
Translation of the original instructions

Chlorine dioxide system

EASYZON L 125

EASYZON L 250

EASYZON M 125

EASYZON M 250

EASYZON H 125

EASYZON H 250

EASYZON H 500

EASYZON H 1000

EASYZON H 2000

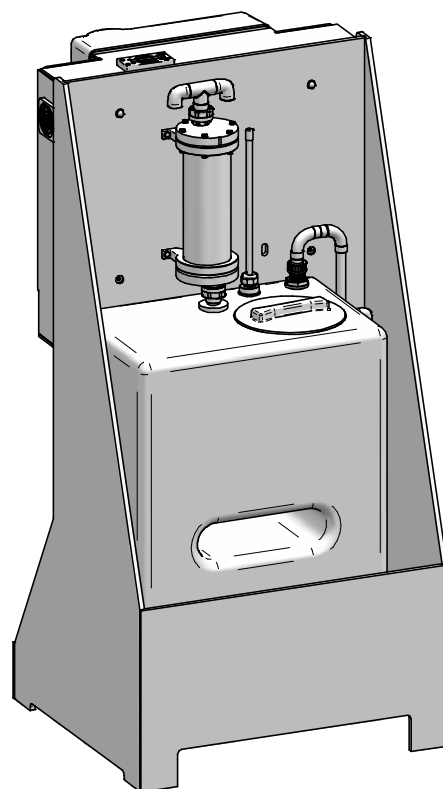
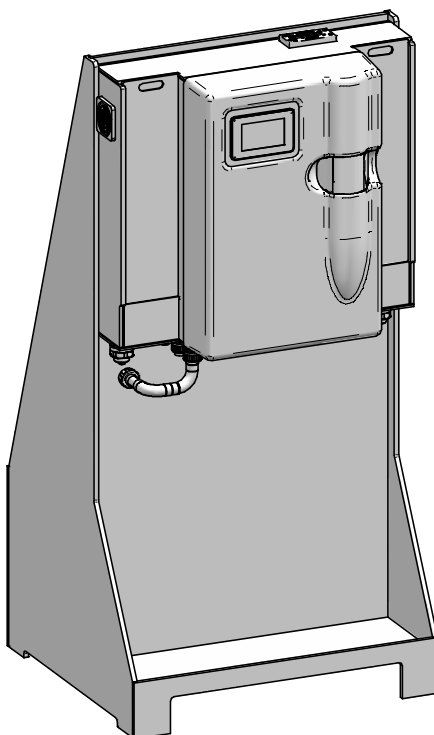
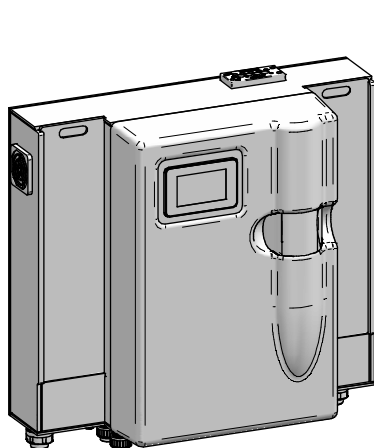


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1 About these operating instructions

This document:

- Is part of the product.
- Describes the safe and correct use of the product in all operating phases.
- Must be read completely before the product is commissioned.
- Must be read and applied by every person tasked with working on the product. This includes installation, service, maintenance, repairs and transport.
- Must be kept for the duration of the service life of the product.
- Must be passed on to any subsequent owner of the product.

For better readability, these operating instructions sometimes refer to the product as "the system".

1.1 Target groups

Target group	Task
Operator	1. Keep these operating instructions available at the place of use of the product, including for later use. 2. Instruct employees to read and comply with these instructions, especially the safety instructions and warnings. 3. Comply with additional system-related specifications and regulations.
Specialist staff Trained persons	► Read, observe and follow these operating instructions, in particular the safety instructions and warnings.

Table 1: Target groups and their tasks

1.2 General non-discrimination

For better readability, these operating instructions always use the masculine form when referring to persons. However, all genders are addressed equally.

1.3 Warnings

Warnings are intended to help you recognise risks and avoid negative consequences. They are structured as follows in these operating instructions:

Warning sign

SIGNAL WORD

Type and source of danger

Consequences of non-compliance

- A safety precaution to be taken to eliminate the hazard.

Fig. 1: Design of warnings

Signal words

These operating instructions use the following signal words to emphasise the severity of possible injuries if the danger is ignored:



DANGER

Imminent danger

Non-compliance can result in death or serious injury.



WARNING

Possible danger

Non-compliance can lead to death or severe injuries.



CAUTION

Potentially hazardous situation

Non-compliance can result in minor injuries.



NOTICE

Potentially hazardous situation

Non-compliance can result in damage to property or malfunctions.



INFORMATION

Information or recommendation

Simplifies handling or extends the service life of the product or system.

Warning signs used

These operating instructions use the following warning signs to indicate the type and source of danger:



General danger zone



Danger from potentially-explosive substances



Danger of electric shock



Danger from poisonous substances



Risk of machine damage or malfunction

1.4 Action steps

Action steps are structured as follows:

- ✓ This requirement must be met before you can start with the action steps.

► Single step

Multiple steps in sequence are structured as follows:

1. First step

2. Second step

↳ Intermediate result of a step

▢ Overall result

1.5 References to intellectual property rights

These operating instructions must be treated confidentially. Only authorised persons should have access to this document. It may only be given to third parties with the written consent of Lutz-Jesco GmbH.

All documents are protected in the sense of the copyright law. It is forbidden to forward on and copy the documents, even in part, as well as to use and communicate their contents, insofar as this is not expressly conceded in writing. Violations are punishable and incur an obligatory payment of damages. Lutz-Jesco GmbH reserves all the rights for the practice of industrial property rights.

1.6 Notes for the operator

These operating instructions are a significant part of the system. The operator must ensure that operating personnel take note of these guidelines.

The operator is responsible for supplementing these operating instructions with any guidelines based on national regulations for health and safety at work and environmental protection, including responsibilities of supervision and consideration of special operational requirements, e.g. with regard to labour organisations, workflows and appointed personnel.

Besides the operating instructions and the obligatory regulations for Health and Safety at Work applicable in the country of use as well as in the place of use, the recognised specialist technical regulations for safe and professional work must also be observed.

The operator of the system is not allowed to make any changes or modifications to the system that could impair its safety. This also applies to the installation and setup of safety devices.

Any replacement parts to be used must meet the technical requirements specified by Lutz-Jesco GmbH. This is always guaranteed in the case of original spare parts. Only employ trained or instructed personnel. Clearly specify the responsibilities of the personnel for operating, servicing and repairing the system.

1.7 Instruction and training course assistance

As the operator, you are obligated to inform and/or instruct the operating personnel about existing provisions of law and accident prevention regulations as well as about existing safety regulations for the system. This includes taking into account the different technical quali-

fications of employees. The operating personnel must have understood the training and it must be ensured that the training is adhered to.

Only in this way can you ensure that your personnel work in a safety conscious and risk aware manner. This should be monitored on a regular basis. Therefore, you as operator should obtain written confirmation of attendance from every employee.

You will find examples of training topics in the next sub-section. A form copy template for confirming participation in the training course is provided at the end of these operating instructions (→ Confirmation of training instruction [► 40]).

If the operating personnel still require further training after the system has been delivered to the operator, please contact Lutz-Jesco GmbH regarding the agreement conditions.

1.8 Example of training course topics

For safety:

- Accident prevention regulations
- General safety precautions
- Action to be taken in an emergency
- Safety precautions for operating
- Safety devices
- Definition of symbols and signs

For operation:

- How to operate the controls
- Rectifying operating faults
- Understanding fault messages

For maintenance and service instructions:

- Inspecting/testing the system
- Cleaning the system and replacing spare parts

1.9 Cross-references

Cross-references are marked with an arrow.

Example: (→ Fig. 5)

1.10 Latest version

Please find the latest version of these operating instructions at www.lutz-jesco.com.

1.11 Copyright

The content of these operating instructions and the images contained in them are subject to the copyright protection of Lutz-Jesco GmbH.

2 Safety

The following warnings are intended to help you to eliminate the dangers that can arise while handling the product. Risk prevention measures always apply regardless of any specific action.

Safety instructions warning against risks arising from specific activities or situations can be found in the respective sub-sections.



DANGER

Mortal danger from electric shock!

Live parts can inflict fatal injuries.

- ▶ Disconnect the power supply before working on the system.
- ▶ Secure the system to prevent it from being switched on again.



DANGER

Danger of explosion due to ClO₂ gas!

The chemical precursors hydrochloric acid (HCl) and sodium chlorite (NaClO₂) immediately form high quantities of chlorine dioxide gas (ClO₂) when mixed. There is a risk of explosion due to self-decomposition if the concentration in the gas phase becomes too high.

- ▶ NEVER mix the two chemical precursors hydrochloric acid (HCl) and sodium chlorite (NaClO₂), except as part of chlorine dioxide preparation with the EASYZON system.
- ▶ Only use the correct concentration of hydrochloric acid (5 –32%) by weight (→ Technical data [▶ 15]) in accordance with EN 939 for the treatment of water intended for human consumption.
- ▶ Only use the correct concentration of sodium chlorite (7.5–25%) by weight (→ Technical data [▶ 15]) in accordance with EN 938 for the treatment of water intended for human consumption.
- ▶ Read the supplier's safety data sheet (SDS).



WARNING

Danger of contact with a ClO₂ solution!

If there is a leak in the system, a toxic ClO₂ solution can escape.

- ▶ The maximum permissible pressure of the dosing pump must not be exceeded under any circumstances.
- ▶ The entire system must remain leak-free during operation.



CAUTION

Danger of devices switching on automatically!

You must be aware that the system and the dosing pumps are two separate devices in terms of on-site chlorine dioxide preparation.

- ▶ The EASYZON system operates automatically if the product tank is almost empty.
- ▶ The dosing pumps react automatically to the preparation and process conditions on site, e.g. to the input of the water meter signal and/or the input of the measurement and control system.



CAUTION

System damage due to incorrect maintenance!

Incorrect maintenance can lead to irreversible damage to equipment and the preparation process.

- ▶ Observe the planned maintenance intervals for the system and its components.

2.1 Risks due to non-compliance with the safety instructions

Failure to follow the safety instructions may endanger not only persons, but also the environment and the equipment.

The specific consequences can be:

- Failure of important functions of the product and the associated system
- Failure of required maintenance and repair methods
- Danger to persons
- Danger to the environment

2.2 Working in a safety-conscious manner

In addition to the safety instructions specified in these operating instructions, you must comply with additional safety regulations:

- Accident prevention regulations
- Safety and operating provisions
- Environmental protection provisions
- Applicable standards and legislation

2.3 Modifications

Modifications to the product (such as alterations, changes and structural redesign) are not permitted. The operator is liable for damage to property and personal injury caused by any modifications that it makes.

2.4 Warranty

The warranty period begins on the date of the invoice.

