



# SMARTPOWER™ RTU Dispenser

Metering unit for solids pre-rinse  
products with colour and shape coding



Operating instructions



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# 1 General

## 1.1 Notes on the operating instructions



**CAUTION**

**Read the instructions!**

**Prior to commencing any works and/or operating, appliances or machinery, these instructions must be read and understood as a strict necessity. In addition, always heed all the instructions relating to the product that are included with the product!**

All instructions are also available for download if you have mislaid the original. Furthermore, you will always have the opportunity to get the latest version of the manuals. The German-language manual is the **original operating manual**, which is legally relevant. **All other languages are translations.**

**Particular attention should be paid to the following:**

- Personnel must have carefully read and understood all instructions belonging to the product before starting any work. The basic premise for safe operation is observing all safety instructions and work instructions in this manual.
- Figures in this manual are provided for basic understanding and may deviate from the actual product.
- All manuals and guides must be placed at the disposal of the operating and maintenance personnel at all times. Therefore, please store all manuals and guides as a reference for operation and service.
- If the system is resold, this manual must always be supplied with it.
- The relevant sections of this operating manual must be read, understood and noted before installing the system, using it for the first time, and before carrying out any maintenance or repair work.

**Available instructions**

The most up-to-date and complete operating manual is available online:




To download the instructions to a PC, tablet or smartphone, use the link below or scan the QR code provided.

**Download the operating instructions 'SMARTPOWER™ RTU Dispenser' (MAN054128):**

↪ [https://www.ecolab-engineering.de/fileadmin/download/bedienungsanleitungen/institutional/Ware-Washing/MAN054128\\_SMARTPOWER\\_RTU\\_Dispenser\\_UK.pdf](https://www.ecolab-engineering.de/fileadmin/download/bedienungsanleitungen/institutional/Ware-Washing/MAN054128_SMARTPOWER_RTU_Dispenser_UK.pdf)

**Always call up the latest operating instructions**

If any 'operating instructions' are changed, the document will immediately be posted 'online'. All operating instructions are provided in PDF format . To open and display the operating instructions, we recommend that you use Adobe PDF Viewer (↪ <https://acrobat.adobe.com>).

**Accessing operating instructions using the website of Ecolab Engineering GmbH**

You can search for and select the required instructions on the manufacturer's website (→ <https://www.ecolab-engineering.de>) under **[Media Centre]** / **[Operating Instructions]**.

**Go to the instructions in the 'DocuAPP' for Windows®**

You can use the 'DocuApp' for Windows® (as of Version 10) to download, read and print all published operating instructions, catalogues, certificates and CE declarations of conformity on a Windows® PC.



To install this program, open the 'Microsoft Store' and enter **DocuAPP** in the search field or click this link: → <https://www.microsoft.com/store/productId/9N7SHKNHC8CK>. Follow the installation instructions.

**Viewing user manuals on smartphones/tablets**

You can use the Ecolab 'DocuApp' to access all operating manuals, catalogues, certificates and CE declarations of conformity published by Ecolab Engineering using a smartphone or tablet (Android & iOS). The published documents are always up to date and new versions are displayed immediately.



**'Ecolab DocuApp' instructions for download:**

For more information about the 'DocuApp', refer to the specific software description.

→ [Download instructions](#)

**Installing 'DocuApp' for Android**

On Android based smartphones, the 'DocuApp' can be installed from the "Google Play Store".

1. Call up the "Google Play Store" with your Smartphone / Tablet.
2. Enter the name "Ecolab DocuAPP" in the search field.
3. Select the **Ecolab DocuAPP**.
4. Choose **[Install]**.
  - ➔ The 'DocuApp' is installed.







**Installing the 'DocuApp' for iOS (Apple)**

On iOS based smartphones, the 'DocuApp' can be installed from "App Store".

1. Call up the "App Store" on your iPhone/iPad.
2. Go to the search function.
3. Enter the name "Ecolab DocuAPP" in the search field.
4. Enter the search term **Ecolab DocuApp** to search for the app.
5. Choose **[Install]**.
  - ➔ The 'DocuApp' is installed.

**Symbols, highlights and bulleted lists**


Safety instructions in this manual are identified by symbols and introduced by signal words expressing the extent of the hazard.

	<b>DANGER</b> Indicates an imminently hazardous situation which, if not avoided, could result in death or serious injury.
	<b>WARNING</b> Indicates a potentially imminent danger that can lead to serious injuries or even death.
	<b>CAUTION</b> Indicates a potentially hazardous situation which may result in minor or slight injury.
	<b>NOTICE</b> Indicates a potentially dangerous situation that may result in property damage.
	<b>Tips and recommendations</b> <i>This symbol highlights useful tips, recommendations and information for an efficient and trouble-free operation.</i>
	<b>ENVIRONMENT</b> Indicates potential hazards to the environment and identifies environmental protection measures.

**Safety instructions in the operating instructions**

Safety instructions can refer to specific, individual operating instructions. These safety instructions are embedded in the operating instructions, so they do not interrupt the reading flow when executing the action. The signal words described above are used.

**Example:**

1. → Loosen screw.
2. →  **CAUTION**  
**Risk of trapping on the cover!**  
Close the cover carefully.
3. → Tighten screw.

**Other markings** The following markings are used in these instructions to provide emphasis:

1, 2., 3. ... Step-by-step operating instructions



⇒ Results of the operating steps



References to sections of these instructions and related documents



Lists in no set order

**[Button]** Controls (e.g. button, switch), indicators (e.g. signal lights)

'Display' Screen elements (e.g. buttons, assignment of function keys)



**Item numbers and EBS numbers**

*Both item numbers and EBS numbers are shown in these operating instructions.*

*EBS numbers are Ecolab-internal item numbers and are used within our corporate group.*

**Copyright** **This manual is copyright protected. All rights belong to the manufacturer.**

The transfer of this manual to third parties, reproductions in any kind and form, even in extracts, as well as the exploitation and/or communication of the content are not permitted without the written permission of Ecolab (hereinafter referred to as "manufacturer") except for internal purposes. Any violations result in obligatory compensation for damages. The manufacturer reserves the right to enforce additional claims.

## 1.2 Transportation

The unit is supplied in cardboard packaging. Please refer to the technical data for the packaging dimensions and packaging weight.

**Improper transportation**



**NOTICE**

**Material damage due to improper transport**

Transport units can fall or tip over if improperly transported. This can cause considerable damage.

- Observe symbols and instructions on the packaging
- Unload and transport the transport items carefully
- Only use intended attachment points
- Transport items to the place of use using a suitable means of transport or lifting equipment.
- Use only approved means of transport
- Do not remove packaging until immediately before installation



**DANGER**

**Risks when commissioning equipment which has been damaged during transportation.**

Installation or start-up must not take place if any transport damage is detected when unpacking the system.

Installing/starting up a damaged pump may result in uncontrollable errors, which may lead to irreparable damage to personnel and/or of the equipment when using aggressive dosing agents.

**Transport inspection**



**NOTICE**

Check the delivery for completeness and any transport damage.

**In case of visible transport damage, proceed as follows:**

- Do not accept the delivery or accept it only on a provisional basis.
- Note down the extent of damage on the transport documents or on the carrier's delivery slip.
- Lodge a complaint.



***Claim for any damage as soon as you notice it!***

*Damage claims can be filed only within the applicable period for complaints.*

**1.3 Packaging**

The individual packages are bundled to suit the expected transport conditions.

Only environmentally-friendly materials have been used in the packaging. The packaging is designed to protect the individual components against shipping damage, corrosion and other damage before assembly. Do not destroy the packaging and only remove it just before assembly.



*There may be instructions on how to handle the packages (e.g. this way up, fragile, keep dry). These must be adhered to accordingly.*



**ENVIRONMENT**

**Risk of environmental damage from incorrect disposal!**

Packaging materials are valuable raw materials and can, in many cases, be used again or be usefully processed and recycled.

**Incorrect disposal of packaging materials can be a threat to the environment.**

- Observe the local disposal regulations!
- Environmentally-friendly disposal of packaging materials.
- If necessary, hire a specialist to carry out disposal.

**1.4 Storage**



*In certain cases, storage instructions may be specified on the packages that go beyond the requirements specified here. These must be observed accordingly.*

- Do not store outdoors.
- Store in a dry and dust-free place.
- Do not use abrasive solutions.
- Keep away from direct sunlight.
- Avoid mechanical vibrations.
- If stored for longer than 3 months, regularly check the condition of all parts and packaging. If necessary, renew or replace the packaging.
- Store away from frost.
- For more information, please see [↔ 10' Technical data'](#)



**NOTICE**

**Intermediate storage**

- The packaging is designed for a storage period of 3 months.
- If the dispenser is not operational for a period of longer than one week: fully empty and flush tank with water.



**CAUTION**

**Risk of damage to the dispenser.**

Ingress of dirt and water can damage the dispenser. Never clean the unit with a steam cleaner or with a water jet.

## 1.5 Equipment marking – identification plate



### **Information on the type plate**

*Information on equipment marking and information on the rating plate can be found in chapter → [Chapter 10 'Technical data' on page 59.](#)*

*The correct specification of the name and type is important for all queries.*

*This is the only way of ensuring fast and accurate processing of your enquiry.*

## 1.6 Warranty

**The manufacturer provides a warranty for operational safety, reliability and performance under the following conditions only:**

- Assembly, connection, adjustment, maintenance and repairs must be carried out by qualified and authorised specialist personnel in compliance with all documents supplied.
- Please follow the instructions for use in the User Manual.
- Only original equipment spare parts are to be used for repairs.
- If dosing media are specified for use in these instructions, we explicitly exclude any warranty/liability for the use of other products!



