

USER MANUAL

(Translation of the original user manual)

DPF 
MASTER FLASH
by XTON



DPF MASTER FLASH PROFESSIONAL PLUS

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

Model: DPF 300



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2. General Information

The basis for the development of this manual is the Regulation of the Minister of Economy of October 21, 2008 on the essential requirements for machines (Journal of Laws [Dz.U.] No. 199 item 228). The machine meets the requirements of Directive 2006/42/EC of the European Parliament and of the Council of May 17, 2006 on machinery and bears the CE mark.

The instruction manual provides technical information on the device designed to clean DPF/FAP/GPF filters and catalytic converters. 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 for servicing the device. The manual should be accessible to every user in a readable form. When the device is relocated, the instruction manual must be attached to the device, as it is an integral part of it .

The instruction manual contains important instructions for the safe and proper operation of the device. Following the operating instructions helps prevent hazards, reduces repair and downtime costs, and increases the reliability and life of the equipment.

Any person operating (hereinafter referred to as operator) or assisting in the operation of the equipment is required to read the operating instructions and observe safety requirements. The device can be started up, operated and serviced only after prior familiarization with this manual, as well as after detailed training in the safety rules of use. The operator of the device is obliged to make the user manual available to the user and to ensure that it has been assimilated in an appropriate manner.

The operator as well as any other person performing activities using the device undertakes to follow the instructions given herein and the rules under the law and health and safety regulations.

These instructions do not exempt you from applying and complying with the general regulations on accident prevention and environmental protection.

3. Description of safety symbols used in the manual

Safety instructions are marked with a warning sign and a signal word. The signal word (DANGER, WARNING, CAUTION) describes the gravity of the imminent danger and has the following meaning:

	DANGER Indicates imminent danger with a high risk of death or severe bodily injury (loss of body parts or long-term damage) if not prevented. Failure to follow this guideline risks loss of life or serious bodily injury.
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	WARNING Indicates a possible hazard with an average risk of death or (severe) injury if not prevented. Failure to follow this guideline risks loss of life or injury to the body.
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	CAUTION Refers to a low-risk hazard that can cause slight to moderate bodily injury or property damage if not prevented. Failure to follow this guideline risks injury to the body.
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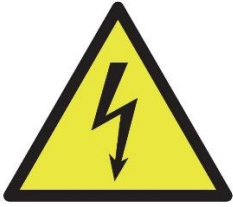
Important information, tips, recommendations and notes are marked with an information sign and a signal word, the meaning of which is shown below:

	NOTE Indicates information and instructions that are important for keeping the machine in good working condition or facilitating its proper use, optimizing operation or storage. Failure to follow this guideline will prevent full use of the machine or may lead to process disruption, damage to the machine or the environment.
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4. Safety symbols used



Warning of hot surface



Warning of risk of electric shock



Main switch



Use safety glasses



Use protective gloves



Use hearing protectors

5. Preparation of pneumatic installation

The air delivery process is of great importance for the proper functioning of the device. By following the recommendations below, its highest efficiency will be maintained:

The connection of the pneumatic system must meet the following conditions:

- Air pressure 6-8 bar (90-100 psi) - Compressor effective capacity at 7 bar: 20 m³/h (333l/min)
- Air tank capacity minimum :100L
- Minimum inner diameter of pneumatic hose 12mm.

- Hose terminated with a DN 7.2mm pneumatic quick connector socket

CAUTION


The compressed air supplied to the machine from the plant's central plant must be cleaned, free of solids and moisture. Any contamination and water can lead to damage to valves, pneumatic tubes. The user should install a compressed air preparation unit equipped with a separator and a particulate filter with a 5µm cartridge between the air tank and the air supply connection to the machine.

CAUTION


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

NOTE


For optimum compressor performance, an air tank of more than 100 liters is recommended. A larger air tank contributes to reducing the frequency of compressor engagement.

6. Preparation of electrical installation

DANGER


There is a danger to life from electric shock if the electrical connection is not professionally made!

Remember that an inexpertly made electrical connection can make the operation of the device unsafe and cause personal injury and property damage.

Remember that the electrical connection may only be performed by installers with the appropriate training and those who are qualified to perform this work.

The technical connection conditions for connecting to the low-voltage network of the power company must be observed.

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

On the basis of the parameters read, select the appropriate cross-section of the wires (but not less than 2.5mm², the recommended type of installation TN-S).

Prepare and ensure that the routing of power cables does not pose a hazard and has been done in accordance with applicable standards.

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

.....
Authorization number of the installer

.....
Stamp and signature of the authorized installer

7. Warranty and guarantee

The general warranty period for this device is 12 months.

Fast-wearing parts are not subject to warranty. For equipment purchased by the manufacturer, the suppliers' warranty terms and conditions apply.

Warranty and liability for personal injury and property damage are excluded if their causes are due to the following situations:

- a) Misuse of the device.
- b) Improper operation and servicing of the device.
- c) Operating the device with improperly installed or non-functioning safety devices.
- d) Operating the device with damaged or partially non-functioning parts or components.
- e) Failure to fully comply with operating instructions.
- f) Unauthorized modification of the design or change of rating parameters.
- g) Improper implementation 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, especially on electrical, mechanical, hydraulic components, may result in loss of warranty, revocation of the declaration of conformity and loss of rights to the CE symbol.

8. Safety Tips

8.1 General guidelines

Read the instruction manual carefully before starting the device! Familiarization with the operating instructions is necessary even if the operator already has experience with similar equipment. Within the operation of the device, regardless of the information contained in this manual, current health and safety regulations apply. For components and components purchased from the manufacturer, follow the safety instructions for the components.

Always inspect the device for the presence of safety features and their proper operation before starting work. Do not disassemble or deactivate protection devices. Malfunctions or errors that pose a safety risk should be corrected immediately. Only employees who are assigned tasks by the person in charge of the system and who are trained and familiar with how to operate the device may be engaged in work on the device. Responsibilities should be clearly established.

Never leave a working machine unattended, and if you need to leave the work area, the machine should be turned off.

8.2 Safety tips before operating the device

Before operating the device, connect the device to the pneumatic and electrical systems and carry out the following safety-related checks:

- a) **Door Control**
To do this, open the door. At this point, it may not be possible to turn on the device in auto mode.
- b) **Control of the emergency stop system**
The emergency stop switch must be pressed. When pressed, the device should signal an alarm and there must be no way to turn it on.
- c) **Inspection of pressure hoses and their attachments.**
To do this, check all attachments (ties) of the pressure hoses from the pump through the filter system to the chamber and, if necessary, tighten the screws securing the tie.
- d) **Inspection of ball valves**
Check that the drain valve (at the back of the unit), the filter water bleed valve, 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) lights up green.



CAUTION

Safe use of the machine depends on following the instructions in the manual.

8.3 Safety instructions when operating the device

In particular, for safety reasons, follow the instructions in the following paragraphs:

- a) Filters containing dust-air mixtures and hybrid mixtures must not be cleaned with the device.
- b) If dust-air mixtures are used, the device must be made in a variant with explosion protection. The relevant regulations must be observed in this regard.
- c) In order to keep the danger generated by man and the device as low as possible, the use of all kinds of sources of open flame and smoking is prohibited in the washing chamber and near the device.
- d) It is also forbidden to eat near the device.
- e) The person operating the device must wear gloves and safety goggles.
- f) During the automatic regeneration process, it is necessary for the operator to be present at a distance of no more than 5m, among other things, to ensure an acceptable response time in case of an emergency.
- g) Stop the regeneration process before opening the door.

To increase the level of safety, the following components of the device should be inspected regularly at least once a week, but no less than once a month:

- a) **Door Control**
To do this, open the door. At this point, it may not be possible to turn on the device in auto mode.
- b) **Control of the emergency stop system**
 - Turn on the device with the main switch. Then press the emergency stop switch. When pressed, the device should signal an alarm and there must be no way to turn it on.
 - Start the device in automatic mode. Then press the emergency stop switch. When pressed, the device should stop the process and signal an alarm.
- c) **Inspection of pressure hoses and their attachments.**
To do this, check all attachments (ties) of the pressure hoses from the pump through the filter system to the chamber and, if necessary, tighten the screws securing the tie.



WARNING

Before each time you start the machine, check that all protective systems and safety systems are not damaged and that they are working properly.



WARNING

Protective devices must not be bridged, dismantled or otherwise rendered useless. Disassembly can only be carried out by authorized and trained persons, after first stopping and securing the machine from restarting (for example, by locking the main power switch).

8.4 Tips related to safety during service and repair work

Disconnect the device from power sources before servicing and repair work. The electricity is disconnected by pulling the plug of the power system from the socket. Work on live installations and equipment may only be carried out by qualified technical personnel and in accordance with applicable regulations (Journal of Laws

[Dz. U.] 2019, item 1830, Decree of the Minister of Energy dated August 28, 2019 on health and safety at work on energy equipment).

**CAUTION**

When cleaning the device, use a protective mask and gloves (masks to protect against fine dust, filter class: FFP 3 according to EN 149+A1:2010)

8.5 Threats and protection devices

The main factor that generates risks, in addition to the general and mechanical components of the device (pneumatic filter attachment system - optional, filter chamber/filter housing) is the filter regeneration process itself. To reduce the risk, the device has been built in and equipped with a monitored security door. In addition, the following risk areas are identified to reduce or completely eliminate the risk:

1. Hydraulic system:

The possibility of leakage of liquid used in the regeneration process (the possibility of leaks associated with: operation of the device - seals of pipes and active elements, uncontrolled and unauthorized opening of the chamber - dripping from the door during the process) - the manufacturer to minimize the risk recommends quarterly service inspection of the water system and installation of a drip platform.

2. Drying system:

The possibility of high temperature effects within the back of the device (external piping of the drying system). The manufacturer recommends locating the device in a way that does not allow free access to the rear of the device.

To enable safe shutdown of the device in an emergency situation, emergency stop switches have been installed in the operating area.

8.6 Rules of conduct after activation of the emergency switch

In case of activation of the emergency switch due to equipment failure, it is necessary:

1. Locate the cause - where the problem/failure occurred.
2. Immediately repair the fault, unless it requires service intervention, notify the manufacturer's service.
3. After fixing the problem / malfunction, thoroughly test the steps taken.
4. Unlock the emergency switch.
5. Start working with the device with special care after the repair. Do not move away from the device, all the time monitoring the effect of the repair work performed.

9. Foundation and installation of the device

The unit has mounted swivel wheels, including two front wheels with brakes. It is possible to transport the device with a pallet truck or forklift, 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 displacement when moving the device with a forklift or pallet truck. As part of this work, care should be taken to properly slide the forks under the pallet temporarily attached to the floor of the unit.



CAUTION

Read this manual and all the appendices before starting the assembly work and installation of the machine.



CAUTION

When moving and transporting the device, there is a risk of the machine tipping over.

The foundation site of the device must be stable, level and dry. The ambient temperature must agree with the temperature listed in the technical data section.

The device should be connected to:

- the company's electrical network - via an industrial CEE plug with a voltage above 400 volts,
- water network - using a hose line to the water valve,
- compressed air system - using a minimum 12mm 1/2" diameter hose.



DANGER

It is prohibited to operate the device in hazardous areas. Appropriate actions and measures must be taken to ensure that the materials used around the machine do not pose an explosion hazard.

10. Work station

The machine may be operated by a single operator, whose workstation should provide an overview of the working area of the entire machine and allow access to all its mechanisms requiring 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 switch located on the electrical cabinet. This will enable rapid response in the event of an emergency or a life or health situation.