The following requirements must be met before you can make a warranty claim:

- The system must be installed and operated in accordance with the information provided in this document.
- Maintenance and repairs must be carried out by trained personnel at the specified intervals.
- Spare parts and maintenance sets are to be supplied by Lutz Jesco GmbH or authorised dealers and operators only.
- The feed water and environmental conditions must comply with the specifications detailed in this document.

Equipment	Warranty period
General	2 years

Equipment	Warranty period
Reactor vessel	3 years

Table 2: Warranty period

2.5 Obligations of the operating company

- The operator of the product is obligated to:
- Make these operating instructions easily accessible and keep them close to the system at all times.
 - Provide the user with instructions for the safe handling of chlorine dioxide and the associated reagents.
 - Comply with all local regulations relating to the installation room, including fire, safety and accident prevention regulations.
 - Prohibit any changes to the system and the installation that are not described in this document.
 - Instruct users in the operation and basic maintenance of the system.
 - Have the system serviced at regular intervals by authorised personnel.
 - Provide personal protective equipment to all users of the system.

2.6 Personal protective equipment

Based on the degree of risk and the type of work you are carrying out, you must use corresponding personal protective equipment. Read the Accident Prevention Regulations and the Safety Data Sheets for the dosing media to find out what protective equipment you need.

The following protective equipment is recommended as a minimum:



Eye protection
Protective goggles



Protective clothing
Protective suit, e.g. PVC apron



Protective gloves
Disposable nitrile/PVC gloves



Safety shoes
PVC safety boots



Respirator mask

Table 3: Protective equipment required

- Wear the protective equipment when performing the following tasks:
- Commissioning
 - Work on pressurised dosing devices
 - Shut-down
 - Remedial and routine maintenance
 - Disposal

2.7 Personnel qualification

Any personnel who work on the product must have special knowledge and skills.

Anybody who works with the product must meet the conditions below:

- Attendance at all the training courses offered by the owner
- Personal suitability for the respective activity
- Sufficient qualification for the respective activity
- Training into the handling of the device
- Knowledge of safety equipment and the way this equipment functions
- Knowledge of these operating instructions, particularly the safety instructions and sections relevant for the activity
- Knowledge of fundamental regulations regarding health and safety and accident prevention

All persons must have one of the following minimum qualifications:

- Trained as a specialist to work independently with the product
- Sufficient training to work on the product under the supervision and guidance of a qualified specialist

These operating instructions differentiate between the following user groups:

Specialist staff

Thanks to their professional training, knowledge, experience and knowledge of the relevant specifications, specialist staff are able to perform the job allocated to them and recognise and/or eliminate any possible dangers by themselves.

Trained electricians

Due to their professional training, knowledge and experience as well as knowledge of specific standards and provisions, trained electricians are able to do the electrical work assigned to them and to recognise and avoid any potential dangers by themselves.

They are specially trained for their specific working environment and are familiar with relevant standards and provisions.

They must comply with the legally binding regulations on accident prevention.

Trained persons

Trained persons have received training from the operator about the tasks they are to perform and about the dangers stemming from improper behaviour.

Trained persons have attended all trainings offered by the operator.

2.7.1 Personnel tasks

Incorrect handling of the product can cause severe personal injury and damage to property. Therefore, ensure that all work is carried out by qualified personnel only.

The following table shows which qualifications are required for the corresponding activities.

Qualification	Activities
Specialist staff	• Installation • Hydraulic installation • Commissioning • Shut-down • Troubleshooting • Maintenance • Repairs • Disposal
Trained electricians	• Electrical installation • Elimination of electrical faults • Electrical repairs
Trained persons	• Operation • Storage • Transportation

Table 4: Personnel tasks

3 Intended use

3.1 Notes on product warranty

Any non-designated use of the product can compromise its function or intended protection. This leads to invalidation of any warranty claims!

Please note that liability is on the side of the user in the following cases:

- The product is operated in a manner that is not consistent with these operating instructions, particularly the safety information, action steps and the intended use.
- People operate the product who are not adequately qualified to carry out their respective activities.
- No original spare parts or accessories of Lutz-Jesco GmbH are used.
- Maintenance and inspection intervals are not adhered to as required or not adhered to at all.
- The product is commissioned before it or the corresponding system has been correctly and completely installed.
- Safety equipment has been bridged, removed or made inoperative in any other way.

3.2 Intended purpose

The chlorine dioxide system is intended for the following purpose: automatic production of a 0.2 wt.% diluted chlorine dioxide solution using sodium chlorite, hydrochloric acid and dilution water of drinking water quality. The resulting solution can be used as a disinfectant and oxidising agent for a wide range of water treatment applications.

4 Product description

4.1 Model

The EASYZON is available in different capacities that utilise three ranges of chemical reagent concentrations (L = low, M = medium, H = high). Both modular and skid versions are available. For more information about the chemical concentrations → Technical data [► 15].

4.2 Scope of delivery

Carefully check the delivery prior to installation and refer to the delivery note to ensure that the delivery is complete and to check for any transport damage. Contact the supplier and/or carrier regarding any questions concerning the delivery and/or transport damage. Do not operate defective products.

The scope of delivery includes:

Item	Modular	Skid
EASYZON system	x	x
Assembly kit	x	
Operating instructions	x	x

Table 5: Included in scope of delivery

Supplied accessories	Modular	Skid
Pressure reducing valve	x	x
Batch tank		x
Tank level switch		x
Tank gas scrubber		x

Table 6: Supplied accessories

4.2.1 Optional accessories

Part number	Description
43791	Product tank gas scrubber (to supplement a product tank procured on site)
75833	Tank dual float switch 290 mm
12201131	Suction line 950 mm for reagents (2x required)
75832	Modbus RTU module (RS-485)
75834	Tank dual float switch 465 mm

Table 7: Optional accessories

4.2.2 Required accessories

The following accessories are required for installation:

- Chemical reagents (not available from Lutz-Jesco)
- Storage tanks and bunds (only for modular models)
- Suction lines for reagents
- Suction pressure regulator (anti-siphon)

4.3 Rating plate

The rating plate clearly identifies the product and provides important information such as the manufacturer, product designation, year of manufacture and technical and safety-relevant data. The rating plate must be kept legible for the duration of the service life of the product.

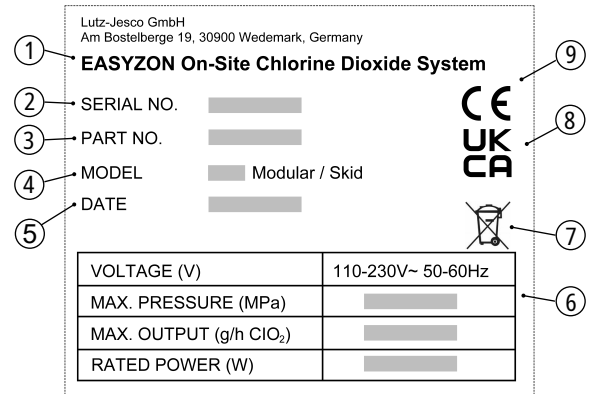


Fig. 2: Rating plate

1 Product name	2 Serial number
3 Part number	4 Model
5 Production date	6 Technical data
7 WEEE label	8 Label showing conformity with applicable UK directives
9 Label showing conformity with applicable European directives	

4.4 Design and function

A batch process sequence is initiated in normal operation: The reagents are drawn from the inlet (7) into the reactor vessel (8) using the vacuum generated by the ejector and the motive water to produce a concentrated ClO₂ solution. The dilution of water and reagents is precisely measured and controlled via individual flow meters (3) and solenoid valves (5). After a predefined reaction time, the batch process restarts and the concentrated solution in the reactor vessel is drawn through the ejector into the dilution stream to the product outlet (1) as a 0.2 wt.% ClO₂ solution.

Modular system

The outlet (1) can be connected to a storage tank or directly to the point of application. Production can be stopped/started using tank level sensors, remote stop signals and manually via the user interface, whereby continuous and batch operation are possible.

Skid system

The system is supplied with a product outlet connected to a 200 litre storage tank (12) with pre-mounted dual float level switch (10) and gas scrubber (9) for tank suction.

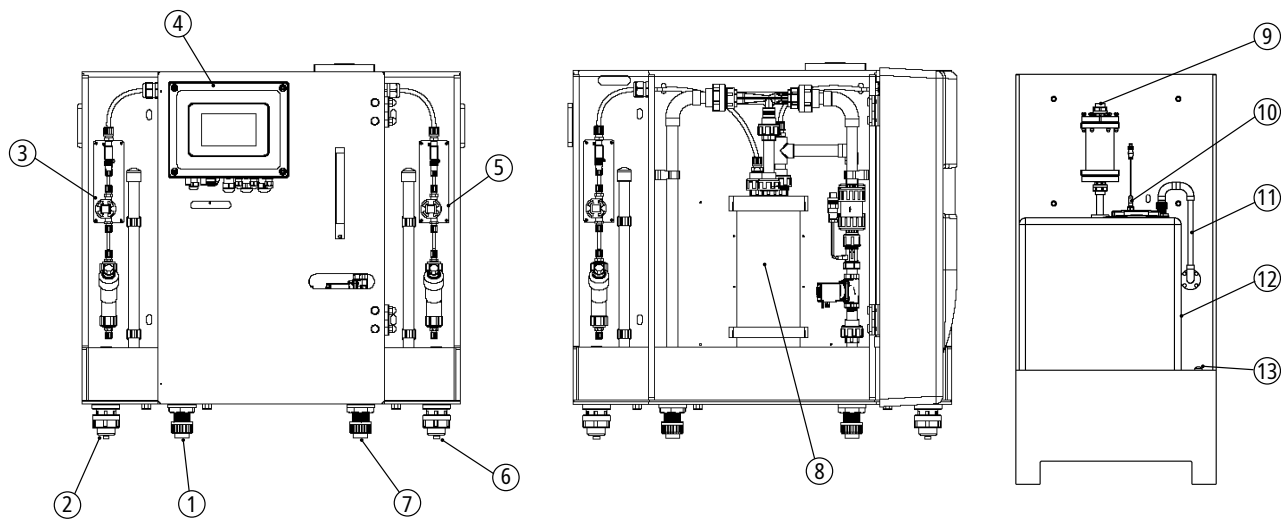


Fig. 3: Design and function

1	Product outlet	2	Reagent A inlet
3	Reagent A flow meter	4	User interface
5	Reagent B flow meter	6	Reagent B inlet
7	Water inlet	8	Reactor vessel
9	Gas scrubber	10	Level switch
11	Batch tank inlet	12	Batch tank
13	Chemical bund level switch		

