

## Operating Instructions



# Brine fogging system Type SOLDOS-V3-BASIC



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(Original installation and operating instructions)

## **Preface**

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Dear customer,

Thank you for choosing WDT's brine fogging system.

SOLDOS-V3-BASIC corresponds to the latest state of the art.

Please contact us if you have any further questions. For queries and spare parts orders, please always have the device type and serial number (see identification plate on the device) at hand!

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## **Manufacturer and contact**

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## 1 About these instructions / general

### 1.1 Scope of applicability

These Operating and Installation Instructions describe the function, installation, commissioning and operation of the brine fogging system type SOLDOS-V3-BASIC. They must be read carefully before use and kept on the device for direct use, so that they are available at any time!

These Operating and Installation Instructions are an integral part of the device. If the product is resold, the Operating Instructions must be handed over to the new operator.

If you lose the documentation, you can download it from our website at: [www.werner-dosierttechnik.de/Produkte/Wellness/Vernebelung-von-Soleloesung](http://www.werner-dosierttechnik.de/Produkte/Wellness/Vernebelung-von-Soleloesung)

### 1.2 Target group

Only our authorised partners and people who have been trained in the device functions are permitted to work on the device, provided that they have read and understood these Operating Instructions.



#### **WARNING!**

#### **Danger of electric shock!**

**The device is under life-threatening voltage even during downtime!**

- **Electrical connection work may only be carried out by appropriately trained specialists!**

### 1.3 Symbols used

This document uses the following types of safety notices as well as general notices:



#### **DANGER!**

**“DANGER” denotes a safety notice which, if disregarded, will lead to serious or life-threatening injuries or death!**



#### **WARNING!**

**“WARNING” denotes a safety notice which, if disregarded, may lead to serious or life-threatening injuries or death!**



#### **WARNING!**

#### **Danger of electric shock!**

**This safety notice denotes danger due to electric shock, which, if disregarded, may lead to serious or life-threatening injuries or death!**



## CAUTION!

“Caution” denotes a safety notice which, if disregarded, may lead to injuries!



## ATTENTION!

“ATTENTION” denotes a safety notice which, if disregarded, may lead to material damage or may impair the function of the device!



## ATTENTION!

### Danger due to static charge!

This safety notice denotes electronic components that may be damaged by electrostatic discharges.

The generally accepted safety precautions for ESD-sensitive devices must be observed when handling the devices!



## NOTICE

A “Notice” denotes information that is of particular importance for the smooth running of operations and that can disrupt the operating process if not observed.



## TIP

A “TIP” denotes information that may result in improvements in the operating process.



## USE FACE PROTECTION!

Wear approved face protection to prevent facial injuries due to contact with hot or chemical materials.



## USE PROTECTIVE APRON!

Wear an approved protective apron to prevent injuries to the front of your body due to contact with hot or chemical materials.



## USE FOOT PROTECTION!

Wear approved foot protection to prevent injuries to the feet due to falling objects.

## 1.4 Further means of representation

The means of representation used in these instructions denote the following:

- General enumeration
- 1) Work or operating steps that should or must be carried out in the order listed.
- 01.** Numbering of elements (item numbers)
- Step that needs to be checked in particular
- Italics* Labelling of illustrations or plans

## 1.5 Warranty

All WDT devices and systems are manufactured using modern production methods and are subject to comprehensive quality control. However, should there be a reason for complaint, any compensation claims shall be directed to the company WDT in accordance with the general terms and conditions of warranty.

### 1.5.1 General terms and conditions of warranty

The company WDT assumes a 2-year warranty, starting with the commissioning, up to 27 months after delivery; subject to correct installation and commissioning with a completed and signed commissioning protocol.

Exempt from this are wear parts such as seals, hoses, diaphragms, dosing screws, electrodes, roller carriers and other parts that are subject to mechanical or chemical wear and tear. We issue a ½ year warranty for these.

Our enterprise resource planning system requires an invoice for each delivery (including warranty services). When returning a defective component, upon review you will receive a corresponding credit, if applicable. We request a return within 14 days.

The costs for subsequent damage and for the processing of warranty claims are excluded.

There are no warranty claims for damage caused by frost, water and electrical overvoltage or by improper handling.



### **CAUTION!**

**In the event of any unauthorised modifications to the device, the warranty and product liability will be voided!**



### **NOTICE**

In order to protect the warranty claims, please mail the completed commissioning protocol, along with the defective component, to the company WDT.

Without the commissioning protocol, we reserve the right to an exclusion of warranty.

## 1.6 Additional information

Additional information concerning specific topics, such as design of the dosing performance or description of the operating parameters, may be obtained from your specialist dealer, or directly from:

WDT – Werner Dosiertechnik GmbH & Co. KG  
Hettlinger Str. 17  
D-86637 Wertingen-Geratshofen, Germany

Phone: +49 8272 / 98697- 0 (Switchboard)  
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Fax: +49 8272 / 98697 - 19  
Web: [www.werner-dosiertechnik.de](http://www.werner-dosiertechnik.de)  
Mail: [info@werner-dosiertechnik.de](mailto:info@werner-dosiertechnik.de)

## 1.7 Information regarding support queries / identification plate

The control unit of the SOLDOS-V3-BASIC is subject to continued further development of both its firmware and hardware. We always strive to preserve the compatibility of the components used.

For spare part orders, we require the following data. You can find these on the identification plate.

- device designation
- device serial number
- year of manufacture

Enter the data from your device's identification plate here.

<b>Typ: Soldos V3-Basic</b>
Art.: <input type="text"/> Serien Nr.: <input type="text"/>
100-230V - 1~50-60Hz - P: 50 W
CE EAC Herstellung <input type="text"/>
WDT - Werner Dosiertechnik GmbH & Co KG
Hettlinger Str. 17
D-86637-Wertingen
Made in Germany

Field 1: Enter code number

Field 2: Enter serial number

Field 3: Enter date of manufacturing

In addition, we require the following data for technical support queries. These are located in the main menu under menu item ► **Info**.

- current software version
- Serial number



### **NOTICE**

Keep the identification plate clean and in a legible condition!



## 2 Safety notices

### 2.1 Intended use

The SOLDOS-V3-BASIC is used to create a saline ocean climate in steam rooms.



#### **WARNING!**

#### **Health hazard due to unsuitable brine!**

- Use only highly pure, disinfected WDT brine solution!



#### **ATTENTION!**

#### **Damage to the device due to incorrect installation!**

- The device may only be installed and operated in the technical room!
- Pay attention to the information in the technical data on page 15.

Intended use also includes compliance with all conditions and safety instructions prescribed by WDT in accordance with these instructions for:

- Installation
- Dismantling
- Commissioning
- Operation
- Maintenance/servicing
- Disposal

The attachment or installation of additional equipment is only permitted with the manufacturer's written approval.

Pay attention to the nationally applicable regulations for environmental and drinking water protection!

### 2.2 Personnel



#### **WARNING!**

#### **Restricted user group!**

**This device is not intended to be used unsupervised by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and/or knowledge.**

- A person responsible for the safety of this group of users must be entrusted with supervision and must give appropriate instructions for operation.
- Children must be supervised to ensure that they do not play with the device!

Work on the device and changes in the settings may only be carried out by properly instructed persons or persons who have read and understood the Operating Instructions!

The personnel must be informed by the operator of any hazards that may occur. A copy of the Operating Instructions must be left at the device's place of use.

Persons who transport or work on and with the device must have read and understood the relevant parts of the Operating Instructions, and in particular the chapter "Safety notices" starting on page 9.

Pay attention to the nationally applicable regulations for accident prevention and work safety!

## 2.3 Electrical system



### WARNING!

#### Danger of electric shock!

Dangerous electrical voltage!

- All work on the device must be carried out by specialist personnel only!
- All electrical installations and any work on the device's electrical components must be carried out by authorised electricians only!
- Prior to starting work, disconnect the devices from the power supply and secure them against being reactivated!
- Pay attention to the warning notices on the device
- After corresponding electrical installation or repair, test all protective measures used (e.g., earthing resistance)!



### ATTENTION!

#### Damage to the device due to an unsuitable fuse!

- Use only the original fuses with the prescribed current rating!
- Regularly check the device's electrical equipment!
- Immediately eliminate defects such as loose connections, scorched cables or damaged electrical insulation!

The installing specialist company is responsible for an intrinsically safe installation of the SOLDOS V3-Basic.

## 2.4 Operation of the device



### WARNING!

Pay attention to all of the safety and warning notices located on the device!



### CAUTION!

#### Health hazard due to unsuitable brine!

- Use only highly pure, disinfected WDT brine!
- After a downtime of more than 14 days, always renew the brine solution prior to commissioning.
- After opening, the brine solution has a maximum shelf life of 28 days! After that, renew the brine solution and carry out a disinfection!



## WARNING!

### Danger of irritation and/or allergic reactions!

Disinfectants or brine solution may cause irritation and allergic reactions!



- Do not drink, smoke or rub in!
- Do not allow to come into contact with skin or eyes!
- Keep out of the reach of children!
- Only use as approved by the manufacturer! Pay attention to the manufacturer's safety notices!
- Wear chemical-resistant protective gloves and goggles!
- Immediately absorb drip leaks of brine solution or disinfectant with a suitable material, e.g., cotton cloth, and dispose of according to local regulations!

Carefully read and pay attention to the operating instructions prior to installation and use of the device!

In the event of malfunctions or faults in the electrical power supply, immediately switch off the device and secure it against being switched on again!

Faults on the device must be rectified immediately.



## ATTENTION!

### Damage to the device due to repeated switching on without rectifying the fault!

- Rectify any faults immediately!
- Carefully read and pay attention to the operating instructions prior to installation and use of the device!

The device may only be operated with a connected dosing line, so that the brine solution is safely conducted along!

All protection and warning devices must be tested regularly in order to ensure proper function. The device must be checked regularly according to the enclosed maintenance protocol.

## 3 Scope of delivery / accessories/ functional description

---

### 3.1 Scope of delivery / accessories

---

The delivery consists of a ready-to-connect SOLDOS-V3-BASIC with:

- Control unit CB36 with LCD display, mounted in the housing
- 1 diaphragm pump
- Mounting plate with console for brine politainer
- Pressure monitoring
- Stainless steel nozzle with plastic cover shield, wall sleeve and 5m PTFE dosing line
- Disinfection kit with disinfection tablet, mixing container and nozzle adapter
- Sterile brine solution in the politainer 5kg

The following optional accessories are available:

- Button plate with flush-mounted box
- Nozzle washer made of chrome-plated brass
- Sterile brine solution in the politainer 1kg
- Shut-off valve (necessary if the nozzle is installed at a lower level than the SOLDOS)



### **NOTICE**

When receiving the device, ensure that:

- the type and serial number on the identification plate correspond to the details in the ordering and delivery documents.
- the equipment is complete and all parts are in perfect condition.

In the event of any transport damage and/or missing parts, immediately notify the forwarding agent or supplier in writing.

Pay attention to the deadlines for notifying the transport companies for the purpose of assessing damage.

## 3.2 Structure of the overall system

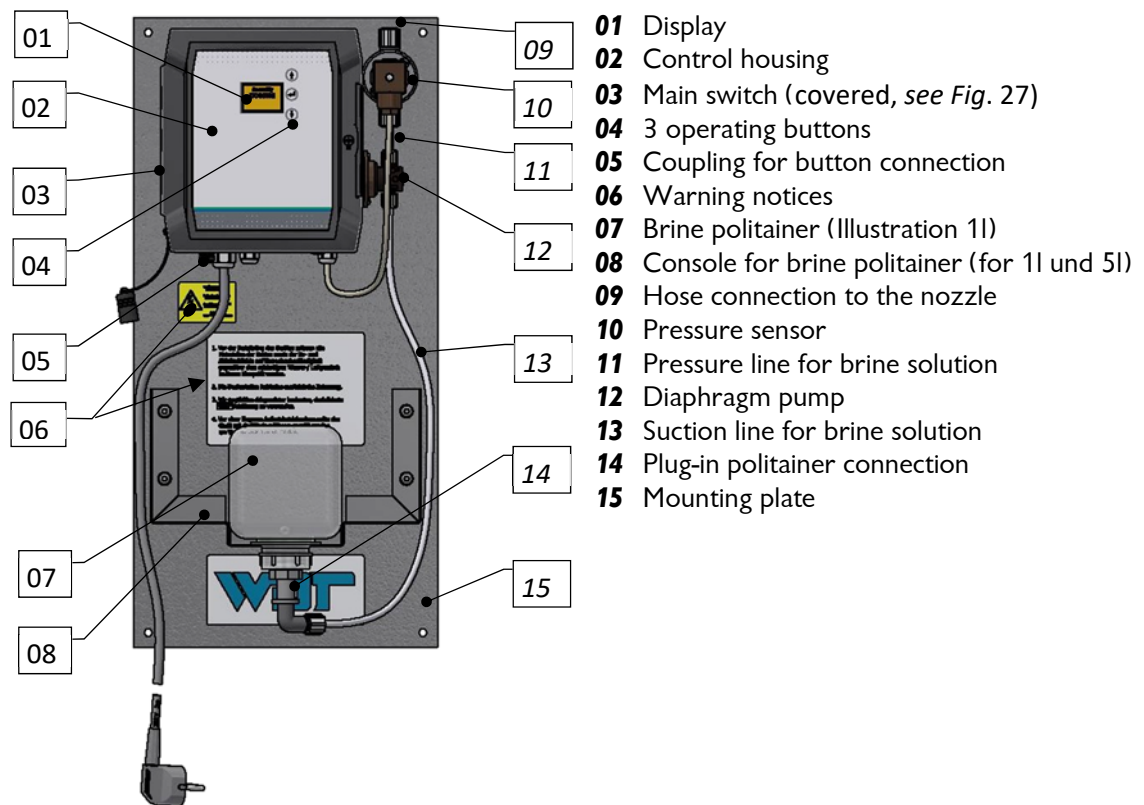


Fig. 1: Brine fogging device type SOLDOS-V3-Basic

## 3.3 Functional description

The SOLDOS-V3-Basic is used to create a saline ocean climate in steam rooms. The brine solution is supplied in a brine politainer filled under sterile conditions. The sterile brine solution is pumped through a fine nozzle under high pressure using a diaphragm pump. In the process, the brine solution is atomised and sprayed into the cabin. After a short time, the room will be filled with a saline ocean climate. The dosing capacity is sufficient for rooms with a base area of up to approx. 25m<sup>2</sup>.