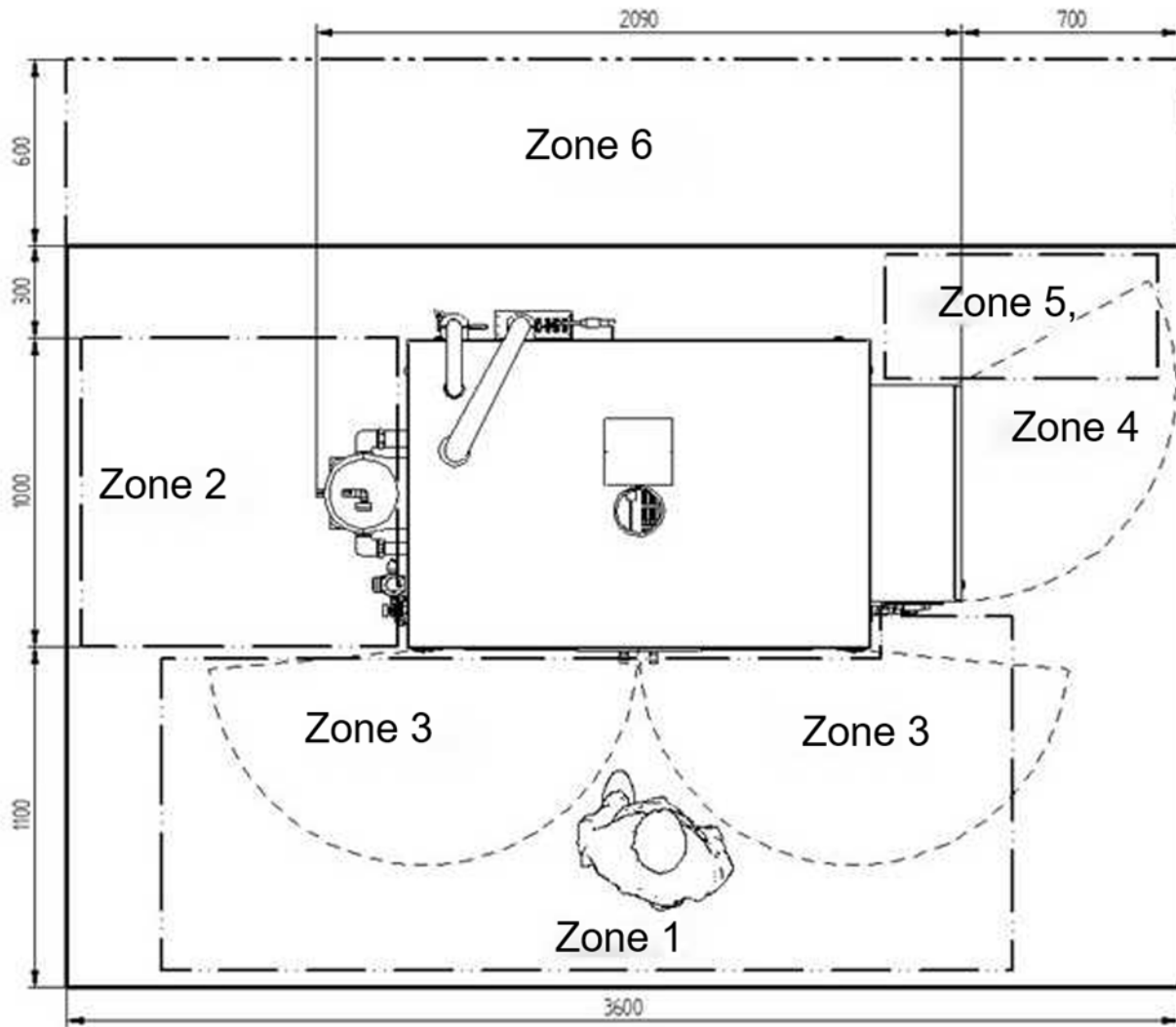


Figure 1 Top view of the workstation

Zoning:

1. Work zone (basic operation of the device)
2. Filter cartridge replacement and supply connection service area
3. Opening zone of the appliance chamber door
4. Electric cabinet door opening zone
5. Operation area of the liquid drain valve
6. Additional service area

11. Use of the device as intended

The device can clean almost all DPF/FAP/GPF particulate 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 device manufacturer.

Intended use also includes:

- follow all the guidelines in this manual,
- timely and proper conduct of inspections, repairs and maintenance work by authorized persons, operating
- comply with the prohibition on making any modifications to the machine, guards and protective devices resulting in a deterioration of safety,
- performing work to improve service safety.

12. Misuse of the device

For safety reasons and proper operation of the device, the following points must be observed:

1. Filters containing dust-air mixtures and hybrid mixtures must not be cleaned with the device.
2. Solvent-based cleaning agents such as isopropanol, extraction gasoline, nitro solvent, etc. must not be used in the device.
3. Do not start the device with improperly installed or non-functioning protection devices.
4. Do not start the device with damaged or non-functioning covers, parts or components.
5. Do not run the device when the liquid level is too low or missing.
6. Do not run the washing pump when the suction basket is visibly dirty.
7. Do not operate washing hoses when the bending radius is less than 3 times their diameter.
8. Do not arbitrarily modify the device, its design or change its ratings.
9. Do not exceed the permissible operating parameters of the machine.
10. It is not recommended to use consumables other than those recommended by the manufacturer.
11. Use applicable personal protective equipment.
12. Follow the operating instructions in full.
13. It is forbidden to operate the device to persons who are intoxicated or under the influence of drugs or psychoactive substances.

13. Remaining hazards

The device was designed and manufactured in accordance with applicable regulations and the best technical knowledge. Despite the use of proper design, the best materials and protective measures to eliminate danger, some elements of risk during machine operation are unavoidable.

Residual risks arise primarily from improper operation of the equipment by the operator or operating personnel, concerning both the operation itself and repairs, maintenance or inspections, and may occur when performing the unauthorized activities listed in chapter 11. 11.



WARNING

Note that there are residual mechanical, electrical, hydraulic and pneumatic energies in the machine and its immediate surroundings, and there are hazards from other sources.

In order to eliminate or reduce to a minimum the aforementioned risks / residual risks, the following principles should be observed:

- 1) the machine must have an operator's manual, and this manual must be available to the operator and service,
- 2) carefully read the manual, follow the rules given in it, strictly follow the orders, instructions, warnings and prohibitions, which will prevent accidents,
- 3) the machine, its protection devices, attachments, tools and instruments used must be in working order and function properly,
- 4) only persons who have mastered the relevant knowledge and experience in: the ability to operate safely, recognize faults and irregularities in the operation of the machine may be allowed to operate,
- 5) maintenance, repair and inspection may be carried out by persons familiar with the operating instructions, trained and qualified,
- 6) perform timely inspections, maintenance and repairs only when the electrical, hydraulic and pneumatic power supply is disconnected and make sure that all moving parts of the machine are stationary to reduce the risk of impact, crushing and electric shock,
- 7) use the required personal protective equipment, including during repairs,
- 8) secure the machine / workstation from unauthorized access.

Adherence to the recommendations set forth in this manual will allow you to significantly eliminate residual risks, as well as to use the device without posing a risk to people, the machine and the environment.

Defined residual risks, with adherence to the aforementioned principles, are estimated as negligible - unlikely. The residual risk remaining after applying anti-hazard protection measures, realizing all security functions and following the above rules has an acceptable level of security.

However, all of the above recommendations do not exhaust the possibilities of other ways to avoid risks and do not relieve the user from taking additional steps to further enhance the safety of operating the device.

14. Device description

14.1 Technical data

Weight	650 kg
External dimensions (L x W x H)	206 x 120 x 210 (cm)
Internal dimensions of the chamber (L x W x H)	141 x 89 x 109 (cm)
Tank capacity	277 litres
Operating pressure	6 - 8 bar (90 - 100psi)
Voltage	3 x 400V
Max power	12 kW
Frequency	50 Hz
Initial protection devices	C 20 A
Water connection (inlet)	1/2"
Water connection (drain)	6/4"
Air connection	NW 7.2 quick connector plug
Ambient temperature	5 - 35° C
Noise level during operation	<70 dB
Liquid temperature	up to 50°C
Drying temperature	up to 120°C
Diameter of pressure hoses	6/4"
Pump capacity	up to 250 l/min
Liquid filtration	4-stage, 5 - 300 microns
Airflow	up to 390 m³/h
Hypertension	up to 370 mbar
Protection devices	temperature sensor, pressure sensors, door opening sensor, emergency safety switch, liquid flow sensor.

14.2 Front View

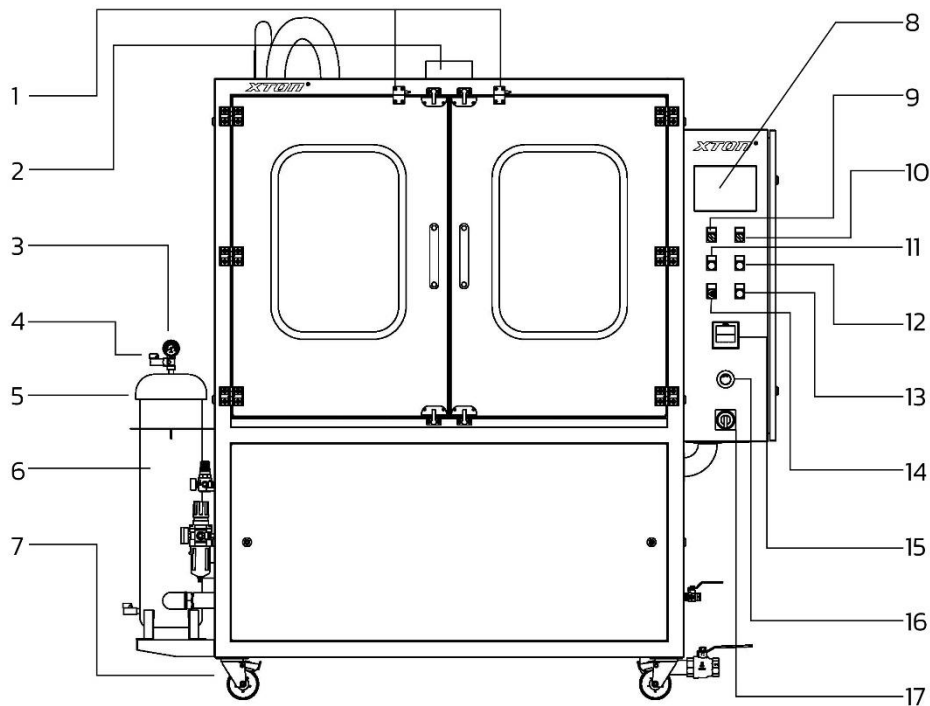


Figure 2 General view from the front

- | | |
|--|--|
| 1. Door opening sensors | 10. CLEAN / DRY switch |
| 2. Ventilation duct | 11. START button |
| 3. Liquid working pressure gauge | 12. STOP button |
| 4. Air vent valve | 13. RESET button |
| 5. Filter housing cover | 14. Optical and acoustic (ALARM) siren |
| 6. Filter housing (5 filter cartridges 20" slim) | 15. Thermal printer |
| 7. Swivel wheels | 16. Emergency safety switch |
| 8. Touch panel | 17. Main switch |
| 9. AUTO / SERVICE switch | |