4.5 Process flow

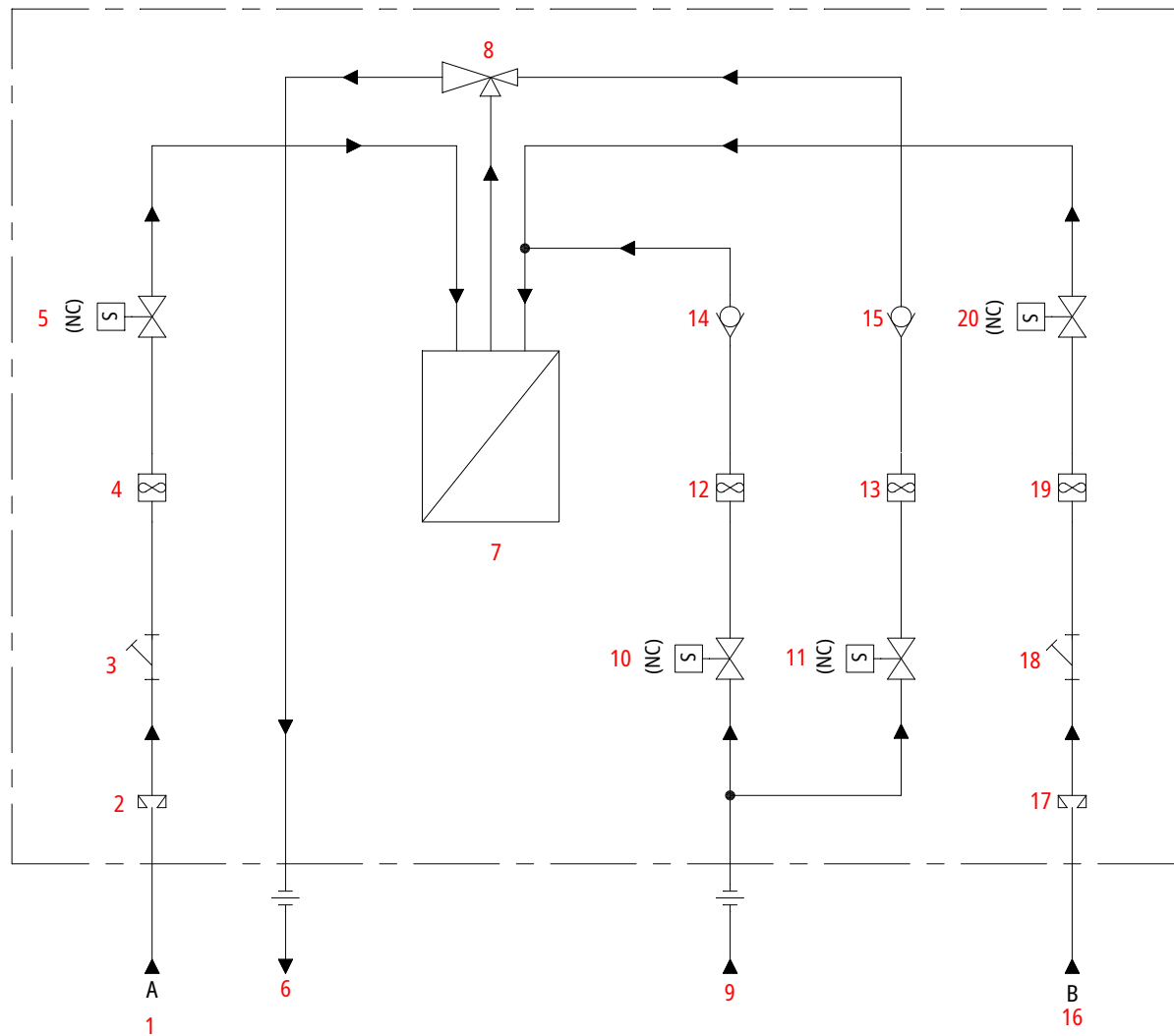


Fig. 4: Process flow

1 Acid inlet	2 Hose connection Ø6 x 8 mm
3 Y-strainer	4 Flow meter A
5 Solenoid valve A	6 Chlorine dioxide outlet (max. 2 g/l)
7 Reactor vessel (max. 30 g/l)	8 Ejector
9 Dilution water supply	10 Solenoid valve
11 Solenoid valve	12 Flow meter
13 Flow meter	14 Non-return valve
15 Non-return valve	16 Sodium chlorite inlet
17 Hose connection (Ø6 x 8 mm)	18 Y-strainer
19 Flow meter B	20 Solenoid valve B

4.6 Layout description

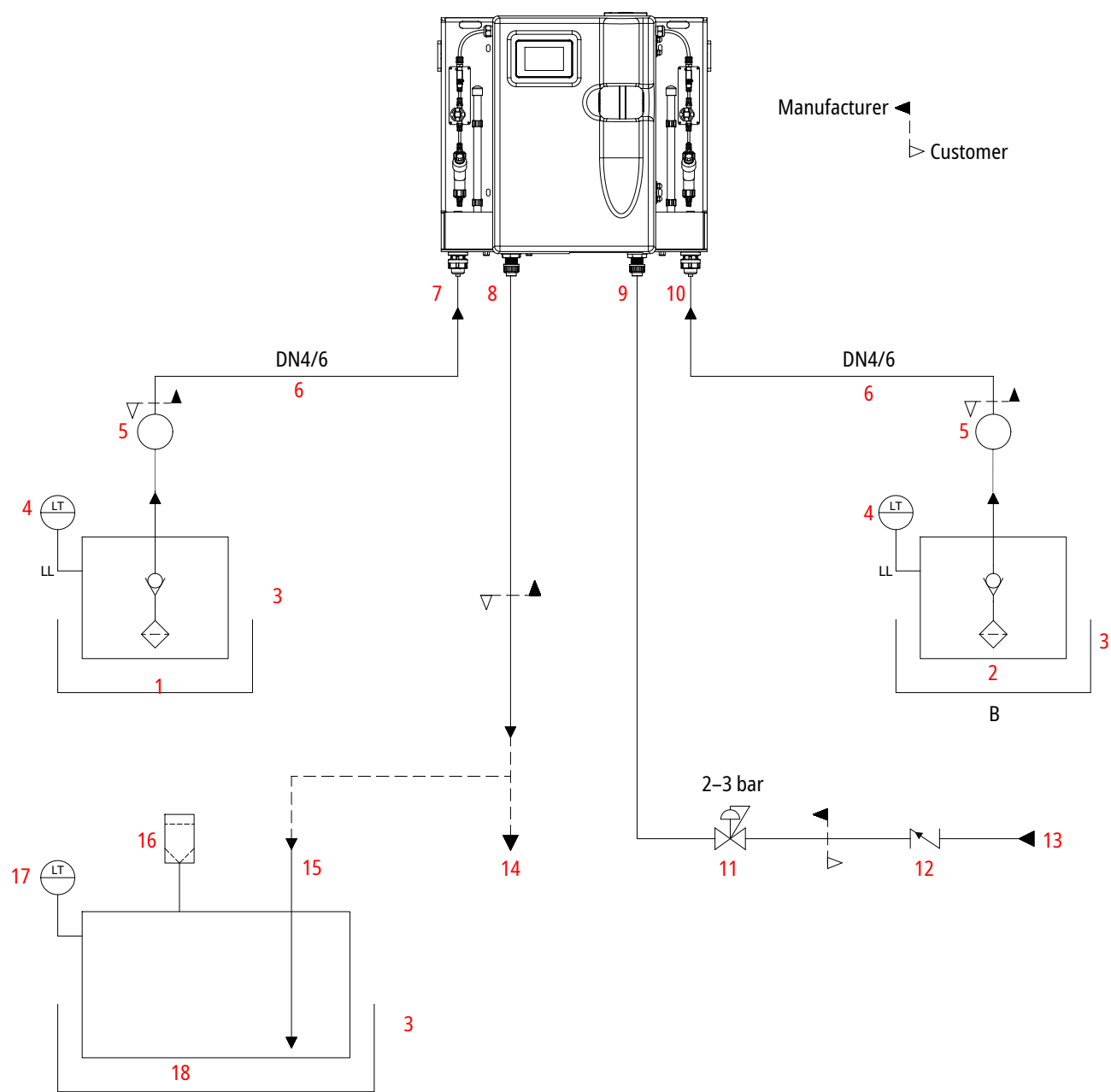


Fig. 5: Layout description

1 Acid	2 Sodium chlorite
3 Collecting pan	4 Reagent empty detector
5 Suction regulator / anti-siphon valve	6 Reagent suction lines
7 Acid inlet (reagent A)	8 Product outlet
9 Water inlet	10 Sodium chlorite inlet (reagent B)
11 Pressure reducing valve	12 Backflow prevention
13 Water supply	14 Product transfer to point of application
15 Product tank inlet	16 Gas scrubber
17 Tank level control	18 Batch tank

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5 Technical data

Reagent data

EASYZON		125 L	125 M	125 H	250 L	250 M	250 H	500 M	500 H	1000 H	2000 H
A (5–10% HCl)	wt. %	x			x						
A (10–15 % HCl)	wt. %		x			x		x			
A (5–32 % HCl)	wt. %			x			x		x	x	x
B (7.5 % NaClO ₂)	wt. %	x			x						
B (14 % NaClO ₂)	wt. %		x			x		x			
B (25% NaClO ₂)*	wt. %			x			x		x	x	x
Reagent temperature	°C	10–30									

Table 8: Reagent data

Production output (approx.)

EASYZON		125 L	125 M	125 H	250 L	250 M	250 H	500 M	500 H	1000 H	2000 H
ClO ₂ capacity	g/h	125	125	125	250	250	250	500	500	1000	2000
	kg/day	3			6			12		24	48
ClO ₂ solution	l/h	62.5			125			250		500	1000
ClO ₂ concentration	mg/l	2000									
ClO ₂ tank	l	200 (skid systems only)									

Table 9: Production output (approx.)

