# USER MANUAL

*(Original manual)*

AQUA BLASTER™ by XTON




## AQUABLASTER

Enclosed water sandblaster

Model: AB1000

2nd Edition / October 2026

# 1. Contents


1. Contents ..... 2
2. Introduction ..... 4
3. Description of safety symbols used in this manual ..... 4
4. Important information ..... 5
5. Intended use of the appliance ..... 5
6. Transport and storage ..... 6
7. General construction ..... 6
8. User interface ..... 13
8.1 Work screen ..... 13
8.2 Additional options screen ..... 16
9. Principle of operation. ..... 17
10. Abrasive blasting parameters ..... 17
9.1 Operating pressure ..... 17
9.2 Type of abrasive ..... 18
9.3 Abrasive grain size ..... 18
9.4 Compressed air performance and stability ..... 19
9.5 Abrasive usage ..... 19
9.6 Angle of incidence and distance of the nozzle from the surface ..... 19
11. Technical specifications ..... 20
12. Operational safety. ..... 21
12.1 Safety instructions. ..... 21
12.2 Hazards. ..... 22
12.3 Preventative measures. ..... 22
12.4 Precautions to prevent eye irritation or hand injury ..... 23
12.5 Warning labelling – pictograms ..... 23
13. Preparation for commissioning. ..... 24
14. Initial start-up and operation. ..... 25
15. Day-to-day operation. ..... 28
16. Maintenance, inspection and repair. ..... 29
17. Maintenance and servicing. ..... 29
18. Common problems with water sandblasters – solutions. ..... 29
19. Manufacturer's final remarks. ..... 31
20. Disposal of the machine ..... 31
21. Declaration of conformity. ..... 32
22. Warranty card ..... 33

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## 2. Introduction

The purpose of this manual is to familiarise the user with the design, operation and correct and safe use of the cab-mounted water sandblaster throughout its entire service life, both during the period covered by the manufacturer's warranty and in the post-warranty period. Please note that compliance with the assessments and guidelines contained in this manual is one of the user's fundamental responsibilities, which are required and subject to inspection by the manufacturer's service teams during the warranty period. All persons authorised to operate this equipment, including technical staff and management, should familiarise themselves with this documentation.

## 3. Description of safety symbols used in the manual

Safety instructions are marked with a warning symbol and a signal word. The signal word (DANGER, WARNING, CAUTION) indicates the severity of the potential hazard and has the following meanings:



DANGER

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

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



WARNING

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

Failure to follow this instruction may result in loss of life or injury.



CAUTION

Indicates a low-risk hazard which may result in minor or moderate injury or damage to property if not prevented.

Failure to follow this instruction may result in personal injury.

Important information, instructions, recommendations and notes are marked with an information symbol and a signal word, the meanings of which are set out below:



IMPORTANT

Indicates information and instructions that are essential for maintaining the machine in good working order or that facilitate its correct use, optimisation of operation or storage. Failure to follow this instruction will prevent the machine from being used to its full potential or may lead to disruption of the process, damage to the machine or the surrounding area.

## 4. Important information

The user takes delivery of the equipment in accordance with the procedure set out in the handover protocol or another form agreed with the manufacturer, confirming receipt of the product.

Upon acceptance of the equipment, the user should:

1. check that the product complies with the order and assess its technical condition.
2. check that all technical equipment supplied with the device is present. In the event of any discrepancies or non-conformities are found, these must be reported to the manufacturer immediately and noted in the acceptance report,
3. check that all signatures and stamps are present in the technical and operational documentation and the product's warranty certificate,
4. check that the documentation received is complete,
5. carry out a test run of the equipment.

The scope of supply includes:

1. a complete cabin-type water sandblaster
2. an operating manual
3. a CE Declaration of Conformity
4. a warranty certificate for the machine

## 5. Intended use of the machine

The enclosed water sandblasting machine is a device designed for the precise cleaning and polishing of the surfaces of various types of metal components and selected non-metallic materials.
It is particularly suited to applications where the original structure of the workpiece must be preserved.
The processing takes place in a closed work cabin, ensuring operator safety, repeatability and control over operating parameters. The machine utilises a water-abrasive jet
assisted by compressed air to impart the appropriate kinetic energy to the abrasive. Using the built-in pressure regulator, the treatment results can be adjusted to suit individual preferences
The range of applications for the sandblaster depends on the grain size and type of abrasive used, allowing the process to be tailored to a specific material and the desired end result.

# 6. Transport and storage

The cabin-type water-blasting machine is intended for use exclusively in workshop premises or production halls equipped with extraction and supply ventilation systems. The equipment must not be stored outdoors. In situations requiring short-term storage (no longer than 7 days) outdoors, the unit must be placed under a canopy and covered with a protective material to shield it from adverse weather conditions.

If it is necessary to move the sand spreader, the machine must be transported in an upright position (its natural operating position) using a forklift or pallet truck. The machine must have its doors closed when prepared for transport. When carrying out loading and transport operations, take into account the unit's own weight and its centre of gravity, and exercise due care. When carrying out these operations, always observe all required safety measures and health and safety regulations.



NOTE

The manufacturer accepts no liability for damage resulting from the user's improper transport or storage of the unit.

# 7. General construction

All structural components of the unit are made of stainless steel.
On the front panel of the unit there is a glass pane (set in a removable seal) which acts as a viewing window. Above the viewing window is a control panel fitted with a main switch, a safety switch, a touchscreen control panel, function switches and a pressure regulator. On the right and left sides of the chamber are large access doors, used for loading the items to be cleaned.

The water-based cabin sandblasting machine comprises the following components:

- Working pump
- Circulation pump
- Viewing window
- Control panel
- Pressure control valve
- Foot switch
- Lockable working chamber
- Filter tanks

The cabin contains:

- A spray gun fitted with a handle
- A compressed air blow-off gun
- A rinsing lance
- Two-part worktop
- Working tank (underneath the worktops)
- Rotating basket (optional extra)
- Work gun stand (optional extra)