By default, the device is started via the operating contact.

The device is operated using 3 operating buttons with display and three freely selectable operation modes. Automatic operation, push button operation and external control, including weekly programme. A special disinfection programme for disinfecting is available.



### ATTENTION!

The SOLDOS-V3-Basic is not suited for saunas!

The SOLDOS-V3-Basic is not medically approved!

## 3.4 Description of components

### 3.4.1 Control unit



Fig. 2: Control unit

The control unit consists of the *control housing* (Fig. 1, No. 02) with protection class IP43.

The electronic components are installed in the housing.

On the control unit, the operating parameters can be set on a 5-line LCD display by means of 3 operating buttons.

### 3.4.2 Button plate (option)



Fig. 3: Button plate, sample illustration

Button plate with flush-mounted box for starting the brine dosing.

For details about the flush-mounted box, see supplementary sheet "**BB DW 001-03 Installation flush-mounted box V2**" in Chapter 12.

#### **Additional options:**

- Button plate made of stainless steel, Corian, etc.
- Steam room button

### 3.4.3 Nozzle component with wall sleeve



Fig. 4: Nozzle component and wall sleeve

Nozzle component with wall sleeve

The nozzle component is used to atomise the brine solution.

The wall sleeve is used for the simple, tight and reversible installation of the nozzle component in the cabin wall.

## 3.5 Technical data

<b>SOLDOS-V3-BASIC</b>	
<b>Dimensions and weights</b>	
External dimensions	WxHxD: 0.27 x 0.56 x 0.25m
Space requirement	WxHxD: 0.40 x 0.70 x 0.30m
Space requirement, including operation and maintenance	WxHxD: 0.60 x 2.00 x 1.00m
Empty weight/operating weight	9kg / 10-14kg
<b>Connection data</b>	
Electrical connection data	100-230VAC, 50/ 60Hz, 0.05kW, safety plug
Protection class	IP43
Nominal pressure / operating pressure	PN 16 / max. 11barg
<b>Operating data</b>	
Brine volume in the politainer	1l or 5l
Brine consumption at approx. 10 h operating time/day (device setting 10 min. pause/10 sec. dosing)	approx. 1kg / day
Medium temperature	5°C to 35°C
Ambient temperature	5°C to 35°C
Humidity technical room	Max. 70%
<b>Other data</b>	
Ventilation (in and out)	Recommended in the technical room
Software version	---
Hardware version	---

Table 1: Technical data

## 4 Transport and storage

---

### 4.1 General safety notices

---



#### ATTENTION!

##### Damage to the device due to improper transport!

- The device must only be transported in its original packaging!
- When transporting the SOLDOS-V3-Basic, proceed with caution to prevent damage due to force or careless loading and unloading.
- Avoid exposure to frost during transport!

### 4.2 Packaging

---



#### WARNING!

##### Danger of suffocation!

- Keep packaging and packaging residue, in particular plastic bags, out of reach of children!



#### NOTICE

Please pay attention to the notices and pictograms attached to the carton!

### 4.3 Temporary storage of the device

---



#### ATTENTION!

##### Damage to the device due to improper storage!

The device may be damaged by frost or high temperatures!

- Avoid exposure to frost during storage!
- Do not store systems and devices next to objects with strong heat emission or in direct sunlight.
- The device must only be stored in its original packaging. Please ensure careful handling.

### 4.4 Storage of brine solution and disinfectant

---

Pay attention to the manufacturers' safety data sheets regarding storage as well as the local regulations for occupational safety and for environmental and drinking water protection!



## 5 Mechanical installation

### 5.1 General safety notices



#### WARNING!

#### Risk of injury!

Personnel who are not familiar with professional installation methods may suffer bodily harm!

- The installation of this device may only be carried out by qualified personnel (persons who have completed training in the field of sanitation or in the field of electrical installation)!

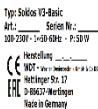


#### CAUTION!

#### Danger of foot injuries!

The device can fall down when installed by a single person!

- Always carry out the installation with 2 persons!



WDT accepts no liability for damage caused by incorrect installation!

The attachment or installation of additional equipment is only permitted with the manufacturer's written approval; otherwise any warranty will be voided.

### 5.2 Select the installation site



#### ATTENTION!

#### Damage to the device due to an unsuitable installation site!

- Installation is only permitted in the technical room!
- Pay attention to the information regarding the installation site and the technical room in the technical data on **page 14!**

The installation site must have the following properties:

- The installation site must be frost-proof.
- The device must be protected from direct sunlight.
- An electrical power connection with a safety contact is required.
- It is recommended that the storage space be well aerated and ventilated.
- Prior to installing the device, all materials of the cabin as well as the supply and exhaust air ducts must be checked for corrosion resistance to the 5% brine solution.
- The control unit of the SOLDOS-V3-Basic is IP43 protected. Please ensure that the device is not exposed to splashing water at the place of installation.

## 5.3 Installation notices

The SOLDOS-V3-Basic is installed on a wall in the technical room.

The dosing line to the cabin must be no longer than 30m, 5m included in the scope of delivery. The shorter, the better. The length of the dosing line is required during commissioning. It is entered in the start query.



### **NOTICE**

The nozzle should be installed at a higher level than the SOLDOS! If this is not possible, a shut-off valve (option) must be installed in the dosing line!

Prior to starting the installation, the following tasks must be carried out:

- Remove transport safety devices.
- Warning and information signs must be installed in compliance with locally applicable accident prevention regulations at the locations provided.

## 5.4 Installing the SOLDOS



### **CAUTION!**

#### **Danger of foot injuries!**

The device can fall down when installed by a single person!

- Always carry out the installation with 2 persons!



Securely attach the mounting plate to the wall with 4 screws and ensure easy accessibility.



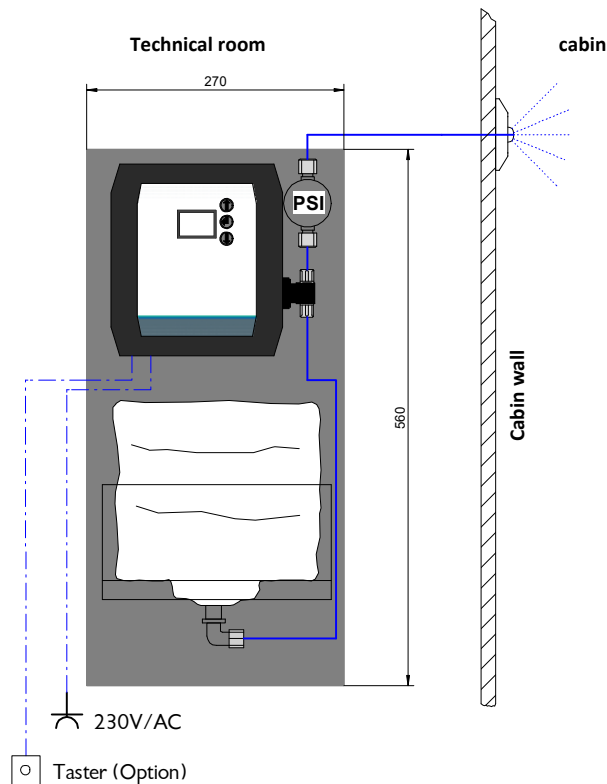
### **ATTENTION!**

#### **Damage to the device due to improper wall attachment!**

At unsuitable walls (e.g., porous or unstable) or with inadequately dimensioned fastening material (e.g., screws that are too short or unsuitable dowels), the device may detach from the wall!

- Pay attention to the device's operating weight according to the technical data on *page 15!*
- The wall and the fastening material must be able to bear the specified operating weight!

## Installation plan



- 1) Securely attach the mounting plate to the wall with 4 screws and ensure easy accessibility.

Fig. 5: Installation plan SOLDOS-V3-Basic

### 5.5 Installing and connecting the nozzle



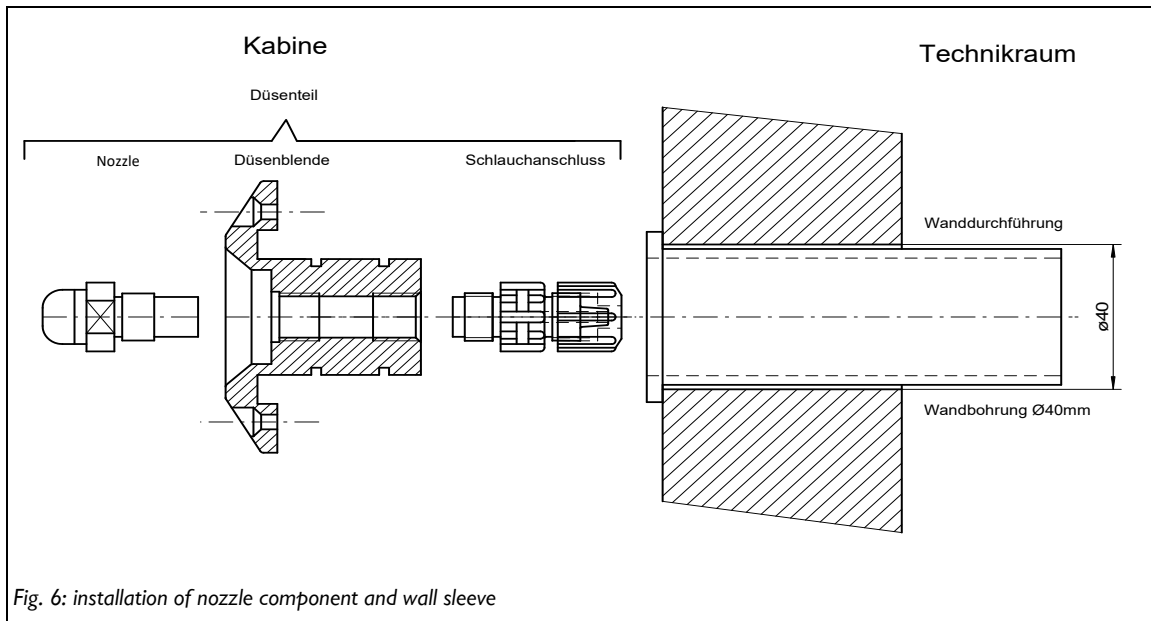
#### NOTICE

**To prevent draining of the brine politainer, the nozzle must be installed at a higher level than the SOLDOS with the brine politainer!**

**If this is not possible, a shut-off valve (option) must be installed in the dosing line.**

The **nozzle component**, which consists of the **nozzle washer with nozzle and hose connection**, is delivered as a preassembled unit.

The wall sleeve must be glued to the cabin's steam barrier! The glued joint must be watertight.



- 1) Find a suitable location for the nozzle in the cabin. Preferably above the steam inlet.
- 2) Drill a hole of at least 40mm in the cabin wall for the installation of the nozzle component and the wall sleeve (see illustration).  
The drill hole should be located about 20-30cm from the cabin ceiling.  
The drill hole should be located as far as possible from the exhaust air outlet.
- 3) The wall sleeve is glued into the drill hole in a diffusion-proof manner. Ensure that the steam barrier is properly sealed.
- 4) The **dosing line made of PTFE 4x1mm** is routed from the outside of the cabin through the wall sleeve and connected to the nozzle component's hose connection.
- 5) Then lightly grease the O-rings on the nozzle component with the enclosed grease, insert the nozzle component into the wall sleeve and, if necessary, fasten it to the wall with the 2 enclosed screws.
- 6) We recommend **laying the dosing line in a protective pipe (recommendation: Insulating hose with sound insulation properties)**. Ensure that the dosing line can move freely to the rear in case the nozzle needs to be removed (at least 10cm).



## ATTENTION!

**Do not bend the dosing line during installation! Should this occur during installation, it is imperative to install a new dosing line.**

**The length of the dosing line affects the pump running time in the disinfection programme. Record the installed hose length in the disinfection protocol in *Chapter 11.6, page 60*.**

### 5.5.1 Shut-off valve installation (option)

The shut-off valve is installed in the dosing line. It prevents the brine politaier from draining if the nozzle is installed below the device. Code number see *Chapter 11.7, Spare parts / wear parts / consumables*.

### 5.6 Installing the button plate (option)

For installation of the button plate, see supplementary sheet "BB DW 001-03 Installation flush-mounted box V2" in *Chapter 12, page 62*.