Operating water (drinking water quality)

EASYZON		125 L	125 M	125 H	250 L	250 M	250 H	500 M	500 H	1000 H	2000 H
Inlet water consumption	l/h	56	60	61	112	120	122	240		480	960
Inlet water pressure	bar	2–3									
Inlet water temperature	°C	5–30									

Table 10: Operating water (drinking water quality)

Environmental conditions

EASYZON		125 L	125 M	125 H	250 L	250 M	250 H	500 M	500 H	1000 H	2000 H
Protection class		IP65									
Ambient temperature	°C	5–40									
Relative humidity	%	90 (non-condensing)									

Table 11: Environmental conditions

Electrical specifications

EASYZON		125 L	125 M	125 H	250 L	250 M	250 H	500 M	500 H	1000 H	2000 H
Power supply	V	110–230									
Voltage frequency	Hz	50–60									
Rated output	W	60 (without auxiliary equipment)									

Table 12: Electrical specifications

Connections

EASYZON		125 L	125 M	125 H	250 L	250 M	250 H	500 M	500 H	1000 H	2000 H
Water inlet		DN15 / G1" / cemented connection Ø20									

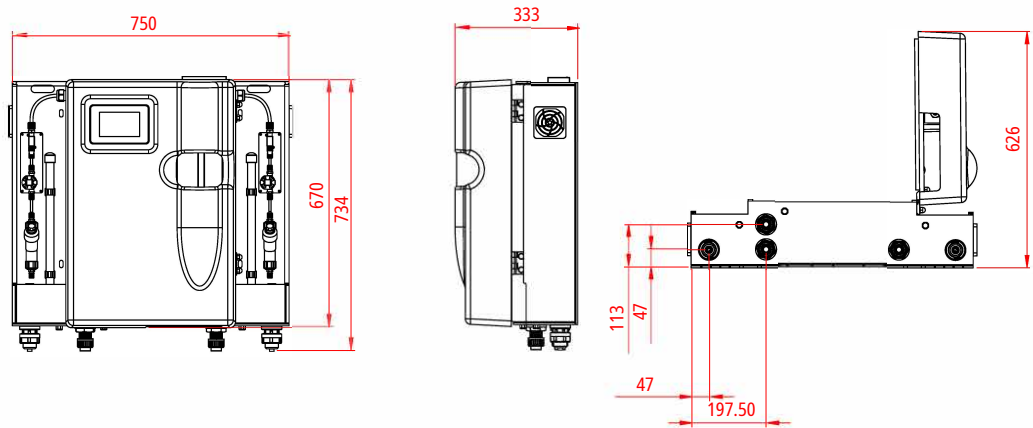
EASYZON		125 L	125 M	125 H	250 L	250 M	250 H	500 M	500 H	1000 H	2000 H
Inlet water pressure reducing valve		R1/2" / G3/4"									
Product outlet		DN15 / G1" / cemented connection Ø20									
Reagent inlet		Ø4 x 6 mm									

Table 13: Connections

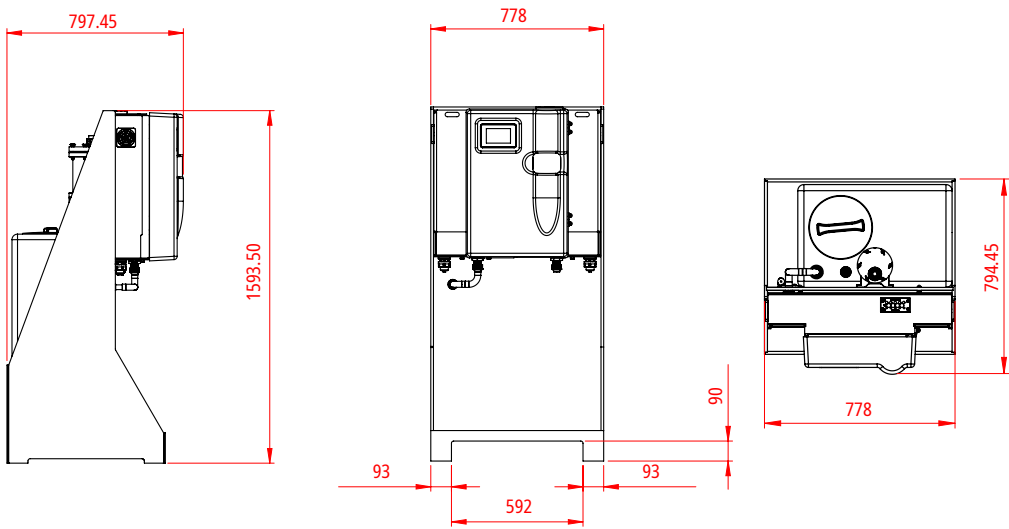
6 Dimensions

All dimensions in millimetres (mm).

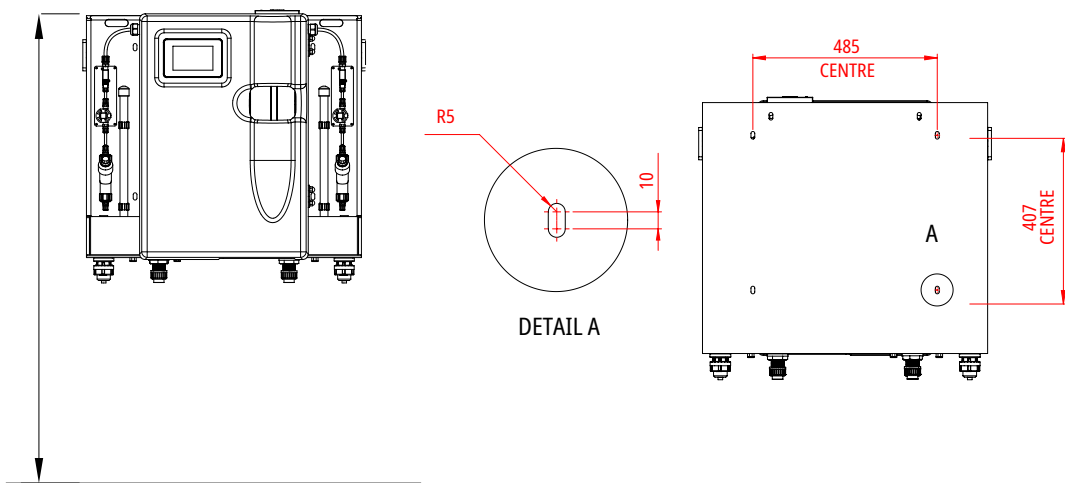
Modular



Skid



Installation



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7 Installation



WARNING

Danger due to contact with chemical substances

Improper installation can lead to death or severe injuries.

- ▶ NEVER mix reagents, except as part of chlorine dioxide preparation with the EASYZON system.
- ▶ Only authorised specialist personnel may carry out installation work.
- ▶ Wear protective gloves and goggles and have a respirator mask ready.
- ▶ All location conditions must be met to ensure safe and optimal operation of the system.

The local regulations and guidelines must be observed during installation.

7.1 Installation location

Before you install the system, certain location conditions must be met to ensure safe and optimal operation of the system.

Location conditions

- There is sufficient ventilation and lighting.
- There is sufficient protection against frost.
- There is sufficient space for installation and maintenance work.
- The required warning signs are mounted in clearly visible locations.
- There is access to a water supply of drinking water quality for a permanent connection.
- All environmental conditions have been met (→ Technical data [► 15]).
- The location complies with all local regulations, including fire safety and accident prevention laws.
- The location is protected against unauthorised access.
- Smoking and open flames are prohibited in areas where sodium chlorite is stored and handled.
- The base for the product tank and bund is level and firm.

7.2 Installation

- Observe the location conditions (→ Installation location [► 18]).
- You do not have to place containers and tanks directly next to the EASYZON. The maximum length of the suction line is 50 metres.
- Make sure that the EASYZON is lifted into the correct position by two people.

7.3 Operating water

Requirements

- The operating water must be of drinking water quality and comply with the specifications (→ Technical data [► 15]).
- A suitable backflow preventer that meets the requirements of IEC 61770 must be installed if the appliance is connected to a drinking water source.
- A booster pump is required if pressure and flow rate in the supply line are too low or irregular.
- A pressure reducing valve is supplied and should be set between 2 and 3 bar for optimal operation of the generator.

7.4 Product outlet

Requirements

- The product outlet can be connected to an external storage tank or directly to the point of application.
- The material used for product transfer and storage must be compatible with a 0.2 wt.% ClO₂ solution.
- Outlet piping should not restrict the flow because any restriction reduces the overall output capacity.
- The maximum permissible back-pressure on the outlet is 0.5 bar.

7.5 Product tank

- The material used for the transfer and storage of the product must be compatible with the 0.2 wt.% ClO₂ solution.
- The tank should be of dark colour and located in a place where direct sunlight and heat can be avoided.
- The tank must be clearly labelled.
- The volume of the tank should be adequate to avoid long storage times.
- The product should be filled into the tank in such a way that there is no interference or splashing of the solution.
- The connections and the lid of the tank should be tightly sealed to prevent exposure to chlorine dioxide gas; air exchange/displacement in the tank only takes place via a gas scrubber or absorber.

7.6 Gas scrubber

The inlet of the gas scrubber should be mounted to the product tank in a vertical position with the outlet vented to atmosphere.

7.7 Storage tanks for reagents

- The suction lines for the reagents can be up to 25 metres long so that the tanks can be placed at a safe distance from the generator.
- The storage tanks must be clearly labelled and located in well-ventilated areas.

- Storage tanks must be placed in a bund approved for the chemical.

7.8 Suction lines for reagents

- The material of the suction lines must be compatible with the reagents used.
- The suction lines should have adequate fixings and mechanical protection.

7.9 Suction pressure regulator valve (anti-siphon)

- You must fit a suction pressure regulator above the reagent storage tanks to prevent siphoning in the event of damaged or leaking suction lines.
- During commissioning, you need to make adjustments to the suction pressure regulator to ensure correct operation (→ Commissioning [► 23]).
- Follow the precise installation instructions in the operating manual for the suction pressure regulator.

7.10 Electrical installation



DANGER

Mortal danger from electric shock!

Live parts can inflict fatal injuries.

- Disconnect the external power supply before working on the system or its components.
- Secure the system to prevent it from being switched on again.
- Connect the system to the power supply in accordance with local regulations.



CAUTION

System damage due to incorrect wiring!

Incorrect wiring can lead to irreversible damage to the system.

- Disconnect the power supply to the EASYZON before carrying out any electrical work.
- Study the supplied wiring diagrams and instructions before starting work.
- Ensure that only trained qualified personnel carry out electrical or maintenance work.

- To protect the final circuit, use a circuit breaker that meets the requirements of IEC 60947-2, type C or K, and that is clearly labelled.
- Connect the cable cores in accordance with the local wiring regulations and the wiring diagram.

7.10.2 Field wiring

Use the field wiring diagram to make all external connections to the EASYZON controller (→ Wiring diagram [► 20]).

You have to activate the inputs in *Settings 1* on the control panel.

7.10.3 Empty detector for reagents

You can connect empty detectors for storage tanks to the underside of the control panel. You can activate the switch inputs on the *SETTINGS 1* screen.