14.3 View from the left side

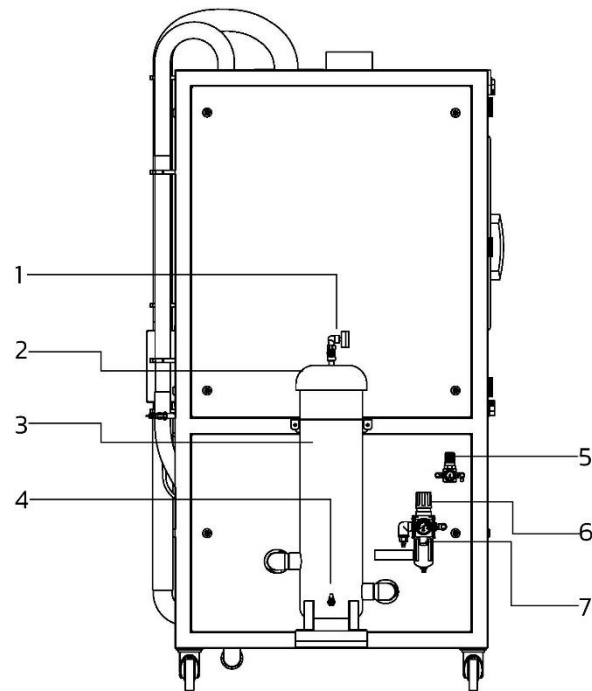


Figure 3 Left side view

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

14.4 View from the right side

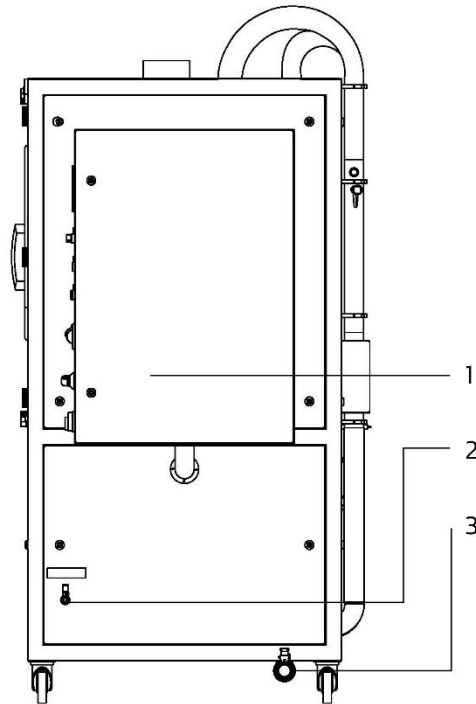


Figure 4 Right side view

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

14.5 Rear view

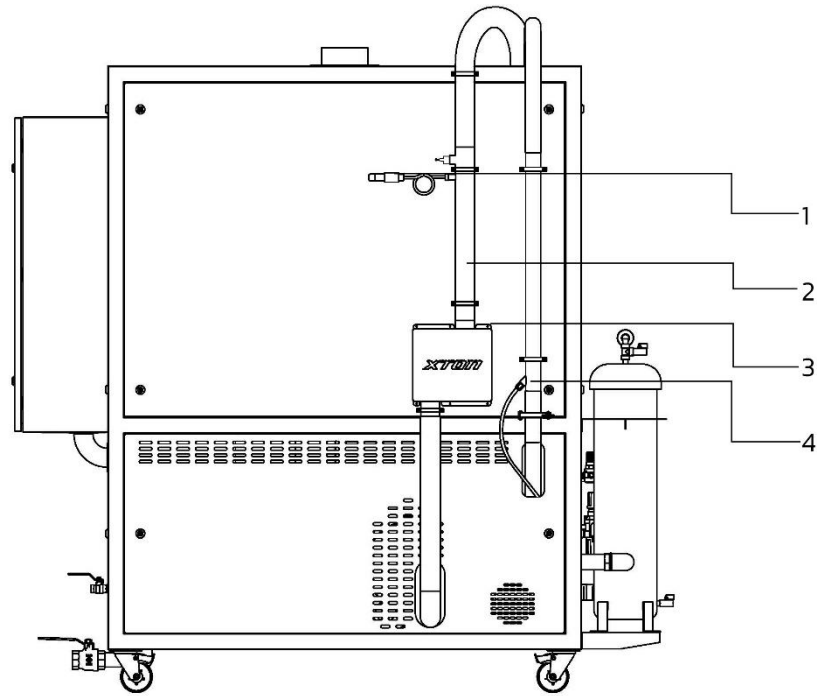
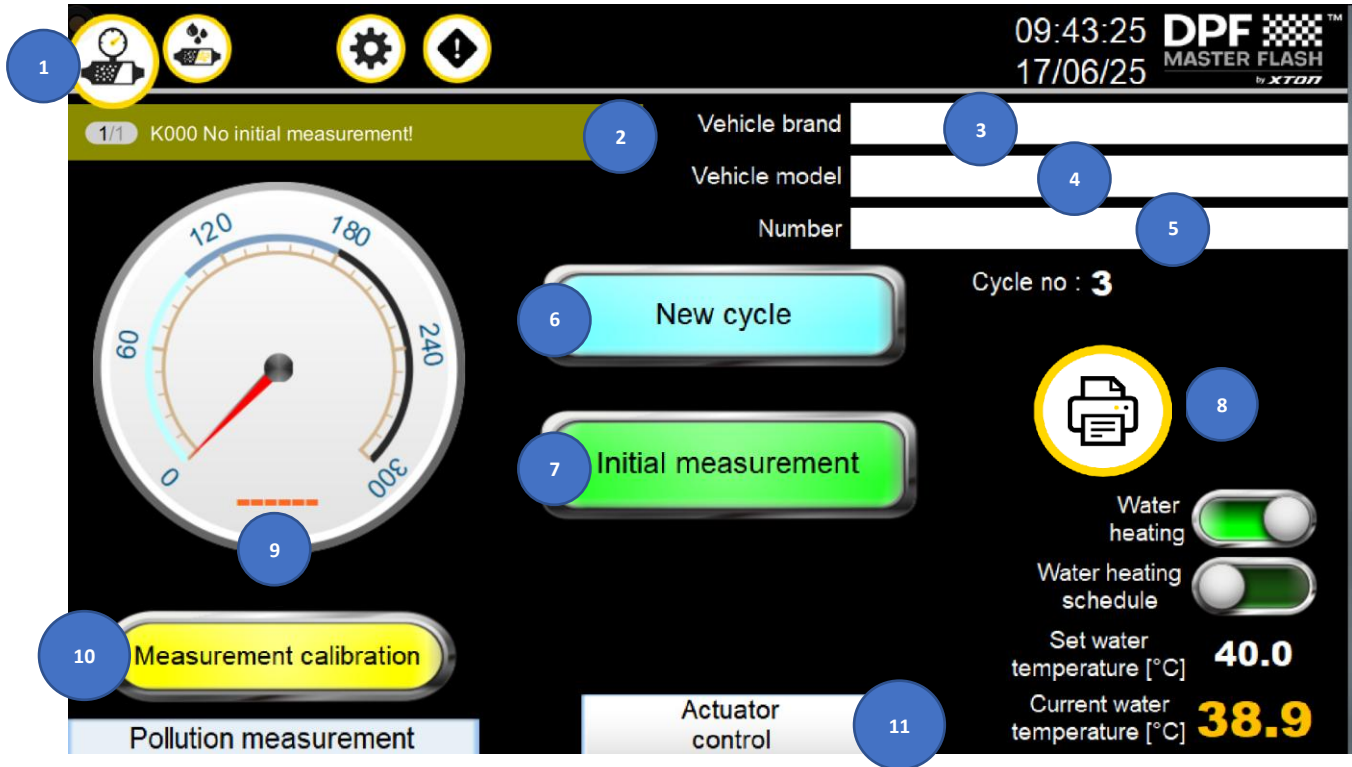


Figure 5 Rear view of the machine

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 Pollution measurement screen



1. Pollution measurement screen button

2. Message field

This field displays informational messages about the status of the device (depending on the configuration of the process settings). Observation of the message field, its reading and the correct response of the operator to the message, helps the regeneration process to be carried out correctly.

3. Vehicle make

In this field, we enter the make of the vehicle. The entry will be presented on the printout of the report.

4. Vehicle model

In this field we enter the vehicle model. The entry will be presented on the printout of the report.

5. Number

In this field, enter the order number or factory number of the filter to be cleaned. The entry will be presented on the printout of the report.

6. New cycle

Button to add a new regeneration cycle.

Pressing and holding the button for 1 second has the effect of erasing

the measurement results of the previous regeneration and adding the next regeneration cycle.



NOTE

For proper management of the report history, it is required that each filter undergoing regeneration process has its own unique cycle .
Before proceeding with each filter regeneration process, call up a new cycle and update the data in fields No. 3,4,5.

7. Initial measurement

The button starts the procedure for measuring the contaminated filter. When pressed, the side-channel turbine will be activated for 5 seconds and during this time the measuring system will read the averaged pressure value.



NOTE

The initial measurement should always be taken before adding the cleaning agent and before starting the particulate filter cleaning and drying process.

8. Print button

Pressing the button will print the initial measurement value. The printout includes the data of the service where the regeneration was carried out, vehicle data, DPF no., the value of the initial measurement of the contaminated filter, and the system no.



NOTE

Print button available when "Access to print in initial measurement" is enabled in user settings.

9. Initial measurement result

The value of the initial measurement is presented at the bottom of the pressure gauge - choice of mbar/kPa units available in the user settings.



NOTE

After adding a new cycle, the initial measurement result field displays the value "-----". This indicates that the memory cell of previous measurements has been cleared and is ready to start the regeneration procedure for the next filter.

10. Calibration

Pressing the button will bring up the measurement system calibration window - you should follow the messages displayed in the calibration window.

11. Actuator control

When the actuator control button is pressed, a window to operate the actuator (used in the EURO 6 adapter and QUICK X system) will expand.



CAUTION

Before working with adapters equipped with an actuator, check that the OPEN button has an unlock function, and the CLOSE button locks the adapter. Otherwise, swap the pneumatic hoses at the actuator or at the unit's bulkhead wall connections.

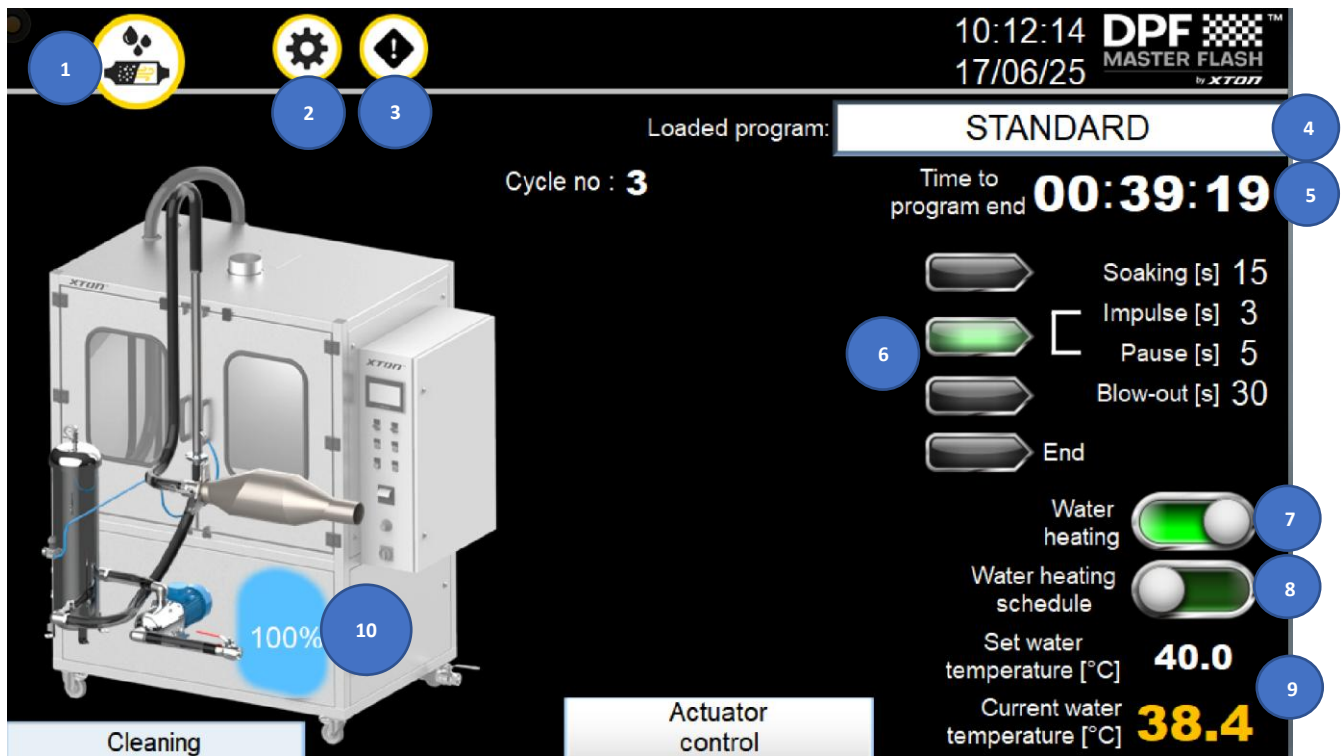


Pressing and holding the CLOSE button for 5 seconds activates the lock function of this button. The visible padlock icon next to the CLOSE button, indicates the active state of the lock.