*Our products are built, tested and certified in accordance with current standards/guidelines. They left the factory in a safe, faultless condition.*

*To maintain this condition and to ensure a trouble-free operation, the user must observe all instructions, warnings, maintenance regulations, etc. that are contained in all the corresponding manuals and that may be attached to the product.*

***The manufacturer's general warranty and service conditions apply.***

## 1.7 Repairs/returns to Ecolab Engineering GmbH



### DANGER

#### Conditions for returns

**Before being returned, all parts must be completely free of all chemicals! We would point out that only clean, rinsed parts that are free of all chemicals can be accepted by our service!**

This is the only way of excluding the possibility of the risk of injury to our staff due to residues of chemical products. The goods sent in must, where possible, also be packed in a suitable bag preventing any leakage of liquid residues into the surrounding packaging.

Enclose a copy of the product data sheet for the chemical used so that our Service staff can be prepared to use the necessary personal protective equipment (PPE).



#### **The return must be requested online**

→ <https://www.ecolab-engineering.de/en/contact/returns>

**Fill in all details and follow the further navigation.**

*You will receive the completed return form by email.*





### Packaging and shipping

If possible, use the original box to return the device.



#### **General information for returns**

- *Ecolab assumes no liability for transport damage.*
- *Make sure that the original serial number label is on all products sent in.*
- *The return form must be affixed in a clearly visible position **on the outside** of the package using a delivery note pouch.*

1.  Print and sign the return form.
2.  Pack the product to be returned without any accessories, unless they may be related to the fault.
3.  Enclose the following documents with the consignment:
  - Signed return form
  - Copy of the order confirmation or delivery note
  - In the case of a warranty claim: Invoice copy with date of purchase
  - Safety data sheet for hazardous chemicals
4.  Copy the return address with return number to the shipping label.

## 1.8 Contact

### Manufacturer



#### **Ecolab Engineering GmbH**

Raiffeisenstraße 7  
**D-83313 Siegsdorf, German**

Telephone (+49) 86 62 / 61 0  
Fax (+49) 86 62 / 61 166

↪ [engineering-mailbox@ecolab.com](mailto:engineering-mailbox@ecolab.com)

↪ <http://www.ecolab-engineering.com>

**Before you contact the manufacturer, we recommend that you always contact your sales partner first.**



**2 Safety**



**DANGER**

If you believe that the unit can no longer be operated safely, you must decommission it immediately and secure it so that it cannot be used inadvertently.

**This applies:**

- if the unit shows visible signs of damage,
- if the unit no longer appears to be operational,
- after prolonged periods of storage under unfavourable conditions.

**The following instructions must always be observed:**

- Prior to carrying out any work on electric parts, switch off the power supply and secure the system against being switched back on again.
- Safety regulations and prescribed protective clothing when handling chemicals should be followed.
- Attention must be paid to the information included on the product data sheet of the metering medium used.
- The unit must only be operated with the supply and control voltage specified in the Technical Data section.



**CAUTION**

**Complete machine**

**This component is delivered as a "complete machine" in accordance with the Machinery Directive 2006/42/EC.**

Ecolab (the manufacturer) provides the component as a stand-alone machine, including all required components and controls. For this reason, the is component defined as a complete machine.

**The operator is responsible for all components to be connected to the component that are located outside the boundaries of the machine and that are provided by the operator in order to integrate the component into its plant.**

The manufacturer supplies a declaration of conformity ([↔ Appendix B 'EC Declaration of Conformity' on page 75](#)). **Any subsequent change requires a new evaluation process and CE certification.**

**Despite constructive safety measures, various residual risks remain which cannot be avoided. These residual risks are covered by the safety instructions in this manual and are a prerequisite for safe operation of the component.**

## 2.1 Intended use

The SMARTPOWER™ RTU Dispenser dispenser delivers a detergent or pre-rinse solution from Ecolab's compressed detergent capsules (SMARTPOWER™).

The following models of the dispenser are available:

SMARTPOWER™ Manual Dispenser RTU	Delivers a detergent solution for manual dishwashing
SMARTPOWER™ Presoak Dispenser RTU	Delivers a pre-rinse solution for manually pre-rinsing dishes and cutlery
SMARTPOWER™ Pot&Pan Soak Dispenser RTU	Delivers a pre-rinse solution for manually pre-rinsing pots and pans

The following points are included under intended use:

- Only approved compressed products may be dispensed.
- Use is restricted to commercial applications; private use is excluded.
- All operating instructions and operating instructions prescribed by Ecolab and all maintenance and servicing conditions must be complied with.
- The metering unit must be operated only within the operating conditions permitted in accordance with [Chapter 10 'Technical data' on page 59](#).

Any other or additional use is considered improper. Ecolab shall not be liable for any resulting damage to property or for personal injury.

### Reasonably foreseeable incorrect use

According to the hazard analysis, the following points can lead to misuse:

- Operation with an open cover or without a cover.
- Using the metering unit as a storage location for objects or tools.
- Non-compatible accessories.
- Line cross-sections that are too small.
- Incorrect ambient temperatures or media temperatures.
- Operation in potentially explosive areas.
- Use of unsuitable metering media.

### Unauthorised modifications and spare parts



#### CAUTION


Changes or modifications are not permitted without prior, written permission from Ecolab Engineering GmbH and shall result in the forfeiting of any and all warranty entitlements. Original spare parts and accessories approved by the manufacturer are designed to increase safety. The use of other parts excludes the warranty for the resulting consequences. **Note that CE conformity expires if subsequent modifications are made.**


**2.2 Service life**

If maintenance is conducted properly (visual inspection, functional testing, replacement of parts, etc.), the life span of the component is approximately 10 years.


Subsequently, revision and, if necessary, a major overhaul by the manufacturer is required. → *'Manufacturer'* on page 13

**2.3 Safety measures taken by the operator**

 **NOTICE**  
**Instruct/train staff**  
 It is expressly up to the operator to train, monitor and instruct its operating and maintenance personnel so that they comply with all of the necessary safety measures.  
**The frequency of inspections and controls must be complied with and documented.**

 **WARNING**  
**Danger due to improperly installed system components**  
 Improperly installed system components can result in personal injury and damage to the system.  
 To prevent damage and personal injury, all system components made available by the operator (e.g. pipe connections, flanges, connections) must be checked for proper assembly.  
 To ensure safe operation, a final leak test of all system components is essential during initial commissioning and this test must be documented (operator obligations).  
 If assembly was not carried out by Customer Support/ Service, check that all system components are made of the correct materials (product is resistant to the dosing media used) and meet the applicable requirements.

**Obligations of the operator**

 **Valid guidelines**  
*In the EEA (European Economic Area), national implementation of the Directive (89/391/EEC) and corresponding individual directives, in particular the Directive (2009/104/EC) concerning the minimum safety and health requirements for the use of work equipment by workers at work, as amended, are to be observed and adhered to. If you are outside the EEA, the local regulations always apply. However, it is important to make sure that the EEA rules do not apply to your area, due to special agreements.*  
**The operator is responsible for checking the terms and conditions that affect you.**

**The operator must adhere to the local legal provisions for:**

- The safety of personnel (within the Federal Republic of Germany, in particular the federal law and accident prevention regulations, workplace guidelines, e.g. operating instructions, also according to

Section 20 Hazardous Substances Ordinance (GefStoffV), personal protective equipment (PPE), preventive investigations)

- The safety of work materials and tools (protective equipment, work instructions, procedural risks and maintenance)
- Product procurement (safety datasheets, list of hazardous substances)
- Disposal of products (Waste Act)
- Disposal of materials (decommissioning, Waste Act)
- Cleaning (detergents and disposal)
- and observe current environment protection regulations.

**The owner is also required to:**

- Provide personal protective equipment (PPE)
- Incorporate the measures into operating instructions and to instruct personnel accordingly
- For operating sites (from 1m above ground) To provide safe access
- The operator must provide lighting in workplaces in accordance with DIN EN 12464-1 (within the Federal Republic of Germany). Observe the local applicable regulations!
- To ensure that local regulations are complied with during installation and commissioning, if these procedures are conducted by the operator

## 2.4 Personnel requirements

### Qualifications



**DANGER**

**Risk of injury if personnel are inadequately qualified! If unqualified personnel carry out work or are in the danger area, dangers may arise which can lead to serious injuries and considerable damage to property.**

All the activities may only be performed by personnel that is qualified and suitably trained for this purpose. **Keep unqualified personnel away from hazard areas.**



**NOTICE**

**Incorrect operation by unreliable personnel**

Material damage due to incorrect operation.

Only persons who can be expected to carry out their work reliably can be approved as personnel. Individuals whose reactions are impaired, e.g. by drugs, alcohol, medicines, are not authorised.

- When selecting personnel, observe the valid age and occupation-specific regulations.
- Unauthorised persons must be kept away from the component.