(M12, 4-pin, female, A-code)

Pin 2 = +24V

Pin 3 = Signal

Left = Acid empty (NC)

Right = Chlorite empty (NC)

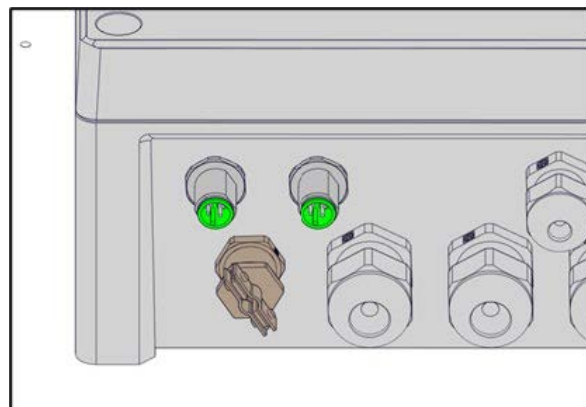


Fig. 6: Connections for empty detectors

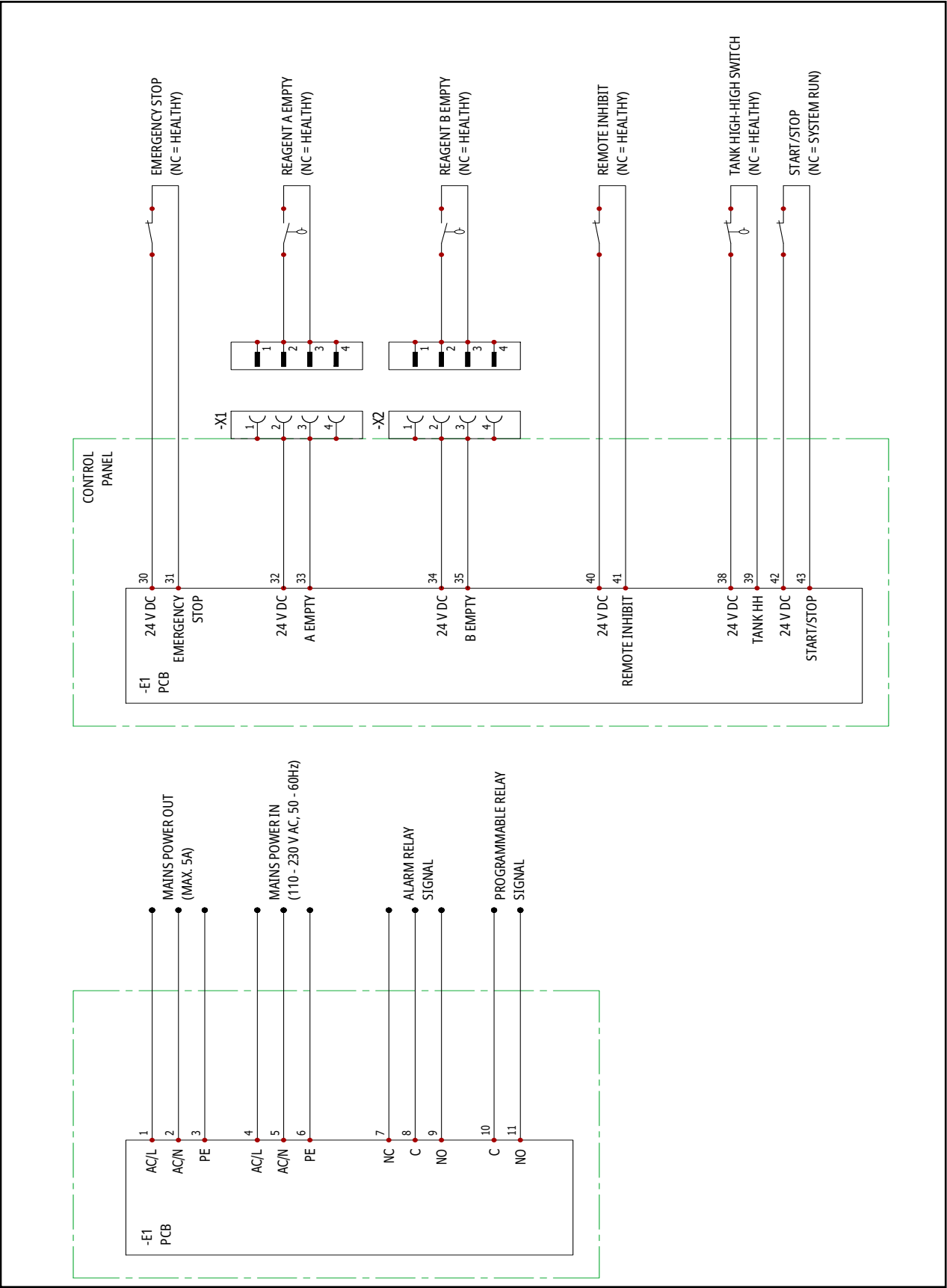
7.10.1 Connecting to the power supply

The appliance is labelled as IEC class 1 and must be earthed in accordance with local regulations.

Recommendations

- Establish the connection to the power supply via an external isolating switch. It should be located within easy reach of the equipment, not be obscured from view and be clearly labelled as the disconnection device.

7.10.4 Wiring diagram



8 Transportation



CAUTION

Machine damage and injuries from heavy objects!

The system is a heavy object. Improper transport and delivery procedures may result in irreversible damage to the system or injuries to personnel.

- ▶ Use a lift truck to move the EASYZON into position.
- ▶ Wear suitable personal protective equipment.
- ▶ Ensure that the system is always lifted by two people.
- ▶ Note the size and weight of the system (→ Technical data [▶ 15]).

Delivery damage

If your package has been damaged due to improper transport and handling, inform your carrier and follow the returns procedure if necessary.

Transport conditions:

- The system may only be transported when empty, i.e. without residual chemical solutions.
- If the system has been in operation, you must decommission it properly before transporting it (→ Shutdown and disposal [▶ 31]).
- If necessary, suitable lifting and transport equipment must be used.
- If possible, the EASYZON L system should be protected by packaging to prevent possible damage.
- Temperatures must not be below 0°C. The risk of cold embrittlement of the plastics contained can lead to cracks in weld seams, tank walls and piping.
- If the system is to be returned to the supplier/manufacturer, please note the documents to be enclosed (→ Decontamination declaration [▶ 38] and → Warranty claim [▶ 39]).

9 Storage

You have to shut down the system for a longer period of time before placing it into storage (→ Shutdown and disposal [► 31]). Proper storage extends the service life of the system.

Storage conditions:

- The environment must be cool, dry, well ventilated and free of chemicals and dust.
- The system may only be put into storage when empty, i.e. without residual chemical solutions.
- If the system has been in operation, you must decommission it properly before putting it into storage (→ Shutdown and disposal [► 31]).
- The temperature must lie between +5 °C and 45 °C.
- The relative humidity must be below 90 %.
- If possible, the EASYZON L system should be protected by packaging to prevent possible damage.
- If necessary, suitable lifting and transport equipment must be used.

10 Commissioning



WARNING

Danger through contact with chemical substances

Improper commissioning can lead to death or severe injuries.

- ▶ NEVER mix reagents, except as part of chlorine dioxide preparation with the EASYZON system.
- ▶ Only authorised specialist personnel may carry out commissioning work.
- ▶ Wear protective gloves and goggles and have a respirator mask ready.
- ▶ All location conditions must be met to ensure safe and optimal operation of the system.

10.1 Pre-commissioning checks

No.	Description	(✓)
1	The system has been installed in accordance with the requirements (→ Installation [► 18]).	
2	The technical conditions have been met (→ Technical data [► 15]).	
3	Reagents of the correct type and concentration are connected to the correct inlets.	
4	The hydraulic connections and valves are tight, both internally and externally on the EASYZON.	
5	The water supply is isolated.	

10.2 Configuring the basic settings

Make the following basic settings (→ Operation [► 25]).



SETTINGS 1

1. Set the tags for system, reagent A, reagent B and site.
2. Set the stop tag (STOPPED if you are dosing directly to the application, TANK FULL if you are filling an external tank).
3. Set the status of the installed connections (LINKED OUT = input not in use).



SETTINGS 2

4. Select the operating mode (batch mode ON/OFF).
5. Enter the operating output percentage.
6. Set the automatic restart delay time.



MAINTENANCE

7. Reset the timers for *SERVICE DUE* and *REACTOR CHANGE* if you performing the initial commissioning.



USAGE

8. Reset the usage counters for the reagents.



REFILL

9. Set the low level warning volume.
 10. Set the fill volume of the reagent tanks.
- ☞ Basic settings configured.

10.3 Priming the suction lines

You use the prime/flush function to prime the reagent suction lines with water. This step is required before you use chemical reagents.

1. Place the hose from each suction pressure regulator valve inlet (anti-siphon valve) into a container of water positioned next to the reagent storage tanks.



2. Press on the home screen to enter the *CHEMICAL USAGE* screen.
 3. Press the *PRIME* button.
 - ↳ The *PRIME FLUSH* screen is displayed.
 4. Open the water supply valve.
 5. Select the number of batch cycles to be performed (10 cycles are set by default).
 6. Press the start button and allow the EASYZON to count down to 0 cycles.
 7. While the system is batching, set the pressure reducing valve to 2–3 bar.
 8. Check for air and water leaks.
 9. Wait until the cycles have reached the value 0.
 - ↳ The priming of the suction lines and the reactor vessel has now been completed.
- ☞ Suction lines primed with water.

10.4 Adjusting the suction pressure regulator valve (anti-siphon)

You need to adjust the suction pressure regulator valve so that no reagents can be siphoned out of the storage tanks if suction lines are damaged. You should make these adjustments setting while the suction lines are still primed with water.

1. Disconnect the DN4 hose from the inlet of reagent A and place it on the floor.
 2. Turn the adjusting screw on the underside of the suction pressure regulator until the water no longer flows out of the hose onto the floor.
 3. Repeat the steps for the suction pressure regulator valve of reagent B.
- ☞ Suction pressure regulator valve adjusted.

10.5 Starting chemical production

- ✓ All pre-commissioning checks have been carried out.
 - ✓ The basic settings have been made.
 - ✓ The suction lines have been primed.
 - ✓ The suction pressure regulator valves have been adjusted.
1. Check whether the system's main alarms and all external inputs are functioning correctly.
 2. Check the other inputs:
 - Emergency stop
 - Bund flood
 - Reagent A empty
 - Reagent B empty
 - Remote inhibit
 - Tank low
 - Tank high
 3. Remove the reagent suction lines from the water container and connect them to the reagent storage tanks.
 4. When ready and safe to do so, start the generation of chlorine dioxide by pressing the ON button on the home screen. You can monitor the batching process on the process information screen.
- 🔊 Chemical production started.

11 Operation

11.1 Control panel

You control the EASYZON on a touchscreen user interface. You can use your finger or a touch pen.

The system is pre-configured. You do not need to adjust any parameters other than those specified in the commissioning procedure (→ Commissioning [► 23]).

11.2 Home screen icons



Reagents

Here you can monitor reagent usage, refill reagents and prime the suction lines.



Alarm and event log

You will find the alarm and event log here. Press the info icon for a detailed alarm description and remedial measures.



Process information

Here you can display a process diagram with inputs and outputs as well as PLC input/output status.



Settings 1 and 2

You can make basic settings here.



Maintenance settings

You can make maintenance settings here.

11.3 User rights

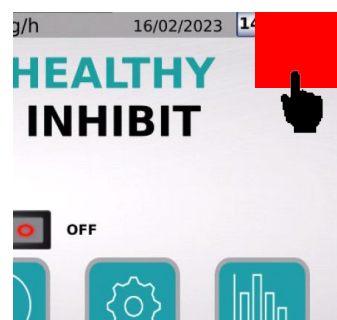
To change settings and access certain functions of the software, you must be logged in as a user. There are three different users, each with different rights.