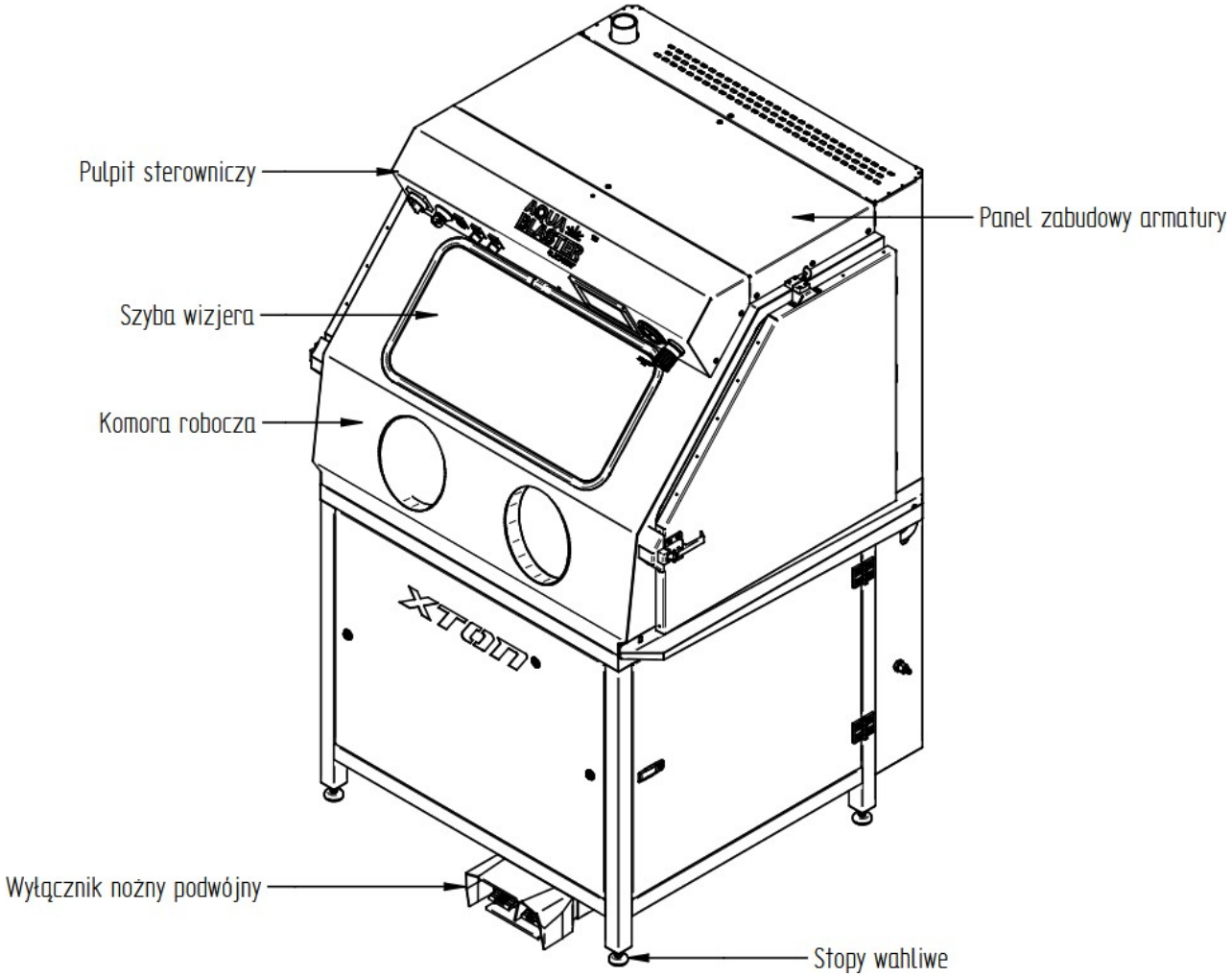



*Figure 1. Isometric view*

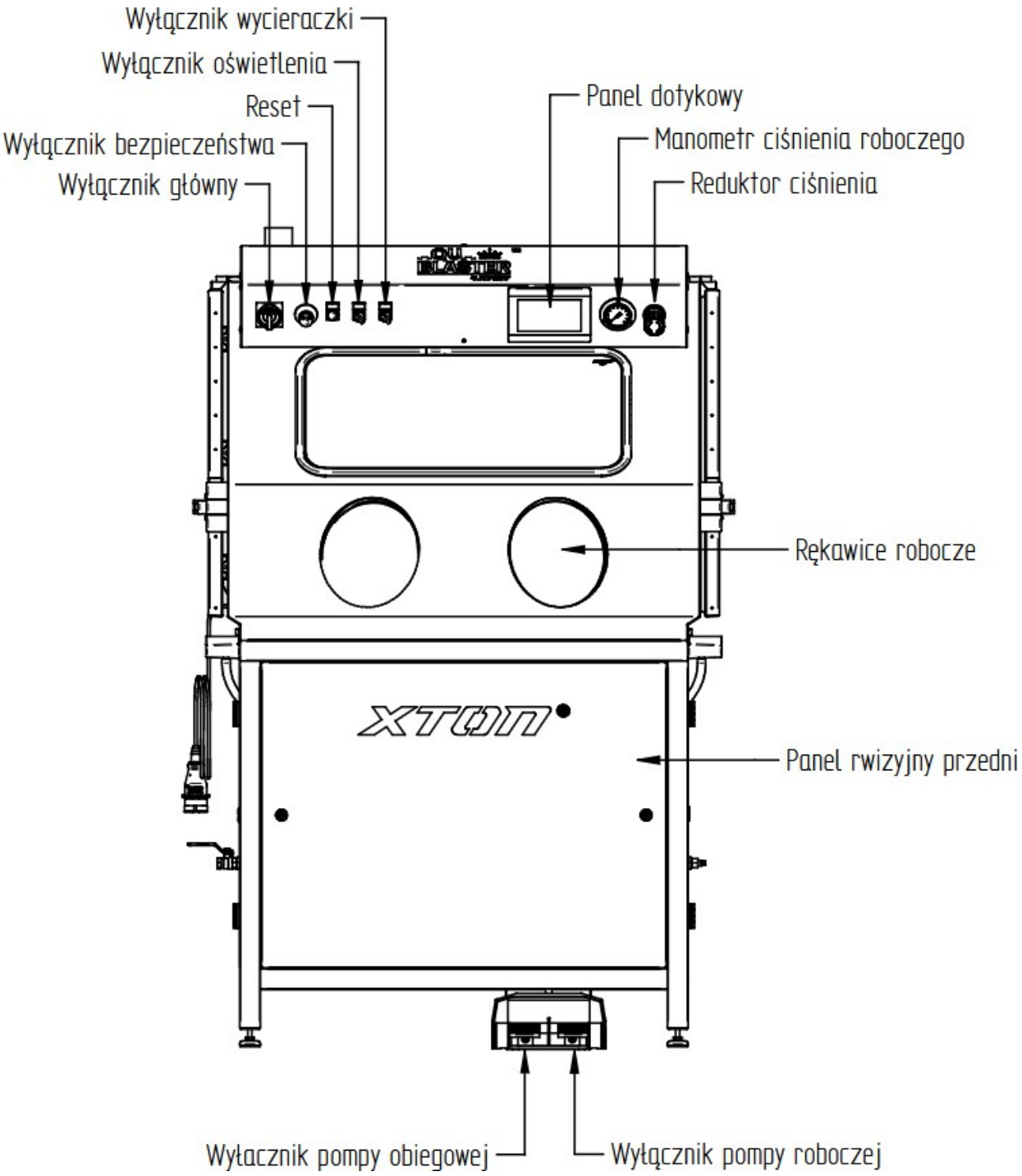



*Figure 2. Front view*

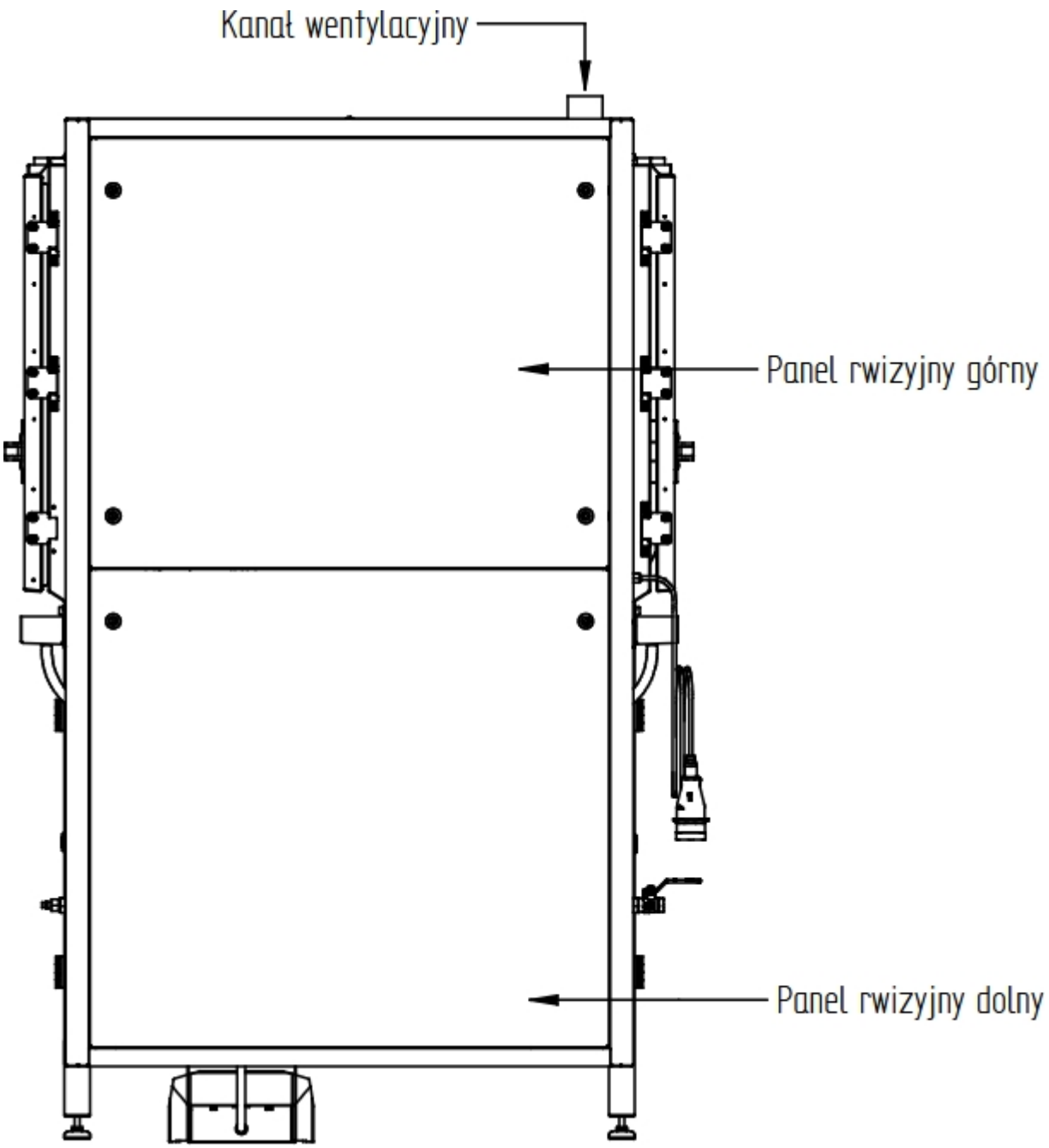



*Figure 3. Rear view*

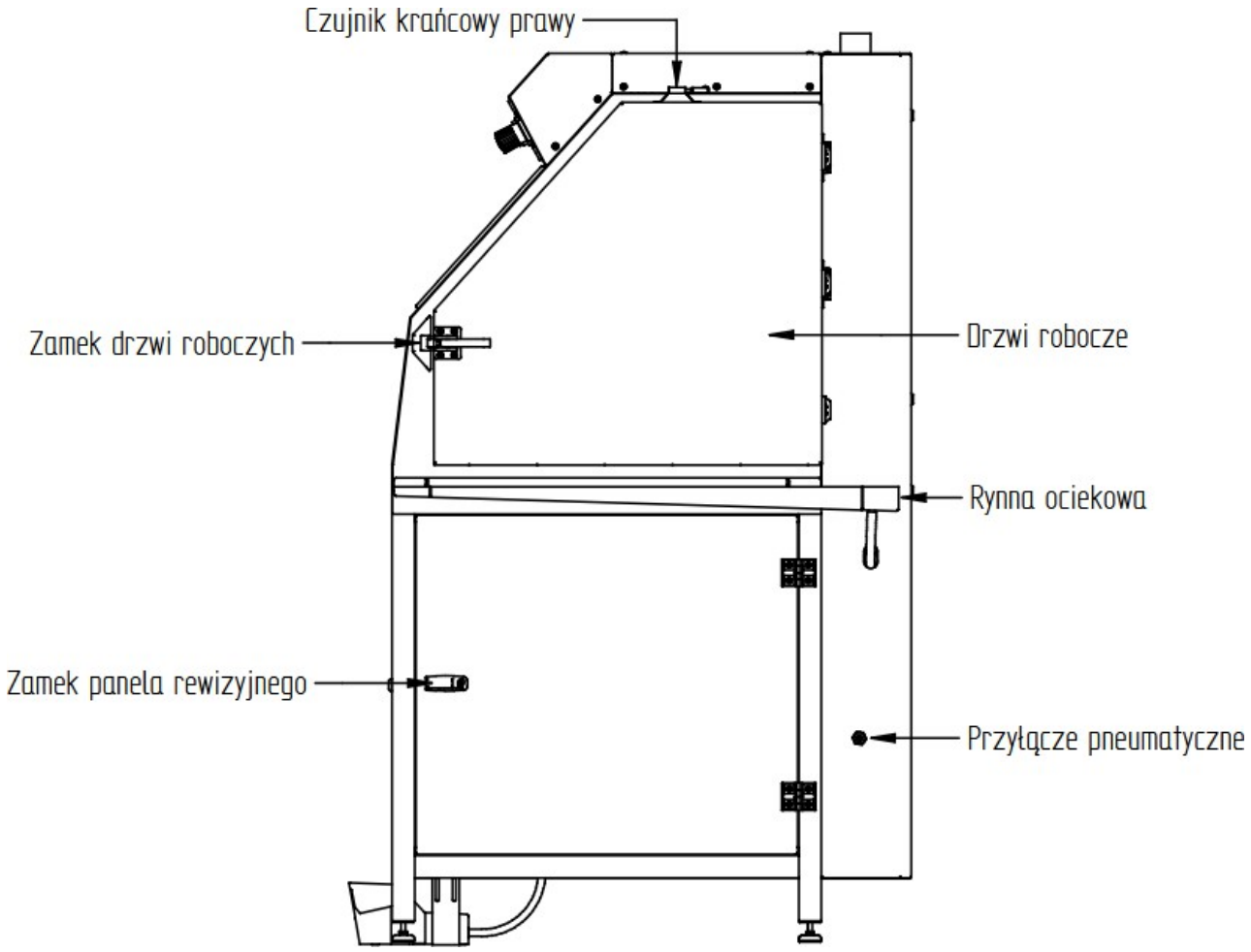



*Figure 4. General view from the right-hand side*

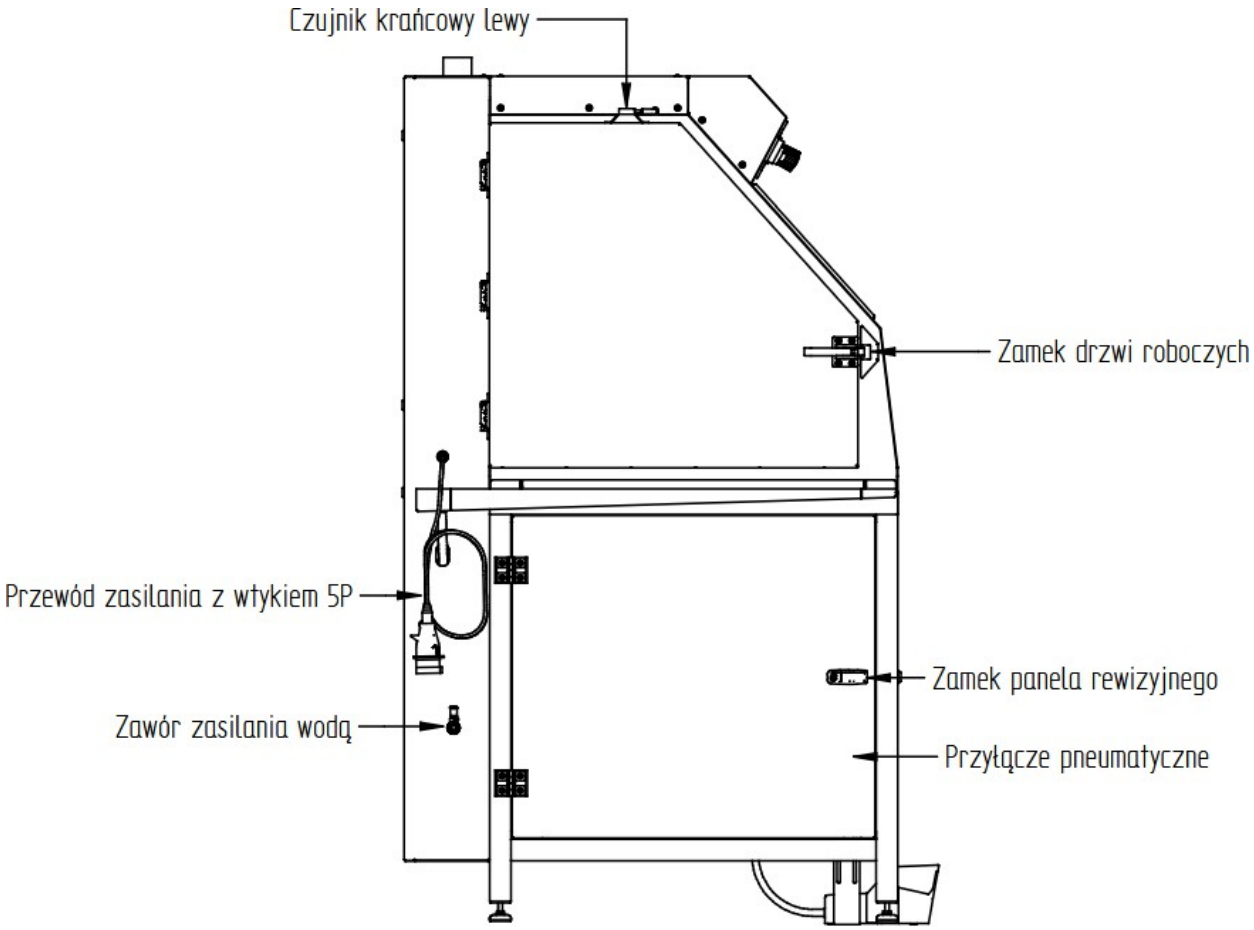



*Figure 5. General view from the left side*

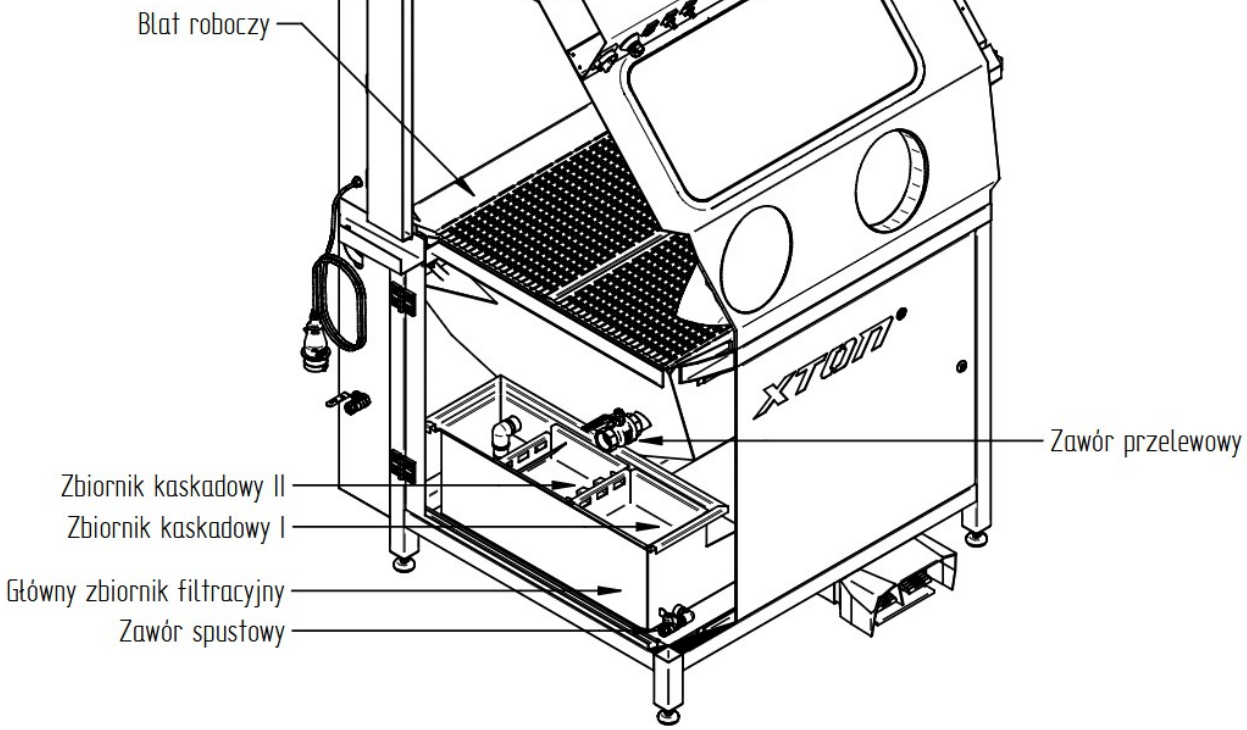
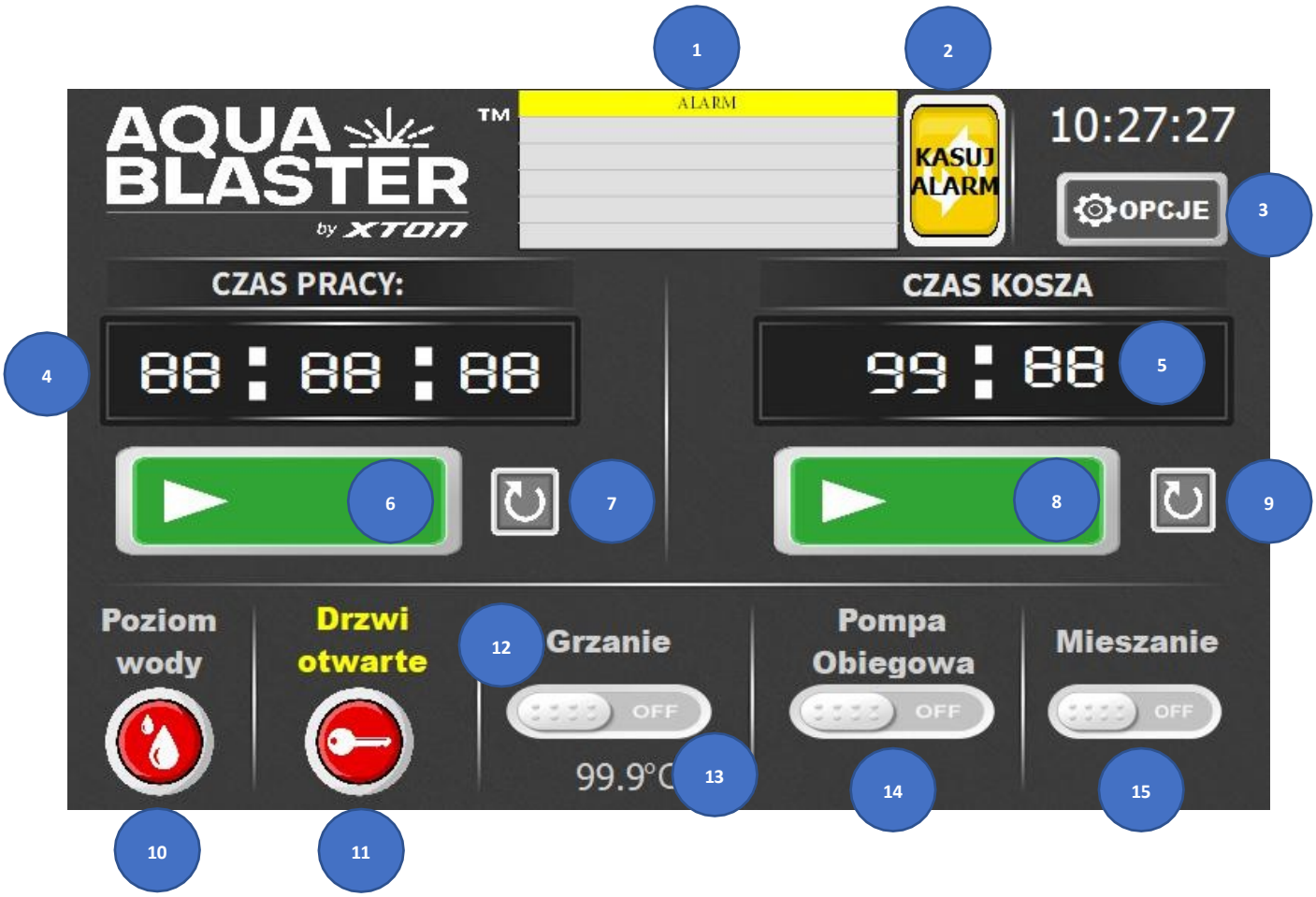



*Figure 6. Side view of the unit (left-hand side)*

# 8. User interface

## 8.1 Operating screen




1. **Alarms Panel**
   This field displays a list of all alarms and information messages regarding the device's status.
2. **Clear Alarm Button**
   Used to clear all alarm messages displayed in the alarm list.

IMPORTANT

This button clears alarm messages only if the RESET button on the device's control panel has been pressed beforehand. The RESET procedure is always required after starting the device or pressing the emergency stop (E-Stop) button.

3. **Options button**
   Button that brings up the additional options screen
4. **Operating time counter**
   This field displays the operating time from the moment the start button is pressed.