A useful and recommended feature, especially in cases where leaks occur during the operation of the actuator due to natural wear and tear. Prevents the pressure plate from lifting in the EURO 6 adapter, and the QUICK X system from disconnecting from the particulate filter during the regeneration process.



14.6.2 Cleaning screen



1. Cleaning screen button

2. SETTINGS button

Takes the user to the device's main settings window.



NOTE

Full settings available when the key switch is in the SERVICE position (Figure 2 no 9).

3. ALARMS button

When the button is pressed, a list of all the alarms of the device will expand .

If an alarm occurs, the top bar of the screen will display the message about the alarm and the **Clear Alarms** button.

While the alarm is in progress, the buzzer will sound and flash a strong red light .



NOTE

Pressing the **Clear Alarms** button will delete all alarms without expanding the full list of alarms.



4. Cleaning program selection box

When you click on the Loaded Program field, a list of user-programmed programs is expanded. From the list of available programs, select the appropriate one for the type of DPF to be cleaned.

5. Program Duration Clock

Indicates the time remaining in the program.

6. Work progress lights

Indicate the current stage of the automatic program.

7. Water heating

Before going into automatic mode, move the slider to the right - then the liquid heating will be activated. The controller automatically maintains the temperature at the set level relative to the selected program. The optimal liquid temperature is 40 degrees. To turn off liquid heating, move the slider to the left.



NOTE

The slider control depends on the water heating schedule.

8. Water heating schedule

When the slider is moved to the right, the heating of the liquid is carried out on a scheduled basis. Heating schedule available in user settings menu (access active when key switch is set to SERVICE position) .

9. Temperature indicator

Indicates the set and current temperature of the liquid.

10. Liquid level indicator

Indicates the current liquid level in the tank.

14.6.3 Drying screen



1. Drying screen button

Pressing the button loads the drying screen.

2. Time to end drying

The field indicates how much time is left in the drying process.

3. Pre-drying

This is a pre-drying that involves running the blower itself to remove excess water from the DPF. This parameter is set at the factory.

4. Drying

The field allows the operator to enter the value of the basic drying time. At this stage of the process, in addition to the side-channel turbine, an air heater is activated to maintain the highest possible drying temperature.



NOTE

Do not interrupt the DPF drying process while it is in progress, as you may risk damaging the blower or heater. If it is necessary to stop the process, press the STOP button and follow the messages displayed on the screen.



During basic drying, ensure that the air supply hose to the particulate filter being dried is not kinked. Too small a bending radius ($< 3 \times D$ of the hose) causes permanent degradation of the hose structure, leading to premature wear.



CAUTION

During the basic drying process, the air temperature can reach values on the order of $130\text{ }^{\circ}\text{C}$, so special care should be taken.

5. Cooling

This is the time needed to cool down the heater and side-channel turbine, to prevent damage to them. During this time, the structure of the particulate filter monolith is also cooled down, allowing the initial measurement conditions to be restored. This parameter is set at the factory.

6. End

A light indicates the completion of each stage of the drying process. The device will terminate operation at the same time triggering a paging alarm, through the optical and acoustic siren located on the control panel (*fig.2* item 14).



NOTE

To turn off the paging alarm (pulsating optical and acoustic siren) when the drying process is over, press the STOP button briefly.

7. Final measurement

The button starts the final measurement procedure. When pressed, the side-channel turbine will be activated for 5 seconds and during this time the measuring system will read the averaged pressure value



NOTE

The final measurement should always be taken after the complete cleaning process and drying of the particulate filter.
The result of the final measurement saves the parameters of the entire process to memory.

8. Print Button

The button appears after the final measurement procedure is performed (it is extinguished beforehand).

Pressing the button will print the regeneration report.

A complete regeneration report should include:

- the details of the service center where the regeneration was carried out,

- vehicle details,
- DPF number,
- initial measurement value of the contaminated filter,
- final measurement value after the drying process,
- differential pressure value,
- system number.



NOTE

Printing the report results in a record of the measured values of measurements in a given cycle. First to the device's internal memory and then to the USB storage located in the control cabinet.

9. Field of current pressure value during drying

The real-time value of the pressure in the drying process is presented.

10. Result

Field in which the final measurement value is displayed



NOTE

If no final measurement has been taken in a given regeneration cycle, it displays the value "-----". This indicates readiness to start the final measurement procedure.

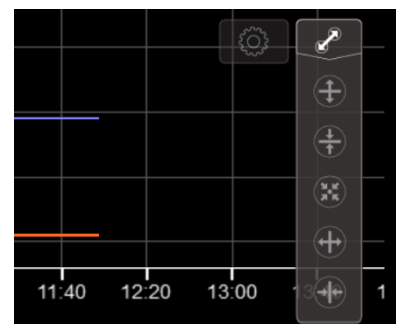
11. Diagram of the drying process

The timeline graphically presents the pressure values during the drying process.

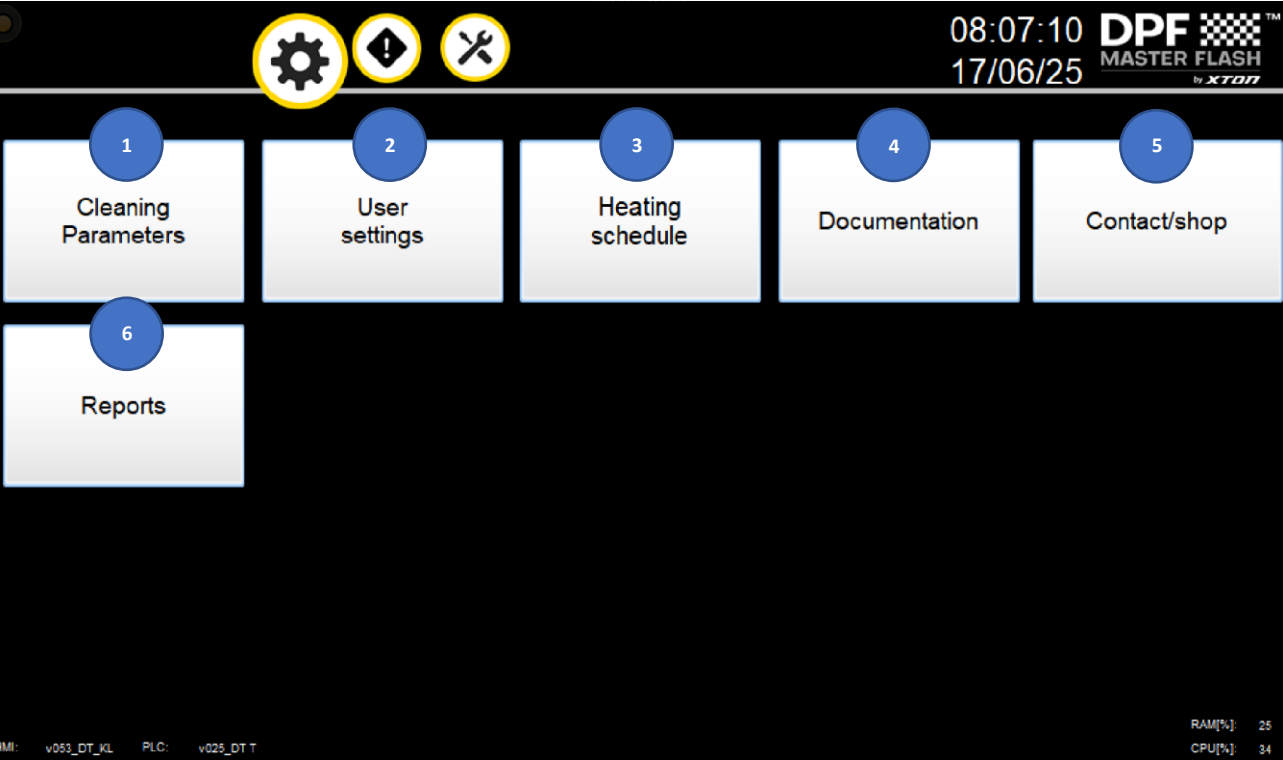


IMPORTANT

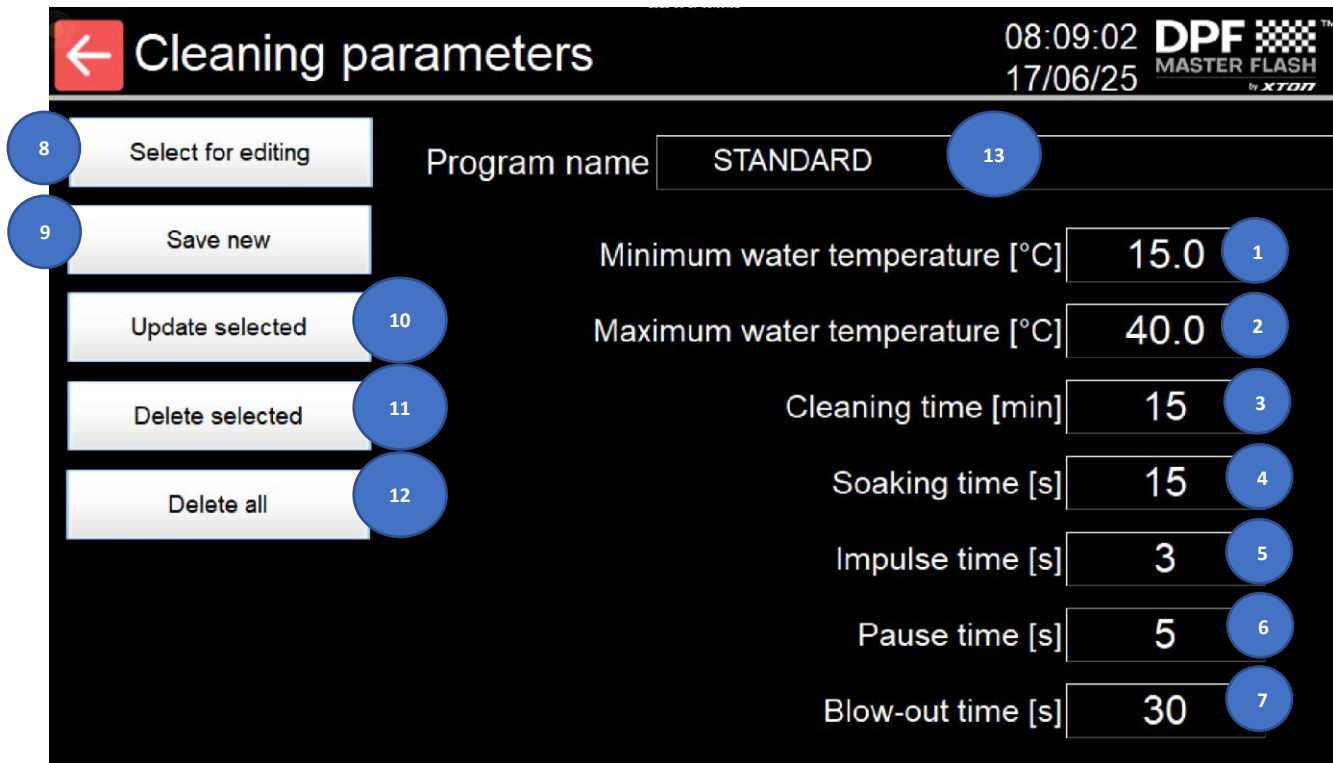
For convenience of observation, the chart can be scaled and scrolled with the available tools. To expand the list of tools you need to click on the upper right corner of the chart.