User	Rights
Operator (password 002236)	- Access to the basic settings - Performing of flush cycles - Using the refill/reset function on the <i>CHEMICAL USAGE</i> screen.
Maintenance (Only for authorised service personnel)	- Access to advanced settings - Access to the maintenance functions - Access to the serial communication settings

Table 14: User rights

11.4 Logging in

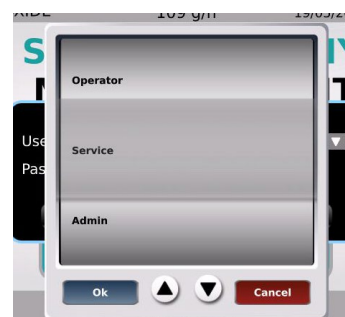
1. Press and hold the area in the top right-hand corner of the screen until the login window appears.



2. Press *Log in*.



3. Select the user type and press OK.



4. Enter the password.

🔒 Login successful.

11.5 Manual inhibit

You can inhibit operation of the EASYZON L manually to stop generating immediately. Press the ON/OFF switch on the home screen.

11.6 Remote inhibit

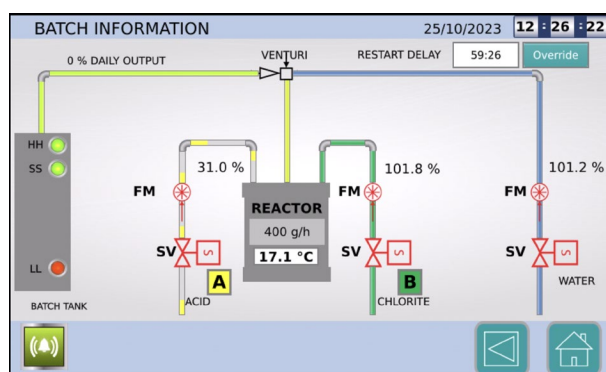
You can inhibit operation remotely using an external voltage-free contact connected to the EASYZON control panel. You will see *REMOTE INHIBIT* on the screen if it is activated. If you use the remote inhibit, you need to select the input in *SETTINGS 1*.

11.7 Stopped/Tank full

If you have stopped production manually or if the product tank is full, the system displays *STOPPED* or *TANK FULL*:



If the product tank is not full or the system is ready to generate, you can manually override the restart delay on the *BATCH INFORMATION* screen:



You can change the restart delay time in the settings.

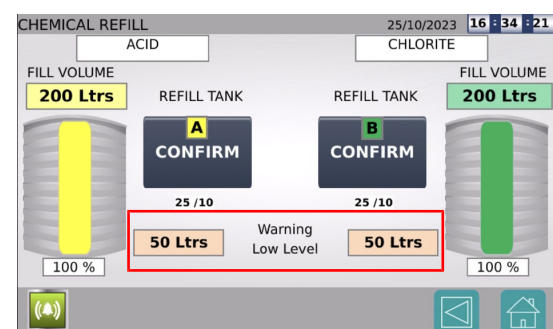
11.8 Emergency stop

In an emergency, you can stop the generation process immediately using an emergency stop switch connected to the control panel. The switch turns off the entire power supply to the outputs and activates a software alarm.

11.9 Reagent low level

You can have warnings displayed when the reagent level in the storage tanks reaches a certain number of litres. You can monitor this volume remotely.

To set up the warning, enter the number of litres in the fields next to *Warning Low Level*.



11.10 Refilling the reagent tank

1. Navigate to the *CHEMICAL REFILL* screen.
 2. Confirm the refill.
 3. Press the *FILL VOLUME* box to change the fill volume.
- After you have confirmed the refill, the tank display returns to 100% and the refill date (DD/MM) is updated.

11.11 User interface communication

The user interface supports the following communication protocols as standard:

- Modbus TCP
- Ethernet/IP
- E-mail
- VNC
- SMS

A plug-in interface module is required for:

- Modbus RTU (RS-485 module PN: 90890000)

12 Maintenance

Products from Lutz-Jesco GmbH are manufactured to the highest quality standards and have a long service life. However, some parts are subject to operational wear.

This means that regular inspections are necessary to ensure a long operating life of the product. Regular maintenance of the product protects against operational interruptions and ensures compliance with the warranty conditions.



DANGER

Mortal danger from electric shock!

Live parts can inflict fatal injuries.

- ▶ Disconnect the power supply before working on the system.
- ▶ Only authorised electricians may carry out electrical work.



NOTICE

System damage due to incorrect maintenance!

Ignoring the maintenance instructions can result in damage to property or malfunctions.

- ▶ Read the maintenance instructions before starting work.
- ▶ Only authorised maintenance personnel may carry out maintenance work.



WARNING

Danger due to contact with chemical substances

Improper maintenance can lead to death or severe injuries.

- ▶ Only authorised maintenance personnel may carry out maintenance work.
- ▶ Wear protective gloves and goggles and have a respirator mask ready.

12.1 Maintenance checks for users

The following maintenance checks are to be carried out regularly by users after they have been instructed by the operator / authorised maintenance personnel.

Refilling/replacing reagent tanks

1. Replace or refill reagent tanks as they become empty.
2. Monitor the fill levels to prevent operation downtime. You can configure low level warnings in the software.
3. Reset the tank level counters after replacing or refilling reagents (→ Refilling the reagent tank [▶ 26]).

Cleaning the strainer of the pressure reducing valve

1. Check whether the feed water to the pressure reducing valve is isolated.

2. Unscrew the strainer bowl and remove all impurities from the strainer mesh.
3. If you need to clean the strainer too often, use a pre-filter (recommended).

Performing general checks

1. Check for leaks.
2. Check the condition of the pipework and components.
3. In the event of leaks or damage to the system, inform the operator immediately.

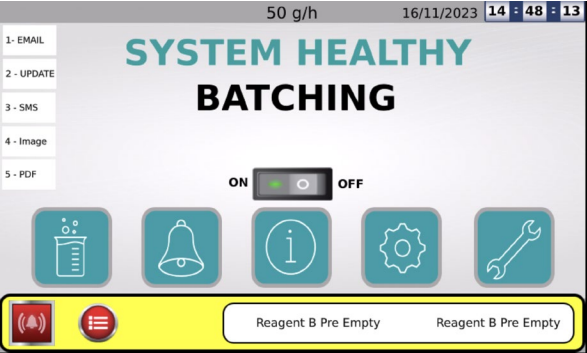
12.2 Maintenance for authorised personnel

The EASYZON has a 4-year maintenance cycle with 1-year intervals. The cycle is to be repeated after four years. Spare part sets are available (→ Spare parts [▶ 32]).

13 Troubleshooting

13.1 System warnings

System warnings are displayed on a yellow banner at the bottom of the screen. After a defined alarm delay time, some warnings cause a system fault. Warnings are logged in the alarm history.

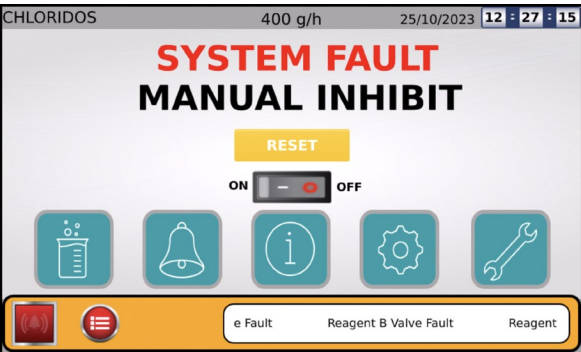


13.2 System faults

System faults are displayed on an orange banner at the bottom of the screen.

Once a fault has been rectified, you can press the reset button to change the status to *HEALTHY* and resume generation.

Press the  button to access the alarm summary.



Press the info icon in the alarm summary to display the cause and possible remedies for the fault.



13.3 Fault messages

Fault message	Possible cause	Solution
Bund flood	There is liquid inside the reagent or storage tank bund.	Find and repair the leak and empty the bund.
	The bund float switch is stuck in an upwards position or has an open circuit.	Repair or replace the float switch.
Emergency stop	The emergency stop button has been pressed.	Reset the emergency stop switch if safe to do so.
	There is a fault with the emergency stop wiring or switch.	Check and repair switch wiring.
Tank low	The product tank is leaking.	Find and repair leaks.
	The level switch is in the open circuit position.	Repair or replace level switch.
	The demand of the application is too high for the output of the generator.	Reduce the demand of the application or increase the size of the generator.
	The output setting is too low.	Increase output % in the settings.
Tank high	The water solenoid valves are leaking.	Find the leak and repair or replace the valve.
	Start/stop or fill level sensor is raised or in open circuit position.	Repair or replace the level switch.
	There is a back-flow from the application into the product tank.	Eliminate the back-flow from the application.
Water flow fault	The inlet water pressure is low.	Adjust the pressure reducing valve or increase the water pressure.
	The strainer of the pressure reducing valve is blocked.	Clean the strainer.
	The water solenoid valve or connection is defective.	Repair or replace the water solenoid valve.
	The water flow meter or wiring connection is defective.	Repair or replace the water flow meter.
	There is a blockage in the system.	Clear blockage.
Reagent A or B underfeed	There is a low liquid level inside the reagent storage tanks.	Refill the reagent storage tanks.
	There is an air leakage or blockage in the reagent suction line.	Repair leakage or blockage in the suction line.
	The Y-strainer is blocked.	Clean the Y-strainer and remove blockages.
	The flow meter or wiring connection is faulty.	Repair or replace the flow meter.
	The reagent solenoid valve is defective.	Repair or replace the solenoid valve.
	The inlet water pressure is low (low vacuum).	Adjust the inlet water pressure (2 - 3 bar).
Reagent A or B overfeed	The reagent solenoid valve is defective.	Repair or replace the solenoid valve.
	Reagent temperatures are below 10°C.	Install heater or heat tracing for reagents.
Reagent A or B is empty	There is a low liquid level inside the reagent storage tanks.	Refill the reagent storage tanks.
	The reagent storage tank is leaking.	Repair the leak.
	The level switch is in the open circuit position.	Repair or replace level switch.
	The sensor or cable connections are defective.	Repair or replace the sensor.
A or B dilution water low	The inlet water pressure is low.	Adjust the pressure reducing valve or increase the water pressure.
	The strainer of the pressure reducing valve is blocked.	Clean the strainer of the pressure reducing valve.
	The water solenoid valve or connection is defective.	Repair or replace water solenoid valve A or B.
	The water flow meter or wiring connection is defective.	Repair or replace water flow meter A or B.
	There is a blockage in the system.	Clear blockage.
Reagent A or B valve vault	The reagent solenoid valve is stuck in the open position.	Remove the blockage inside the solenoid valve.
	The reagent solenoid valve always energised.	Repair or replace wiring, PCB or PLC.
	The temperature of the reagents is too low (must be > 10°C).	Install heating or trace heating.
Reactor temp high	Concentrated reagents have been used without dilution.	Replace reagents or adjust dilution correctly.
	The inlet water temperature is too high.	Reduce the inlet water temperature.