5. **Rotating basket operating time programmer***
   After clicking in the field, enter the duration for which the rotating bin is to be programmed. Once the bin is activated, the field counts down the time remaining until the end of the cleaning cycle using the rotating bin.
6. **Operating time counter button**
   Pressing this button starts the operating time counter.



IMPORTANT

Whilst the countdown is active, the button changes to a pause icon and functions as such. Whilst the pause function is active, pressing the right-hand foot switch (to switch on the working pump) reactivates the timer without resetting the previous time value.

7. **Operating time counter reset button**
   Pressing this button resets the operating time counter.
8. **Automatic rotating basket operation button ***
   Pressing this button starts the cleaning process, including the rotation of the hopper, for the duration specified in the programmable field.



IMPORTANT

This function does not work if the door is open.
The cleaning cycle with the rotating basket function will be interrupted if the door is opened whilst it is in progress, or if the liquid level falls below the required level.



During cleaning with the rotating basket function enabled, the button changes to a pause icon and acts as such. The basket's operation can be paused and restarted.

9. **Button to reset the rotating basket operating timer**
   Pressing this button resets the timer to the default value set by the user in the programmer field
10. **Water level indicator**
    The indicator shows whether the liquid level in the working tank is correct or too low by changing the colour of the icon.

11. **Working door open indicator**
    The indicator shows whether the door is open or closed by changing the colour of the icon.



IMPORTANT

An open door will prevent the machine from starting, both in manual mode and in automatic mode using the rotary hopper.

12. **Heating slider button**
    Used to switch the heating of the fluid in the unit's tank on or off.
13. **Working fluid temperature**
    This field displays the current temperature of the working fluid
14. **Circulation pump slide switch**
    Used to switch the circulation pump on or off.
15. **Mixing slide switch**
    Used to switch the compressed air pulse supplied to the tank on or off in order to break up any clumping of the abrasive material.