### Obligations on the part of personnel

**The personnel must:**

- follow the applicable national laws and regulations, as well as the operator's regulations on occupational safety
- read and follow the instructions in this document before starting work

- not enter areas secured using protective measures or access restrictions without due authorisation
- in the event of faults that could jeopardise the safety of personnel or components, immediately switch off the plant and report the fault to the responsible department or person
- wear the personal protective equipment (PPE) prescribed by the operator
- observe the applicable safety regulations and the manufacturer's safety data sheet when handling chemicals

**Operator**

The operator has been instructed about the tasks assigned to him and possible dangers in case of improper behaviour. He may only carry out tasks that go beyond operation during normal operation if this is specified in these instructions or the owner has expressly authorised the operator to do so.

**Qualified employee**

A person with appropriate training, appropriate education and experience who is able to identify risks and avoid hazards.

**Service personnel**

Certain work may only be carried out by service personnel of the manufacturer or by service personnel authorised or specially trained by the manufacturer. If you have any questions, please contact manufacturer.

**Specialist**

A person with appropriate training, schooling and experience enabling him or her to identify risks and avert danger.

**Trained personnel**

Someone who has been instructed by a professional in their designated task and informed of the possible dangers of improper behaviour and, if applicable, has been informed of the necessary protective devices and measures.




**DANGER**

**Auxiliary personnel without special qualifications**

Auxiliary personnel without special qualifications or without special training who do not meet the requirements described here are unaware of the dangers in the work area.


**Therefore, there is a risk of injury to auxiliary personnel.**

It is imperative that auxiliary personnel without specialist knowledge are familiarised with the use of personal protective equipment (PPE) for the activities to be performed, or are appropriately trained, and that these measures are monitored. These personnel may then only be deployed on activities for which intensive training has been given beforehand.

 **DANGER**  
**Unauthorised personnel**  
 Unauthorised persons who do not meet the requirements described here are not familiar with the risks in the operating area.  
 Therefore unauthorised persons are at risk of injury.  
**Working with unauthorised persons:**

- All work must be suspended for as long as unauthorised persons are present in hazardous or working areas.
- If in doubt as to whether a person is authorised to be in hazardous and operating area, approach said person and lead them out of this area.
- General information: Keep unauthorised persons away!

## 2.5 Personal protection equipment (PPE)

 **DANGER**  
 Personal protective equipment, hereinafter referred to as PPE, is used to protect personnel. It is imperative to pay attention to the PPE described in the product data sheet (safety data sheet) for the metered medium.



### Chemical resistant protective gloves

Chemical-resistant protective gloves are used to protect the hands against aggressive chemicals.



### Protective eyewear

Protective eyewear protects the eyes against flying parts and liquid splashes.



### Protective gloves

Protective gloves are used to protect the hands against friction, abrasions, cuts or deeper injuries as well as when touching hot surfaces.




### Safety shoes


Safety shoes protect feet against crushing, falling parts, sliding on slippery surfaces and against aggressive chemicals.

## 2.6 General information about risks

### Unauthorised access

 **DANGER**  
**Unauthorised access**  
 The owner must ensure that unauthorised personnel are prevented from accessing the operating area.

### Hazard arising from automatic start-up

 **DANGER**  
 Automatic start-up poses a hazard in areas marked with the symbol opposite. An automatic start-up can be initiated as soon as the power supply is connected with no need to press a switch/button beforehand.

**Risk of slipping**



**DANGER**

Risks of slipping are to be identified using the adjacent symbol.  
Spilled chemicals are a slipping hazard in wet conditions.



**WARNING**

**Risk of slipping due to leaking liquids in the operation and provisioning area!**

Depending on the floor conditions, accidental spillages can cause a significant risk of accidents due to slipping on the wet surface.

**To avoid accidents caused by slipping:**

- Wear non-slip, chemically resistant shoes
- Place the product container in a suitable sump
- When changing containers, ensure that suction tubes/ suction lances are quickly removed from the container and placed in a suitable collection tray, as they could leak or drip.



**ENVIRONMENT**

Leaked, spilled metering media must be cleaned and disposed of correctly, according to the instructions on the safety data sheet. It is essential to ensure that the required personal protective equipment (PPE) is used.

**Risk of fire**



**DANGER**

**Risk of fire**

If there is a risk of fire, it is imperative to use the designated extinguishing agent and to implement suitable safety measures to tackle the fire.  
It is also imperative here to comply with the safety data sheet for the chemicals you use to tackle the fire!

**Chemical hazards (metering medium/active substance)**



**WARNING**

**Burns caused by harmful chemicals**

Leaks on the component can allow corrosive chemicals to escape and cause serious injury.

- Read the enclosed safety data sheet carefully before using chemicals.
- The safety regulations and the required protective clothing for working with chemicals must be complied with.
- Safety devices such as showers and eye flushing must be accessible and checked regularly to ensure that they are fully functional.
- Ensure adequate ventilation and extraction.
- Avoid skin and eye contact.
- Check the component regularly for tightness.
- Do not put the component into operation if leaks occur.
- If leaks are identified, trigger the emergency stop function immediately.
- Do not operate the component again until the leaks have been repaired.



**DANGER**

**Spilled chemicals can pose a biological hazard.**

Be careful not to spill chemicals or allow them to leak; otherwise, a biological hazard cannot be ruled out. Make sure that suitable binding agents are provided at the filling point according to the safety data sheet for the metering chemicals.



**DANGER**

**Risk of injury to the skin and eyes caused by the chemical used (metering medium).**

- Read the safety data sheet for the metering medium before using it.
- The safety regulations and the required protective clothing when working with chemicals must be complied with.
- Attention must be paid to the information included on the product data sheet of the dosing medium used.



**DANGER**

Hands must be washed before breaks and at the end of the working day. Information about the usual precautions when handling chemicals and about the use of PPE can be found on the relevant safety data sheet for the chemical being used and must be complied with.



**ENVIRONMENT**

**Metering medium that leaks or spills may be harmful to the environment.**

Leaks or spills of a metering medium must be cleaned up and disposed of correctly in accordance with the instructions on the safety data sheet.

It is imperative to use the specified PPE.

**Preventive action:**

Place product containers in a tray to collect leaking fluids without harming the environment.

**2.7 Metering media**



**CAUTION**

**Use of metering media:**

- The component may be used only with products validated by Ecolab.  
**The use of unvalidated products will void the warranty!**
- The metering media are procured by the operator.
- The owner will bear sole responsibility for correct handling and the associated risks.
- The hazard warnings and disposal instructions are provided by the operator.
- Wear suitable protective clothing (see safety data sheet).
- All safety regulations must be followed and the information contained in the safety data sheet/product data sheet must be observed.

**WARNING****Injury from uncontrolled chemical spills**

Uncontrolled chemical spills can cause serious injuries.

- **Read the enclosed safety data sheet carefully before using the chemical product.**
- Obey the safety regulations and wear the required protective clothing when working with chemicals.
- When working with chemicals, always adhere to the safety instructions and use the personal protective equipment (PPE) specified in the safety datasheet for the chemical products.
- Safety units such as showers and eye baths must be accessible and checked regularly to ensure that they are fully functional.
- Make sure that there is sufficient ventilation.
- Avoid skin and eye contact.
- Check component the regularly for tightness.
- Do not use the component in case of leakages.
- If leaks are detected, immediately activate the emergency stop function.

**If there is an uncontrolled chemical leak, your own safety and that of all employees in the vicinity must come first!**

**What to do:**

- Get out of the danger area as quickly as possible.
- Immediately ask employees to leave the danger area.
- Perform an emergency shutdown.
- Cordon off and secure the danger area (LoTo method).
- Have qualified personnel with appropriate training and using the prescribed PPE eliminate the cause of chemical leak.
- Only operate the component again after the leaks have been repaired.

**Safety when handling chemicals**



**NOTICE**

**⊘ Risk of accident and environmental damage when chemical residues are mixed together**

For operational reasons, residues remain in the chemical supply containers. These are completely normal and designed to be kept to a minimum.

To avoid accidents caused by burns to operating personnel and damage to the environment caused by leaking chemicals, no residual stocks may be mixed together.



**CAUTION**

**Danger due to mixing of different chemicals**

**There is a risk of chemical burns and possibly uncontrollable chemical reactions if leftover stocks are poured together.**

- Suction lances or suction pipes must be marked to indicate the chemical variant used, in order to avoid confusion here as well.
- **The container change is only to be carried out by trained personnel.** Furthermore, it is essential to ensure that only the same chemicals are exchanged.

**Different chemicals must never be mixed with each other.**

This is only permissible if this is precisely the purpose of the component!

It must be checked beforehand which chemicals may be mixed and in which ratio.

Mixing must only be carried out by trained specialist personnel.

**Safety instructions for chemical containers / chemical storage**

- The operator is responsible for the correct installation of the chemical types and this is to be defined in consultation with the chemical supplier.  
**Incompatible chemical types must be separated from each other to prevent mixing in the event of leakage.**
- Incompatible chemicals must be positioned and stored on separate collection trays so that they are on a flat and stable surface and cannot tip over.
- In addition, the containers are to be stored so far away from traffic and access routes that they cannot be accidentally damaged by operational activities .

**Safety data sheets** The safety data sheet is intended to be consulted by users and enables them to take any steps necessary to safeguard their health and safety at work.



**DANGER**

Safety data sheets are always provided together with the supplied chemicals. Before using the chemicals, the safety data sheets must be read and understood, and all requirements must be implemented on site. Ideally, they should be displayed close to the workplace or to the supply containers so that the appropriate measures can be taken quickly in the event of an accident. The operator must provide the necessary protective equipment (PPE), as well as the described emergency equipment (eye bottle, etc.). Persons entrusted with operating the equipment must be instructed accordingly and trained.

