9. **Heater error**

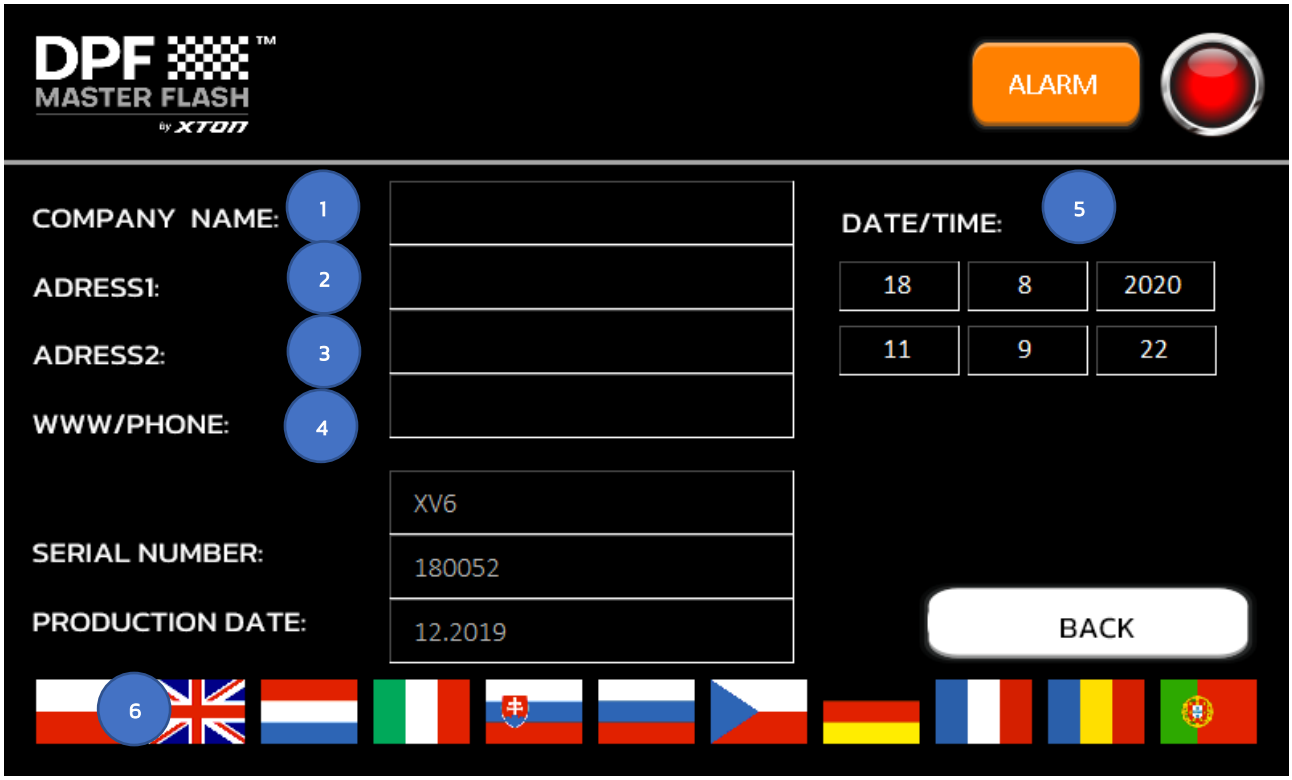
This alarm occurs when there is a problem with the air heater. Please contact the service.

14.6.7 Menu screen after pressing the device logo



1. **Mode of operation**
   Pressing the button will switch to the regeneration mode
2. **Order materials**
   Pressing the button will take you to a screen where you will see the contact details, where to order consumables.
3. **System settings**
   Pressing the button will switch to the system settings screen.

14.6.8 System settings screen



1. **Company name**
   Place to enter the name of the company / service regenerating DPF filters.
2. **Adress 1.**
   Place to enter the company / service address.
3. **Adress 2.**
   An additional place for the address of the company / service.
4. **Telephone number / www**
   Place to enter the phone number and website address of the company / service.
5. **Date / Time**
   Places to set the date and time.
6. **Display languages**
   Change the display language on the device.

IMPORTANT

Fields 1, 2, 3, 4, 5 will be visible on the printout of the pollution measurement.

15. Machine disposal

The machine is constructed of the following materials:

- structural steel,
- stainless steel,
- electronic components,
- rubber,
- from synthetic materials.

	DANGER Before starting work related to the utilization of the machine, it must be disconnected from the electric, pneumatic and water systems .
	CAUTION Appropriate hand and mechanical tools as well as personal protective equipment should be used at each stage of disassembly and disposal .

The process of disassembly:

1. Remove the air and water lines.
2. Properly dispose of the consumables.
3. Disassemble the device.
4. Plastic elements should be handed over to a unit that deals with the recycling of plastics.
5. Send metal elements to a unit dealing with metal recycling.
6. Electric components and power cables should be handed over as special waste or electronic waste.

16. Maintenance activities

	IMPORTANT The machine should be kept clean, properly supervised and maintained. Regular inspection and maintenance can ensure long, trouble-free operation of the machine.
	IMPORTANT Immediately remove any faults essential for safety or report for repair.

In order to provide the device with maximum uptime it is necessary:

1. After each clogging of the filter inserts, thoroughly wash the filter container and the entire chamber of the device with the tank with clean water.
2. Before starting each regeneration cycle, check the dirt condition of the mesh and filter mat, which is the initial liquid filtration system. When significant contamination is found, clean the mesh and replace the filter mat with a new one.
3. In the event of liquid accumulating inside the chamber of the device, check the blockage of the preliminary filtration system. Clean if necessary. Heavily contaminated initial filtration system may cause liquid leakage from the washing chamber.
4. Change the water in the tank more often than the filters. 3: 1 is recommended.
5. Clean the entire water system at least once a month as follows:
   a) take out the filter inserts,
   b) thoroughly clean the filter container, the device chamber and the tank with clean water,
   c) fill the tank with 50% clean water,
   d) start the regeneration process without the inserted DPF filter, without filter cartridges and without any cleaning agent,
   e) the cleaning process should take 10 minutes,
   f) empty the water from the tank,
   g) repeat points from "c" to "f".
6. Check the condensate level in the reductant drier at least once a week. If the capacity of the dehumidifier is exceeded 2/3, it must be drained. To do this, unscrew the drain plug at the bottom of the dehumidifier, leave it in this state until the condensate is completely removed, and then screw it on until fully tight.
7. In the event of the machine operating in difficult conditions, there is a possibility that maintenance work should be performed more frequently than in the recommendations.

17. Attachments

1. Declaration of Conformity (required).