Table 15: Fault messages

13.4 System messages

Message	Reason
Remote inhibit	The connection to the remote inhibit is open circuit.
	The external control unit has requested remote inhibit of the system.
Reagent A or B pre-empty	The reagent level is below the values set on the <i>CHEMICAL USAGE</i> screen. Refill the reagent tanks and press the refill button to clear the warning.
	Set the warning level to 0 litres if this function is not being used.
Manual inhibit active	The system has been manually stopped using the ON/OFF button on the display.
Service due	The service counter has reached 0 months. Maintenance is now due. Authorised personnel can reset this warning once maintenance has been completed.
Reactor change due	The reactor change counter has reached 0 months. A reactor change is now due. Authorised personnel can reset this warning once the reactor has been replaced.
Reactor temp sensor fault	The temperature sensor of the reactor is defective or not connected.
'XXXXXX' linked out	The digital input has been deactivated and will not trigger any warnings or alarms. This is recorded.

Table 16: System messages

14 Shutdown and disposal



WARNING

Danger from contact with chemical substances!

Improper shutdown can lead to death or severe injuries. The system may contain chemical residues even after flushing.

- Only authorised maintenance personnel may drain the system.

You must flush the EASYZON with water before carrying out maintenance work.

Before you shut down the system temporarily or for a longer period of time, you must drain the system.

14.1 Flushing the system

1. Remove the suction lines of the reagents from the storage tanks and place them into separate water containers.

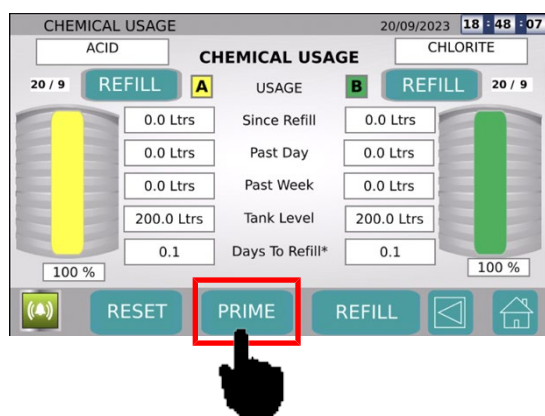


2. Press the icon on the home screen.



↳ You see the *CHEMICAL USAGE* screen.

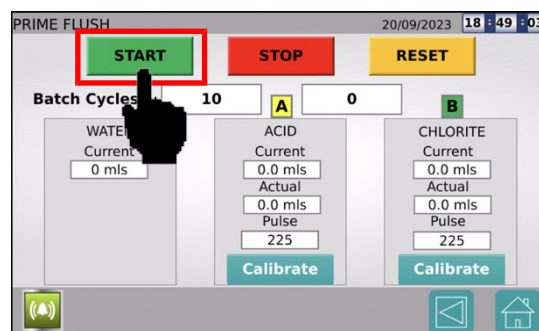
3. Press *PRIME*.



↳ The *PRIME FLUSH* screen appears.

4. Select the number of batch cycles to be completed (the default value is 10).

5. Press *START* and let the EASYZON count down to 0 cycles.



6. When the number of cycles reaches 0, flushing of the suction lines and reactor vessel with water is completed.

☞ System flushed with water.

14.2 Emptying the reactor vessel

- ✓ You have flushed the system with water.

1. Disconnect the screw connections on the reactor vessel and the ejector.
2. Remove the ejector and the reactor vessel from the EASYZON cabinet.
3. Carefully tilt the reactor vessel until all the liquid has emptied into a container.
4. Re-insert the reactor vessel.

☞ Reactor vessel emptied.

14.3 Neutralising chlorine dioxide

Chlorine dioxide may still be present in the solution drained from the reactor vessel.

1. Neutralise the container with sodium thiosulphate.
2. Dilute it with water before pouring it down a drain.

☞ Chlorine dioxide neutralised.

14.4 Disposal of old equipment

Comply with the following instructions when disposing of an old device:

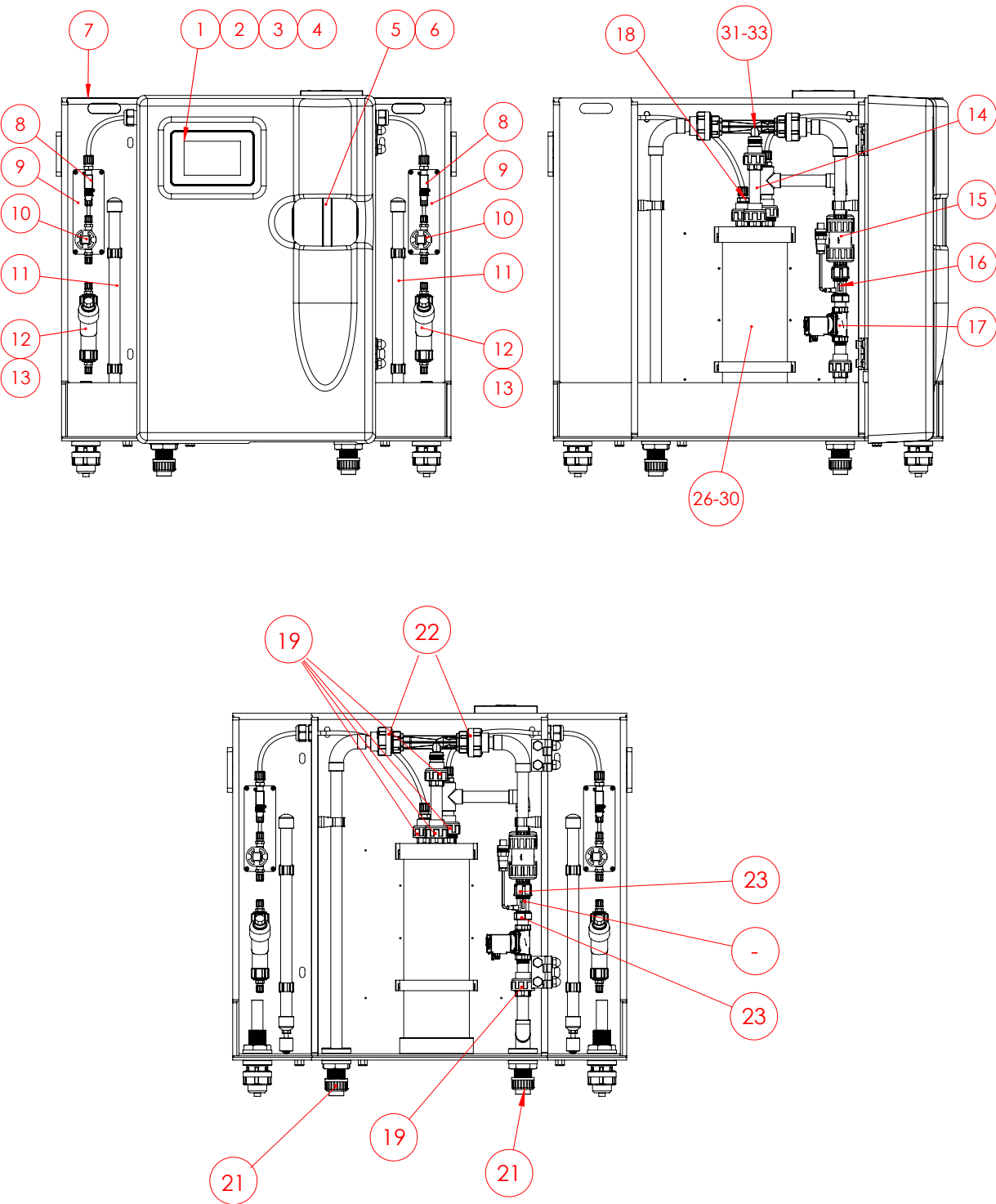
- You must dispose of the device in accordance with local laws and regulations. It should not be disposed of as domestic waste!

As the disposal regulations may differ from country to country, please consult your supplier if necessary.

In Germany, the manufacturer must provide free-of-charge disposal. However, a requirement is that the device is safely returned along with a decontamination declaration (→ Decontamination declaration [► 38]).

15 Spare parts

Only authorised maintenance personnel may replace the parts mentioned in this section.



15.1 Maintenance schedule (modular)

Interval	Part no.	Item	Description	Quantity
After 1 year	43757	-	Gas scrubber spare parts set	1
	43758	19	O-ring	4
		22	O-ring	2
		21	Seal	1
		15	Non-return valve	2
		13	Y-strainer mesh	2
	38606	-	Suction pressure regulator spare parts set	2
After 2 years	43757	-	Gas scrubber spare parts set	1
	43760	-	Maintenance set for pressure reducing valve	1
	43761	8	*Reagent solenoid valve	1
	43762	17	Dilution water valve assembly	1
	43758	19	O-ring	4
		22	O-ring	2
		21	Seal	1
		15	Non-return valve	2
		13	Y-strainer mesh	2
	38606	-	Suction pressure regulator spare parts set	2
After 3 years	43757	-	Gas scrubber spare parts set	1
	43758	19	O-ring	4
		22	O-ring	0
		21	Seal	1
		15	Non-return valve	2
		13	Y-strainer mesh	2
	38606	-	Suction pressure regulator spare parts set	2
After 4 years	43757	-	Gas scrubber spare parts set	1
	43760	-	Maintenance set for pressure reducing valve	1
	43761	8	*Reagent solenoid valve	1
	43763	19	O-ring	5
		22	O-ring	2
		21	Seal	2
		23	Seal	4
		15	Non-return valve	2
		13	Y-strainer mesh	2
	38606	-	Suction pressure regulator spare parts set	1
	43763	17	Dilution water valve assembly	2
		1	PLC battery	1
		14	Ejector suction line assembly	1
		-	Reagent tubing set (violet PTFE)	1
	43764	26	125 L/125 M/250 M/500 H reactor vessel	1
	43765	27	250 L/500 M/1000 H reactor vessel	1
	43766	28	125 H/250 H reactor vessel	1
	43767	29	2000 H reactor vessel	1

Table 17: Maintenance schedule (EASYZON L/M/H modular)