Tab. 1: Download of safety data sheets



The latest Ecolab safety data sheets are available online. To download them, go to the following link or scan the QR code. Then you can enter your required product and download the associated safety data sheet.

→ <https://www.ecolab.com/sds-search>

**2.8 Installation, maintenance and repair work**



**NOTICE**

**Material damage by using incorrect tools!**

Material damage may arise by using incorrect tools. **Use the correct tools.**



**DANGER**

**Damage and injuries may occur if installation, maintenance or repair work is carried out incorrectly.**

All installation, maintenance and repair work must only be performed by authorised and trained specialist personnel in accordance with the applicable local regulations. Safety regulations and prescribed protective clothing when handling chemicals should be followed. Attention must be paid to the information included on the product data sheet for the metering medium used. Prior to all work the feeding of the metering medium should be disconnected and the system cleaned.




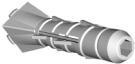


**NOTICE**

**Only original equipment spare parts may be used for maintenance and repairs.**

**3 Delivery**

Item	Item description	Article no.	EBS no.
	<b>SMARTPOWER™ Manual Dispenser RTU</b>	178041	92231111
or			
	<b>SMARTPOWER™ Presoak Dispenser RTU</b>	178040	92231112
or			
	<b>SMARTPOWER™ Pot&amp;Pan Soak Dispenser RTU</b>	178042	92231144
	1 x quick mounting plate	92232209	10033406

Item	Item description	Article no.	EBS no.
	SWIVEL OUTLET 150mm MSV	415505002	on request
<p><i>Fig. 1: Swivel spout</i></p>			
	4 x PAN PLATE SCREW 4.8X45 DIN7981 SS	413059064	10005489
	4 x WASHER 6.4X12X1.6 DIN125 SS	413500361	10000603
	4 x ALL-PURPOSE SPRING SPIRAL DOWEL TFS 6/35	417200041	10009539
	SMARTPOWER™ Safety instructions		

**4 Set-up / Functional description**

**i** The SMARTPOWER™ Manual Dispenser RTU, - Presoak Dispenser RTU and - Pot&Pan Soak Dispenser RTU are almost identical in their design. This operating manual uses the SMARTPOWER™ Pot&Pan Soak Dispenser RTU as an example. Differences in design are indicated where relevant in the operating instructions.

**Design SMARTPOWER™ RTU Dispenser**

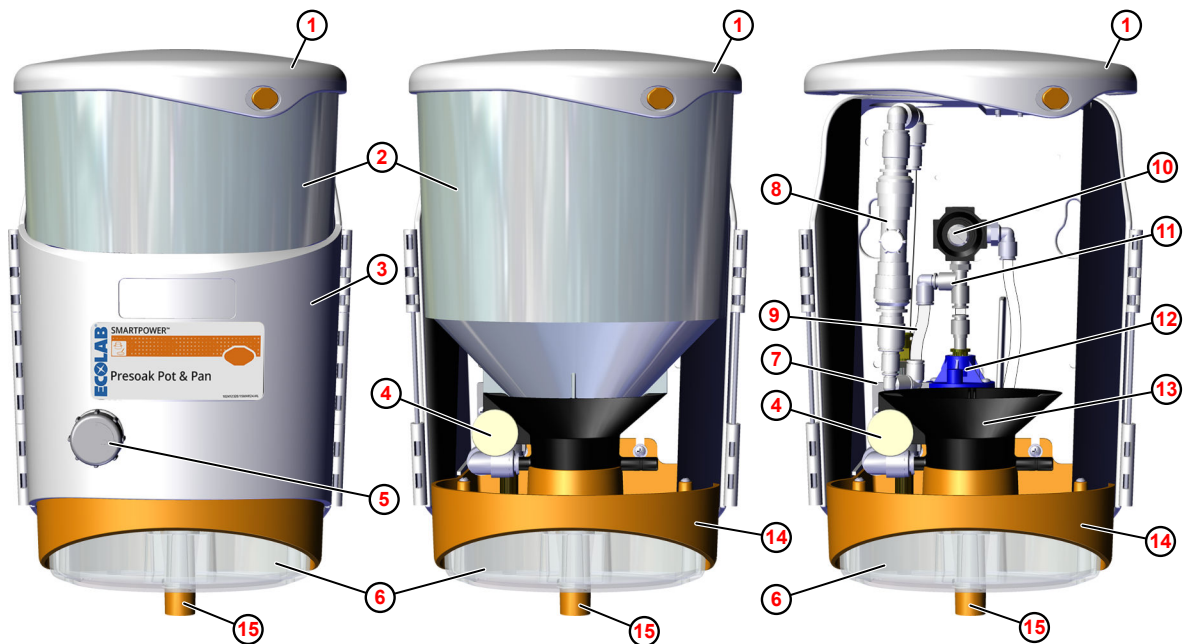


Fig. 2: Design

- ① Hinged cover
- ② Product cylinder with sieve insert
- ③ Front hatch
- ④ Button for fresh water valve
- ⑤ Release button
- ⑥ Bottom cover
- ⑦ Clean water valve
- ⑧ Double check valve
- ⑨ Clean water supply line
- ⑩ Pressure regulator
- ⑪ T-piece
- ⑫ Flow limiter
- ⑬ Water distributor
- ⑭ Base
- ⑮ Product outlet

**Function description**

The SMARTPOWER™ RTU Dispenser is an automatic dispenser for Ecolab's compressed capsule products (SMARTPOWER™). It essentially consists of a base (Fig. 2, ⑭) and a product cylinder with product feed (②) to accommodate the compressed detergent capsule.

Through a manually operated water valve (⑦), the clean water flows through the double check valve (⑧) to the T-piece (⑪). From here, some of the clean water is led through the pressure regulator (⑩) to a spray nozzle in the water distributor (⑬). This fresh water is sprayed against the detergent capsule from below and dissolves concentrate from the capsule.

The rest (bypass water) is led through the flow restrictor ⑫ to the water distributor ⑬, where it mixes with the detergent concentrate dissolved from the capsule. The ready-to-use solution is discharged into the sink through the product outlet ⑮ and a swivel outlet. No additional water needs to be added.

After opening the front flap ③ and removing the product cylinder ②, all parts are freely accessible for assembly, maintenance and repair.

## 5 Assembly and connection



### **DANGER**

**Damage and injuries may occur if installation, maintenance or repair work is carried out incorrectly.**

- All installation, maintenance and repair work may only be performed by authorised and trained experts in accordance with valid local regulations.
- The safety regulations and the required protective clothing when working with chemicals must be complied with. Attention must be paid to the information included on the product data sheet for the metering medium used.
- The metering medium supply must be isolated and the system cleaned prior to installation, maintenance and repair work.



### **CAUTION**

**Use personal protective equipment (PPE).**

Unused protective clothing can cause serious injuries. To avoid these dangers, the following points must be strictly adhered to!

- All personnel working on the component must use the required personal protective equipment in accordance with the locally applicable safety regulations.
- In addition, all safety pictograms on the component must be observed and used.
- All safety regulations and the prescribed protective clothing when handling chemicals must be observed.
- All instructions in the product data sheet of the dosing medium used must be observed!



### **NOTICE**

**Damage to property due to unsuitable tools**

Use of unsuitable tools can cause damage to the component.

- Use only the correct tools!
- Keep tools clean and in perfect condition; replace damaged tools!

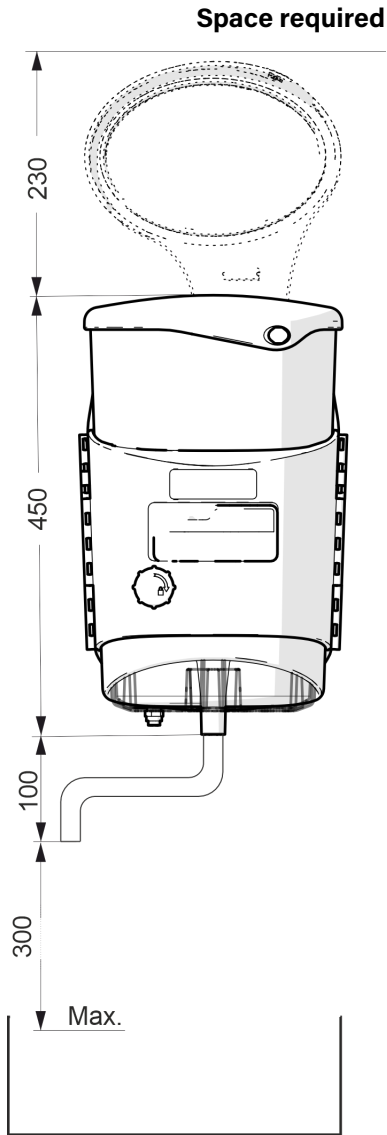
## 5.1 Installation

- Installation site** The SMARTPOWER™ RTU Dispenser is mounted immediately above a basin.
- When determining the installation site, make sure the specifications of the unit are adhered to. The unit must not be exposed to strong shocks or constant vibrations.
- Direct heat, especially direct sunlight, will heat up the unit inside the housing and can damage the unit. Make sure the unit is not exposed to direct sunlight.