14.6.4 Settings screen



14.6.4.1 Cleaning parameters



1. Minimum water temperature

The minimum temperature of the liquid above which the cleaning process can be activated. The minimum recommended temperature at which to start the regeneration process is 20 degrees C.

2. Maximum water temperature

Maximum water temperature. The recommended temperature of the regeneration process is 40 °C.



NOTE

When the DPF is heavily soiled, such as after a turbocharger failure, it is recommended to carry out the regeneration process at a temperature of about 50 °C or higher.

3. Cleaning time

Determines the duration of the basic cleaning process, in which compressed air is cyclically (based on parameters 5 and 6) injected into the liquid stream.

4. Soaking time

This is the time when the DPF is filled with liquid along with detergent, before basic cleaning begins.

5. Pulse time

This is the length of the compressed air pulse that is injected into the DPF during basic cleaning.

6. Break time

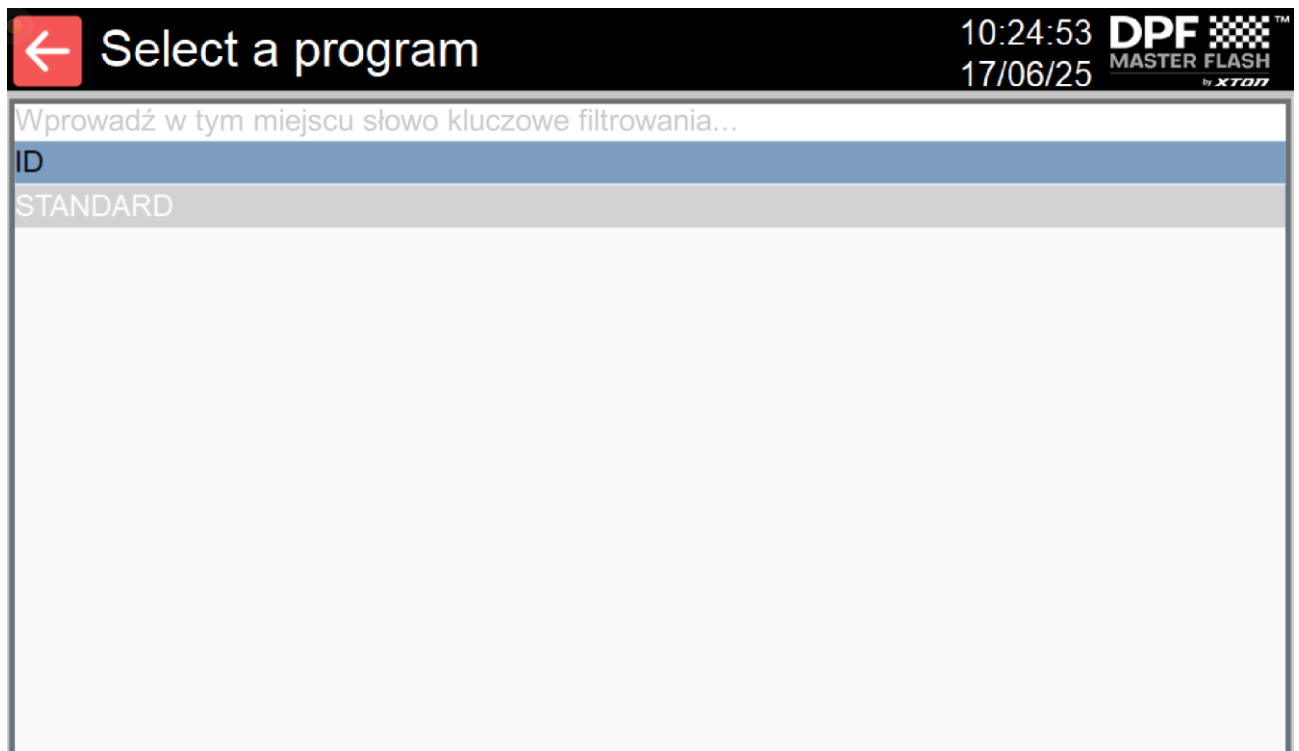
This is the interval between pulses of compressed air.

7. Blowdown time

After the regeneration process is complete, compressed air will be injected into the DPF to remove some of the water from the filter.

8. Select for editing

After clicking on the button, a window of the list of saved programs which can be edited is displayed. After selecting a program, return to the previous screen to edit the parameters.



9. Save New

Pressing button saves the new program to the database storing parameters and program names

10. Update selected

Pressing the button will update the changed parameters in the selected program

11. Delete selected

Pressing and holding the button for 2 seconds has the effect of deleting the selected program from the device's memory.

12. Delete all

Pressing and holding the button for 5 seconds results in the deletion of all programs in the device's memory.

14.6.4.2 User settings

← User settings →		
1	Screen off and light off after	25 [min]
2	Exhaust power	☒
3	Test print	Print test
4	Pressure unit	[mbar] ☒ [kPa]
5	Automatic fluid heating after start	☒
6	Second water heater	☒
7	Window after key switch	Main menu ...
8	Default window in cleaning mode	Measurement ...
9	Siren active during alarm	☒
10	Print access in initial measurement	☒

1. Screen blanking and lamp off after

Field to enter the time after which the screen will be automatically blanked and the lamp in the device chamber will be switched off. The function is particularly useful when using a liquid heating schedule, when the device is constantly connected to a power source.

2. Extraction power supply

Moving the slider to the right activates the automatic switching on of the extraction fan power supply during operation of the device. The power terminals are located on the top of the unit next to the vent.



DANGER

When the power supply function of the extractor is activated, 230V AC voltage dangerous to human life and health appears at the power supply terminals. Do not connect the fan while the device is running. Do not touch the power terminals of the extractor while the unit is operating.

If no extraction fan is connected to the power supply terminals, it is recommended that the Extraction Power function remain off.

The maximum load on the contacts of the extractor fan control relay is 6A. The extraction fan is not included in the standard equipment of the device.

3. Test printout

Pressing the button starts a test printout.

4. Pressure unit

The user, by switching the position of the slider, can decide in which unit the measurements are to be presented.

5. Automatic liquid heating after start-up

When the slider is moved to the right, the function of automatic liquid heating activation is activated every time the device is started (switching the main switch from position 0 to position 1)

6. Second heater

This function helps reduce the effects of overloading the internal electrical network to which the device is connected. The position of the slider on the left, is heating the liquid with reduced power of the device (the liquid is heated with one heater).

Moving the slider to the right activates silence heating with the full power of the device. Both heaters are involved in heating the liquid.



NOTE

Function not available on units with a single liquid heater.

7. Window after switching the key

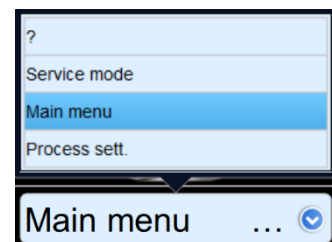
The expandable context menu allows the user to select the action after switching the key (Fig.2 item 9) to the SERVICE position.



NOTE

The user can select automatic charging :

- Service Mode window
- Main Menu window
- Process Settings window



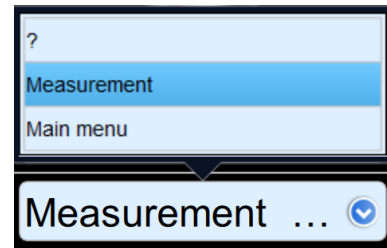
8. Default window in cleaning mode

The drop-down context menu allows the user to select loading of the default screen when the mode selector, is in the CLEANING position (Fig.2 item 10).



NOTE

The user can select automatic charging :
 - Pollution measurement screen
 - Regeneration screen



9. Siren active during alarm

With this slider you can enable or disable the optical and acoustic siren marked ALARM (Fig.2 item 14) during the system alarm.



NOTE

Deactivation of the function does not disable the paging alarm at the end of the automatic operation process , and alarm messages displayed on the screen in text form.

10. Print access in initial measurement

Moving the slider to the right activates print access after the initial measurement procedure.



CAUTION

The printout is not a full regeneration report - it contains information about the value of the contamination level measured in the DPF at the initial stage of the regeneration process (before the start of cleaning).

←

User settings

→

11		
12	Documentation	PDF
13	Company name	
14	Address 1	
15	Address 2	
16	Process outside the machine	☒
17	Date	17 6 2025
18	Time	8 14
19		
20		

11. Automatic water topping up

Enable the function to automatically top up the water in the tank based on the reading from the liquid level sensor.



CAUTION

The function is available only in devices that are equipped with an automatic water refilling system.

12. Documentation

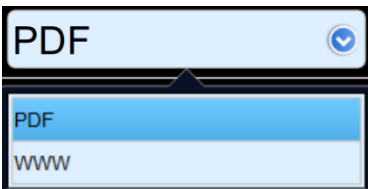
The expandable context menu allows you to select an action when you press the Documentation button (Section 14.6.4.4)



NOTE

The user can choose to automatically load the following windows:

- PDF - used to read and view PDF and video files located on the USB mass storage device
- www - web browser window



13. Company Name

Field for entering the name of the company/service that regenerates DPF filters.

14. Address 1

Field for entering the address of the company/service.

15. Address 2

Additional field for company/service address.

16. Process outside the machine

Activation of the function allows the regeneration process to be carried out with the door open.



WARNING

Moving the slider to the right disables safety features!
The function, if necessary, should be activated consciously and under the responsibility of the operator.
The function is automatically deactivated after a power outage.

17. Date

In these fields we set the date.

18. Time

In these fields we set the time



NOTE

Fields 13,14,15,17,18 will be visible on the initial printout and the overall report.

19. Display

language Change the display language on the device by selecting the flag

20. Display

language Change the display language on the device by selecting the flag



NOTE

Changing the display language on the device, does not change the language in the remote management application. To change the display language in the application, go to the user settings and make the change from within the application (the key switch must be in the SERVICE position (*fig.2* item 10))

14.6.4.3 Water heating schedule

Day of the week	Start time	End time	Active rule	Signaling
Monday	00:00	00:00	☐	
Tuesday	00:00	00:00	☐	
Wednesday	00:00	00:00	☐	
Thursday	00:00	00:00	☐	
Friday	00:00	00:00	☐	
Saturday	00:00	00:00	☐	
Sunday	00:00	00:00	☐	

1. Switch-on

In the Switch-on time fields, enter the time at which the liquid heating is to start.

2. Off Hour

The Off Hour fields decide at what time the liquid heating will be turned off.

3. Active Rule

The Active Rule column is used to quickly enable or disable the schedule by checking the box.

4. Signaling

The lights in the Signaling column indicate that heating is on, based on the scheduled schedule.