## 6 Electrical installation

### 6.1 Safety notices



#### WARNING!

#### Danger of electric shock!

#### Dangerous electrical voltage!

- All work on the device must be carried out by specialist personnel only!
- All electrical installations and any work on the device's electrical components must be carried out by authorised electricians only!
- Prior to starting work, disconnect the devices from the power supply and secure them against being reactivated!

### 6.2 Electrical connection

- 1) Connect the SOLDOS to the power supply (100-230VAC, 50/60Hz) with the power plug.

### 6.3 Additional connection options

The following additional connection options exist:

Description	Bar	Terminals
Collective fault to CCS (Central Control System) or BCS (Building Control System), potential-free	SL 4	1/2/3
Operating contact 24VDC energised; switchable via potential-free contact <ul style="list-style-type: none"> <li>• When the operating contact is open, the device is in standby position (e.g., during downtimes)</li> <li>• When the operating contact is closed, the device is ready for operation (e.g., during operation times)</li> </ul>	SL 13	4/5
External control, e.g., via higher-level control (WDT central control) potential-free <ul style="list-style-type: none"> <li>• The device can be activated (Dosing on) or deactivated (standby position) via the external contact. This allows the dosing and pause times to be specified.</li> <li>• As long as the contact is closed, the pump operates and the brine solution is atomised by the pump.</li> <li>• The contact is only active when the "EXTERNAL" operation mode is selected.</li> </ul>	SL 10	4/5
Connection of the control signal "Effects for light and sound" according to the enclosed wiring diagram in <i>Chapter 11.2 on page 57.</i> <ul style="list-style-type: none"> <li>• An external actuator, such as a light or sound effect, can be connected to the output. The output signal is identical to the input voltage at the SOLDOS.</li> <li>• The output is switched together with the diaphragm pump. Maximum connected load: 4A / 230VAC</li> </ul>	SL 3	1/2/3



#### NOTICE

Electric wiring: See wiring diagram in *Chapter 11.2 on page 57.*

## 7 Commissioning

### 7.1 General safety notices



#### WARNING!

#### Risk of injury!



Possible irritation of eyes due to disinfection solution!

Do not allow to come into contact with the eyes!



- Prior to starting work, read and understand the Operating Instructions!
- Wear goggles and protective gloves!
- The tasks described here must only be performed by appropriately qualified personnel from a specialist company.
- Prior to commissioning, the installed devices must be checked for proper installation and leaks.



#### ATTENTION!

#### Damage to the device due to incorrect commissioning!

- The sequence of the following commissioning steps must be observed!
- The information in the commissioning protocol must be observed!

### 7.2 General remarks

During commissioning, a distinction is made between:

- Initial commissioning following installation or a reset to ex works settings.
- Recommissioning following politainer replacement or after extended downtime

The device comes loaded with ex works settings.

Adjust the control parameters to the desired operation mode during initial commissioning and enter them in the operation data sheet in Chapter 11.4 on page 58.

### 7.3 Commissioning steps

The following commissioning steps are described in the chapters below:

- 1) Switching on the device at the main switch
- 2) Carrying out the start query (hose length, disinfection, etc.)
- 3) Carrying out disinfection (see Chapter 7.5.4 to page 25).
- 4) Filling out the commissioning protocol
- 5) Carrying out a function control, creation of a saline climate in the cabin?

## 7.4 Display and controls

There are 3 operating buttons next to the LCD display. They are used to navigate in the menu.



### **NOTICE**

The display had a dim function.:

If no input occurs for **60 seconds** on the control unit, the backlighting is dimmed. An initial pressing of a key (arrow keys, Enter key) only reactivates the backlighting.

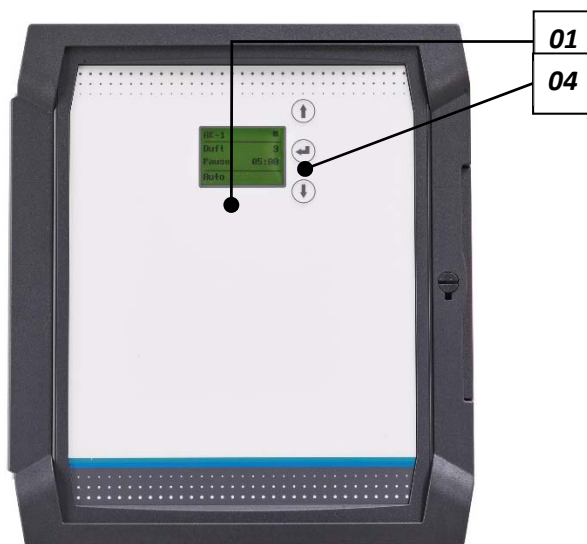


Fig. 7: Display and controls

### **01 Display**

### **04 3 operating buttons:**

#### **Navigation upwards**

Use the arrow key to navigate upwards or set numerical values.

#### **Enter key**

Use the Enter key to navigate to the selected submenu or to the next setting value or to confirm the setting value.

#### **Navigation downwards**

Use the arrow key to navigate downwards or set numerical values.

## 7.5 Switching on the device for the first time



### **NOTICE**

When the device is switched on for the first time, or after a reset, the device starts automatically with the **start query procedure**.

### 7.5.1 Start query / initial start of the device

After switching on the device for the first time, or after resetting it to the ex works settings, the following data is initially queried:

**Language, time, date, as well as the setting parameters for pause time, dosing time, operation mode and hose length of the dosing line.** The corresponding queries are shown in sequence and are entered via the 3 operating buttons.

If these parameters are entered, the device requests a disinfection.



### **ATTENTION!**

**For initial commissioning, the length of the dosing line must be entered on the display, the diaphragm pump must be vented and a disinfection carried out. The length of the dosing line, from the diaphragm pump to the nozzle, is necessary for calculating the required amount of disinfection solution and for the disinfection runtime.**

### **Disinfection necessary message**

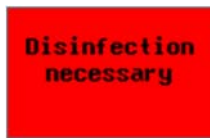


Fig. 8: Disinfection necessary display

Following the start query, the “Disinfection necessary” message is displayed.

- 1) Confirm the message with Enter.
- 2) Vent the diaphragm pump, see *Chapter 7.5.2*, then carry out a disinfection.

## 7.5.2 Venting the diaphragm pump and the lines

The diaphragm pump must be vented **to ensure that the lines are filled with liquid**. If the lines are not filled, the device throws the “Brine empty” fault during disinfection or operation.



Fig. 9: Display for Vent pump

To vent the diaphragm pump, proceed as follows:

- 1) Connect a politainer filled with approx. 200ml of distilled water to the suction line. 200ml are sufficient for a line length of 10 metres. If the line is longer, more distilled water is required.
- 2) Use the arrow keys to navigate to the Test outputs menu item and confirm with Enter.
- 3) Select the Pump/Pressure menu item and start the diaphragm pump by pressing Enter. The diaphragm pump runs for 20 seconds and fills the line from the politainer. The process can be cancelled using Enter.
- 4) Repeat the process until the pipes are filled.

## 7.5.3 General information regarding disinfection



### CAUTION!

#### Health hazard due to lack of disinfection!

- It is of particular importance to regularly carry out disinfection as a protection against germs and bacteria. The hypochlorous acid / hypochlorite required for disinfection is generated by dissolving the enclosed disinfection tablet (Art. 19871).
- Each disinfection must be documented in the disinfection protocol!



## 14 days downtime

- In case of a downtime of **up to 14 days**, the device can be recommissioned without disinfection.
- If the device has not been operated for **more than 14 days**, this must be documented in the disinfection protocol, and a disinfection must be carried out at start of operation!

## 28 days operation



### CAUTION!

#### Health hazard due to limited shelf life of the brine!

After opening, the brine politainer has a maximum shelf life of 28 days!

- **Dispose of the brine politainer with the residual content once this shelf life has expired!**
- The brine politainer must be changed at least **every 28 days** and a disinfection must be carried out.
- On the 25th day, the display shows a message that a disinfection will be required in 3 days, at the latest.
- The disinfection must be documented in the disinfection protocol, regardless of how long the device was in operation during this time!



#### Notice about disinfection

A disinfection must be carried out **during each politainer change**, or at least every **28 days!**

#### 7.5.4 Carrying out the disinfection and rinsing of the SOLDOS-V3-Basic

A disinfection must be carried out during **initial commissioning and at least every 28 days**. The scope of delivery for each new brine politainer includes a disinfection tablet.



### CAUTION!

**Prior to the start of disinfection, it must be ensured that nobody is present in the cabin during the disinfection. Preferably before or after operating the steam room.**

#### 7.5.4.1 Preparing the disinfection solution

To carry out a disinfection, proceed as follows:

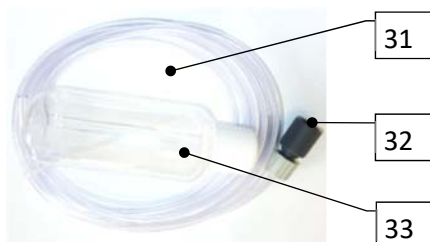


Fig. 10: Disinfection kit

For disinfection, keep the disinfection kit (31) with nozzle adapter (32) and 200ml bottle (33) at hand.

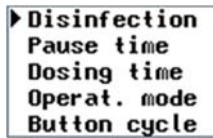



Fig. 11: Disinfection main menu

- 1) In order to carry out the disinfection, select the **Disinfection** menu using the arrow keys and confirm with the Enter key .



## NOTICE

You can navigate back to the main menu at any time by using the ESC key in the **Disinfection** submenu.

In the **Disinfection** submenu, the days until disinfection are counted down from 28 to 0 days. If only 3 days remain until disinfection, the message is shown daily on the display. A disinfection can also be started before the 28 days have elapsed.

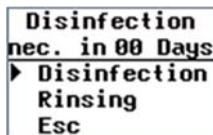



Fig. 12: Disinfection submenu

- 2) In the **Disinfection** submenu, select **Disinfection** again, confirm with the Enter key  and follow the programme guide.



## NOTICE

The disinfection programme that has been started can only be cancelled by **switching it off at the main switch**. After that, the message "Disinfection necessary" is displayed every time the device is switched on. If the "Disinfection necessary in 0 days" display appears, this can be hidden by pressing the Enter key. This message is repeated every hour, but the system continues to run without interruption.

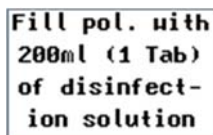


Fig. 13: Fill politainer

- 3) Fill the enclosed empty 200ml bottle in the disinfection kit with water. Add one of the enclosed disinfection tablets SOLDOS, article no. 19871, and shake the bottle until the tablet has dissolved. The hypochlorous acid / hypochlorite required for disinfection is generated by dissolving the disinfection tablet. The water quantity depends on the length of the dosing line from the SOLDOS to the nozzle in the cabin wall. **The display shows** the amount of water and the number of tablets required.

1 – 10m = 200ml + 1 tablet  
 11 – 20m = 400ml + 2 tablets  
 21 – 30m = 600ml + 3 tablets



## TIP!

When the device is delivered, the 1-litre politainer is already connected to protect it from contamination. Carefully store this politainer and use it for the next disinfection.



## WARNING!

### Danger of irritation and/or allergic reactions!

Disinfectants may cause irritation and allergic reactions!

- Do not drink!
- Keep out of the reach of children!
- Do not allow to come into contact with skin or eyes!
- Wear chemical-resistant protective gloves and goggles!
- Block access to the application room/cabin during disinfection!
- Collect the escaping disinfection solution in a plastic container or channel it directly into the drain. Pay attention to the nationally applicable regulations for environmental and drinking water protection!

#### 7.5.4.2 Preparing the brine politainer



Fig. 14: Pull off the Canister connection for brine coupling

- 4) Remove the empty politainer from the console and unscrew the original lid from the politainer.
- 5) Pull the *Canister connection* for brine coupling for SOLDOS from the suction line's nipple
- 6) Fill the disinfection solution from the 200ml bottle in the empty politainer. Repeat this process until the required amount of disinfection solution has been prepared.



Fig. 15: Screw on the Canister connection for brine coupling

- 7) Screw the Canister connection for brine coupling onto the politainer with disinfection solution.



Fig. 16: Insert the suction line

- 8) Insert the suction line with the *Canister connection* for brine plug in the *Canister connection* for brine coupling.



Fig. 17: Push the politainer into the console

- 9) Turn the connected container upside down and push it into the console.  
Ensure that the coloured flange ring rests in the groove intended for this purpose!

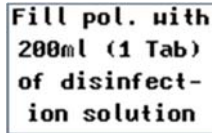



Fig. 18: Fill politainer

- 10) Once the politainer has been filled with the correct amount of disinfection solution and reconnected, confirm the process by pressing the Enter key .

### 7.5.4.3 Activating disinfection and rinsing



#### ATTENTION!

**Make sure that no persons are present in the affected cabin. If necessary, the room must be visibly blocked off.**

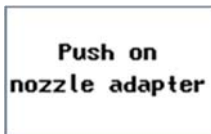


Fig. 19: Menu: Push on nozzle adapter


- 11) Attach the nozzle adapter (No. 32) of the enclosed disinfection kit (No. 31) to the nozzle in the corresponding cabin.
- 12) Direct the other end of the hose into a plastic container or directly into the floor drain.
- 13) Confirm the **Push on nozzle adapter** message with the Enter key .



Fig. 20: Menu: Start disinfection



- 14) Start the disinfection with the Enter key .