*Before installation, make sure the supply lines are properly connected. → Chapter 10 'Technical data' on page 59.*

- Wall condition** When mounting the component on a wall, it must be ensured that the wall can support the weight on a permanent basis (see → Chapter 10 'Technical data' on page 59).
- Climatic conditions** The ambient temperature and relative humidity at the installation site must correspond to the technical data. → Chapter 10 'Technical data' on page 59
- Mounting position** The unit should be wall-mounted upright.



To be able to open the hinged cover and insert the product, leave a clearance of at least 23 cm directly above the SMARTPOWER™ RTU Dispenser. Leave a clearance of 10 cm below the SMARTPOWER™ RTU Dispenser so the ready-to-use solution can drain through the swivel outlet.



**Legal requirements for the United Kingdom of Great Britain and Northern Ireland**

*The spout of the swivel outlet must be at least 30 cm above the max. fill level of the container.*

Fig. 3: Space required

## Mounting the unit on the wall

### Personnel:

- Service personnel
- Specialist

### Protective equipment:

- Protective gloves
- Safety shoes
- Protective eyewear

### Tool:

- Drill
- Spirit level

### Requirements:

- ✓ The suitability of the wall for wall mounting has been checked.
- ✓ The necessary utility connections are available.
- ✓ The installation location is suitable for the operation of the unit.

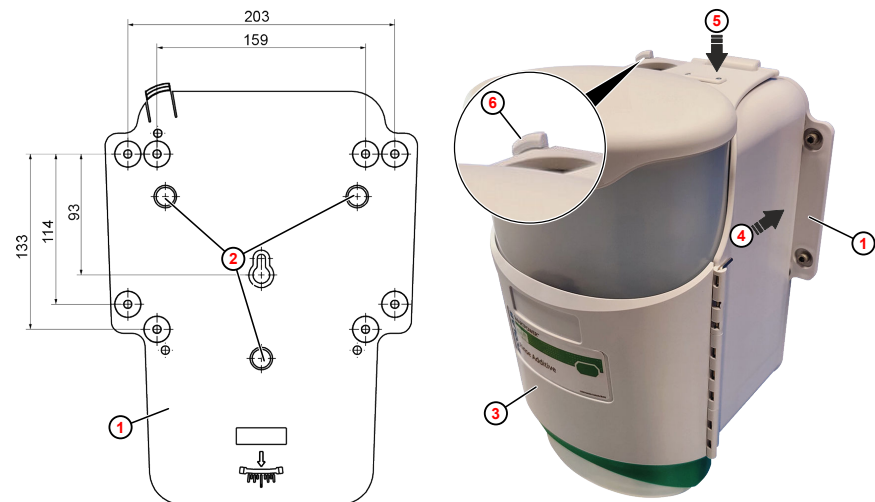


Fig. 4: Mounting the unit (example: rinse dispenser)

1. → Select the mounting location of the SMARTPOWER™ RTU Dispenser and mark holes in accordance with Fig. 4 .
2. → Drill mounting holes and insert Ø 6 mm dowels.
3. → Attach the mounting plate (1) using dowel screws.
4. → SMARTPOWER™ RTU Dispenser (3) Place on the retaining pins (2) (4).
5. → SMARTPOWER™ RTU Dispenser Press down (5) until the locking tab (6) clicks into place on the top of the unit.

## 5.2 Hydraulic installation

### Connecting the internal water supply

**Personnel:**

- Service personnel
- Qualified employee

**Protective equipment:**

- Protective gloves
- Safety shoes
- Protective eyewear

**Material:**

- 3/8" outer diameter plastic pipe
- T-piece shut-off valve 15mm x 15mm x 3/8"-pipe
- G3/8 adapter x 3/8" pipe

Connect the appliance to the hot water supply as described below.

**Requirements**

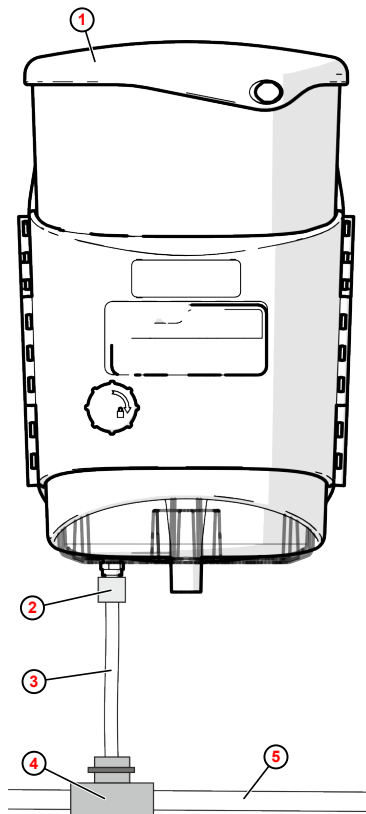
- ✓ The device is installed according to regulations.
- ✓ The clean water supply line is shut off.



**CAUTION**

**Damage to the unit if the permissible water pressure is exceeded**

- Always observe the max. permissible water pressures and temperatures (see → [Section 'Technical data' on page 59](#)).
- If necessary, fit a pressure reducer and/or mixing valve upstream.
- The connection for the water supply (feed line) must be located behind a shut-off cock (angle valve).



1. → Connect an adapter of 3/8-thread x 3/8-inch pipe (2) to the water supply connection of the SMARTPOWER™ RTU Dispenser (1).
2. → Disconnect the clean water supply (5) and fit a compatible shut-off valve T-piece (4).
3. → Guide the water connection pipe (3) to the SMARTPOWER™ RTU Dispenser and connect to the adapter.



*The components (2) - (4) are not supplied with the unit. Please procure them locally.*

Fig. 5: RTU UK water connection

**Install the swivel outlet**

**Personnel:**

- Service personnel
- Qualified employee

**Protective equipment:**

- Protective gloves
- Safety shoes
- Protective eyewear

**Material:**

- Petroleum jelly

**Requirements**

- ✓ The device is installed according to regulations.



**Legal requirements for the United Kingdom of Great Britain and Northern Ireland**

*The spout of the swivel outlet must be at least 30 cm above the max. fill level of the container.*



Fig. 6: Install the swivel outlet

1. → Remove the protective cap ② and grease the o-rings with petroleum jelly.
2. → Insert the swivel outlet ④ into the product outlet ① and tighten the union nuts ③ by hand.

3. →



**NOTICE**

Solid product residue in the cleaner solution can clog the aerator and cause the SMARTPOWER™ RTU Dispenser to overflow.

Unscrew the aerator ⑤ and discard.



## 6 Commissioning / operation

### 6.1 Initial start-up

**Personnel:**

- Service personnel

**Protective equipment:**

- Protective gloves
- Safety shoes
- Protective eyewear

**Requirements:**

✓ The SMARTPOWER™ RTU Dispenser is correctly mounted and installed. → [Chapter 5 'Assembly and connection' on page 31](#)

1. → Open the shut-off valve on the water supply line.
2. → Check that all hoses, connections and components are leak-proof.
3. → Im SMARTPOWER™ RTU Dispenser einen passenden SMARTPOWER™ Reinigerblock einsetzen.



*The labels on the product and the metering unit must match. The colour and shape of the unpacked cleaner block correspond to the product symbol on the hinged lid.*

4. → Close the drain at the sink.
5. → Push the dispensing button ①.



*If a larger quantity of cleaning solution is needed, the dispensing button can be locked in the pushed position by turning it to the right ②.*



Fig. 7: Removing the product

## 6.2 Removing the detergent solution

**Personnel:**

- Operator

**Protective equipment:**

- Protective eyewear
- Chemical resistant protective gloves

**Requirements:**

- Shut-off valve on the water inlet pipe is open.

1. → Close the sink drain.
2. → Press the release button ①.



Fig. 8: Remove product



*If more cleaning solution is required, the release button can be locked in place by pressing and turning to the right ②.*

### 6.3 Inserting the detergent capsule

Once the detergent capsule is used up, the concentration of the cleaning solution decreases and the pre-rinse or hand wash results deteriorate. In this case, use a new detergent capsule.

**Personnel:**

- Operator

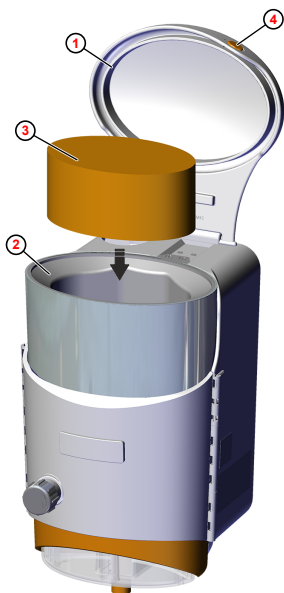
**Protective equipment:**

- Protective gloves
- Safety shoes
- Protective eyewear

**Material:**

- SMARTPOWER™ detergent capsule

**i** *Make sure the labels on the product and the dispenser match. The colour and shape of the detergent capsule correspond to the product symbol ④ on the hinged cover.*



1. ➔ Open the hinged cover ①.
2. ➔ Check the product cylinder ② for foreign bodies and dirt and clean if necessary.
3. ➔ Remove the detergent capsule ③ from the cellophane packaging.
4. ➔ Insert the detergent capsule into the product cylinder.
5. ➔ Close the hinged lid.

Fig. 9: Inserting the detergent capsule



## 7 Servicing and maintenance



**NOTICE**

**Material damage by using incorrect tools!**

Material damage may arise by using incorrect tools. **Use the correct tools.**



**DANGER**

If you believe that the unit can no longer be operated safely, you must decommission it immediately and secure it so that it cannot be used inadvertently.