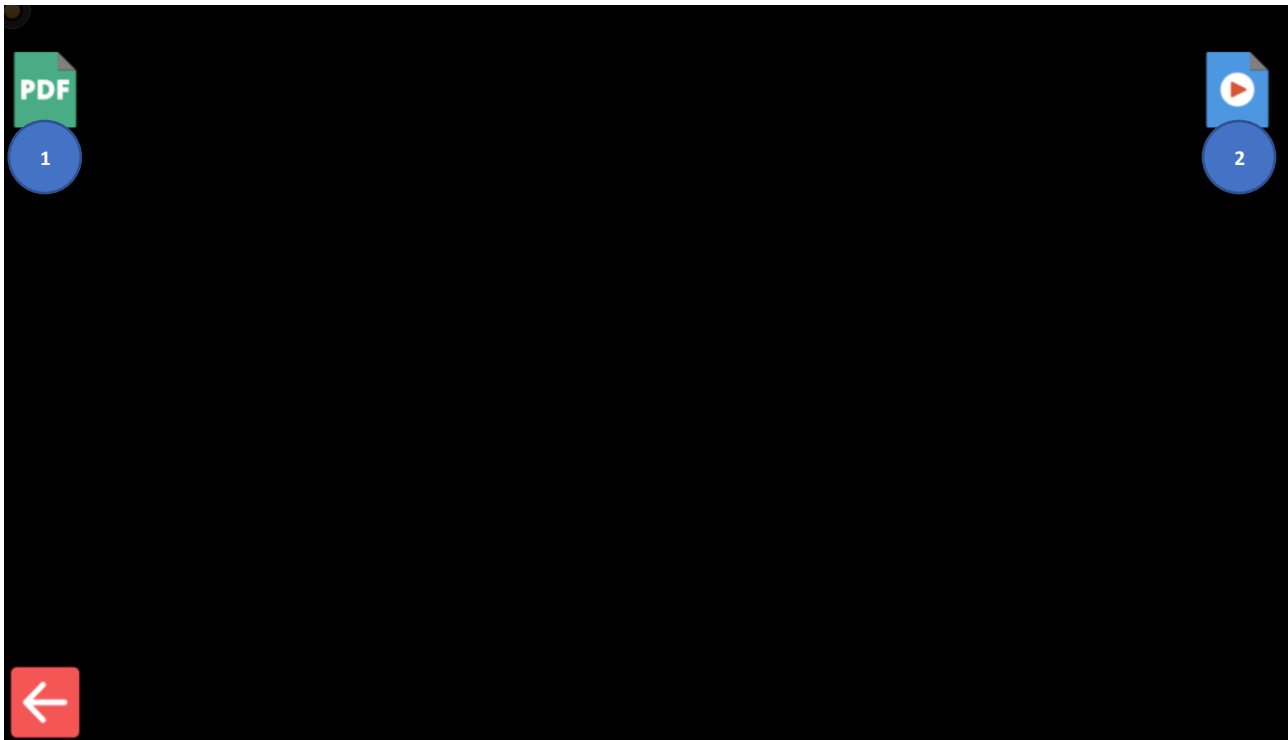


NOTE

The Signaling light will come on when:

- the current system time is within the time interval designated by the on and off time (item 1,2)
- the Active Rule field (item 3) is checked
- the Water Heating Schedule slider switch on the Pollution Measurement or Cleaning screens is in the on position

14.6.4.4 Documentation



1. PDF Button

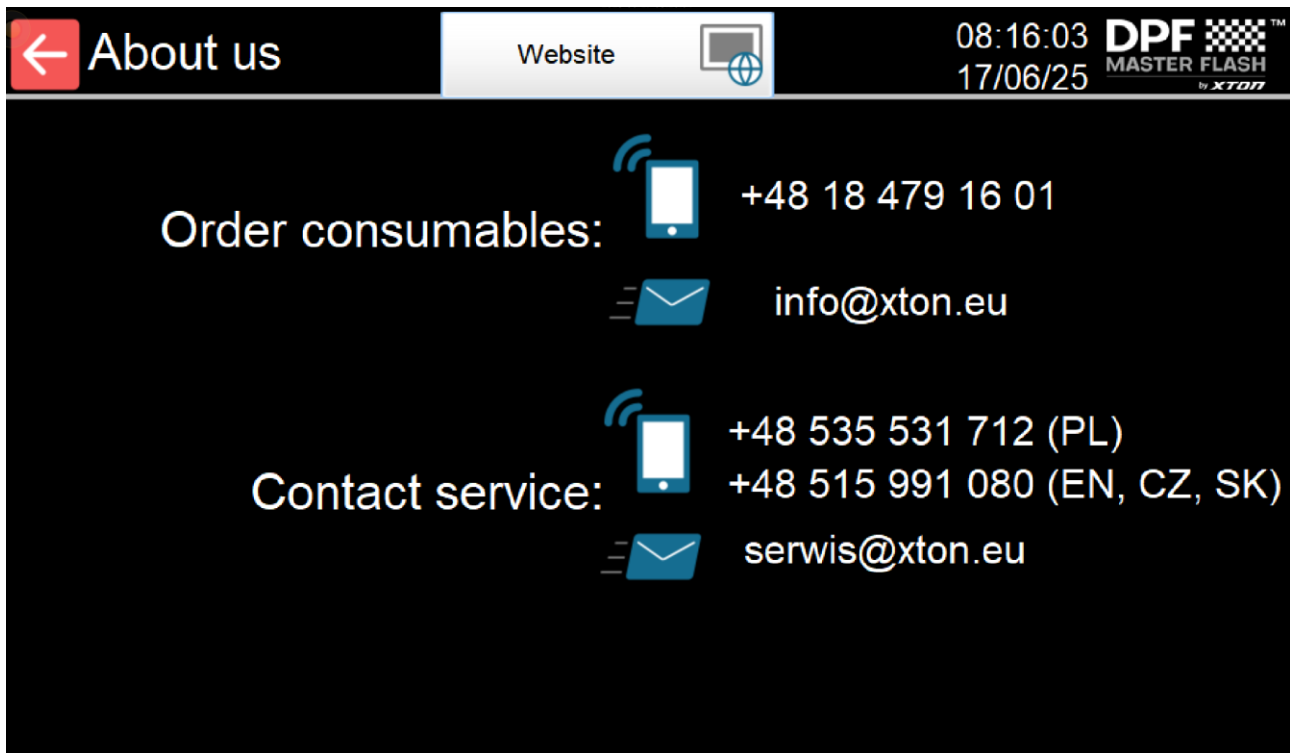
The button launches a preview of available PDF files on the USB storage device.

2. Player button

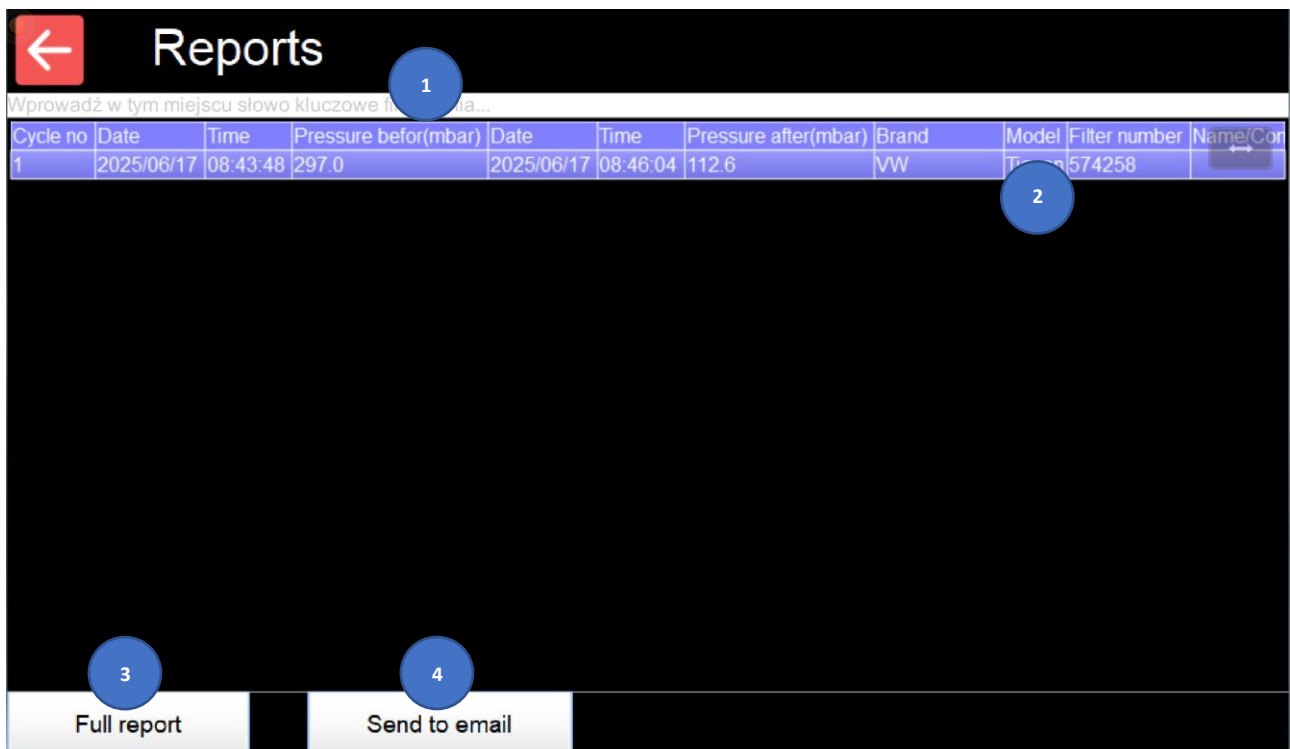
The button launches the media player, which automatically loads and plays video files on the connected USB mass storage device.

14.6.4.5 About Us

The About Us screen contains the manufacturer's contact information and the necessary information to order supplies.



14.6.4.6 Reports



1. Filter field for report list

When you enter a word in the search field, the history of available reports is filtered. In this case, only records containing the entered phrase are displayed in the list.

2. Report list

If the filtering field (item 1) is empty, the window shows the entire report history stored on the device and on the USB flash drive.

3. Comprehensive report

Pressing the button generates a complete list of reports and saves them to a USB flash drive.

4. Send to email

Press the button to send the list of reports as a CSV file to a pre-configured email address.



NOTE

Send email function only available on devices where the add-on options package was purchased during ordering.

14.6.5 Alarms screen

   Clear alarms Alarm list 8:58:49 7/06/25 DPF MASTER FLASH by XTON				
Occurred	Occurred	Subsided	Confirmation	Message
2025/06/17	08:56:26	08:57:41		K002 Door open!
2025/06/17	08:55:27	08:56:20		K002 Door open!
2025/06/17	08:55:04	08:55:18		K002 Door open!
2025/06/17	08:55:02	08:55:03		K002 Door open!
2025/06/17	08:54:51	08:54:55		K002 Door open!
2025/06/17	08:50:26	08:50:43		A001 Safety circuit interrupted

1. Alarms button

Pressing the button loads a screen with a list of all alarms that have occurred on the device.