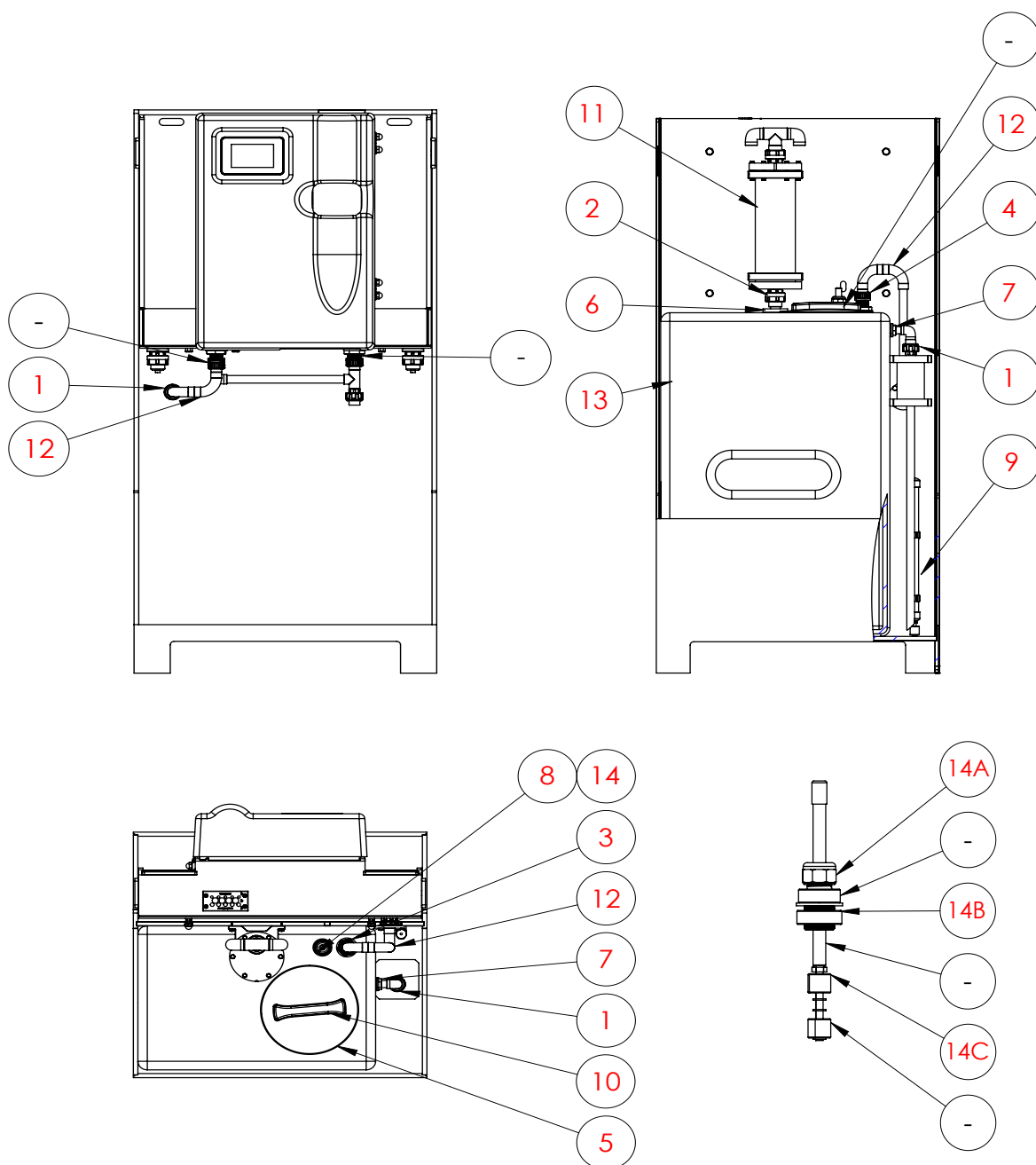
*Reagent solenoid valves (x2) are recommended for concentrate systems (125 H/250 H/500 H/1000 H/2000 H).

15.2 Spare parts list (modular)

Item	Description	Quantity
1	PLC	1
2	Circuit board	1
3	PLC-PCB connection board set (3x boards, 3x ribbon cables)	1
4	Instrument panel (navy)	1
5	LED status display	1
6	EASYZON cover	1
7	Transparent window in the reagent compartment	1
8	Reagent solenoid valve	1
9	Reagent dosing plate assembly	1
10	Flow meter for reagents	1
11	Bund float switch	1
12	Y-strainer	1
13	Y-strainer mesh	1
14	Ejector suction pipe	1
15	Non-return valve	1
16	Dilution water flow meter	1
17	Dilution water solenoid	1
18	Temperature sensor	1
24	Tube adapter and O-ring	1
25	Tube adapter and O-ring	1
26	125L / 125M / 250M / 500H reactor vessel	1
27	250L / 500M / 1000H reactor vessel	1
28	125H / 250H reactor vessel	1
29	2000H reactor vessel	1
31	125L / 125M / 250L ejector	1
32	125H / 250M / 500M ejector	1
33	250H / 500H / 1000H / 2000H ejector	1
34	Tube adapter and O-ring	1
35	Tube adapter and O-ring	1
-	Reagent tubing set (violet-coloured PTFE tubing)	1
-	Reagent flow meter plug + cable	1
-	Reagent solenoid plug + cable	1
-	Dilution water solenoid plug + cable	1
-	Cable for dilution water flow meter (M12, 4-pin, code A)	1
-	Connector for dilution water flow meter (M12, 4-pin, code A)	1
-	Hose connection with dual containment	1

Table 18: Spare parts list (modular)

15.3 Maintenance schedule (skid)



Interval	Part no.	Item	Description	Quantity
Every year	43768	1	O-ring	2
		2	O-ring	1
		3	Seal	1
		4	Seal	1
		5	Seal	1
		6	Seal	1
		7	Seal	1
		14	Level switch seals set	1
Every two years	43769	10	Tank lid	1

Table 19: Maintenance schedule (skid)

15.4 Spare parts list (skid)

Item	Description	Quantity
1	O-ring	10
2	O-ring	10
3	Seal	10
4	Seal	10
5	Seal	1
6	Seal	10
7	Seal	10
8	Dual level switch (float switch)	1
9	Bund level switch (float switch)	1
10	Tank lid	1
11	Gas scrubber	1
12	Product outlet pipework	1
13	Batch tank	1

Table 20: Spare parts list (skid)

16 EU declaration of conformity



(DE) EG-Konformitätserklärung

Hiermit erklären wir, dass das nachfolgend bezeichnete Gerät aufgrund seiner Konzipierung und Bauart sowie in der von uns in Verkehr gebrachten Ausführung den einschlägigen grundlegenden Sicherheits- und Gesundheitsanforderungen der aufgeführten EG-Richtlinien entspricht. Bei einer nicht mit uns abgestimmten Änderung am Gerät verliert diese Erklärung ihre Gültigkeit.

(EN) EC Declaration of Conformity

We hereby certify that the device described in the following complies with the relevant fundamental safety and sanitary requirements and the listed EC regulations due to the concept and design of the version sold by us.

If the device is modified without our consent, this declaration loses its validity.

(FR) Déclaration de conformité CE

Nous déclarons sous notre propre responsabilité que le produit ci-dessous mentionné répond aux exigences essentielles de sécurité et de santé des directives CE énumérées aussi bien sur le plan de sa conception et de son type de construction que du modèle que nous avons mis en circulation.

Cette déclaration perdra sa validité en cas d'une modification effectuée sur le produit sans notre accord explicite.

(ES) Declaración de conformidad CE

Por la presente declaramos que, dados la concepción y los aspectos constructivos del modelo puesto por nosotros en circulación, el aparato mencionado a continuación cumple con los requisitos sanitarios y de seguridad vigentes de las directivas de la U.E. citadas a continuación.

Esta declaración será invalidada por cambios en el aparato realizados sin nuestro consentimiento.

(NL) EU-overeenstemmingsverklaring

Ondergetekende Lutz-Jesco GmbH, bevestigt, dat het volgende genoemde apparaat in de door ons in de handel gebrachte uitvoering voldoet aan de eis van, en in overeenstemming is met de EU-richtlijnen, de EU-veiligheidsstandaard en de voor het product specifieke standaard. Bij een niet met ons afgestemde verandering aan het apparaat verliest deze verklaring haar geldigheid.

(PT) Declaração de conformidade CE

Declaramos pelo presente documento que o equipamento a seguir descrito, devido à sua concepção e ao tipo de construção daí resultante, bem como a versão por nós lançada no mercado, cumpre as exigências básicas aplicáveis de segurança e de saúde das directivas CE indicadas.

A presente declaração perde a sua validade em caso de alteração ao equipamento não autorizada por nós.

Bezeichnung des Gerätes:

Anlage zur Herstellung und Dosierung von Chlordioxid

Description of the unit:

Chlorine dioxide system

Désignation du matériel:

Dioxyde de chlore

Descripción de la mercancía:

Diocido de cloro

Omschrijving van het apparaat:

Installatie voor aanmaak en dosering van Chloordioxide

Designação do aparelho:

Instalações de produção e medição de dióxido de cloro

Typ:

EASYZON L 5/10/20/40/125/250, EASYZON M 125/250/500, EASYZON H 125/250/500/1000/2000

Type:

EG-Richtlinien:

2014/35/EU, 2011/65/EU, 2014/30/EU

EC directives:

Harmonisierte Normen:

EN 60335-1:2012+A2:2019, EN 63000:2018, EN 61000-6-2:2019, EN 61000-6-4:2019, EN 61000-4-2:2009, EN 61000-4-5:2014, EN 61000-4-6:2013, EN 61000-4-11:2020

Harmonized standards:

Dokumentationsbevollmächtigter:

Lutz-Jesco GmbH

Authorised person for documentation:

Heinz Lutz
Geschäftsführer / Chief Executive Officer
Lutz-Jesco GmbH
Wedemark, 21.02.2024

Lutz-Jesco GmbH
Am Bostelberge 19
30900 Wedemark
Germany

17 Decontamination declaration

Due to legal regulations for the protection of our employees and operating facilities, we need the completed and signed declaration of decontamination in order to process your return.

- 1. Copy this page and complete it **for each device separately!**
- 2. Attach the declaration to the outside of the packaging.
- 3. Return the device.

Decontamination declaration

We forward the following device for repairs:

Device designation:

Part no.:

Order no.:

Date of delivery:

Reason for repair:

Medium dosed

Description:

Irritant: ☐ Yes ☐ No

Properties:

Corrosive: ☐ Yes ☐ No

We hereby certify that the device has been thoroughly cleaned inside and out before being returned, contains no hazardous chemical, biological and radioactive agents and has been drained of oil.

If the manufacturer has to perform additional cleaning, we shall be invoiced the costs incurred.

We certify that the aforementioned information is correct and complete and that the device will be returned in accordance with legal requirements.

Company / address:

Phone:

Fax:

E-mail:

Customer no.:

Contact person:

Date, Signature:

18 Warranty claim

If the device breaks down within the period of warranty, please return it in a cleaned condition with the fully completed warranty claim.

1. Copy this page and fill in all fields.
2. Pack the device together with the completed warranty claim.
3. Return the device.

Warranty claim		Date:
Sender		
Company:	Phone:	
Address:	Fax:	
.....	E-mail:	
.....	Contact person:	
Manufacturer order no.:	Delivery date:	
Device type:	Serial number:	
Nominal power / nominal pressure:		
Fault details:		
.....		
.....		
.....		
.....		
.....		
Operating conditions of the device		
Application site / site description:		
.....		
.....		
Accessories used:		
.....		
.....		
Commissioning (date):		Operating hours (approx.):
Please state the specific characteristics of the installation and enclose a basic sketch or photograph of the installation, indicating the materials, diameters, lengths and heights.		
.....		

19 Confirmation of training instruction

You can use the following form as a copy template to record confirmation of training instructions.

Confirmation of training instruction

Topic of the training:

Date:

Training instructor:

Training instructor s signature:

No.	Name	First name	Signature
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Notes

Blank lined paper for writing.



Lutz-Jesco GmbH

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