**This applies:**

- if the unit shows visible signs of damage,
- if the unit no longer appears to be operational,
- after prolonged periods of storage under unfavourable conditions.

**The following instructions must always be observed:**

- Prior to carrying out any work on electric parts, switch off the power supply and secure the system against being switched back on again.
- Safety regulations and prescribed protective clothing when handling chemicals should be followed.
- Attention must be paid to the information included on the product data sheet of the metering medium used.
- The unit must only be operated with the supply and control voltage specified in the Technical Data section.



**CAUTION**

Changes or modifications are not permitted without prior, written permission from Ecolab Engineering GmbH and result in the forfeiting of any and all warranty entitlements. Original spare parts and accessories approved by the manufacturer heighten the degree of safety.

The use of other parts results in an exclusion of the warranty for any ensuing consequences.

**Please consider that the CE conformity expires in case of subsequent conversions**



### DANGER

**Damage and injuries may occur if installation, maintenance or repair work is carried out incorrectly.**

All installation, maintenance and repair work must only be performed by authorised and trained specialist personnel in accordance with the applicable local regulations. Safety regulations and prescribed protective clothing when handling chemicals should be followed. Attention must be paid to the information included on the product data sheet for the metering medium used. Prior to all work the feeding of the metering medium should be disconnected and the system cleaned.



### NOTICE

**Only original equipment spare parts may be used for maintenance and repairs.**



### CAUTION

Before maintenance work, the water supply must be stopped and the inlet pipe slacked by operating the dispenser. The safety regulations outlined must also be observed. → [Chapter 2 'Safety' on page 15](#)

The maintenance interval is one year maximum, although every six months is recommended.

## 7.1 Maintenance intervals

Interval	Maintenance work	Personnel
As required	<b>General status:</b> External dirt: Check the unit is clean and clean if necessary.  Damage: Check the unit damage and notify Ecolab Customer Service if necessary.	Specialist
	<b>Product cylinder:</b> Dirt: Clean the product cylinder if necessary.	Specialist
Every six months	<b>Water supply pipe and water-carrying components in the unit:</b> Leak tightness Replace seals if necessary or replace defective components.	Specialist  Service personnel
	<b>Swivel outlet:</b> blockage Tightness: clean and rinse the swivel outlet, replace if necessary.	Operator  Specialist
	<b>Spray nozzle:</b> Dirt: Descale and replace if necessary.	Specialist  Service personnel
Annually	Check the flow rate	Service personnel

7

## 7.2 Maintenance and servicing work

### 7.2.1 Clean the unit

**Personnel:**

- Operator
- Trained personnel

**Protective equipment:**

- Protective eyewear
- Chemical resistant protective gloves



**NOTICE**

**Damage to the unit caused by unsuitable cleaning agents!**

Unsuitable cleaning agents can damage the surfaces and internal components of the unit and impair its functionality.

- ▶ The unit should only be cleaned using a damp cloth.

1. Clean the unit with a damp cloth.
2. Check the unit for secure mounting and external damage.
3. If available, check the display for damage and pixel defects.
4. Check connecting lines and cables for damage, secure fit and correct routing.

### 7.2.2 Opening the front hatch

**Personnel:**

- Operator

**Protective equipment:**

- Protective eyewear
- Chemical resistant protective gloves

1. Pull the hinge pin ① upwards out of the unit.
2. Open the front hatch ②.

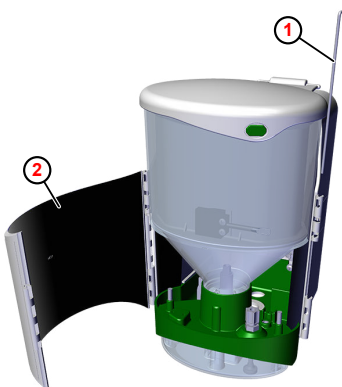


Fig. 10: Open the front flap  
(e.g. SMARTPOWER™ Rinse  
Dispenser)

**7.2.3 Remove the product cylinder**

**Personnel:**

- Operator

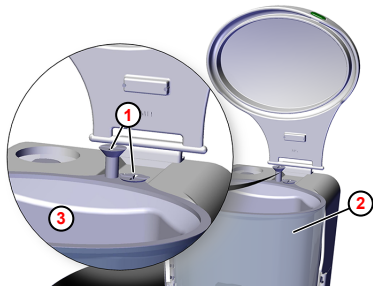
**Protective equipment:**

- Protective eyewear
- Chemical resistant protective gloves

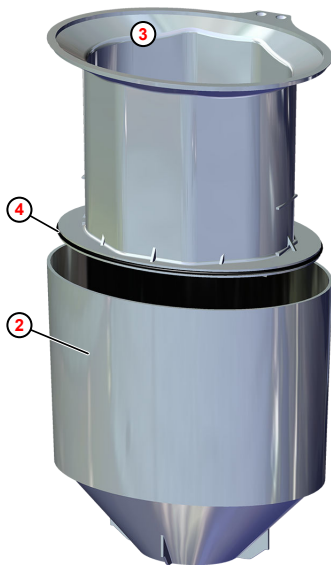
**Requirements:**

- ✓ Angle valve for water supply closed.
- ✓ Hinged cover is open.
- ✓ Front hatch open. → [Chapter 7.2.2 'Opening the front hatch' on page 46](#)

1. → If necessary, remove the SMARTPOWER™ detergent capsule.
2. → Unscrew the two countersunk screws ①.
3. → Remove the product cylinder ② with the product feed ③ facing upwards.



*Fig. 11: Loosen the product cylinder*



*Fig. 12: Remove the product feed*

4. → Pull the product feed ③ out of the product cylinder ②.
5. →
  - Clean the product feed using a damp cloth.
  - Rinse product cylinder with clean water.

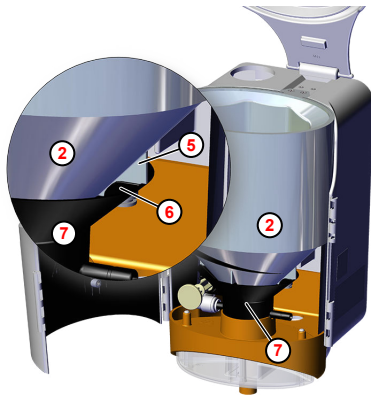


Fig. 13: Insert the product cylinder

6. → Pay particular attention to the following during installation:

- Clean the O-ring (4) and the O-ring groove thoroughly.
- Grease the O-rings with petroleum jelly, replace if necessary.



*When inserting the product cylinder (2), make sure the tabs (5) on the product cylinder are between the guides on the (6) water distributor (7).*

**7.2.4 Descaling the water distributor and spray nozzle**

**Personnel:**

- Service personnel

**Protective equipment:**

- Protective eyewear
- Chemical resistant protective gloves

**Material:**

- Ecolab Sidosil® Intensive Limescale Remover



**WARNING**

**Injury from uncontrolled chemical spills**

Uncontrolled chemical spills can cause serious injuries.

- **Read the enclosed safety data sheet carefully before using the chemical product.**
- Obey the safety regulations and wear the required protective clothing when working with chemicals.
- When working with chemicals, always adhere to the safety instructions and use the personal protective equipment (PPE) specified in the safety datasheet for the chemical products.
- Safety units such as showers and eye baths must be accessible and checked regularly to ensure that they are fully functional.
- Make sure that there is sufficient ventilation.
- Avoid skin and eye contact.
- Check component the regularly for tightness.
- Do not use the component in case of leakages.
- If leaks are detected, immediately activate the emergency stop function.

**If there is an uncontrolled chemical leak, your own safety and that of all employees in the vicinity must come first!**

**What to do:**

- Get out of the danger area as quickly as possible.
- Immediately ask employees to leave the danger area.
- Perform an emergency shutdown.
- Cordon off and secure the danger area (LoTo method).
- Have qualified personnel with appropriate training and using the prescribed PPE eliminate the cause of chemical leak.
- Only operate the component again after the leaks have been repaired.

**Requirements:**

- ✓ Angle valve for water supply closed.
- ✓ Front cover opened. → [Chapter 7.2.2 'Opening the front hatch' on page 46](#)
- ✓ Product cylinder removed. → [Chapter 7.2.3 'Remove the product cylinder' on page 47](#)

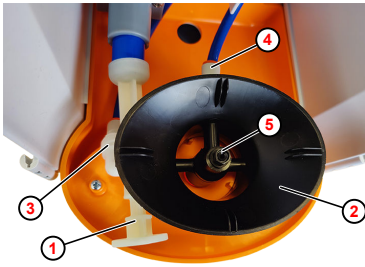


Fig. 14: Removing the water distributor and spray nozzle

1. → Pour some Sidosil® Intensive Rinse Aid into a cup or bowl.

*The fill level should be high enough to completely cover the spray nozzle.*

2. → Unthread and remove the button (1) from the tab on the water distributor (2).

3. → Disconnect the "Bypass water" (3) and "Spray nozzle" (4) connections from the water distributor and remove the water distributor.

4. → Unscrew the spray nozzle (5) from the water distributor.

5. → Immerse the spray nozzle in the lime scale remover and let it soak for two minutes.

6. → Rinse the spray nozzle thoroughly with clean water.

7. → Clean the water distributor (2) and descale it with lime scale remover if necessary.