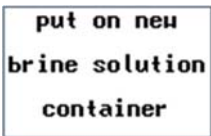



Fig. 21: Menu: Disinfection process

The diaphragm pump starts up and the disinfection solution is transported through the entire system. The pump running time is 90 seconds per 10m of line length, i.e., a maximum of 270 seconds. After that, the diaphragm pump stops. The disinfection time is 15 minutes. The disinfection solution remains in the dosing line for this time (residence time) until the disinfection time has elapsed. Once 15 minutes have elapsed, the disinfection is completed and is followed by the rinsing programme. In the event of a fault indication, the disinfection must be repeated.



- 15) After successful disinfection, empty the remaining disinfection solution from the brine politainer, rinse the politainer and save for the next disinfection.
- 16) Confirm the **Disinfection complete** display message with the Enter key  and follow the sequence on the display



- 17) Connect a new, unused brine politainer with a 5% brine solution to the dosing line. *See Chapter 7.5.4.2, Preparing the brine politainer.*
- 18) Confirm the **put on new brine solution container** display message with the Enter key 




- 19) Start the rinsing with the Enter key .



The diaphragm pump starts up and the brine solution is transported through the entire system to rinse the line.

The rinse time is displayed. The rinse time depends on the length of the dosing line. It is also 90 seconds per 10m line length.

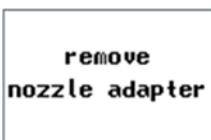



- 20) Confirm the **Rinsing complete** display message with the Enter key  and follow the sequence on the display.

**Disinfection is only finished when rinsing has also been successfully completed. Otherwise, the entire disinfection process must be restarted.**



## NOTICE




- 21) After successful rinsing, remove the nozzle adapter (32) on the nozzle in the cabin.
- 22) It is recommended to clean the cabin afterwards.
- 23) Confirm the **Remove nozzle adapter** display message with the Enter key .

The device is now properly disinfected and rinsed. The device is now ready for operation.

All rinsing and disinfection actions are recorded in the data logger.



## NOTICE

The disinfection must be completed and terminated with the Enter key  until the main menu is displayed; otherwise, a new disinfection is requested.

The disinfection programme that has been started can be cancelled by switching it off at the main switch. Afterwards, the programme requests a new disinfection.

Each disinfection must be documented in the disinfection protocol!

## 7.5.5 Carrying out a rinsing without disinfection

To carry out a rinsing without disinfection, proceed as follows:

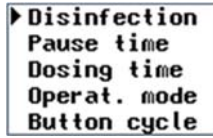



Fig. 22: Disinfection main menu

- 1) In order to carry out the rinsing without disinfection, select the **Disinfection** menu using the arrow keys and confirm with the Enter key .



### NOTICE

You can navigate back to the main menu at any time by using the ESC key in the Rinsing sub-menu.

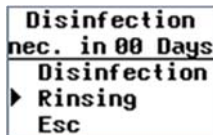

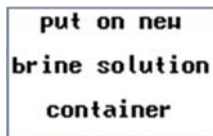




Fig. 23: Start rinsing

- 2) Select the **Rinsing** menu item in the submenu, start with the Enter key  and follow the programme guide.



- 3) Connect a new, unused brine politainer with a 5% brine solution to the dosing line. See *Chapter 7.5.4.2, page 27, Attaching the brine container on the SOLDOS.*
- 4) Confirm the **put on new brine solution container** display message with the Enter key .

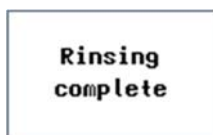


- 5) Start the rinsing with the Enter key .



The diaphragm pump starts up and the brine solution is transported through the entire system to rinse the line.

The rinse time is displayed. The rinse time depends on the length of the dosing line.



- 6) Confirm the **Rinsing complete** display message with the Enter key .

In the event of a fault indication, the rinsing must be repeated.

The device is now ready for operation.

All rinsing actions are recorded in the data logger.

## 7.5.6 Reactivating the device

SOLDOS	
Pause	01:00
Brine	00:05
Cycle	05:00
13:03	Mon 17:00

Fig. 24: Display with operating menu

After reactivation, the device starts in the operating menu and is immediately ready for operation.

The display is illuminated.

The display shows the set times for:

- the pause time,
- the dosing time and
- the cycle time (only for “Push button” operation mode).

The current time is shown in the bottom row to the left.

When the timer is activated, the next switch time is shown at the centre/right (e.g., Wed 17:00).

## 7.6 Inserting / changing the brine politainer



### CAUTION!

#### Health hazard due to lack of disinfection!

- Always carry out a disinfection prior to inserting the politainer!
- We urgently recommend that you only use a highly pure, disinfected WDT brine solution.

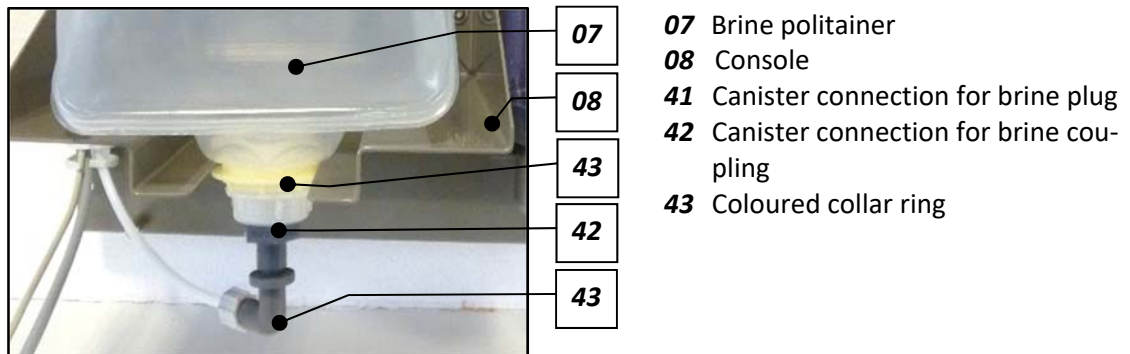


Fig. 25: Canister connection for brine coupling with Canister connection for brine plug

To connect a new, unused brine politainer with a 5% brine solution to the dosing line, proceed as follows:

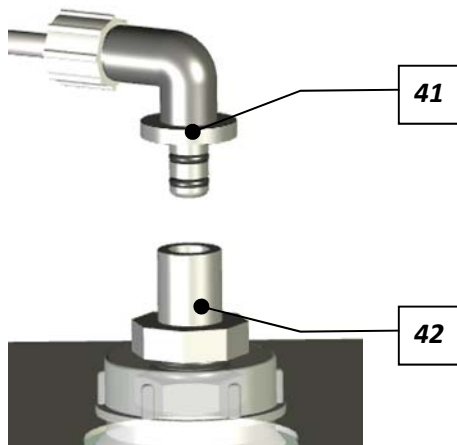


Fig. 26: Politainer connection

- 1) Remove the empty brine politainer from the console and turn the orifice so it faces upwards.
- 2) Now pull the *Canister connection* for brine plug (41) out of the connecting sleeve of the *Canister connection* for brine coupling (42) and hold the empty brine politainer in your hand with the lid **pointing upwards**.
- 3) Unscrew the *Canister connection* for brine coupling from the empty politainer.
- 4) Take a new brine politainer (1kg or 5kg), hold it with the lid pointing upwards and open the brine politainer's lid.

**The politainer is now open!**

- 5) Screw the *Canister connection* for brine coupling onto the open brine politainer.
- 6) Press the entire air out of the politainer, then insert the *Canister connection* for brine plug in the connecting sleeve of the *Canister connection* for brine coupling.

**The politainer is now closed again.**

- 7) Turn the closed politainer 180° upside down and push it onto the *console* (08) so that the *collar ring* (43) is located below the console. The device is now ready for use.



## 8 Operation / Use

### 8.1 General safety notices



#### WARNING!

#### Health hazard due to incorrect operation!

- Pay attention to all safety notices in these instructions, in particular the safety notices in *Chapter 2 on page 9!*
- The device must not be put into operation until the installation (mechanical and electrical) and the commissioning have been completed!
- The device must only be operated by trained and instructed personnel!
- Prior to operation, the operating personnel must have completely read and understood these instructions!



#### CAUTION!

#### Health hazard due to germ contamination!

Germs may form in an over-aged brine solution. The germs can enter the application room via the dosing and be inhaled there!

- After a downtime of more than 14 days, renew the brine solution and carry out a disinfection prior to starting operations. The downtime and the disinfection must be documented!
- After opening, the brine solution has a maximum shelf life of 28 days! After that, renew the brine solution and carry out a disinfection!
- A disinfection must be carried out during each politainer change, or at least every 28 days and must be documented in the disinfection protocol!
- Check the use-by date before using a new brine solution!



#### NOTICE

Each disinfection must be documented in the disinfection protocol!

### 8.2 Check for operational readiness

- Check whether the power supply is ensured; connect the device, if necessary.
- Check the brine solution level in the politainer; replace politainer, if necessary.
- Check connections and diaphragm pump for leaks; restore proper seal, if necessary.
- Check whether a disinfection is required; carry out disinfection, if necessary.

## 8.3 Operation

The device is operated via the operating buttons next to the LCD display.

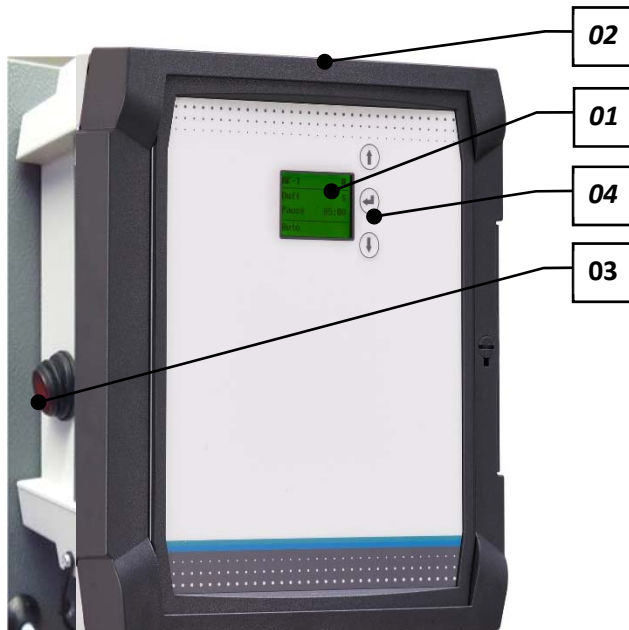


Fig. 27: Control unit with display

**01** Display

**02** Control housing

**03** Main switch

**04** 3 operating buttons:

**Navigation upwards** 

Use the arrow key to navigate upwards or set numerical values.

**Enter key** 

Use the Enter key to navigate to the main menu or the selected submenu or to the next setting value, or use it to confirm the setting value.

**Navigation downwards** 

Use the arrow key to navigate downwards or set numerical values.

## 8.4 Switching on / off



### **NOTICE**

When the device is switched on for the first time or after a reset, it starts automatically with the start query (see Chapter 7.5.1 on page 23).

The device is switched on at the *main switch* (03); it is in the most recently selected operation mode.

The device is switched off at the *main switch*. The operating parameters are saved.





### **CAUTION!**

#### **Health hazard due to germ contamination!**

**Extended downtimes can cause germ contamination in containers and lines!**

- If the device is not used for an extended period of time, it must be emptied and cleaned (see notices on decommissioning in Chapter 10.1 on page 55)!
- After a downtime of more than 14 days, the brine solution must be disposed of and a disinfection must be carried out prior to the start of operations!

## 8.5 Control unit

The menu of the control unit is simply structured and easy to operate. It consists of the **Operating menu** and the **Main menu**. The menu items can be accessed via the arrow keys  and .

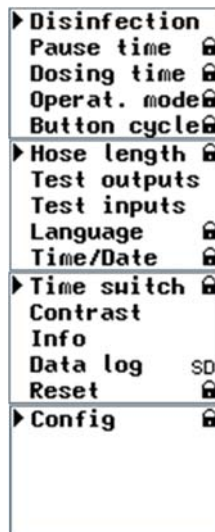





Fig. 28: Menu items in the main menu

Pressing any key ( Fig. 27, No. 04) in the **Operating menu** opens the **main menu**. Navigation is done via the arrow keys  and .

- 1) Disinfection
- 2) Pause time (password-protected option)
- 3) Dosing time (password-protected option)
- 4) Operation mode (password-protected option)
- 5) Push button cycle (only with active button operation option)
- 6) Enter hose length (password-protected option)
- 7) Test outputs
- 8) Test inputs
- 9) Language (password-protected option)
- 10) Time/date (password-protected option)
- 11) Time switch (password-protected option)
- 12) Contrast
- 13) Info
- 14) Data log (SD denotes inserted memory card)
- 15) Reset always with password protection
- 16) Config always with password protection

The black triangle on the left-hand side of the menu marks the currently selected list item.

The list entry is selected using the Enter key .


All parameters with the addition “password-protected” can be protected with a password by the operator.



### **NOTICE**

If you switch to the main menu from the operating menu, the operation of the device is interrupted so that changes can be made.

After switching from the main menu back into the operating menu, operation is released again.


The main menu can be exited manually using the arrow key . After 30 seconds without any input, the control unit automatically switches from each submenu back to the operating menu. This does not apply to the test menus (test outputs/test inputs). These must be actively exited!

A start button (option) can be plugged into a socket on the control housing, as desired.

## Password protection






Fig. 29: Password entry

Certain items in the main menu are marked with a padlock symbol .

The user password **0123** must be entered in order to be able to select these items.