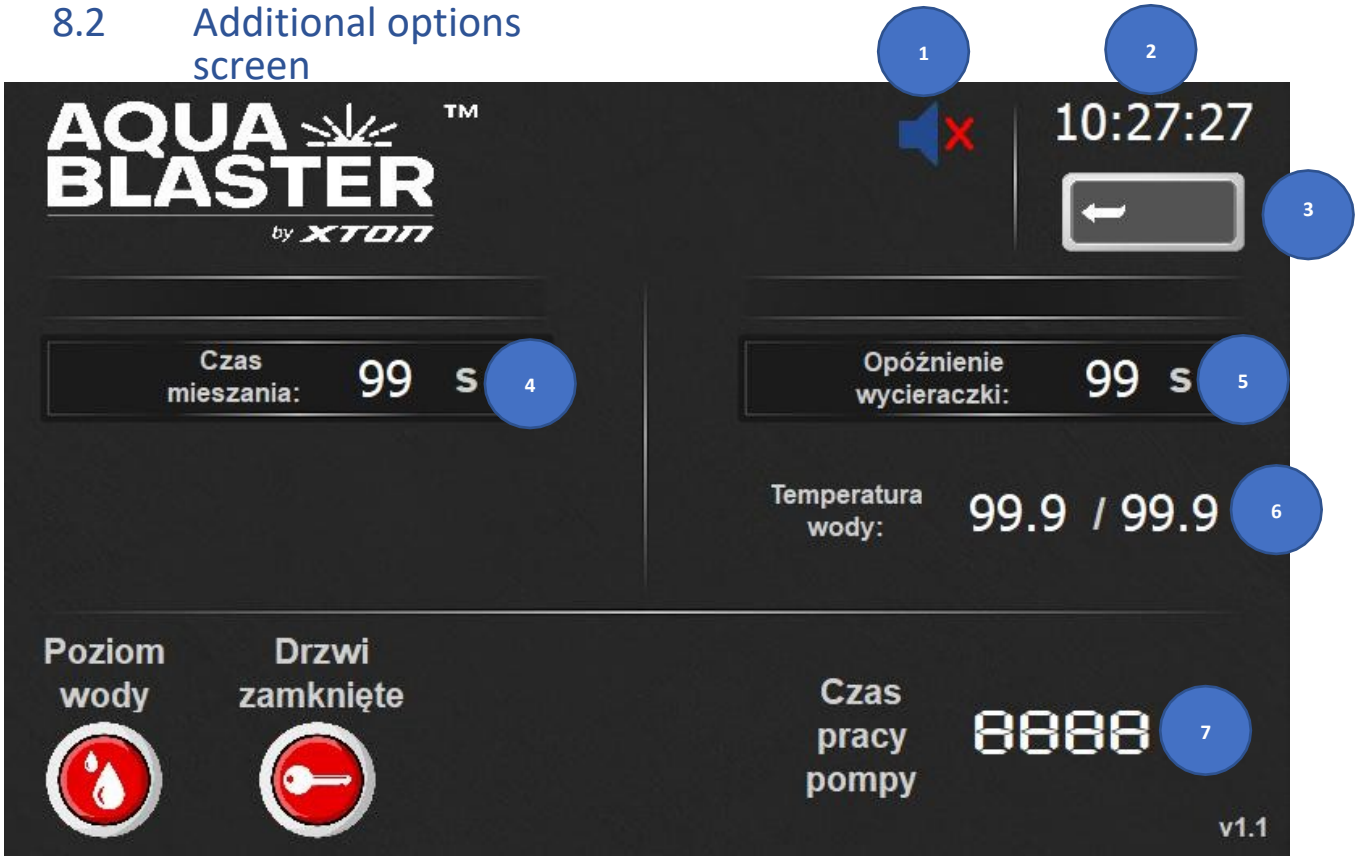


IMPORTANT

This function assists in starting the pressure-mixing pump – particularly useful after the unit has been out of use for a long time.
The mixing function is activated automatically each time the
the unit.

* – optional extra

## 8.2 Additional options screen




1. **Alarm muting**
   Pressing this button enables or disables the mute function for the audible alarm during an alarm
2. **Time**
   Field for setting the time
3. **Back button**
   Pressing the back button returns you to the main screen
4. **Mixing time**
   Field for setting the mixing time for the abrasive in the working tank.
5. **Wiper delay**
   Field for setting the delay before the wiper switches off in automatic mode.
   The value entered corresponds to the delay before the wiper switches off once the working pump has finished operating.
6. **Water temperature**
   Field for setting the target temperature of the working fluid.
7. **Pump operating time counter**
   The counter displays the total operating time of the delivery and mixing pump. Based on this reading, you should schedule periodic inspections of the pump or other components, unless otherwise specified in the manual.

# 9. Principle of operation.

A special mixing and pumping unit feeds the abrasive material together with water to the spray gun, where the mixture is accelerated by compressed air. The nozzle outlet of the spray gun generates a concentrated water-abrasive jet with kinetic energy, enabling effective action on the surface being treated.



IMPORTANT

A pneumatic system supplying compressed air at low flow rates may result in:

- insufficient energy to remove heavy contaminants,
- an inefficient abrasive blasting process

The cleaning process takes place in an enclosed working space, which ensures:

- consistent operating conditions,
- control of process parameters,
- abrasive recirculation,
- operator safety.

The effectiveness of the process depends on operating parameters such as: operating pressure, type and particle size of the abrasive, compressed air flow rate, and the technique used to direct the jet.

# 10. Abrasive blasting parameters

## 9.1 Working pressure

Operating pressure is one of the most important parameters determining the impact energy of the abrasive grains. For heavily corroded, rust-covered steel surfaces, a significantly higher pressure range of 4–10 bar is recommended. Surfaces of non-ferrous metal alloys covered with an oxide film should be cleaned using a lower pressure in the range of 1.5–5 bar.



IMPORTANT

Excessively high pressure may lead to:

- excessive roughness,
- changes to the surface structure of the workpiece,
- localised material loss,
- excessive breakage of the abrasive material

## 9.2 Type of abrasive

The choice of abrasive has a direct impact on the aggressiveness of the process, surface quality and the wear and tear of the machine's consumable components.
In the Aquablaster water blasting machine, abrasives with rounded shapes, such as glass or ceramic microspheres, should be used. Glass microspheres are the recommended material as they offer the best value for money in terms of treatment results. Blasting with glass microspheres is intended for gentle surface treatment without damaging the structure of the base material.

Typical applications of the Aquablaster water blasting machine fitted with glass microbeads:

- cleaning components made of stainless steel, aluminium, brass and light alloys,
- removal of light soiling, tarnish, discolouration and residues from mechanical machining,
- satin finishing and smoothing of surfaces,
- restoration of decorative components,
- preparing surfaces for further processing (e.g. passivation, painting). Treatment result:

A uniform, smooth surface with an attractive, glossy finish, free from material loss.



IMPORTANT

Sand, corundum and crushed shot must not be used in the Aquablaster water blasting machine.
The use of sharp-edged abrasives may lead to premature wear of the machine's consumable parts, jamming of the impeller or damage to the tank lining.

## 9.3 Abrasive grain size

The grain size of the abrasive affects both the speed of the process and the surface finish after treatment.

- Coarser grit:
    - greater effectiveness in cases of severe corrosion,
    - faster processing speed,
    - greater surface roughness,
    - greater localised material loss

- Finer grit size:
    - greater process control,
    - better finish quality,
    - lower risk of damage to the workpiece,
    - better penetration of pitting corrosion and tight recesses

## 9.4 Compressed air performance and stability

Consistent compressed air output ensures:

- a consistent working flow,
- repeatability of machining results,
- a stable abrasive outlet velocity,

Pressure drops or insufficient compressor output lead to:

- uneven cleaning,
- lengthened processing time,
- a reduction in the surface quality of the workpiece

## 9.5 Abrasive consumption

Abrasive wear indirectly affects the surface quality of the workpiece. New abrasive generally produces the desired surface brightening or polishing effect during the cleaning process. Worn-out abrasive, broken down into smaller, sharp-edged particles, can still be used to clean dirty or corroded workpieces, but the surface takes on a satin or semi-matt finish after processing.



IMPORTANT

A worn nozzle causes the jet to scatter and reduces the effectiveness of the process.

## 9.6 Angle of incidence and distance of the nozzle from the surface

The technique used to guide the jet affects the quality of cleaning and the consumption of abrasive.
For steel surfaces, a shallower jet angle is recommended, as this helps to dislodge the layers to be removed.
When cleaning non-ferrous metal surfaces, it is recommended to guide the nozzle at a steeper angle and from a greater distance from the object being cleaned – this reduces the aggressiveness of the impact

(particularly useful in critical areas, i.e. bearing seats, bushings and bearing shells, where maintaining dimensional tolerances is crucial).

IMPORTANT

If the distance between the spray gun nozzle and the workpiece is too small, and the operating pressure is too high, this may cause localised erosion of the material.