8. → Clean the O-ring (6) and the corresponding groove, coat the O-ring with silicone grease.

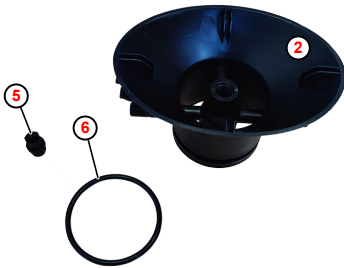


Fig. 15: Cleaning the water distributor

9. → Checking the spray nozzle:

- Check the outlet hole (7) of the spray nozzle for lime scale and soiling
- Check the underside of the swirl insert (8) for soiling and damage



Fig. 16: RTU spray nozzle cleaning\_30

*Replace the spray nozzle if necessary.*

**7.2.5 Remove the double check valve**

**Personnel:**

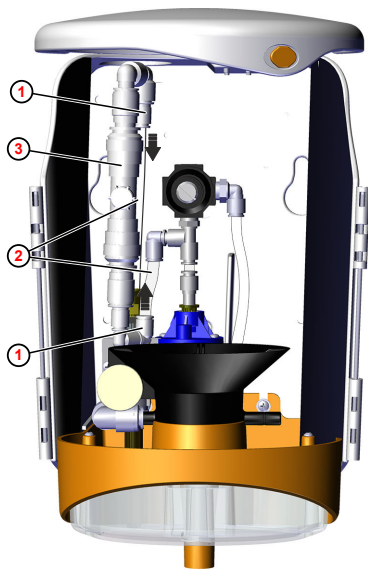
- Service personnel

**Protective equipment:**

- Protective eyewear
- Chemical resistant protective gloves

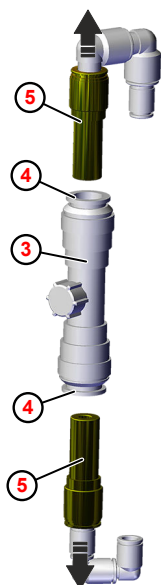
**Requirements:**

- ▶ Angle valve for water supply closed.
- ▶ Front hatch open. → *Chapter 7.2.2 'Opening the front hatch' on page 46*
- ▶ Product cylinder is removed. → *Chapter 7.2.3 'Remove the product cylinder' on page 47*



*Fig. 17: Remove the double check valve*

1. → Press in the retaining rings on the plug couplings ① and pull off the fresh water pipes ② in the direction of the arrow.
2. → Remove the double check valve ③ with its connecting parts from the unit.



*Fig. 18: Double check valve – remove connecting parts*

3. → Press the retaining rings onto the plug-in couplings ④ and remove the adapter with its connecting parts ⑤ in the direction of the arrow.
4. → Pay particular attention to the following during installation:
  - When installing the double check valve ③, observe the flow direction (from top to bottom).
  - Push the clean water pipes into the plug-in couplings until you hear a click

### 7.2.6 Remove the clean water valve

**Personnel:**

- Service personnel

**Protective equipment:**

- Protective eyewear
- Chemical resistant protective gloves

**Requirements:**

- ✓ Angle valve for water supply closed.
- ✓ Front hatch open. → [Chapter 7.2.2 'Opening the front hatch' on page 46](#)
- ✓ Product cylinder is removed. → [Chapter 7.2.3 'Remove the product cylinder' on page 47](#)
- ✓ Double check valve is removed. → [Chapter 7.2.5 'Remove the double check valve' on page 51](#)
- ✓ Water distributor removed. → [Chapter 7.2.4 'Descaling the water distributor and spray nozzle' on page 49](#)

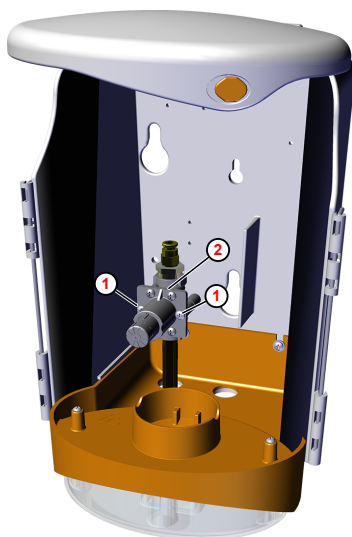


Fig. 19: Remove the clean water valve

1. → Unscrew the water pipe at the water valve inlet.
2. → Remove the screws ①.
3. → Remove the fresh water valve ② from the device.
4. → Pay particular attention to the following during installation:
  - Click the water pipes all the way into the plug-in couplings.

**7.2.7 Remove the flow regulator and flow limiter**

**Personnel:**

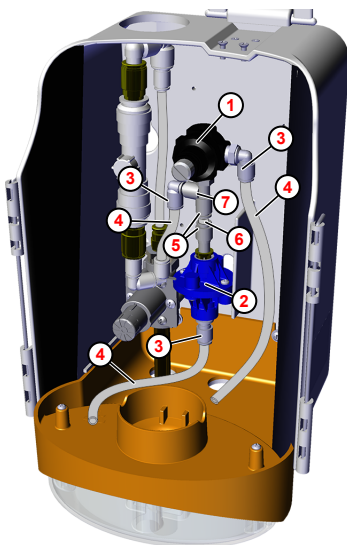
- Service personnel

**Protective equipment:**

- Protective eyewear
- Chemical resistant protective gloves

**Requirements:**

- ✓ Angle valve for water supply closed.
- ✓ Front hatch open. → [Chapter 7.2.2 'Opening the front hatch' on page 46](#)
- ✓ Product cylinder is removed. → [Chapter 7.2.3 'Remove the product cylinder' on page 47](#)
- ✓ Water distributor removed. → [Chapter 7.2.4 'Descaling the water distributor and spray nozzle' on page 49](#)



*Fig. 20: Remove the flow regulator and flow limiter*

1. → Press the retaining rings onto the plug-in couplings (3) and disconnect the clean water pipe (4).
2. → Remove the flow regulator (1) and flow limiter (2) together.
3. → If necessary, press in the retaining rings on the plug couplings (5) and pull off the fresh water pipe (6).
  - ➔ The flow regulator and flow limiter are separated from each other.
4. → If necessary, unscrew the T-piece (7) from the flow regulator.
5. → Pay particular attention to the following during installation:
  - Push the clean water pipes into the plug-in couplings until you hear a click.
  - If the flow regulator is replaced, have Ecolab Customer Service adjust the flow rate of the unit. → ['Manufacturer' on page 13](#)

### 7.2.8 Checking the flow rate

**Personnel:**

- Service personnel

**Protective equipment:**

- Protective eyewear
- Chemical resistant protective gloves

**Requirements:**

- ✓ Front cover opened. → [Chapter 7.2.2 'Opening the front hatch' on page 46](#)
- ✓ Product cylinder removed. → [Chapter 7.2.3 'Remove the product cylinder' on page 47](#)
- ✓ The water pressure of the fresh water supply is 3 bar ± 0.5 bar
- 1.** → Cover the nozzle with a suitable container so that no water splashes out of the water distributor.
- 2.** → Guide the product drain pipe into a suitable container with volume markings.
- 3.** → Press and hold the dispensing button for one minute.
- 4.** → Check the amount of water removed:
  - SMARTPOWER™ Manual Dispenser RTU: 7.5 l/min ±1.5 l/min
  - SMARTPOWER™ Presoak Dispenser RTU: 3 l/min ±1.5 l/min
  - SMARTPOWER™ Pot&Pan Soak Dispenser RTU: 3 l/min ±1.5 l/min
- 5.** → If necessary, have the flow rate of the device adjusted by Ecolab customer service. → ['Manufacturer' on page 13](#)

## 8 Operational malfunctions and troubleshooting

Fault description	Cause	Remedy	Personnel
Dispenser does not work when the dispensing button is pressed.	Angle valve of the water supply closed.	Open the angle valve.	Operator
	Pushbutton pin has come out.	Attach the push button rod to the fresh water valve and thread it into the guide on the water distributor.	Operator
	Spray nozzle blocked.	Clean and descale the spray nozzle.	Service personnel
	Clean water valve is faulty.	Replace the clean water valve.	Service personnel
	Water pressure of the clean water supply is too low	Check and, if necessary, correct the water pressure of the building's water supply.	Service personnel
Dispenser is working, but no product is dispensed (no foam).	No product inside or product used up.	Insert product.	Operator
	Spray nozzle is clogged	Clean and descale the spray nozzle.	Service personnel
The dispenser dispenses product even though the dispensing button is not pressed (it does not switch off).	Water valve is dirty	Clean or replace the water valve.	Service personnel
	Water pressure of the clean water supply is too high	Check and, if necessary, correct the water pressure of the building's water supply.	Service personnel
Product concentration too high or too low.	Clean water supply pressure too high or too low.	Check and, if necessary, correct the water pressure of the building's water supply.	Service personnel
	Clean water temperature too high or too low.	Check the water pressure of the clean water supply, adjust if necessary.	Service personnel
	Spray nozzle clogged or uneven spray.	Clean and descale the spray nozzle.	Service personnel
	Product capsule dissolves unevenly.	Check the spray nozzle for blockages.	Service personnel
Base section or equipment sump is overflowing.	Water pressure of the clean water supply is too high	Check and, if necessary, correct the water pressure of the building's water supply.	Service personnel
	Product outlet or swivel outlet is blocked	Clean and check the product outlet and swivel outlet.	Operator



## 9 Spare parts

**Spare parts list for download:** Wearing parts, spare parts and accessories are listed in a separate spare parts list.



*The spare parts list is always available for download in its latest version.*

*To download the parts list on a PC, tablet or smartphone, use the link below or scan the QR code.*



### **SMARTPOWER™ Spare parts list**

➔ <http://www.ecolab-engineering.de/fileadmin/download/bedienungsanleitungen/institutional/SMARTPOWER-spare-parts.pdf>



## 10 Technical data

In this chapter you will find the technical data of the SMARTPOWER™ RTU Dispenser.

