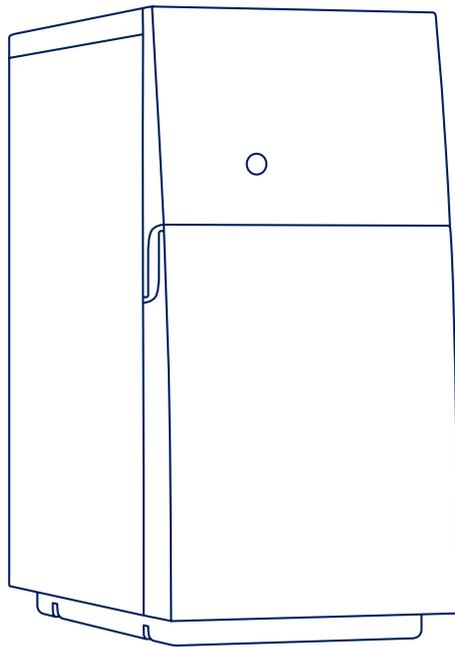




## REVERSE OSMOSIS



## HYDROLINE PURE RO-C

### Installation and Operation Manual

*(Original operating manual)*

EN

**Publisher**

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**Product disclaimer**

Installations and repairs carried out by non-authorized technicians or using non-genuine spare parts, and any technical alterations to the machine not approved by the manufacturer will invalidate the manufacturer's warranty and product liability.

HOBART reserves the right to make changes or improvements to its products without prior notice.

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# CONTENTS

|  |           |
|--|-----------|
| <b>INTRODUCTION</b>                    | <b>04</b> |
| About this manual                      | 04        |
| Environment information                | 04        |
| Disposal                               | 04        |
| Symbols                                | 04        |
| Safety instructions                    | 05        |
| Safety information                     | 05        |
| <b>PRODUCT OVERVIEW</b>                | <b>07</b> |
| Outside                                | 07        |
| Spareparts                             | 08        |
| Control panel                          | 08        |
| Data plate                             | 09        |
| Conveyor                               | 09        |
| Installation overview                  | 10        |
| Leakage protection                     | 11        |
| Low pressure protection / Restart      | 11        |
| Automatic flush                        | 11        |
| <b>INSTALLATION</b>                    | <b>12</b> |
| Unpack                                 | 12        |
| Position                               | 13        |
| Installation supply water connection   | 13        |
| Requirements for the supply water      | 13        |
| Install drain water connection         | 14        |
| Connect to electrical supply and flush | 15        |
| Connect to dishwasher                  | 16        |
| Do a check for leaks                   | 16        |
| <b>MAINTENANCE</b>                     | <b>17</b> |
| Each month                             | 17        |
| Each 6 months                          | 18        |
| Replace prefilter                      | 20        |
| Other                                  | 22        |
| <b>TECHNICAL DATA</b>                  | <b>28</b> |
| <b>TROUBLESHOOTING</b>                 | <b>29</b> |
| How to solve simple problems           | 29        |
| Product performance                    | 31        |

## INTRODUCTION

### About this manual

This manual contains complete user instructions for the Pro. It gives you the necessary instructions to safely install, operate, do maintenance and do troubleshooting on the device.

### Environment information



80% of the components and packaging have a label to help you recycle and discard it correctly. The RO-C is more efficient when it cleans water for longer periods.

### Disposal

At the end of the RO-C's life, disconnect the plug from the electrical supply and cut the cable at the point where it enters the appliance. Make sure that children do not play with the left-over cable. Contact your local authority for information about where the RO-C can be left, or contact your dealer.



Appliances bearing this symbol must be deposited at the designated local reception point for the disposal of electrical and electronic equipment. This product may not be disposed by using the normal household refuse collection processes.

## SYMBOLS

The following symbols can be found on the RO-C:

| Symbol | Description   | Symbol | Description   |
|--------|---|--------|---|
|        | The WQA Gold Seal proves that the RO-C has been independantly tested and certified against NSF/ANSI 58 and CSA Standard B483.1. It has also been tested and certified against NSF/ANSI 372. |        | The ETL Listed Mark is proof that the device has been independently tested and meets the applicable published standard. |

## Safety instructions

Before you install or operate the device, you must read the safety information. Obey the instructions in this manual to prevent injuries or damage to the equipment. This manual contains CAUTIONS and NOTES that are applicable for the safe operation of the device.

- 
-  A CAUTION identifies conditions that can cause injury, or damage to the equipment. Obey the instructions and do not continue until all conditions are accepted and engaged.
  -  A Note identifies important information for a trouble free and optimal use of the RO-C.
- 

## Safety information

- 
-  Install the RO-C in accordance with local regulations. If you are not sure, contact Hobart for aid.
  -  Only use the cleaned water when the lights “Purification level II and/or III” on the control panel are on.

This appliance can be used by children who are more than 8 years old. It can also be used by persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge, if they have been given supervision or instruction about the use of the appliance in a safe way and understand the hazards involved.  
Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
  -  Do not repair or modify parts of the RO-C. This can make it operate incorrectly, and lead to injury and damage not covered by warranty.

This is a reverse osmosis system. It contains a replaceable membrane that is very important for effective reduction of total dissolved solids (TDS). Replace this membrane regularly.
  -  Test the cleaned water periodically, at least one time every year, to make sure that the appliance performs correctly. If the water is not clean, tastes or smells bad, do not use it.
-

- 
-  Only approved Hobart staff can do servicing and repairs on the RO-C. Only use original replacement cartridges and parts from Hobart.

---

  -  The water to be cleaned must obey the requirements in "Requirements for the supply water" on page 13.

---

  -  Installation must comply with applicable local plumbing codes and regulations.