## 11. Technical specifications.

| TECHNICAL DATA | |
|---|---|
| **Model** | **AQUABLASTER AB1000** |
| Overall width | 1330 mm |
| Overall width (with one service door open) | 2120 mm |
| Overall depth | 1240 mm |
| Overall height | 2000 mm |
| Work table width | 1090 mm |
| Work table depth | 940 mm |
| Working height | 800 mm |
| Net weight | 420 kg |
| Working medium volume (water + abrasive) | 110 l |
| Filter tank capacity filter tanks | 50 l |
| Working pressure adjustment | 0–10 bar |
| Noise level | <70 dB |
| Spray gun nozzle diameter | 10–12 mm |
| Air requirement | 450–2000 l/min |
| Operating pressure | 1–10 bar |
| Heater power | 800 W |
| Working pump capacity | 40 l/min |
| Supply voltage | 400 V (3L+N+PE) |
| Power consumption (at full load) | 3.8 kW |
| Recommended abrasive | glass microbeads |
| Recommended abrasive feed weight | 15 kg |
| Protection rating | IP-54 |
| Required overcurrent protection overcurrent protection | B 16 A |

# 12. Operational safety.

Before using the equipment, you must read the operating instructions and familiarise yourself with the applicable safety requirements for this workstation.

## 12.1 Operational safety requirements.

A. The sandblaster is designed for wet abrasive blasting using abrasive media, compressed air and water.
B. The sandblasting machine must be stored and used in a dry, dark place, not exposed to temperatures below 5°C.
C. The sandblaster must be placed on a level surface.
D. High-quality abrasives, free from foreign matter, must be used when operating the machine.

Before using the sandblaster, you must:

A. Read the operating instructions.
B. Always wear gloves and safety goggles.
C. Do not open the working door whilst the machine is in operation.
D. In the event of a fault, press the 'emergency stop' button immediately.



IMPORTANT

Read and follow the instructions on the labels attached to the device.

For safety reasons and to ensure the correct operation of the machine, please observe the following points:

1. Do not cover the labels on the machine; if they are damaged, replace them immediately with new ones.
2. Do not lean against the device whilst it is live.
3. Do not place tools or other instruments on the device whilst it is in operation or during breaks.
4. Do not make any modifications to the machine, whether to its mechanical or electrical parts or to the dust extractor.
5. It is forbidden to alter any parts of the sandblaster. The manufacturer accepts no liability for modifications or unauthorised interference with the machine.
6. Clean the machine regularly using a dry cloth or, if necessary, one dampened with a mild detergent. Do not use solvents or petrol to clean the sandblaster.
7. Regularly empty the filter tanks of any debris that has settled at the bottom.
8. If there is a noticeable drop in the circulation pump's performance, replace the filter cartridge.

9. The sand blaster should only be operated by a trained person.
10. Do not leave the unit unattended.
11. Switch off the machine after use
12. Only use original parts supplied by the manufacturer or an authorised service centre for repairs.
13. If it is necessary to stop the machine immediately, press the red emergency stop button located on the control panel

## 12.2 Hazards.

The following hazards may occur whilst operating the sanding machine:

1. Electric shock.
2. Abrasive material entering the eyes.
3. Crushing of the hand
4. Hand injury.



CAUTION

Faults in the electrical system and equipment may only be rectified by a qualified electrician. If equipment is replaced, the new item must be identical. The installation of any other component requires the manufacturer's or a testing body's approval.



WARNING

Under no circumstances should the unit be supplied with a working pressure exceeding 10 bar. Operating the unit at a pressure exceeding
10 bar may result in damage to the device's components and cause personal injury.

## 12.3 Preventative measures.

To avoid hazards, personnel operating the sand blaster should be provided with appropriate protective equipment, the use of which prevents such hazards from arising.

## 12.4 Precautions against sand getting into the eyes or injury to the hands

1. Before starting work, safety goggles and gloves must be worn.
2. After loading the workpieces, ensure that the sandblasting chamber door is securely closed.
4. Before starting the cleaning process, switch on the window washing system.
3 Before starting the wet cleaning process and whilst it is in progress, hold the spray gun with the nozzle firmly in your hand.
4. Take particular care when maintaining the machine to minimise the risk of spillage or soiling.
5. During operation, do not direct the stream of the water-abrasive mixture directly onto the device's viewing window.

## 12.5 Warning markings – pictograms

All Aquablaster units are fully labelled with information and warning signs (stickers, inscriptions). The purpose of these markings is to graphically highlight the most important instructions and warnings in the areas most critical to safety and the correct operation of the unit. If the markings become illegible, they must be renewed to restore them to their original condition.



Wear protective gloves



Wear safety goggles



Warning: risk of electric shock



Main switch

## 13. Preparation for start-up.

The AQUABLASTER enclosed water sandblasting machine has a frame structure; therefore, it must be lifted evenly during transport, and during use, care must be taken to ensure the machine is properly in contact with the floor and is levelled. The adjustable feet located at the bottom of the machine are used to level and position it correctly.

The sandblaster and its accessories should be installed in a room that complies with the requirements of the applicable regulations, as set out in this documentation. The room temperature must not be lower than +15°C. The unit must be positioned in relation to the power supply sources in such a way that the connection components – cables – are not exposed to mechanical damage and do not interfere with operation. The parameters of the power supply sources must comply with those specified in section 10.0. Effective earthing of the sandblaster and its equipment must be ensured. The sandblaster must be placed directly on the floor, which must be levelled to an accuracy of 2%, have a smooth, non-slip surface and be easy to keep clean. At the sandblaster's workplace, the conditions and requirements of the regulations concerning plant or workshop equipment and fittings must be met.

In addition, the following general technical conditions must be met:

1. Room height: at least 2.8 m.
2. Distance from walls: at least 1.0 m.
3. Area per sandblasting machine: 8.5 $m^2$.
4. The width of passageways around the machine must be 1 m.
5. The room should have ventilation and lighting to ensure comfortable working conditions for staff, in accordance with applicable regulations.
6. Power supply and lighting installations must have an IP54 protection rating.
7. The pneumatic system must have a minimum internal pipe diameter of 12 mm and a flow rate of 450–2,000 l/min – spiral hoses or hose reels must not be used for this purpose.

IMPORTANT

Significant restrictions in the cross-section of the pneumatic system's pipework contribute to pressure drops, which reduce performance and disrupt the correct operation of the equipment. Proper performance of the pneumatic system does not allow the operating pressure to drop by more than 0.3–0.8 bar during operation of the device relative to the pressure set by the user via the regulator knob.

## 14. Initial start-up and operation.

Preparation for commissioning:

1. Before starting work, please read the user manual supplied with the device
2. Before carrying out the initial start-up, position the device at its working location.
3. Carry out a visual inspection of the unit for any damage. If any faults are found, do not proceed any further and contact the supplier or service department.
4. Adjust the desired working height using the adjustable swivel feet.
5. Connect the compressed air to the air supply connection.
6. Connect the power cable to the 5P 32A power socket



DANGER

There is a risk of fatal electric shock if a damaged power cable is used!

7. Using the CKF 316 phase sequence and phase loss detector (located in the electrical cabinet), check the colour of the indicator light. A green light indicates that the unit is correctly connected. A red indicator light indicates that the phases need to be swapped – to do this, unplug the 5P power plug from the mains socket and turn the phase-switching switch through 180 degrees.
8. Check that the lower and upper drain valves on the working tank (on the right-hand side of the unit, beneath the access panel) are closed – close both valves if necessary.
9. Check the position of the filter tanks – if necessary, adjust them as shown in *Fig. 6*
10. Close the drain valve on the main filter tank.
11. Set the overflow valve to the open position.
12. Open one of the chamber doors, remove (or slide aside) the front perforated worktop and pour approx. 15 kg of glass microspheres into the main tank. Close the chamber door.



IMPORTANT

Do not exceed the recommended weight of glass microspheres. Too much abrasive material in the unit's tank may cause the impeller to jam, make start-up difficult or directly contribute to damage to the working pump components.

13. Supply water to the feed valve. Open the valve and observe the filling process of the main tank (this is facilitated by the front worktop being moved aside) through the viewing window. During filling, the water level in the working chamber tank will rise – when it reaches the level of the overflow valve, it will flow into the cascade tanks and the main filter tank. Once cascade tanks No. I and No. II are full, close the water supply valve and wait 5 minutes to allow the overflow level in the main working chamber tank to stabilise. If necessary, top up with water, adding it slowly to reach 90 per cent of the main filtration tank's capacity, i.e. 1 cm below the overflow windows of cascade tank No. II (Fig. 7).