The entry is made in sequence, depending on the digit position. The active number is marked with an underscore.

Use the arrow keys  and  to count the corresponding number up or down and confirm with the Enter key .

If the password is entered incorrectly (after selecting the last digit on the right), the display lights up red and the system jumps back to the main menu.

### 8.5.1 Operating menu



Fig. 30: Operating menu

After switching on the device at the *main switch* (page 34, No. 03) located on the side, the operating menu appears on the display.

Depending on the operation mode, the operating menu shows the corresponding information:

In Figure 30 top, Push button operation mode.

In Figure 30 centre, External operation mode.

In Figure 30 bottom, Auto operation mode

The **footer left** always displays the current time.

When the timer is activated, the **footer centre/right** (e.g., Tue 17:00) shows the next switch time.

The header contains additional symbols for current operation settings, see the following table.

Symbol	Description
○	With operation mode <b>Push button</b> : Control via push button, contact open With operation mode <b>external1</b> : External control, contact open (if the symbol is absent, Auto operation mode is selected)
●	With operation mode <b>Push button</b> : Control via push button, contact closed With operation mode <b>external1</b> : External control, contact closed (if the symbol is absent, Auto operation mode is selected)
⌚	Timer is selected and in standby position (if the symbol is absent, the timer is not selected)
⌚	Timer is selected and ready for operation (if the symbol is absent, the timer is not selected)
□	Operating contact open (system/device in standby position)
■	Operating contact closed (system/device ready for operation)

## 8.5.2 Starting disinfection with rinsing

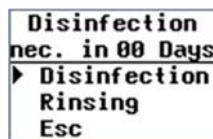




Fig. 31: Menu: Disinfection

- 1) Select the **Disinfection** entry in the main menu and confirm with the Enter key . The Disinfection menu shows the days after which the next disinfection is necessary at the latest.
- 2) Select **disinfection** using the operating buttons, start with the Enter key  and follow the programme guide. Now the disinfection can only be cancelled by switching off at the main switch.

Notice: If the Disinfection menu is exited (Fig. 31) with **Esc**, the display returns to the main menu.

Detailed information on carrying out a disinfection can be found in *Chapter Activating disinfection and rinsing on page 28*.

## 8.5.3 Starting rinsing without disinfection

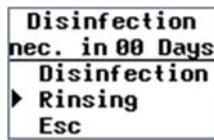




Fig. 32: Menu: Disinfection

- 1) Select the **Disinfection** entry in the main menu and confirm with the Enter key .

The Disinfection menu shows the days after which the next disinfection is necessary at the latest.

- 2) Select **Rinsing** using the operating buttons, start with the Enter key  to start a rinsing of the dosing line without disinfection. Follow the programme guide. The rinsing can now only be cancelled by switching off at the main switch.

Notice: If the menu is exited with **Esc**, the display returns to the main menu.




Detailed information on carrying out a rinsing can be found in *Chapter Carrying out a rinsing without disinfection on page 30*.

## 8.5.4 Set pause time



Fig. 33: Menu: Pause time

The pause time denotes the time between 2 dosing times.

- 1) Select the **Pause time** entry in the main menu and confirm with the Enter key .
- 2) First set the minutes using the arrow keys, confirm the entry with the Enter key , then set the seconds and save with the Enter key .

The display returns to the main menu.

## 8.5.5 Setting the dosing time

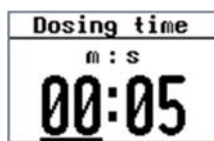





Fig. 34: Menu: Dosing time

The dosing time is the time during which the brine solution is dosed, i.e., brine is sprayed through the nozzle into the cabin. This generates a saline ocean climate.

- 1) Select the **Dosing time** entry in the main menu and confirm with the Enter key .
- 2) First set the minutes using the arrow keys, confirm the entry with the Enter key , then set the seconds and save with the Enter key .

The display returns to the main menu.



### **NOTICE**

**After changing the dosing time, the push button cycle time must be checked. The push button cycle time must not be shorter than the dosing time.**

## 8.5.6 Setting the operation mode

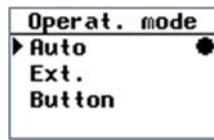




Fig. 35: Menu: Operation mode

- 1) Select the **Operation mode** entry in the main menu and confirm with the Enter key .
- 2) Select the desired operation mode using the arrow keys and save with the Enter key .

The display returns to the main menu.

### The operation modes

There are 3 operation modes: Automatic operation, external operation and push button operation.

Requirement for all operation modes:

- The operating contact must be closed.
- If the timer is activated, the switch times must be set on the week days.

- **Auto:** Once switched on, the device works with the settings of dosing time, pause time and timer.

#### **SPECIAL FUNCTION BRINE SHOCK**

In automatic operation, the special function Brine shock is available: Brine shock is a function that allows to start an additional brine dosing in automatic operation. Dosing is started via the push button (option) in the cabin and runs for the set dosing time. Automatic operation then continues normally.

- **Externally:** The device can be activated (dosing on) or deactivated (standby position) via an external contact (e.g., higher-level control such as WDT central control). As long as the contact is closed, brine is dosed.

The dosing time and pause time can thus be specified with a higher-level control.

This function is **not active** when the operation mode **Auto** or **Push button** has been selected!

- **Push button:** In push button operation, dosing is started via the push button (option) in the cabin. The dosing, with the settings for dosing time and pause time, runs until the cycle time has elapsed. The dosing can then be started anew.




If you only want to carry out **one dosing per push button actuation**, the same duration must be set for the dosing time and the push button cycle time.

## 8.5.7 Setting the push button cycle



Fig. 36: Menu: Push button cycle

The push button cycle is the period during which the set dosing and pause times run in a recurring cycle until the push button cycle time period has elapsed (Fig. 37). The time period (push button cycle) can only be set in the push button operation mode. The push button cycle can only be started by pressing the push button.

- 1) Select the **Push button cycle** entry in the main menu and confirm with the Enter key .
- 2) First set the minutes using the arrow keys, confirm the entry with the Enter key , then set the seconds and save with the Enter key .

The display returns to the main menu.

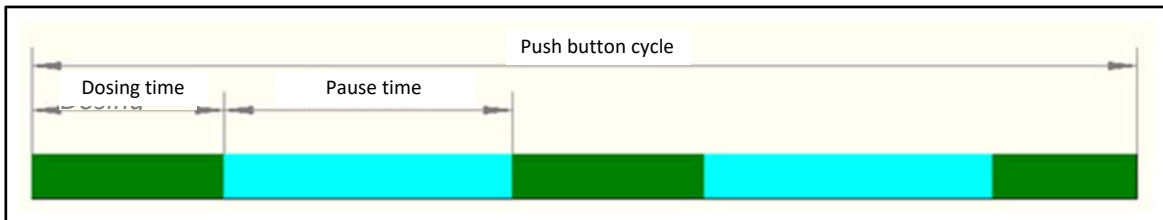


Fig. 37: Illustration push button cycle

## 8.5.8 Setting the hose length

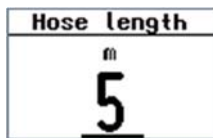




Fig. 38: Menu: Hose length

The length of the dosing line affects the length of the pump running time and the amount of dosing solution for disinfection and rinsing. As a rule, the hose length is only set during initial commissioning.

- 1) Select the **Hose length** entry in the main menu and confirm with the Enter key .
- 2) Use the arrow keys to enter the installed hose length in metres and save with the Enter key . The maximum possible hose length is 30m.

The display returns to the main menu.



### TIP

**By entering the hose length, the programme automatically calculates the disinfection time and the required amount of disinfection solution. The data is shown during the disinfection.**

## 8.5.9 Check electrical outputs



### NOTICE



The control unit does **not** switch **automatically** from the test menu to the main menu. The test menu must actively be terminated with **Esc** to return to the main menu.






Fig. 39: Menu: Test outputs

You can test the different electrical outputs in this sub-menu.

- 1) Select the **Test outputs** entry in the main menu and confirm with the Enter key .
- 2) Select the desired component using the arrow keys and confirm with the Enter key .
- 3) The display counts down the respective remaining control time (sample display: Pump with 12 seconds remaining time and 00 bar current pressure):
  - **Pump**: 5 seconds with display of the current pressure value
  - **Effect light**: 20 seconds
  - **Collective fault**: 20 seconds
  - **Push button**: 20 seconds

The output test can be cancelled at any time using the Enter key .

Once the respective test has been completed, the display switches back to the overview of the outputs.

- 4) In the overview, select the **Esc** entry to navigate to the main menu.

## 8.5.10 Check electrical inputs

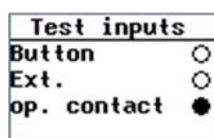



Fig. 40: Menu: Test inputs

You can test the different electrical inputs in this sub-menu.

- 1) Select the **Test inputs** entry in the main menu and confirm with the Enter key .

The inputs are marked with a red circle on the right side:

- Filled circle: Input active
- Empty circle: Input inactive

Depending on the connection and equipment, the push-button or the external operating contact, for example, may not be triggered.

- 2) Press the Enter key  to exit the menu.



### **NOTICE**


The control unit does **not** switch **automatically** from the test menu to the main menu. The test menu must actively be terminated with **Esc** to return to the main menu.

## 8.5.11 Set language




Fig. 41: Menu: Language example

You can select the display language in this submenu

- 1) Select the **L**anguage entry in the main menu and confirm with the Enter key .

The set language is marked with a circle on the right side.

- 2) Select the language using the arrow keys and save with the Enter key .

The display returns to the main menu.

## 8.5.12 Setting the time/date

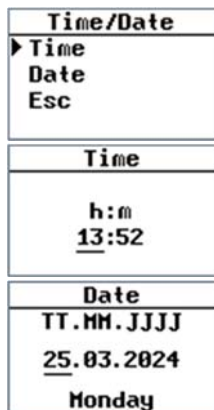





Fig. 42: Menu: Time/date

You can set the time and date in this submenu.

- 1) Select the **T**ime/**D**ate entry in the main menu and confirm with the Enter key .
- 2) Select the **T**ime or **D**ate entry using the arrow keys and confirm with the Enter key .

The entry to be changed (hour, minute, day, month, year) is marked with an underscore.

- 3) Use the arrow keys to set the value and confirm the entry with the Enter key .

The display automatically jumps to the next value.

- 4) Once the last possible entry has been confirmed, the display switches back to the selection of **T**ime or **D**ate.
- 5) In the overview, select the **E**sc entry to navigate to the main menu.



### TIP

**The time must be manually adjusted to summer or winter time!**

## 8.5.13 Setting the timer/switch times

<b>Time switch</b>	
▶ Time switch <input type="radio"/>	programm
Esc	
<b>Time switch</b>	
Off	
▶ Monday	<input checked="" type="radio"/>
Tuesday	<input checked="" type="radio"/>
Wednesday	<input checked="" type="radio"/>
Thursday	<input checked="" type="radio"/>
Friday	<input checked="" type="radio"/>
▶ Saturday	<input checked="" type="radio"/>
Sunday	<input checked="" type="radio"/>
Esc	

Fig. 43: Menu:  
Timer weekly overview

The timer function can be switched on and off with the Enter key in the **Time switch** submenu. If the timer is activated, a black dot appears on the right side. Now dosing is only possible during the set switch times. This applies to all operation modes.

- 1) Select the **Time switch** entry and confirm with the Enter key  to activate or deactivate the timer function for all days.

Days and time periods during which it is possible to start the SOLDOS can be set in the **Time switch/programme** submenu. Per day, 1 time window (On – Off) can be entered. The switch times apply to all operation modes.

- 1) Select the **Time switch** entry in the main menu and confirm with the Enter key . Then select the **Programme** entry and confirm with the Enter key .

The week days are marked with a circle on the right side:

- Filled circle: A time has been set.
- Empty circle: **No** time has been set. This week day has been deactivated

- 2) Use the arrow keys to select the week day and confirm with the Enter key .

<b>Monday</b>	
	h:m
On	<u>07:00</u>
Off	17:00
<b>Tuesday</b>	
	h:m
On	--:--
Off	--:--

Fig. 44: Menu:  
Timer switch times

The entry to be changed (On: Hour/minute, Off: hour/minute) is marked with an underscore.

- 3) Use the arrow keys to set the value and confirm the entry with the Enter key .

The display automatically jumps to the next value.

- 4) Once the last possible entry has been confirmed, the display switches back to the selection of the week day. You can now set the next week day.
- 5) In the overview, select the **Esc** entry to navigate to the Timer submenu. All saved times are retained in this case, even when the timer is deactivated!
- 6) In the overview, select the **Esc** entry to navigate to the main menu.



### NOTICE

If you want to deactivate a week day, delete the times from the menu entry and confirm the fault indication “wrong time entry” with the Enter key .

The newly set times are only saved if they are confirmed with the Enter key. Per day, 1 time period (On – Off) can be entered.

**Without input**, the control unit **automatically** switches from the **Time switch** menu to the main menu after 30 seconds. **In this case, the settings made are not saved.** The menu can actively be terminated with **Esc** to return to the main menu.

If you want the device to be available all day, set the switch-on time to 00:01 and the switch-off time to 23:59.





Fig. 45: Wrong time entry time switch

If an incorrect time is entered, a corresponding warning notice appears in the display and the entry is deleted! This week day is then deactivated!



## NOTICE

You can tell if the time switch function is activated by the corresponding symbol shown in the operating menu.