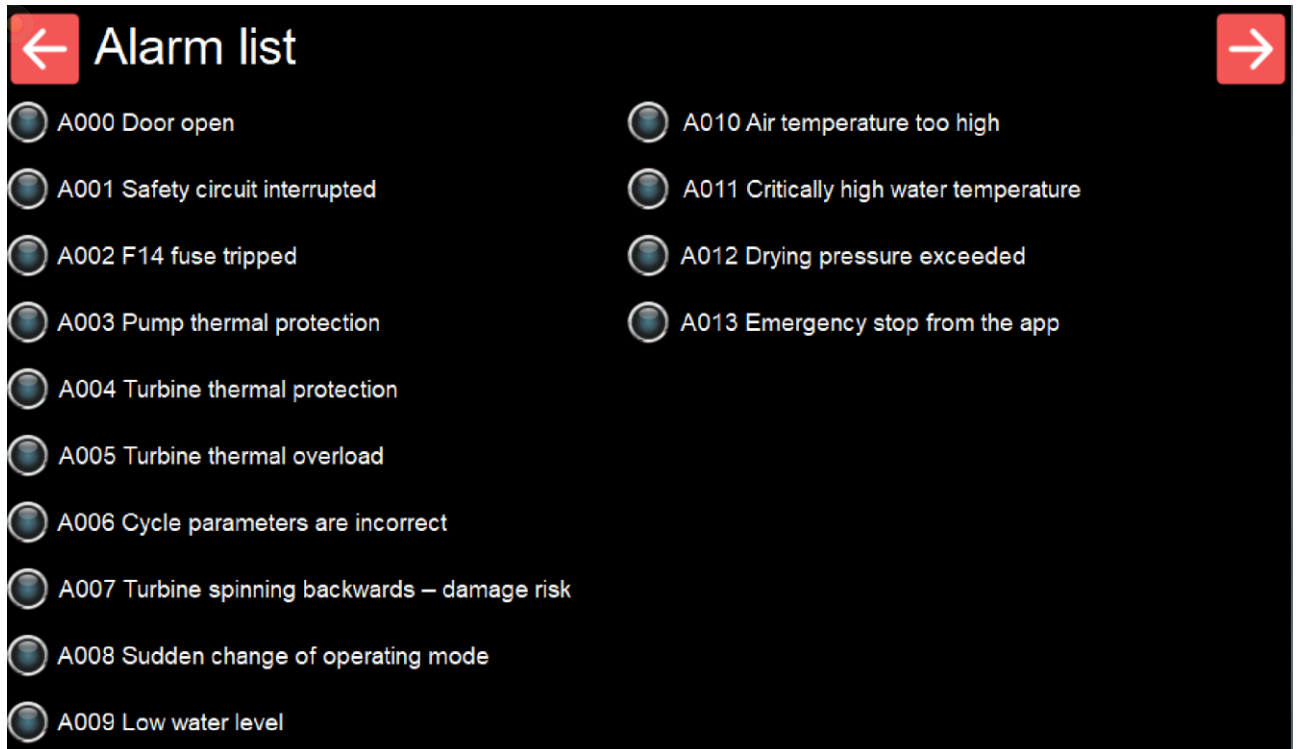
2. Clear alarms

The button clears active alarms that have ceased but have not yet been cleared.

The button complements the alarm reset function described in more detail in the description of the cleaning screen (14.6.2 item 3).

3. List of alarms

When the button is pressed, a window with a list and description of all alarms in the device is loaded. A glowing light next to the description indicates that the alarm is active.



A000 Open door

This alarm occurs if the unit's door is open in "AUTO" mode. Close the door and cancel the alarm.

A001 Safety circuit interrupted

This alarm occurs when the device is started or while the emergency safety switch (fig.2 item 16). is pressed. To delete it, you need to:

- check the position of the emergency safety switch - if it is depressed, turn it to the left
- press the RESET button - cancel the alarm on the touch panel



NOTE

If it is not possible to cancel the alarm, contact the manufacturer's service department.

A002 F14 fuse tripped

This alarm occurs if fuse F14 fails. You should contact the service center.

A003 Pump thermal protection

This alarm occurs when the water pump is overloaded. Possible causes:

- a) Service setting of the motor circuit breaker in the electrical cabinet

Check the setting of the PKZM0-6.3-EA motor circuit breaker, which is located in the electrical cabinet. The current adjuster (yellow color) should be in the "5.1" position. Set the value to "5.1 or higher" if necessary.

- b) Clogging of the suction basket at the bottom of the tank side wall
The suction basket should be mechanically cleaned.
- c) Compression of the hose between the tank and the water pump
Replace the suction hose with a new one.
- d) Heavily contaminated filter cartridges in the filter housing
Replace the cartridges with new ones and thoroughly clean the inside of the filter housing.
- e) Squeezed or damaged hose between filter housing and washing chamber
Replace with a new one.
- f) Clogged water outlet at the end of the hose in the washing chamber
The blockage / obstruction should be removed.
- g) Defective DPF filter no water flow.
Connect the filter on the other side, if the problem persists, disconnect the DPF and see if the flow is affected without the filter.



CAUTION

To cancel the alarm, open the electrical cabinet, locate the PKZM0-6.3-EA motor circuit breaker and set the switch lever to the "1" position, then press "CLEAR ALARM" on the monitor screen

A004 Turbine thermal protection

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

- a) Service alignment of the motor switch in the electrical cabinet Check the alignment of the PKZM0-10-EA motor switch, which is located in the electrical cabinet. The current adjuster (yellow color) should be in the "8" position. Set the value to "8 or higher" if necessary.
- b) Clogged side-channel turbine air intake.
Remove the rear inspection panel and check the patency of the intake basket, which is located on the intake port at the rear of the turbine.
Clean if necessary.
- c) Clogged air outlet at the end of the hose in the washing chamber.
The blanking plug should be removed.
- d) Damaged hose between the turbine and heater fittings at the rear of the unit.
Replace with a new one.
- e) Damaged hose between the pipe and the washing chamber.
Replace with a new one.
- f) Defective DPF, no airflow when measuring contamination level
Try connecting the DPF from the other side.
- g) Heavily clogged DPF with water after the cleaning process.
Unseal the connection between the hose and the DPF so that some of the air bypasses the DPF. You can use the convenient AD7 adapter (comes as an optional accessory), which will automatically adjust the drying pressure value so as not to overload the turbine motor.

A005 Thermal overload of the turbine

This alarm occurs if the turbine engine has been overheated. The alarm can be cleared when the motor winding temperature drops.

**CAUTION**

The alarm may occur during continuous operation of the turbine under heavy load. Avoid a situation where the turbine is loaded for a long time, i.e. the drying pressure value is about 220 mbar.

A006 Cycle parameters are incorrect

This alarm occurs if the values of individual cycle parameters are contradict each other or exceed the permissible values.

A007 Turbine spins backwards - risk of damage

This alarm occurs if the turbine engine spins in the wrong direction during initial startup or after replacement. Check that the direction of rotation is correct, if necessary, change the phase order at the motor terminals. During normal use, the alarm does not occur.

A008 Sudden mode change

This alarm occurs if the "AUTO"/ "SERVICE" or "CLEANING"/ "DRY" mode is switched during the process. Clear the alarm and continue working with the device.

**CAUTION**

Do not change the positions of the AUTO/SERVICE and CLEAN/DRY selectors during the process. Switching should be used after the currently running process is completed.

A009 Low liquid level

This alarm occurs if the water level in the tank drops below the minimum. It is then necessary to add about 50 liters of water and cancel the alarm. If the auto refill function is activated, the water in the tank will automatically refill.

A010 Air temperature too high

This alarm occurs if the air temperature exceeds the allowable value . Clear the alarm , disconnect the DPF and as soon as possible run (for about 3 minutes) the turbine in manual mode to cool the heater.

A011 Critically high water temperature

This alarm occurs when the temperature of the liquid has exceeded the permissible value - the operation of the pump and other components of the device is not possible.

A012 Drying pressure exceeded

Unseal the connection between the hose and the DPF so that some of the airbypasses the DPF. You can use the convenient AD7 adapter (comes as an optional accessory), which will automatically adjust the drying pressure value so that the drying pressure overrun alarm is not triggered.

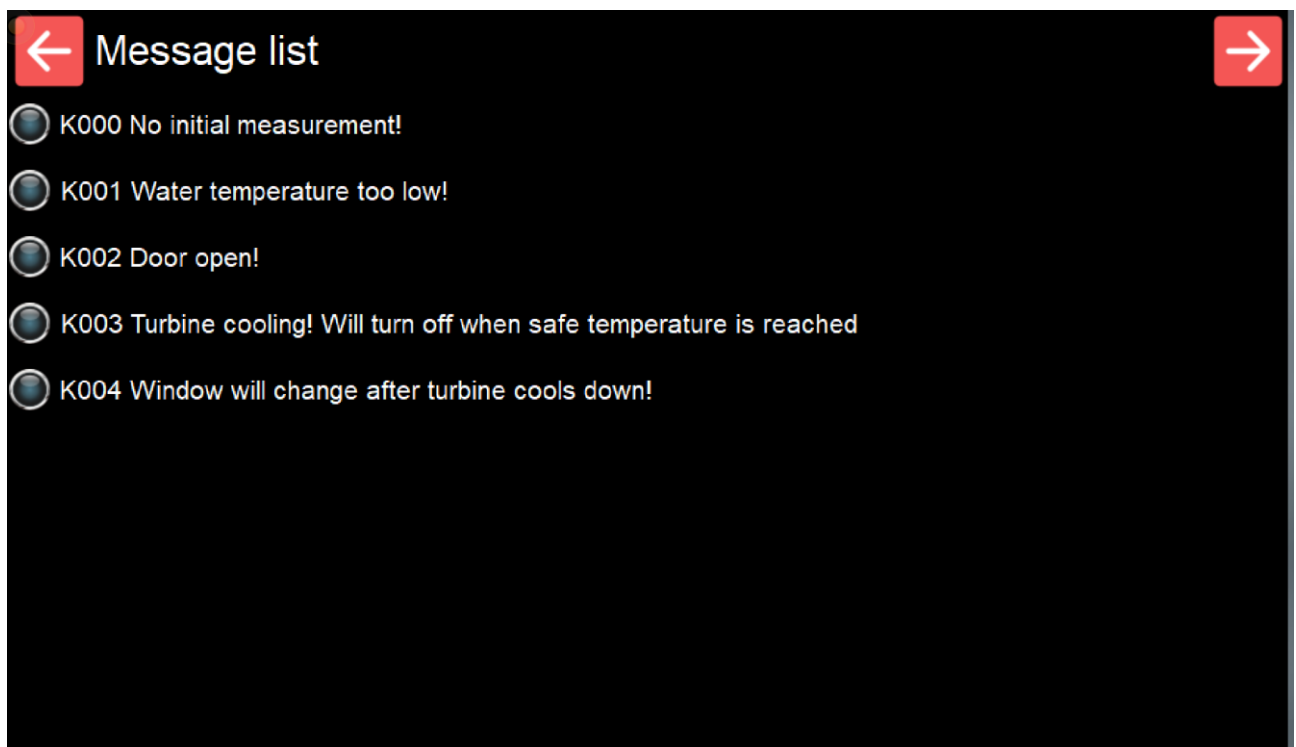
A013 Emergency stop from app

This alarm occurs when, during the operation of the device , a user with the appropriate remote management privileges, stops the process remotely using the mobile app.



NOTE

In the Alarm List window, an additional window with a list of messages has also been implemented. To open them, press the navigation arrow located in the upper right corner of the screen.