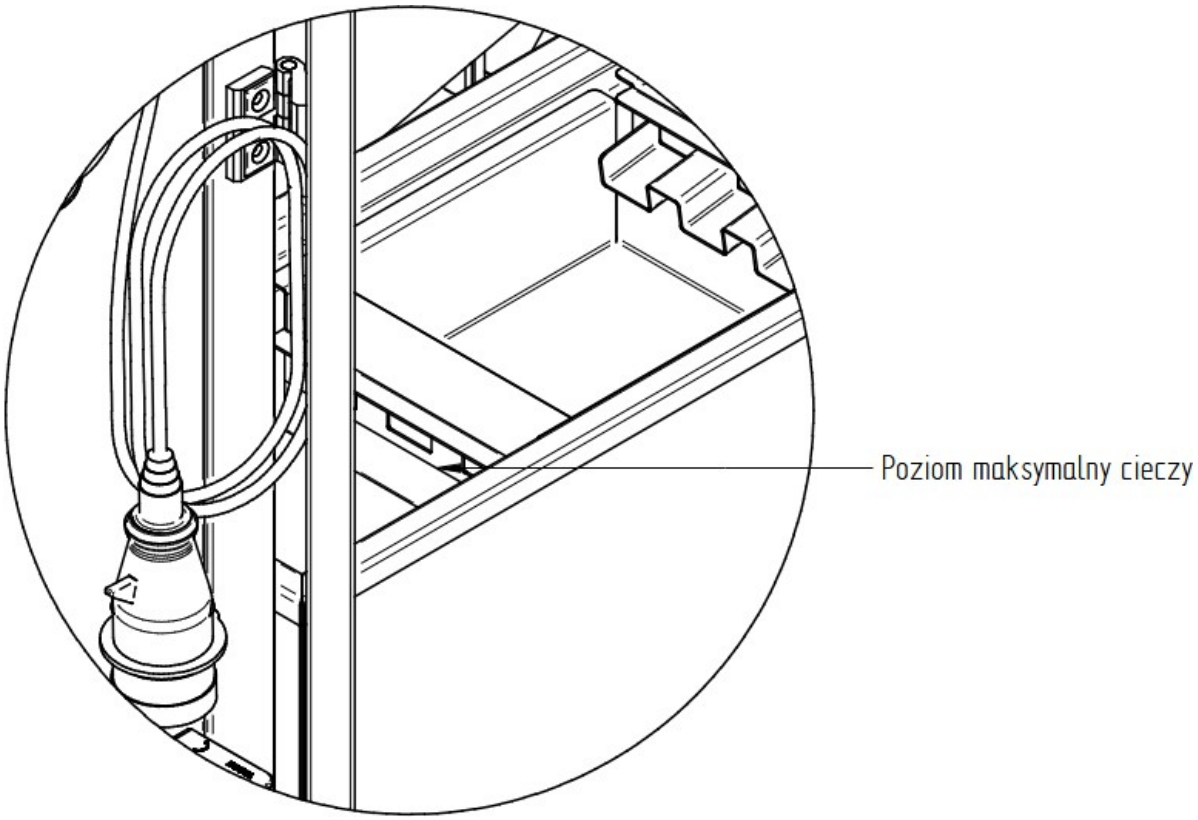



*Figure 7. Maximum liquid fill level*

NOTE

Do not exceed 90% of the main filter tank's capacity. Exceeding the maximum liquid level may result in ineffective sediment separation in the cascade tanks or, in extreme cases, liquid overflowing the top edge of the main filter tank

If the liquid level in the main filter tank is too low, the low-liquid-level alarm will be triggered and the circulation pump will stop.

14. Replace the front worktop and close the chamber door

Initial commissioning and testing:

1. Switch the main power switch to position 1
2. Check the position of the E-STOP safety switch – it should be pressed in, with a visible green ring on the red part of the button.
3. Press the blue RESET button
4. Clear any visible alarms on the touchscreen.

IMPORTANT

By default, the machine is set to mix the abrasive after each power cycle – this function can be deactivated via the
user interface. During mixing, the air pulse causes the device's structural components to resonate and vibrate. The characteristic noises accompanying this process are normal.

5. Hold the gun firmly in your hand and start the working pump to bleed the system and force the abrasive medium through the spray gun.

IMPORTANT

When filling the working tank, the working pump body is not completely flooded with liquid; therefore, during the first start-up, the mixing pump may operate irregularly or at reduced
capacity. If the venting process takes longer than 1 minute, it is recommended to stop the pump for a few seconds and then restart it. A continuous and
steady stream of the water-abrasive mixture flowing from the spray gun indicates that the pump has been properly vented.

6. Whilst the working pump is running, adjust the working pressure using the pressure regulator knob located on the control panel.
7. Set the windscreen wiper switch to the AUTO position – once the working pump has started, the windscreen wiper and the windscreen rinsing system will activate automatically – if necessary, adjust the position of the segmented lance.
8. Test the operation of the workpiece washing system. To do this, grasp the lance fitted with a spray nozzle and then press the left-hand foot switch. Once the solenoid valve has opened, water free of glass microspheres should emerge from the washing lance.

IMPORTANT

Depending on the type of workpieces and the level of contamination, the condition of the string filter should be inspected at least once per shift. Usually, the first sign that it needs replacing is an insufficient amount of water hitting the sight glass or too low a water pressure at the washing lance. To extend the filter's service life,
the Aquablaster unit, pre-clean parts to remove stubborn contaminants such as extensive rust, paint, oils, greases or loose solids.

15. Set the desired operating pressure using the pressure regulator knob.
16. Open the chamber door, place the workpiece inside the chamber and close the machine door.
17. Carry out quality and performance tests by directing the nozzle of the spray gun towards the workpiece. Adjust the operating pressure if necessary.



CAUTION

**Do not let go of the spray gun whilst operating the machine. The spray gun may only be set down once you have removed your foot from the foot switch and the spray has stopped flowing from the nozzle tip.**

18. Carry out a visual inspection of the unit to check for leaks.
19. Once the above steps have been completed, the unit is ready for use.

## 15. Daily maintenance.

The AB1000 enclosed water sandblaster does not require any special maintenance procedures.
To ensure safe and efficient operation, you should:

1. Rinse the inner walls of the working chamber daily after finishing work to remove any residual glass microspheres.

2. Every day before starting work, check the liquid level in the main filter tank. If the level has fallen significantly below the required amount, top it up.

3. Once a month, clean any accumulated debris from the bottom of the filter tanks



IMPORTANT

The frequency of filtration system inspections should be adjusted to the nature of the contamination on the parts being cleaned and the operating pressure.
For example: Pre-cleaning parts before machining significantly extends the replacement interval for the string filter.
Operating the unit at a low working pressure contributes to slower degradation of the glass microspheres, resulting in less dust accumulating at the bottoms of the filter tanks.

4. Every 300 operating hours, check the condition of the distributor located at the outlet of the pump housing – if significant wear is found on the metal walls, replace it with a new one

5. Every 300 operating hours, check the condition of the operating hoses. If any damage or wear is found, replace them with new ones.

6. Once a month, check the condition of the working chamber seals.

7. Check the condition of the string filter for contamination once per shift. If significant contamination is found, replace it with a new one.

## 16. Maintenance, inspection, repair.

The use of appropriate consumables and operating materials is the basis for, and guarantee of, the reliable operation of the pressure sandblaster. During the warranty period, minor repairs carried out by the user are permitted with the manufacturer's prior consent.

After the first year of operation of the Aquablaster AB1000, inspect the equipment on the control panel. If excessive wear or damage is found, the equipment or its components must be replaced with new ones.

All cables should be securely clamped in the terminal blocks and on the equipment. If excessive wear is detected, replace the components with new ones. Excessive wear is defined as wear that causes a change in the specified operating parameters or prevents their adjustment. Before commencing work, the operating personnel of the cabin-type water sandblaster should check that it is functioning correctly and carry out the daily maintenance as specified in point 14.

## 17. Maintenance and servicing.

Proper servicing extends the service life of the equipment. All servicing work should be carried out by qualified personnel. The cabin-type pressure sandblaster may only be dismantled and reassembled by qualified personnel. Failure to comply with the above recommendations will invalidate the warranty.

To ensure trouble-free operation, a mandatory inspection of the working pump must be carried out after 500 operating hours.

## 18. Common problems with water-based sandblasters – solutions.

| | |
|---|---|
| The sandblaster does not start when switched on | - check that the electrical connections are correct<br>- check the colour of the indicator lights on the CKF 316 unit |
| After starting the machine and pressing the foot switch, the sandblaster does not begin operation | - check that the safety switch is not engaged<br>- reset the alarms<br>- check the position of the overcurrent circuit breaker supplying the working pump. If necessary, move it upwards. |
| The machine does not respond when the foot switch is pressed | - Faulty foot switch – contact the manufacturer's service department<br>-safety switch is engaged<br>- the shut-off valve is faulty; contact the manufacturer's service department |

| | |
|---|---|
| When the foot switch is pressed, a noise can be heard inside the machine's chamber, and no abrasive stream is emits an abrasive jet | -broken prismatic keyway on the rotor shaft<br>-broken pump rotor<br>- the outlet from the pump housing is blocked<br>- the work gun is blocked<br>- bent or leaking working hose<br>- an excessive amount of abrasive hinders pump start-up and operation; reduce the amount of abrasive<br>- Clumping of abrasive material at the bottom of the chamber's hopper; remove the clumps and replace the abrasive<br>-contaminated pump suction channel basket; remove the contaminants |
| After start-up, water mixed with abrasive material is coming out of the gun nozzle but no air is being supplied | - Check the connection to the pneumatic system<br>- Operating pressure too low<br>- Faulty air-metering solenoid valve – contact the service department |
| During operation, the working pressure drops, making it impossible to achieve maximum cleaning performance | - the cross-sectional area of the pneumatic supply pipework to the unit is too small<br>- the pipework between the compressor and the unit is too long<br>- the compressor's capacity is too low |
| Cleaning is ineffective | -operating pressure is too low; increase the pressure<br>- Worn-out abrasive; replace with new abrasive<br>- The gun's working nozzle is worn; replace the nozzle with a new one<br>-working medium excessively contaminated with foreign particles or oils/greases.<br>-inappropriate angle at which the abrasive hits the workpiece. |
| Poor visibility | - sandblasted sight glass; replace with a new one<br>- The lamp protective lenses are sandblasted; replace them with new ones.<br>- Incorrectly positioned segmented lance used to rinse the window<br>-worn-out wiper blade<br>- excessively worn cord cartridge that does not separate debris; replace with a new one. |