Symbol	Description
	The Time switch function is selected and inactive (outside the set operating times). The time at which operation is released and the SOLDOS can be started is shown in the display at the bottom right. (If the symbol is absent in the operating menu, the Time switch function is switched off.)
	The Time switch function is selected and active (within the set operating times). The time at which operation is terminated and the SOLDOS can no longer be started after this time is shown in the display at the bottom right. (If the symbol is absent in the operating menu, the Time switch function is switched off.)

### 8.5.14 Setting the contrast

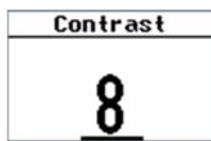




Fig. 46: Menu: Contrast

You can set the contrast of the display in this submenu.

- 1) Select the **Contrast** entry in the main menu and confirm with the Enter key .
- 2) Use the arrow keys to set the value and confirm the entry with the Enter key .

The display returns to the main menu.

## 8.5.15 Display info - device information

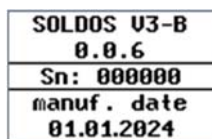




Fig. 47: Menu: Info

You can display the device information in this submenu.

- 1) Select the **Info** entry in the main menu and confirm with the Enter key .

The display shows the device type, software version, serial number and date of manufacturing.

- 2) Use the Enter key  to return to the main menu.

### NOTICE



Have this device information available for any support queries!

## 8.5.16 Displaying the data log

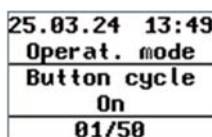


Fig. 48: Menu: Data log

The device saves the last 50 changes or faults. You can display this information in this submenu.



- 1) Select the **Data log** entry in the main menu and confirm with the Enter key .
- 2) Use the arrow keys to look at the individual entries.
- 3) Use the Enter key  to return to the main menu.



Fig. 49: Menu: Data log

If a memory card is inserted (standard), all message are additionally written to the memory card. An inserted memory card is denoted with "SD" in the main menu/data log.

If the memory card is full, the oldest entries are overwritten.

## 8.5.17 Conducting a reset

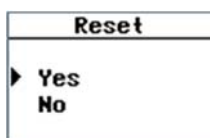





Fig. 50: Menu: Reset

In this submenu, you can reset the device to the ex works settings.

Afterwards, the device behaves as it did when it was switched on for the first time. The start query occurs as described in Chapter 7.5.1 on page 23.

- 1) Select the **Reset** entry in the main menu and confirm with the Enter key .
- 2) Enter the password 0123 in the password dialogue and confirm it with the Enter key .
- 3) Select the **Yes** entry using the arrow keys and confirm the entry with the Enter key .
- 4) Select the **No** entry to terminate the process.



## NOTICE

After the reset, the device starts with the start query and the disinfection request. The setting values (including the timer) are reset to the ex works settings. The values must be reentered.

### 8.5.18 Config / Setting password protection


The Config menu is always password-protected. Password protection can be activated here.






Fig. 51: Menu:  
Config– password protection

The **Config** menu can be found at the very bottom of the main menu. In the **Config** submenu, settings can be protected against being changed with the user password.

This may be necessary if the device is placed in a freely accessible area and needs to be protected from unauthorised operation.

If password protection is activated, all password-protected menu items are marked with a padlock symbol  in the main menu. The menu items cannot be protected individually.

**The Config and Reset menu items are always password-protected!**

- 1) Select the **Config** entry in the main menu and confirm with the Enter key .
- 2) Enter the password 0123 in the password dialogue and confirm it with the Enter key .
- 3) Use the arrow keys to select the corresponding parameter entry and confirm the entry with the Enter key .
- 4) Confirm the selection:
  - a) Select Yes to activate password protection and to navigate back to the main menu
  - b) Select No to deactivate password protection and to navigate back to the main menu

### 8.5.19 Config / Setting push button illumination

The Config menu is always password-protected. The push button illumination can be configured individually here.



Fig. 52: Menu:  
Config- Push button illumination

### Push button +- (push button polarity):

The polarity, i.e., plus side and minus side, of the push button illumination is **inverted** here. The function is important when using external push buttons. If you have any questions, please contact your service partner.

- 1) Switch to the **button +-** submenu.
- 2) Select the desired polarity for the push button. Ex works setting is **Button -** ; with the **Button +** setting, the push button illumination is **inverted**. (see wiring diagram).

### Push button dim:

The push button dimming is used to set the push button illumination. There are different settings between the operation (dosing time) of the device and during the pause time.

- 1) Switch to the **button dim.** submenu
- 2) Set the desired brightness for operation (dosing time) and pause.



### NOTICE

The **Reset** and **Config** parameter entries are always protected by the user password. The password protection cannot be deactivated here.

## 8.6 Button plate function (option)

The push button can be used to start a dosing cycle or a single brine shock.



Fig. 53: Button plate, sample illustration

### Push button operation mode

#### **Start programme / push button cycle**

In push button operation, dosing is started via the push button in the cabin. The dosing, with the settings for pause time and dosing time, runs until the cycle time has elapsed.

#### **Restart the programme**

If the push button is pressed again after the cycle time has elapsed, the programme starts again.

#### **Single dosing**

If you only want to carry out one dosing per push button actuation, the same duration must be set for the dosing time and the push button cycle time.

### Automatic operation mode

No push button is required for the automatic operation mode unless you want to use the **Brine shock function**.

#### **BRINE SHOCK function**

In automatic operation, the special function Brine shock is available: Brine shock is a function that allows to start an additional brine dosing in automatic operation. Dosing is started via the push button (option) and runs for the set dosing time. The automatic dosing process then continues normally.

### Push button illumination

The push button illumination can be set individually. See *Chapter 8.5.19, Config / Setting push button illumination*.

## 8.7 Change the brine solution



### **WARNING!**

#### **Health hazard due to germ contamination!**

**Germs may form in an over-aged brine solution. The germs can enter the application room via the dosing and be inhaled there!**

- **When stocking the necessary consumables, pay attention to shelf life, storage time and storage conditions!**
- **After opening, the brine solution has a maximum shelf life of 28 days! After that, the brine solution must be disposed of with the politainer!**

For information on changing the brine politainer, please pay attention to *Chapter 7.6 on page 31*.



## 9 Maintenance / Fault removal

### 9.1 Opening/closing the control housing

During fault removal, it may be necessary to open the control housing.



#### WARNING!

#### Danger of electric shock!

Dangerous electrical voltage!

- All work on the device must be carried out by specialist personnel only!
- All electrical installations and any work on the device's electrical components must be carried out by authorised electricians only!
- Prior to starting work, disconnect the devices from the power supply and secure them against being reactivated!



#### ATTENTION!

#### Danger due to static charge!

This safety notice denotes electronic components that may be damaged by electrostatic discharges.

The generally accepted safety precautions for ESD-sensitive devices must be observed when handling the devices!

In particular, the following applies for work on the control board:

- Only unplug or plug in connectors when they are disconnected from the power supply!
- As the person handling the device, please discharge yourself electrostatically for at least 5 seconds prior to directly touching the devices, e.g., by touching a grounded part of the device or by wearing an ESD antistatic wrist strap connected to ground!

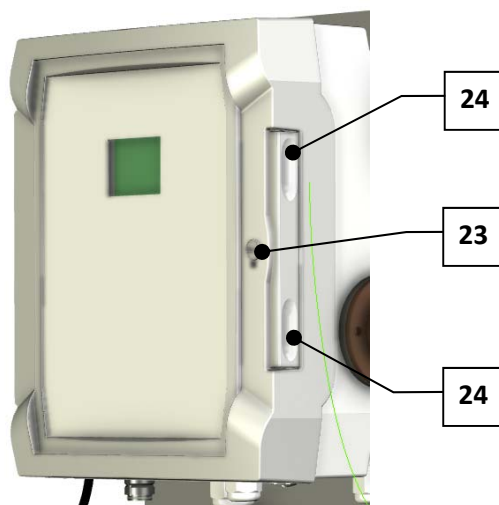


Fig. 54: Open control housing

- 1) Unlock the *locking knob* (23) with a screwdriver.
- 2) Forcefully press down on both *recessed grips* (24) until the housing snaps open.
- 3) Rotate the cover to the side.

Close the housing in reverse sequence.

## 9.2 Device maintenance



### **NOTICE**

We recommend that you assign a specialist firm to carry out regular maintenance.

In order to ensure the proper function of the SOLDOS-V3-BASIC, pay attention to the following points:

- Disinfection and maintenance in accordance with the maintenance protocol in *Chapter 11.5 on page 59*.
- Stocking of the required consumables. Pay attention to shelf life and storage time!



### **CAUTION!**

#### **Health hazard due to germ contamination!**

Germs may form in an over-aged brine solution. The germs can enter the application room via the dosing and be inhaled there!

- After a downtime of more than 14 days, renew the brine solution and carry out a disinfection prior to starting operations. The downtime and the disinfection must be documented!
- After opening, the brine solution has a maximum shelf life of 28 days! After that, renew the brine solution and carry out a disinfection!
- A disinfection must be carried out during each politainer change, or at least every 28 days and must be documented in the disinfection protocol!
- When stocking the necessary consumables, pay attention to shelf life, storage time and storage conditions!
- Check the use-by date before using a new brine solution!



### **CAUTION!**

#### **Health hazard due to liquids spraying out under high pressure!**

Leaks in pressurised lines can cause brine solution or disinfectant to escape. Contact with disinfectant can sensitise/irritate affected areas, e.g., mucous membranes, skin, etc.



- Wear protective glasses and gloves EN ISO 12100:2010
- The hoses must be checked at regular intervals, at least once a month, and replaced, if necessary.



### **ATTENTION!**

#### **Brine water leaves stains and corrodes metal!**

- Remove moist brine stains from the device!
- Regularly clean the device!

## 9.3 Faults

### 9.3.1 General safety notices



#### **WARNING!**

#### **Danger of electric shock!**

##### **Dangerous electrical voltage!**

- All work on the device must be carried out by specialist personnel only!
- All electrical installations and any work on the device's electrical components must be carried out by authorised electricians only!
- Prior to starting work, disconnect the devices from the power supply and secure them against being reactivated!



#### **CAUTION!**

#### **Danger of irritation and/or allergic reactions!**

##### **Disinfectants may cause irritation and allergic reactions!**



- Do not drink!
- Keep out of the reach of children!
- Do not allow to come into contact with skin or eyes!
- Wear chemical-resistant protective gloves and goggles!
- Block access to the application room/cabin during disinfection!
- Collect the escaping disinfection solution in a plastic container or channel it directly into the drain. Pay attention to the nationally applicable regulations for environmental and drinking water protection!

## 9.3.2 Fault indications



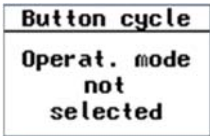


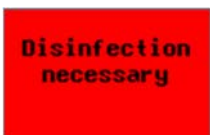
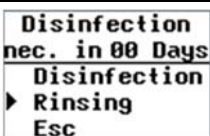
The following fault indications can be displayed on the device.

For the removal of fault indications, see the following fault table.



### **NOTICE**

During a fault in the device, the brine dosing is interrupted.

Fault indication	Cause / effect	Action
 <p>Fault: Container empty</p>	The pressure has dropped below 3bar. <ul style="list-style-type: none"> <li>• Brine politainer empty</li> <li>• Diaphragm pump does not work</li> <li>• Plug / pressure sensor unplugged/defective</li> </ul>	<ul style="list-style-type: none"> <li>• Renew politainer</li> <li>• Check diaphragm pump</li> <li>• Check plug / pressure sensor</li> </ul>
 <p>Fault: Overpressure</p>	The pressure has increased above 11bar <ul style="list-style-type: none"> <li>• Nozzle clogged</li> <li>• Dosing line bent</li> </ul>	<ul style="list-style-type: none"> <li>• Check nozzle</li> <li>• Check dosing line</li> </ul>
 <p>Operation mode notification</p>	<ul style="list-style-type: none"> <li>• A setting was made that is not possible for the selected operation mode.</li> </ul>	<ul style="list-style-type: none"> <li>• Use the Enter key to return to the main menu</li> <li>• Set the desired operation mode.</li> </ul>
 <p>Incorrect time entry</p>	<ul style="list-style-type: none"> <li>• An unrecognisable time was entered, confirm with Enter</li> <li>• A non-logical time was entered in the daily schedule</li> </ul>	<ul style="list-style-type: none"> <li>• The day has been deactivated</li> <li>• Enter a correct time to activate the day</li> </ul>
 <p>Incorrect password</p>	<ul style="list-style-type: none"> <li>• Incorrect password entry</li> </ul>	<ul style="list-style-type: none"> <li>• Enter correct password</li> </ul>
 <p>Disinfection necessary</p>	<ul style="list-style-type: none"> <li>• Maximum runtime of 28 days has elapsed</li> <li>• Disinfection failed</li> </ul>	<ul style="list-style-type: none"> <li>• Carry out disinfection, as described in Chapter 8.5.2 on page 37</li> <li>• Carry out disinfection again</li> </ul>
 <p>Disinfection necessary in 3, 2, 1 days</p>	<ul style="list-style-type: none"> <li>• No effect, display only</li> </ul>	<ul style="list-style-type: none"> <li>• Disinfection can be carried out</li> </ul>