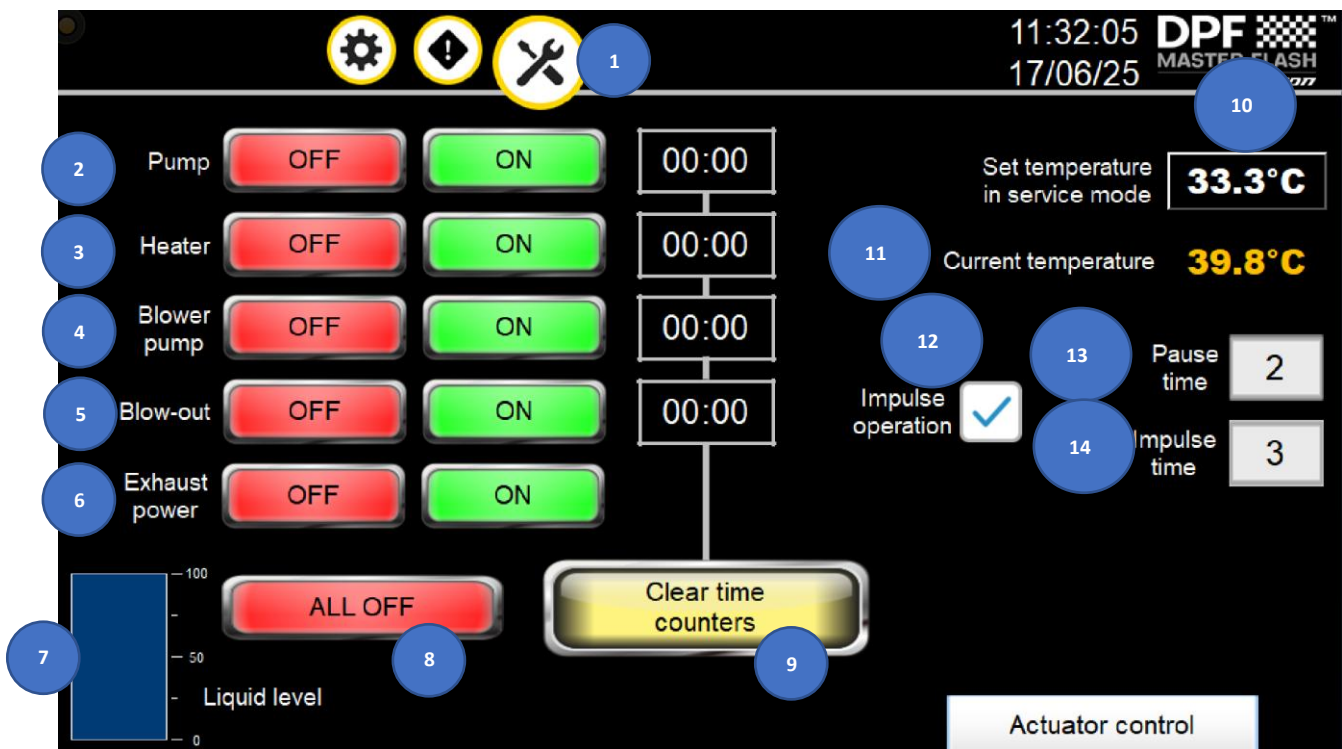


14.6.6 Service mode screen



SERVICE mode allows you to operate with the safety features regarding open doors disabled.
The operator should make a conscious decision about the dangers of working on an open door.
When working in SERVICE mode , be very careful.

The SERVICE mode screen allows you to perform the cleaning process manually and semi-automatically. This screen is particularly useful for filters with stubs whose length or shape does not allow them to be placed in the device chamber.



1. Service screen button

Pressing the button launches the service mode screen



NOTE

Button visible only when the key switch (fig.2 item 9) is in the SERVICE position.

2. Pump

On and Off buttons for the liquid pump

3. Heater

On and Off buttons for the heater

4. Blower pump

On and Off buttons for the side-channel turbine.



NOTE

Turbine activation does not activate the air heater. The maximum temperature generated by the turbine is about 40-90 °C(the temperature can fluctuate, depending on the type of DPF connected).

5. Blow-out

Buttons to turn compressed air blow-out on and off

6. Power supply to the fume extractor

On and off buttons.

7. Liquid level

Graphic representation of the liquid level in the tank

8. ALL OFF

Button to disable all running processes in SERVICE mode.

9. Clear time counters

Button to clear all time counters in SERVICE mode

10. Set temperature in service mode

This field allows you to set the temperature for SERVICE mode

**NOTE**

With respect to the settings on the pollution measurement and cleaning screen, the management of the set temperature in SERVICE mode is completely independent. Water heating works only when the Heater is on.

11. Current temperature

The liquid temperature value read from the temperature sensor.

12. Pulse operation

Checking the box activates the cyclic operation of the air control solenoid valve according to parameters 13 and 14.

13. Break time

A field for entering the value of the time between air strike pulses. The value expressed in seconds.

14. Pulse time

Field for entering the value of the duration of the shock pulse. The value expressed in seconds.

15. Disposal of the machine

The machine is built from the following materials:

- structural steel,
- stainless steel,
- electronics components,
- rubber,
- plastics.



DANGER

The machine must be disconnected from the electrical, pneumatic and water systems before disposal work is undertaken.



CAUTION

Appropriate hand and power tools, as well as personal protective equipment, should be used at each stage of dismantling and disposal.

Dismantling procedure:

1. Remove air and water lines.
2. Properly remove consumables.
3. Disassemble the device.
4. Transfer plastic items to a plastic recycling unit.
5. Hand over the metal parts to a metal recycling unit.
6. Dispose of electrical components and power cords as special waste or for electronic scrap.

16. Maintenance activities



NOTE

The machine should be kept clean and have proper supervision and maintenance. Regular inspection and maintenance can ensure long trouble-free operation of the machine.



Important for safety defects immediately remove or report for repair.

To ensure maximum uptime of the device, you should:

1. After each time the filter cartridges become clogged, thoroughly wash the filter container and the entire chamber of the device including the tank with clean water.
2. Before the start of each regeneration cycle, check the dirt status of the filter bags that are the initial liquid filtration system. When significant contamination is found, empty and clean the bags.
3. If the liquid is piled up inside the device chamber, check for blockages of the pre-filtration system. Clean if necessary. A heavily soiled pre-filtration system can contribute to fluid leakage from the wash chamber.
4. Change the water in the tank more often than the filters. Recommended is 3:1
5. Clean the entire water system at least once a month as follows:
 - a) pull out the filter cartridges,
 - b) clean the filter container, the device chamber and the tank thoroughly with clean water,
 - c) fill the tank with 50% clean water,
 - d) turn on the regeneration process without a DPF in place, without filter cartridges and without any cleaning agent,
 - e) the cleaning process should take 10 minutes,
 - f) pour the water out of the tank,
 - g) repeat points "c" through "f".
6. At least once a week check the level of condensate in the reducer dehumidifier. If the dehumidifier exceeds 2/3 of its capacity, it should be emptied. 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 turn it off until it is fully sealed.
7. Before each start-up of the device, check the dirt status of the pump suction basket. Clean if necessary.
8. If the machine is operated under harsh conditions, there is a possibility that maintenance work should take place more often than recommended.

17. Annexes

1. Declaration of Conformity.
2. Warranty Card.



WARRANTY CARD

1. The manufacturer guarantees the proper functioning of the equipment for a period of 12/24/36/48¹ months from the date of purchase.
Proper functioning is understood as the absence of physical defects in the sold item. The guarantor of the device sold under the name *DPF Master Flash Professional PLUS*, serial number, is "XTON S.C. Piotr Łukasik, Łukasz Basiaga", with its registered office in Nowy Sącz, ul. Żwirki 31, 33-300 Nowy Sącz, NIP: 734-347-82-42, REGON: 121453788.
2. Any defects revealed during the warranty period will be repaired by an authorized service center indicated by XTON.
Repairs will generally be carried out at the User's location, and the User is required to provide access to the service technicians mentioned above to perform the necessary work. If repair at the User's location is not possible, the User must deliver the device to the Guarantor's premises—at the Guarantor's expense.
3. Any malfunction or defect occurring during the warranty period and covered by the warranty terms will be repaired by the Manufacturer or its authorized service center free of charge (except for cases listed in point 14 of this Warranty Card), including the cost of spare parts and labor. Repairs will be recorded in the warranty card.
4. Faults will be repaired by repairing the damaged components of the device or replacing them with new, defect-free, or factory-refurbished parts approved by the Manufacturer. Replacement of the entire device or a component with a new, defect-free one will only occur after two unsuccessful repair attempts of the same component.
5. If damage is found to be caused by the User, the cost of parts and repair will be borne by the User.
6. During the warranty period, the Manufacturer commits to a service response time of no more than 48 business hours from the moment the defect is reported (i.e. Monday through Friday). Saturdays, Sundays, and public holidays are excluded from the response time, and the countdown pauses during these days.
7. Repairs should be completed within 21 business days from the date of reporting the defect. This time may be extended for reasons beyond the Guarantor's control, e.g. delivery time for replacement parts. In such cases, the Manufacturer will inform the User.
8. Service requests must be submitted via the service form available on the XTON S.C. website (www.xton.eu) or sent to the email address: serwis@xton.eu. The request must include the device model, serial number, customer information, contact person's details, and a description of the problem/defect.
9. If the Guarantor replaces a defective item with a new one or carries out significant repairs, the warranty period restarts from the date of delivery of the replaced or repaired product. In the case of replacing an individual part, the warranty for that part restarts.
10. The warranty does not cover activities that the User is obligated to perform themselves according to the operating manual, such as replacing filters.
11. Defects must be reported immediately upon detection, but no later than 7 days from the moment the defect is discovered. Use of the device must be discontinued, or the warranty rights may be voided, and the liability of the seller and manufacturer may be limited for using a defective device.
12. The warranty does not cover loss of profits resulting from machine failure or reduced efficiency, delays in delivery of spare parts, or third-party damage due to these reasons. Costs related to the rental and delivery of a replacement machine are also excluded.
- ¹ Depending on the concluded agreement. If no agreement is in place, the warranty period is 12 months.
14. Any cleaning of the equipment is performed at the User's expense according to the current service price list and is not considered a warranty service.

15. The warranty does not cover:
 - a. Damage or defects caused by:
 - Mechanical damage
 - Improper use, maintenance, or storage not in accordance with the operating manual
 - User's negligence or misuse
 - Random events (e.g., fire, flood, water damage)
 - Improper installation not in accordance with the manual
 - Use of consumables not recommended by the Manufacturer
 - Unauthorized repairs by the User or third parties
 - Modifications or structural changes made by entities other than the Manufacturer or its authorized service center
 - b. Consumable items and parts that wear out naturally during proper use of the device, especially but not limited to:
 - Gaskets
 - Filters
 - Rubber or pressure hoses
 - Adapters with clamps
 - Locking clasps
16. The Manufacturer does not allow Users to carry out repairs on their own without prior consultation with authorized service. Unauthorized repairs result in loss of warranty rights.
17. For this warranty to be valid, the following conditions must be met:
 - a. The warranty must be signed by the purchaser,
 - b. The warranty card must be fully and correctly completed,
 - c. The purchaser must possess proof of purchase of the product covered by this warranty,
 - d. The confirmation of electrical installation performed by a licensed installer must be correctly completed in the user manual, including license numbers and the installer's stamp.
18. This warranty is valid only within the territory of the Republic of Poland.
19. In the event of non-conformity of the sold item with the contract, the buyer has statutory rights at the expense of the Seller (warranty for defects), and the Manufacturer's warranty does not affect these statutory rights. The rights granted under the warranty are independent of the statutory rights related to the warranty for defects in the sold item. This means that if the User's claim is rejected under the warranty, they still have the right to pursue claims under statutory warranty—unless such liability has been excluded under Article 558 of the Civil Code.

.....
Seller's signature

.....
Buyer's signature



DECLARATION OF CONFORMITY

NUMBER: 28/03/2023

MANUFACTURER:

XTON S.C.
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PRODUCT:

DPF MASTER FLASH PROFESSIONAL PLUS machine
for regeneration and cleaning of diesel particulate filters (DPF, FAP, GFP) and
catalytic converters
Model: DPF300

We hereby declare, under our sole responsibility, that the product referred to in
this declaration complies with the following directives and standards:

DIRECTIVES:

2006/42/EC – Machinery Directive
2014/30/EU – Electromagnetic Compatibility Directive (EMC)
2014/35/EU – Low Voltage Directive

STANDARDS:

PN-EN 60204-1 – Safety of machinery – Electrical equipment of machines
PN-EN 13849-1:2016-02 – Safety-related parts of control systems
PN-EN 62061:2008 – Functional safety of safety-related electrical, electronic and
programmable electronic control systems
PN-EN 60947-1:2010/A1:2011 – Low-voltage switchgear and controlgear



Nowy Sącz, 17 03 2023