## 19. Manufacturer's final remarks.

**Unless otherwise stipulated in the contract**, the handover and acceptance of the equipment shall take place using a handover and acceptance report. The same procedure applies when rectifying faults subject to a complaint. In this case, it is permissible to use service notes, which require mutual confirmation of the technical work carried out. The terminology used in this documentation includes the following terms: sandblaster, cabin-type water sandblaster, and unit. These terms refer to the same product and are synonymous.

## 20. Disposal of the machine

The machine is constructed from the following materials:

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

| | |
|---|---|
|  | DANGER<br>**Before carrying out any work relating to the disposal of the machine, it must be disconnected from the electrical and pneumatic systems** |
|  | CAUTION<br>**At every stage of dismantling and disposal, appropriate hand and power tools, as well as personal protective equipment, must be used.** |

Dismantling procedure:

1. Remove the pressure hoses.
2. Dispose of consumables correctly.
3. Dismantle the unit.
4. Send plastic components to a plastic recycling facility.
5. Metal components should be handed over to a metal recycling facility.
6. Dispose of electrical components and power cables as special waste or electronic scrap.

## 21. Declaration of Conformity.

CE

# DEKLARACJA ZGODNOŚCI

PRODUCENT: XTON S. C.
Łukasz Basiaga, Piotr Łukasik
ul. Franciszka Żwirki 31,
33-300 Nowy Sącz
www.xton.eu, office@xton.eu
tel.: +48 18 479 160 1 +48 535 530 824,

PRODUKT: Piaskarka ciśnieniowa serii Sandblaster™

model/typ: XSB, XSBI

Deklarujemy z pełną odpowiedzialnością, że produkty do których odnosi się niniejsza deklaracja, są zgodne z następującymi dyrektywami i normami:

DYREKTYWY:
- 2006/42/WE - Dyrektywa maszynowa
- 2014/30/UE - Dyrektywa kompatybilności elektromagnetycznej EMC;
- 2014/35/UE - Dyrektywa niskonapięciowa

NORMY:
- PN-EN 60204-1 - Wyposażenie elektryczne maszyn;
- PN-EN 13849-1 - Elementy systemów sterowania związane z bezpieczeństwem;
- PN-EN 62061 - Bezpieczeństwo funkcjonalne elektrycznych, elektronicznych i elektronicznych programowalnych systemów sterowania związanych z bezpieczeństwem;
- PN-EN 60947-1 - Aparatura rozdzielcza i sterownicza niskonapięciowa.

Niniejsza deklaracja zgodności wydana zostaje na wyłączną odpowiedzialność producenta.

Nowy Sącz, 23.05.2024 r.

Podpis osoby upoważnionej do gromadzenia dokumentacji technicznej

## 22. Warranty card.

# WARRANTY CERTIFICATE

1. The manufacturer guarantees that the equipment will function properly for a period of 12/24/36/48[1]months from the date of purchase.
   'Proper functioning' is understood to mean the absence of any physical defects in the item sold.
2. The guarantor of the device sold under the name …….. Serial number …. .....is "XTON S.C. Piotr Łukasik, Łukasz Basiaga", with its registered office in Nowy Sącz at 31 Żwirki Street,
   33-300 Nowy Sącz, with Tax Identification Number (NIP): 734-347 82-42, and REGON number: 121453788
3. Any faults revealed during the warranty period shall be rectified by an authorised service centre designated by XTON. As a general rule, the fault shall be rectified at the User's premises, and the User is obliged to grant access to the service technicians referred to in sentence 1 above in order to carry out the necessary work. Should it prove impossible to rectify the fault at the User's premises, the User is obliged to deliver the Device to the Guarantor's registered office – at the Guarantor's expense.
4. Any fault or breakdown occurring during the warranty period and covered by the warranty terms shall be rectified by the Manufacturer or its authorised service centre free of charge (excluding the cases specified in clause 14 of the Warranty Certificate), including the costs of spare parts and labour, and shall be recorded in the Warranty Certificate.
5. The fault will be rectified by repairing the damaged components of the Device or by replacing them with new, fault-free components or with reconditioned components approved for use by the Manufacturer. Replacement of the Device or a component with a new, fault-free one may only take place if two unsuccessful repairs have been carried out on the same component of the Device.
6. If it is established that the damage to the Device is due to the User's fault, the costs of parts and repairs shall be borne by the User.
7. During the warranty period, the Manufacturer undertakes to respond to service requests within 48 hours of the fault being reported on working days (i.e. Monday to Friday). Saturdays, Sundays and public holidays are not included in the response time. In such cases, the response time is suspended for the duration of these days.
8. The fault should be rectified within 21 working days from the date of the report. The repair time may be extended for reasons beyond the guarantor's control, e.g. the time taken to source parts – of which the Manufacturer will inform the User on each occasion.
9. Service requests should be submitted via the claim form available on the XTON S.C. website (www.xton.eu) or by email toserwis@xton.eu . The claim should include details of the device model, serial number, customer details, the claimant's details and a description of the problem or fault.
10. If the guarantor has replaced the faulty goods with new ones or carried out significant repairs, the warranty period shall recommence from the moment the replaced or repaired product is delivered to the customer. In the event of the replacement of a single part belonging to the goods subject to the complaint, the warranty period shall recommence in respect of that part.
11. Warranty repairs do not cover tasks which, according to the user manual, the user is obliged to carry out themselves, e.g. replacing filters.
12. Defects must be reported immediately upon discovery, and no later than 7 days after the fault is detected, and the use of the equipment must be discontinued, failing which the customer will lose their warranty rights or the seller's and manufacturer's liability may be limited due to the user's continued use of faulty equipment.

[1] Depending on the terms of the contract, if no specific agreement has been entered into, the warranty is valid for a period of 12 months.

13. The warranty does not cover loss of profits arising from reduced or lost productivity due to any machine breakdown or delays in the supply of spare parts, nor does it cover damage to third parties arising from such causes. The warranty does not cover costs associated with the hire and delivery of a replacement machine.
14. Any cleaning of the equipment shall be carried out at the user's expense in accordance with the relevant service provider's price list and shall not be treated as a warranty service.
15. The warranty does not cover:
    a. damage and defects resulting from:
        - mechanical damage
        - incorrect use, maintenance or storage, or failure to follow the user manual,
        - ignorance or damage caused by the user's fault,
        - accidental events (fire, flood, water damage, etc.)
        - installation that is improper or not in accordance with the user manual,
        - the use of consumables other than those recommended by the manufacturer,
        - unauthorised repairs carried out by the user or other unauthorised persons,
        - modifications or structural alterations carried out by parties other than the Manufacturer or its authorised service centre,
    b. consumables and parts which, when the appliance is used for its intended purpose, are subject to natural wear and tear before the expiry of the warranty period, in particular but not limited to:
        - seals,
        - filters,
        - rubber hoses, pressure hoses,
        - adapters including clamps,
        - clamping clips.
16. The manufacturer does not permit the User to carry out repairs themselves without prior consultation with an authorised service centre, nor at unauthorised service centres. Any such repair will result in the loss of the warranty.
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 completed fully and correctly,
    c. the purchaser must hold proof of purchase for the product covered by this warranty;
    d. the confirmation in the user manual that the machine has been connected to the electrical installation by a qualified installer must be correctly completed, including the installer's licence numbers and stamp.
18. This warranty is valid only within the territory of the Republic of Poland.
19. In the event that the goods sold do not comply with the contract, the purchaser is entitled by law to legal remedies provided by and at the expense of the Seller (warranty), and the guarantee provided by the Manufacturer does not affect these legal remedies. The rights granted under this guarantee are independent of the rights arising from the warranty for defects in the goods sold. This means that if the User's claims under the Guarantor's liability are not met, the User is entitled to pursue claims against the Seller under the warranty – provided that such liability has not been excluded in accordance with the provisions of Article 558 of the Civil Code.