## 9.3.3 Fault removal

Fault	Cause / effect	Action
The device cannot be switched on	<ul style="list-style-type: none"> <li>Main switch defective</li> <li>Power supply interrupted</li> </ul>	<ul style="list-style-type: none"> <li>Check main switch</li> <li>Check power supply</li> </ul>
Device without function	<ul style="list-style-type: none"> <li>incorrect setting</li> <li>Control board defective</li> <li>Power plug unplugged</li> <li>Operating contact open</li> <li>Outside the set operating times</li> </ul>	<ul style="list-style-type: none"> <li>Check/reset settings</li> <li>Check/renew circuit board</li> <li>Check power plug</li> <li>Close operating contact</li> <li>Correct the operating times</li> </ul>
Diaphragm pump without function	<ul style="list-style-type: none"> <li>Fuse defective</li> <li>Diaphragm pump defective</li> </ul>	<ul style="list-style-type: none"> <li>Renew fuse</li> <li>Check/renew pumps</li> </ul>
Push button illumination without function	<ul style="list-style-type: none"> <li>Fuse defective</li> <li>Push button incorrectly connected electrically</li> <li>Incorrect setting on the push button illumination</li> <li>Push button defective</li> </ul>	<ul style="list-style-type: none"> <li>Renew fuse</li> <li>Check electrical connection</li> <li>Correct settings in the Config menu</li> <li>Renew push button</li> </ul>
No dosing	<ul style="list-style-type: none"> <li>Brine politainer empty</li> <li>Nozzle clogged</li> <li>Dosing line damaged</li> <li>Transformer defective</li> </ul>	<ul style="list-style-type: none"> <li>Check line for leaks</li> <li>Clean nozzle</li> <li>Renew dosing line</li> <li>Renew transformer</li> </ul>
Pressure sensor test, brine empty	<ul style="list-style-type: none"> <li>The pressure increases above 11bar, the pump switches off</li> <li>The necessary pressure was not achieved, pay attention to pressure indication in the display</li> <li>No pressure indication in the display</li> </ul>	<ul style="list-style-type: none"> <li>Nozzle clogged, line blocked</li> <li>Brine politainer empty → Connect new politainer</li> <li>Leaking lines → Check/renew lines</li> <li>Check/renew pressure sensor</li> </ul>
No atomising / faulty spraying pattern	No atomising / faulty spraying pattern	<ul style="list-style-type: none"> <li>Nozzle encrusted → Clean nozzle</li> <li>Check brine level in the politainer / fill politainer and check pressure sensor</li> <li>Leaking lines → Check device for leaks</li> <li>Pump without function → Renew pump</li> </ul>
No brine dosing	<ul style="list-style-type: none"> <li>Fuse defective</li> <li>Diaphragm pump defective</li> <li>Nozzle clogged</li> </ul>	<ul style="list-style-type: none"> <li>Check fuse</li> <li>Check/renew pump</li> <li>Check nozzle / clean / renew</li> </ul>
Incorrect time of day	<ul style="list-style-type: none"> <li>Buffer condenser defective</li> </ul>	<ul style="list-style-type: none"> <li>Renew circuit board</li> </ul>
The disinfection has failed	<p>The pressure increases above 11bar, the pump switches off:</p> <ul style="list-style-type: none"> <li>Line / nozzle clogged, The pressure has dropped below 3bar:</li> <li>Brine politainer empty</li> <li>Diaphragm pump does not work</li> <li>Plug / pressure sensor unplugged/defective</li> </ul>	<ul style="list-style-type: none"> <li>Clean line / nozzle</li> <li>Fill politainer with disinfectant</li> <li>Check diaphragm pump</li> <li>Check plug / pressure sensor</li> </ul>

The rinsing has failed	The pressure increases above 11bar, the pump switches off: <ul style="list-style-type: none"><li>• Line / nozzle clogged</li></ul> The pressure has dropped below 3bar: <ul style="list-style-type: none"><li>• Brine politainer empty</li><li>• Diaphragm pump does not work</li><li>• Plug / pressure sensor unplugged/defective</li></ul>	<ul style="list-style-type: none"><li>• Clean line / nozzle</li><li>• Connect politainer with brine</li><li>• Check diaphragm pump</li><li>• Check plug / pressure sensor</li></ul>
------------------------	--	---

## 10 Decommissioning / Storage / Disposal

### 10.1 Decommissioning

Pay attention to the following notices when decommissioning the device:

- For decommissioning of a maximum of 14 day, deactivate the device at the main switch.
- For decommissioning of more than 14 days, the brine politainer must be removed. When recommissioning, a disinfection must be carried out and a new brine politainer must be connected.
- In the event of decommissioning, the device must be emptied completely!
- When decommissioning, clean out all lines by blowing air through them.

### 10.2 Storage

Pay attention to the following notices when storing the device:

- After decommissioning, store the device in a dry location protected from frost!
- Pay attention to the notices in *Chapter 4!*

### 10.3 Recommissioning



#### ATTENTION!

#### Damage due to incorrect commissioning!

- **Observe the sequence of the commissioning steps!**
- **Pay attention to the information in the commissioning protocol according to *Chapter 11.3 on page 57!***

When recommissioning the device, follow the commissioning steps according to *Chapter 7 on page 22* and pay attention to the points in the commissioning protocol according to *Chapter 11.3 on page 58!*

### 10.4 Disposal



#### ATTENTION!

#### Environmental damage due to improper disposal!



- **Pay attention to the national and local laws, ordinances and regulations regarding the disposal of mechanical and electronic components!**

Pay attention to the following notices when disposing of the device:

- Thoroughly clean any dismantled parts prior to disposal.
- Used parts and operating materials must be disposed of according to the regulations applicable at the site of operation, or they must be recycled.
- If operating materials are subject to special regulations, please pay attention to the corresponding information on the packaging.
- When in doubt, information may be obtained from the institution responsible for disposal at your location.

## 11 Documents

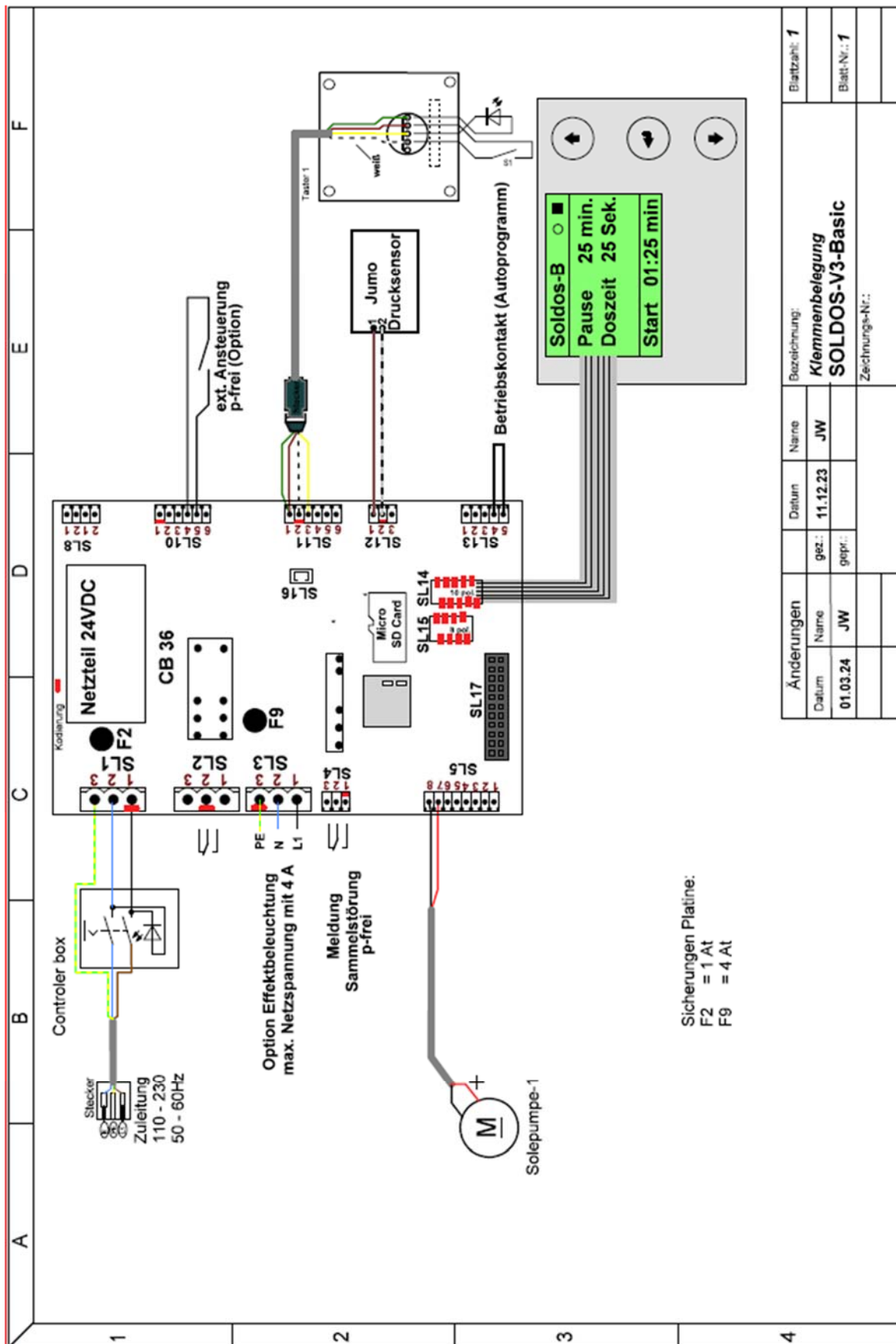
### 11.1 Declaration of conformity

<p>WDT Werner Dosiertechnik GmbH &amp; Co. KG                  Hettlinger Straße 17   D-86637 Wertingen                  Tel. 0049 8272 98697-0   Fax 0049 8272 98697-19                  info@werner-dosiertechnik.de   www.werner-dosiertechnik.de</p>							
<p><b>EG-Konformitätserklärung</b>  <b>EC declaration of conformity</b>  <b>Déclaration de conformité UE</b></p> <p>im Sinne der EG-Maschinenrichtlinie 2006/42/EG, Anhang II 1.A                  as defined in the ECMachinery Directive 2006/42 / EC, Annex II, Part 1A                  selon la directive européenne machines 2006/42 / CE, annexe II 1.A</p>							
<b>Hersteller</b>	WDT - Werner Dosiertechnik GmbH & Co. KG						
<b>Manufacturer</b>	Hettlinger Str. 17						
<b>Fabricant</b>	86637 Wertingen-Geratshofen						
<b>Beschreibung und Identifikation des Produktes:</b>							
<b>Description and identification of the product:</b>							
<b>Description et identification du produit :</b>							
<table border="1"> <tr> <td>Typenbezeichnung:</td> <td>Art:</td> </tr> <tr> <td>• Solevernebelungsgerät Soldos-V3-Basic</td> <td>Maschine</td> </tr> </table>		Typenbezeichnung:	Art:	• Solevernebelungsgerät Soldos-V3-Basic	Maschine		
Typenbezeichnung:	Art:						
• Solevernebelungsgerät Soldos-V3-Basic	Maschine						
<b>Funktion:</b>	Solevernebelungssystem für den Wellness-Bereich						
<b>Function:</b>	Nebulization of brine solution for the wellness area						
<b>Fonction:</b>	Système de nébulisation unique pour l'espace bien-être						
<p><b>Es wird ausdrücklich erklärt, dass das Produkt allen einschlägigen Bestimmungen der folgenden EG-Richtlinien entspricht:</b>                  It is expressly stated that the product complies with all relevant provisions of the following EC directives                  Il est explicitement dit que le produit est conforme à toutes les dispositions pertinentes des directives CE suivantes :</p>							
2006/42/EG	RICHTLINIE 2006/42/EG DES EUROPÄISCHEN PARLAMENTS UND DES RATES vom 17. Mai 2006 über Maschinen und zur Änderung der Richtlinie 95/16/EG (Neufassung)						
<p><b>Die folgenden harmonisierten Normen nach Artikel 7 (2) wurden angewandt:</b>                  The following harmonized standards as defined in Article 7 (2) were applied:                  Les normes harmonisées suivantes selon l'article 7 (2) ont été appliquées :</p>							
EN ISO 12100:2010	Sicherheit von Maschinen - Allgemeine Gestaltungsleitsätze - Risikobeurteilung und Risikominderung						
EN ISO 13849-1:2015	Sicherheit von Maschinen – Sicherheitsbezogene Teile von Steuerungen – Teil 1: Allgemeine Gestaltungsleitsätze						
EN ISO 13849-2:2012	Sicherheit von Maschinen – Sicherheitsbezogene Teile von Steuerungen – Teil 2: Validierung						
EN 60204-1:2018	Sicherheit von Maschinen – Elektrische Ausrüstung von Maschinen – Teil 1: Allgemeine Anforderungen						
<p><b>Die in der Gemeinschaft ansässige Person, die für die Zusammenstellung der technischen Unterlagen bevollmächtigt ist:</b>                  The designated person who is authorized to draw up the technical documentation:                  La personne établie dans la communauté qui est autorisée à constituer le dossier technique:</p>							
<b>Name:</b>	Werner Dosiertechnik GmbH & Co KG						
<b>Straße/Nr.:</b>	Hettlinger Straße 17						
<b>PLZ Stadt:</b>	86637 Wertingen						
<p>Wertingen, 12.12.2023                  Ort/City/Place, Datum/Date</p>		 Unterschrift/signature Rainer Riegen, Director					
<p>CE DW 021-00 Konformitätserklärung Soldos V3-Basic.docx</p>							



## 11.2 Wiring diagrams

Notice for wiring diagrams: The special wiring diagrams attuned to the optional furnishing of the brine dosing station are located at the device's control cabinet.