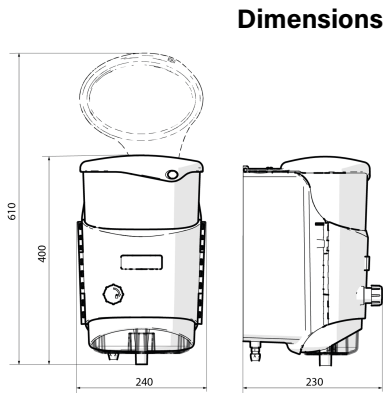


Fig. 21: Dimensions

Data	Value	Unit
Height (cover closed)	400	mm
Height (cover open)	610	mm
Width	240	mm
Depth	230	mm
Package size LxWxH	400x300x300	mm
Weight (unit without rinse aid capsule)	3,2	kg
Weight (including accessories and packaging)	5,4	kg

### General data

Data	Value	Unit
Protection degree	IP2X	
Equipment classification (degree of contamination)	PD2	
Water inlet connection:	3/8 thread	
Water pressure, static (max.)	6 (0,6)	bar (MPa)
Water pressure, dynamic (min.) (with water temperature at > 5° C)	1,8 (0,18)	bar (MPa)
Water pressure, dynamic (min.) (with water temperature at > 15° C)	1,5 (0,15)	bar (MPa)
Water temperature (max.)	60	°C
Water quality: Potable water (min.)	3	°d

### Flow rate

Data	Value	Unit
SMARTPOWER™ Manual Dispenser RTU	450 ± 100	l/h
SMARTPOWER™ Presoak Dispenser RTU	180 ± 100	l/h
SMARTPOWER™ Pot&Pan Soak Dispenser RTU	180 ± 100	l/h


**Environmental load**

Data	Value	Unit
Noise pollution	< 70	dB(A)

**Ambient conditions**

Data	Value	Unit
Ambient temperature	5 - 40	°C
Relative humidity (non-condensing) (up to 31°C, linear reduction to 50% at 40°C)	80	%
Maximum operating height	2000	m
Approved area of use	Damp area	

**Nameplate** The nameplate contains the key technical information about the SMARTPOWER™ RTU Dispenser.

 *You will need the information on the nameplate whenever you contact Ecolab Customer Services.*

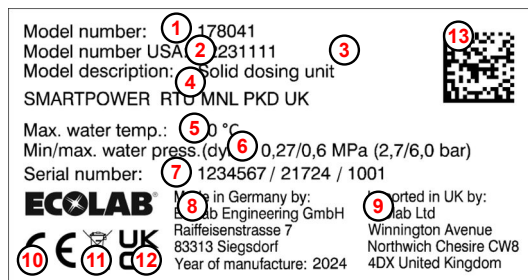


Fig. 22: Nameplate (example: SMARTPOWER™ Manual Dispenser RTU)

- ① Part number
- ② US part number
- ③ EBS number
- ④ Unit name
- ⑤ Max. water temperature
- ⑥ Min/max. Water pressure
- ⑦ Production code consisting of  
 production order number (six digits) /  
 production code with weekday (single digit, Monday = 1, Friday = 5),  
 calendar week (two-digit), production year (two-digit) /  
 number of pieces per production order (consecutive number starting  
 with 1001)
- ⑧ Manufacturer address
- ⑨ Importer in UK
- ⑩ Note on CE conformity
- ⑪ Disposal regulation
- ⑫ Note on CE UKCA conformity
- ⑬ Data matrix code containing the following:  
 part number,  
 production code

## 11 Decommissioning, dismantling and disposal



**NOTICE**

The following dismantling description is the recommended method. However, in practice, the different conditions and physical circumstances determine the dismantling process.



**CAUTION**

When working on parts that come into contact with hazardous products, the prescribed protective clothing (safety goggles, protective gloves, and, if necessary, an apron) must be worn due to the risk of chemical burns. When working on the electrical connection of a metering device (e.g. EcoPlus PDRX), all applicable international, national and local safety regulations must be observed. Before working on the voltage connection, the corresponding voltage connection must be de-energised.

**Recommended approach**

1. ➤ Disconnect the unit from the power supply (if necessary).
2. ➤ Remove the cleaning capsule.
3. ➤ Remove chemical residues from the funnel, e.g. by cleaning in GGSM.
4. ➤ Close the hinged lid and run the unit with fresh water for a few minutes.
5. ➤ Close the water supply (via angle valve or similar) and remove the connection.
6. ➤ Disconnect the unit from the power supply.
7. ➤ Finally, completely empty the unit and remove any chemical residue from the inside.
8. ➤ Either dispose of the unit according to applicable national guidelines or pack it securely for shipping (cardboard box with cushioning material) and return it to the company commissioned by Ecolab for reprocessing.

## 11.1 Disposal and environmental protection

All components are to be disposed of in accordance with prevailing local environmental regulations. Dispose of them according to their condition, existing regulations and with due regard for current requirements and criteria.

### **Recycle the dismantled components:**

- Scrap all metals.
- Electrical waste and electronic components must be recycled.
- Recycle all plastic parts.
- Dispose of all other components in line with their material characteristics.
- Hand in batteries at communal collection points or dispose of them through a specialist.



### **ENVIRONMENT**

#### **Risk of environmental damage due to incorrect disposal!**

#### **Incorrect disposal can be a threat to the environment.**

- Electrical scrap, electronic components, lubricants and other operating fluids must be disposed of by approved waste disposal service providers.
- If in doubt, contact your local authority, or an approved waste disposal service provider for information on correct disposal.

Prior to disposal, all parts which are in contact with media must be decontaminated. Oils, solvents, detergents and contaminated cleaning tools (brushes, cloths, etc.) must be disposed of in compliance with local provisions, in accordance with the prevailing waste code and with due attention to the notes contained in the manufacturers' safety data sheets.

### **Reduction or avoidance of waste from reusable raw materials**



Do not dispose of components in household waste, but take them to the appropriate collection points for recycling. We would like to draw your attention to the Waste Electrical and Electronic Equipment Directive 2012/19/EU, the aim and purpose of which is to reduce or avoid waste from reusable raw materials. This directive calls on EU member states to increase the collection rate of electronic waste so that it can be recycled.

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## A Ecolab representatives and service partners

### Addresses outside Europa

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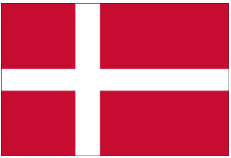
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	<p>Ecolab ApS</p>  <p>Høffdingsvej 36 2500 Valby ☎ (0045) 36 15 85 85 ☎ (0045) 36 15 85 48</p>		



## B EC Declaration of Conformity

De
En
Fr

**Konformitätserklärung / Declaration of Conformity / Déclaration de Conformité**

**ECOLAB®**

ECOLAB Engineering GmbH  
Postfach 1164  
D-83309 Siegsdorf

Wir erklären hiermit, dass das folgende Produkt  
We herewith declare that the following product  
Nous déclarons que le produit suivant

Beschreibung / description / description	SMARTPOWER MANUAL DISPENSER RTU SMARTPOWER PRESOAK DISPENSER RTU SMARTPOWER POT & PAN SOAK DISPENSER RTU
Modell / model / modèle	178021/178022/178023 / 178040/178041/178042
Typ / part no / type	10034948/10034947/10050810/92231112 /92231111 /92231144
Gültig ab / valid from / valable dès:	2024-05-01

auf das sich diese Erklärung bezieht, der / den folgenden Norm(en) oder normativen Dokument(en) entspricht:  
to which this declaration relates is in conformity with the following standard(s) or other normative document(s):  
auquel se réfère cette déclaration est conforme à la (aux) norme(s) ou autre(s) document(s) normatif(s)

EN ISO 12100:2010  
EN1717:2011

gemäß den Bestimmungen der Richtlinie(n):  
following the provisions of directive(s):  
conformément aux dispositions de(s) directive(s):

2006/42/EG

Bevollmächtigter für die Zusammenstellung der technischen Unterlagen: Authorised person for compiling the technical file: Personne autorisée pour constituer le dossier technique:	Ecolab Engineering GmbH Postfach 1164 D-83309 Siegsdorf
--	---

Ort und Datum der Ausstellung Place and date of issue Lieu et date	.....	.....
83313 Siegsdorf, 11.03.2024	M.Niederbichler Geschäftsführer Company Manager Directeur	D.Rodriguez Regulatory Affairs - Geräte Regulatory Affairs - Equipment Affaires Réglementaires - Matériel

Annex 1a to WI-EU-RDE-602 Rev. 4 / 2022-06-02

Fig. 23: CE Declaration for the SMARTPOWER™ RTU Dispenser





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Translation of the original operating instructions

MAN054128, 2, en\_GB  
MAN054128 Ver. 02-04.2026

15.04.2026