Änderungen		Datum		Name		Bezeichnung:	
Datum	01.03.24	gez.:	JW	Name	JW	Klemmenbelegung	
gepr.:		gepr.:				SOLDOS-V3-Basic	
						Zeichnungs-Nr.:	
						Blattzahl: 1	
						Blatt-Nr.: 1	

## 11.3 Commissioning protocol

This protocol is to be completed by the commissioning technician! Without a completed and signed commissioning protocol, all warranty claims become void!

The commissioning protocol can be found in the accompanying documentation in *Chapter 11.5 on page 62*.

## 11.4 Operation data sheet



### NOTICE

During commissioning, enter the operating parameters in the operation data sheet!

Menu	Factory setting	Setting range	Step	During commissioning Date	Optimised during operation Date
Pause time	5 minutes	1-90 minutes	1		
Dosing time	10 seconds	5-120 seconds	1		
Operation mode	Auto	Auto Externally Push button			
Push button cycle time	30 minutes	5 sec to 60 min			
Hose length		1-30m	1		
Timer		yes no			
Monday		00:01-23:59		_____	_____
Tuesday		00:01-23:59		_____	_____
Wednesday		00:01-23:59		_____	_____
Thursday		00:01-23:59		_____	_____
Friday		00:01-23:59		_____	_____
Saturday		00:01-23:59		_____	_____
Sunday		00:01-23:59		_____	_____
Contrast	8	0-15	1		
Push button illumination polarity	-	+ and -			
Push button illumination dimming	Operation: 15 Pause: 1	Operation: 0-15 Pause: 0-15			

## 11.5 Maintenance protocol

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### **NOTICE**

Carry out the specified maintenance tasks in order to protect any warranty claims!

The maintenance protocol can be found in the accompanying documentation in *Chapter 11.5, on page 62*.



### **ATTENTION!**

**Carry out a disinfection during each politainer change, or at least every 28 days!**

#### **Maintenance of the brine cabins**

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For steam baths, we recommend to rinse the interior room with water at the end of operations to minimise salt deposits and encrustation.



## 11.7 Spare parts / wear parts / consumables



### ATTENTION!

#### Damage due to unapproved spare parts!

- Only use spare parts approved by the manufacturer!
- Only order spare parts from your service partner or your specialist dealer.

#### Spare parts list

Device	Pos.	Designation	Code no. WDT
Control unit		Fuse bag 2x1A	24949
		Fuse bag 2x4A	23012
		Housing BCD 160	27890
		Control board CB36 coded	28244
		Display HMI, including circuit board	27553
		Mains switch	21468
Dosing technology		Diaphragm pump NF1.25 24V	24269
		Pressure sensor C08	24538
		Adapter for pressure sensor d50-1/4" brine	25922
		Canister connection brine coupling	17437
		Canister connection brine plug V3	24542
		Nozzle V3 complete, including washer and wall sleeve	24545
		Nozzle for Soldos V3	24547
		Dosing line PTFE 4x1mm	10432
		Union nut 6mm PP 1/4"	11003
Disinfection kit		Disinfection kit Soldos V2+ V3	19873
Options		Shut-off valve - pressure retention valve Soldos V3 Basic	30764

#### Wear parts list

Device	Pos.	Designation	Code no. WDT
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#### List of consumables

Device	Pos.	Designation	Code no. WDT
Brine		Brine solution 5% 1kg in politainer	17519
		Brine solution 5% 5kg in politainer	17613
		Carton with brine solution 5%: 6x1kg	17669
		Carton with brine solution 5%: 6x5kg	17667
Disinfection tablets		1 tablet SOLDOS disinfection	19871
		25 tablets SOLDOS disinfection	19871-1



# Commissioning Protocol IP-081-EN

## SOLDOS-V3-Basic



This protocol is to be completed by the commissioning technician! Without a completed and signed commissioning protocol, all warranty claims become void!

Object: \_\_\_\_\_ Date: \_\_/\_\_/\_\_\_\_

City, street, house number: \_\_\_\_\_

Device type: \_\_\_\_\_ Year of manufacture: \_\_\_\_\_ Serial number: \_\_\_\_\_

	Activity	Completed	Comment
<b>1</b>	<b><u>Commissioning</u></b>		
1.1	Device checked for correct installation	<input type="checkbox"/>	
1.2	Device and lines checked for leaks	<input type="checkbox"/>	
1.3	All materials in the steam room and the vent lines checked for their corrosion resistance to a 5% brine solution	<input type="checkbox"/>	
1.4	Commissioning conducted according to OI (Operating Instructions) Chapter 5	<input type="checkbox"/>	
1.5	Length of the dosing line entered in start query	<input type="checkbox"/>	
1.6	Disinfection carried out according to OI, <i>Chapter 7.5.4</i>	<input type="checkbox"/>	
1.7	Control parameters adjusted and entered in the operation data sheet under <i>Chapter 11.4</i>	<input type="checkbox"/>	
1.8	All test programmes checked	<input type="checkbox"/>	
1.9	Device checked for correct operation	<input type="checkbox"/>	
<b>2</b>	<b><u>Other</u></b>		
2.1	Operating instructions reviewed and handed over	<input type="checkbox"/>	
2.2	Service and operating personnel instructed	<input type="checkbox"/>	

Additional remarks:

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Commissioning and instruction carried out by: \_\_\_\_\_

Instructed persons: \_\_\_\_\_

Signature of commissioner: \_\_\_\_\_

Countersigned by operator: \_\_\_\_\_





# Maintenance Protocol WP-081-EN

## SOLDOS-V3-Basic



This protocol is to be completed by the maintenance technician! We reserve the right to determine the warranty conditions when no completed and signed maintenance protocol is available.

Object: \_\_\_\_\_ Maintenance year: 20\_\_

City, street, house number: \_\_\_\_\_

Device type: \_\_\_\_\_ Year of manufacture: \_\_\_\_\_ Serial number: \_\_\_\_\_

	Activity	Maintenance interval in	Month												Comment / additional tasks	
			Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12		
<b>1</b>	<b>SOLDOS-V3-Basic</b>															
1.1	Disinfect during each politainer change, or at least every 28 days (see disinfection protocol)															
1.2	Check diaphragm pump for function and leaks	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.3	Check device for leaks	3			<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>				<input type="checkbox"/>	
1.4	Conduct pressure sensor test in the "Test outputs" menu	6						<input type="checkbox"/>							<input type="checkbox"/>	
1.5	Clean device	6						<input type="checkbox"/>							<input type="checkbox"/>	
1.6	Clean brine nozzle	12													<input type="checkbox"/>	
1.7	Run Input test menu in the service menu	12													<input type="checkbox"/>	
1.8	Run Output test menu in the service menu	12													<input type="checkbox"/>	
1.9	Check electric cabling	12													<input type="checkbox"/>	

Additional remarks:

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Maintenance carried out and device checked for function: \_\_\_\_\_ Date: \_\_\_\_\_  
Signature

Countersigned by operator: \_\_\_\_\_



**Assembly and sealing of the flush mounted box V2 for push button plates**



**CAUTION !**

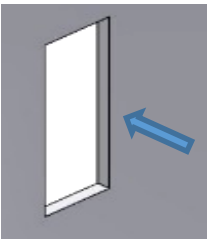
**Before starting to work, make the electrical lines volt free and protect them against new connection! Wear protective clothes!**



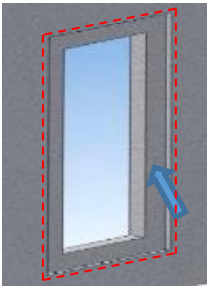
**1 Assembly in building panels**



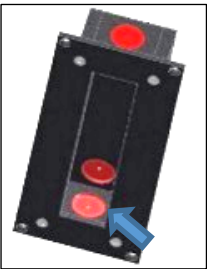
a) Install the empty conduit at the required place!  
**Diameter empty conduit type 32 (ID 25mm)**  
**Bend radius min. 10cm**



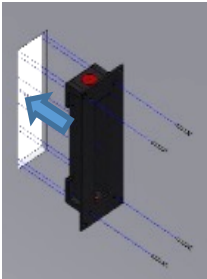
b) Cut out construction plate  
 Dimensions:  
 1-fold: HxWxD min. 100x67x55mm  
 2-fold: HxWxD min. 133x 67x55mm  
 3-fold: HxWxD min. 166x 67x55mm  
 4-fold: HxWxD min. 200x 67x55mm



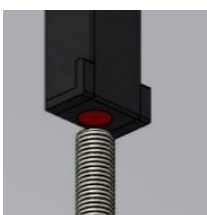
c) Cut a recess to sink the sealing flange with a depth of 3mm  
 Dimensions:  
 1-fold: HxW min. 130x97mm  
 2-fold: HxW min. 163x97mm  
 3-fold: HxW min. 196x97mm  
 4-fold: HxW min. 229x97mm



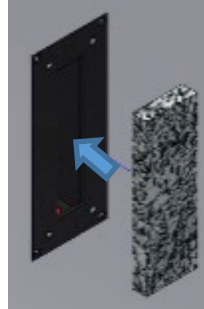
d) Break out an orifice for the empty conduit connection at the desired rated break point



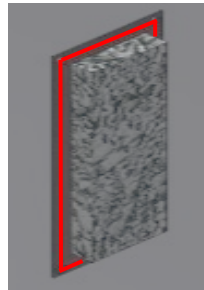
e) Install the flush mounted box and fix with 4 screws if necessary



f) Connect the empty conduit onto the flush mounted box and insert cables



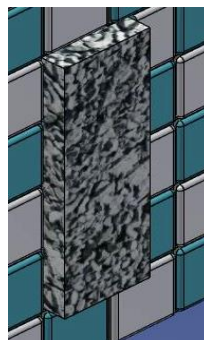
g) Place the supplied construction protection cap in the flush mounted box



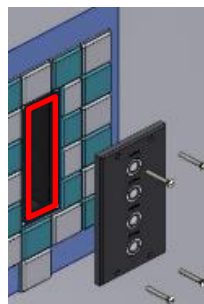
h) Apply sealant for vapour barrier foil



i) Adapt and adhere the vapour barrier foil  
**No humidity may penetrate!**



j) Tile the flush mounted box until the construction protection cap

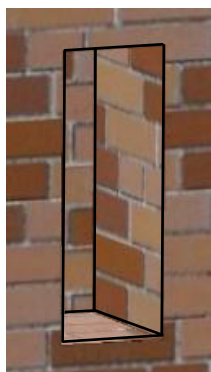


k) Take out the protection cap  
 Clamp the push button plate.  
Seal the push button plate against the flush mounted box: apply appropriate sealant on the flush mounted box and fix with 4 screws

**No humidity may penetrate!**

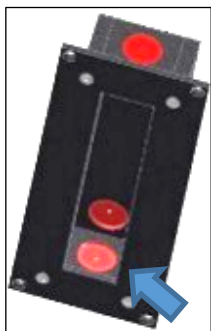
## EN - Additional sheet: flush mounted box V2

### 2 Installation in brickwork

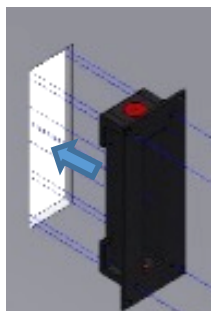


a) Chisel out brickwork for flush mounted box and empty conduit  
**Diameter empty conduit type 32 (ID 25mm)**  
**Bend radius min. 10cm**

Dimensions for break out works  
 1-fold: HxWxD min. 105x72x60mm  
 2-fold: HxWxD min. 138x72x60mm  
 3-fold: HxWxD min. 171x72x60mm  
 4-fold: HxWxD min. 205x72x60mm



b) Break out an orifice for the empty conduit connection to the desired rated break point

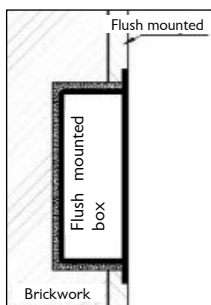


c) Install the flush mounted box and the empty conduit with electrician cast or building foam in the wall, approximately 20 mm protruding due to flush system

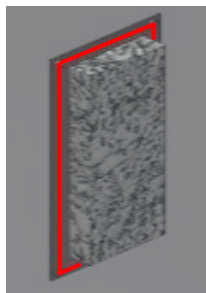
Insert cable



d) Install the supplied construction protection cap in the flush mounted box



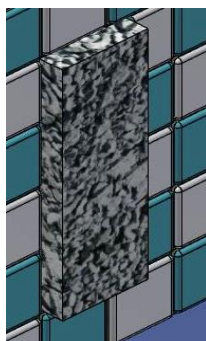
e) Plaster the brickwork so that the flush mounted box flushes with the plaster.



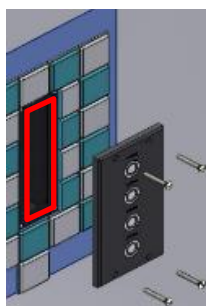
f) Apply sealant for vapour barrier foil



g) Adhere vapour barrier foil  
**No humidity may penetrate!**



h) Enter the flush mounted box until the construction protection cap



i) Remote protection cap  
 Clamp the push button plate.  
Seal the push button plate against the flush mounted box: apply appropriate sealant on the flush mounted box and fix with 4 screws

**No humidity may penetrate!**