---

  - Connect the the appliance to an earthed electrical supply. Use a socket that is easy to access after installation. Only an approved electrician must do permanent wiring on the system.

 A safety switch must be installed on the system. Incorrect installation can lead to damage, or make the appliance dangerous to use.

---

  -  Do not use the power cord if there are visible signs of damage on it. If the power cord is damaged, a qualified electrician must replace it in order to prevent danger.

---

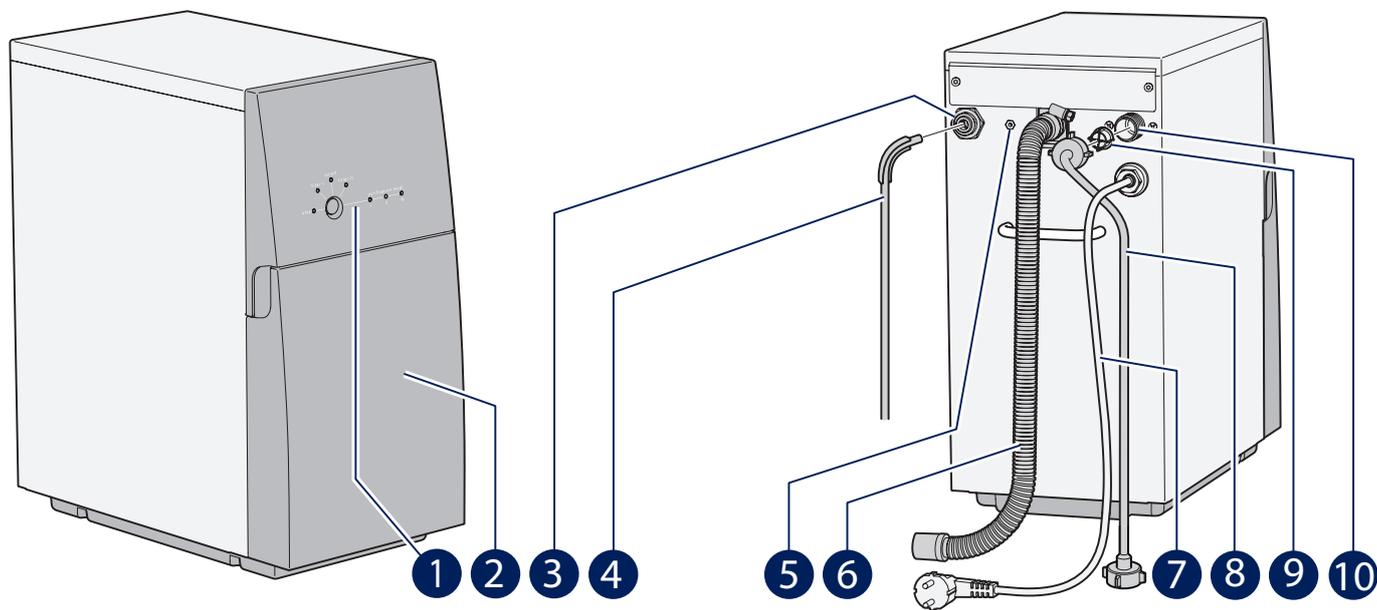
  -  Do not use without a filter. To do so can cause damage. When cleaned or put in storage, the filter can be removed.

---

  -  If the RO-C is disconnected from water and electricity for >5 days, store it as described in Complete User manual "Put into storage" on page 26.
-

# PRODUCT OVERVIEW

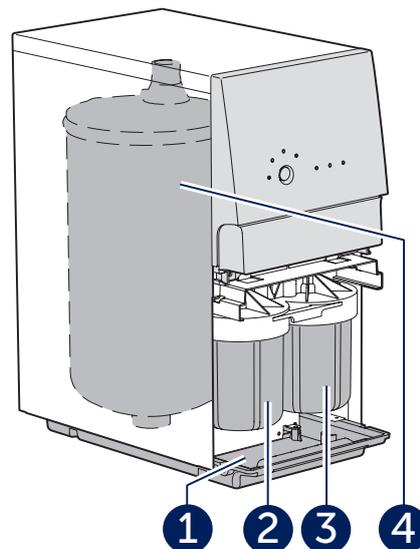
## Outside



| Item | Description            | Item | Description             |
|------|------------------------|------|-------------------------|
| 1    | Control panel          | 6    | Drain water hose        |
| 2    | Front cover            | 7    | Power cord              |
| 3    | Clean water connection | 8    | Infeed water hose       |
| 4    | Clean water tube       | 9    | Grid filter             |
| 5    | Not of relevance       | 10   | Supply water connection |

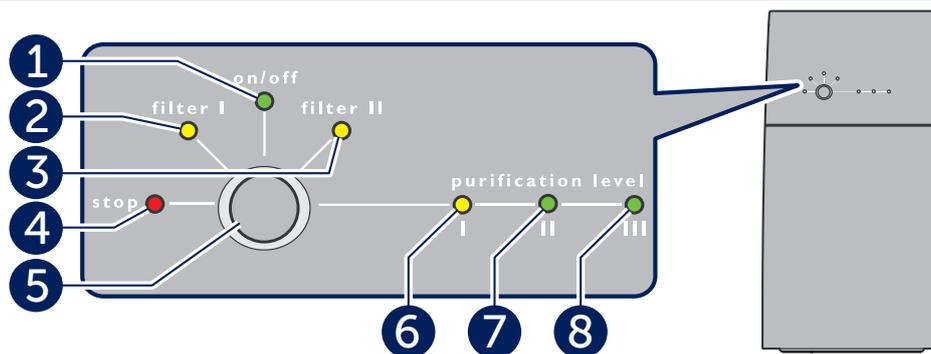
## Spare parts

| Item | Description                               | Art.-Nr.      |
|------|---|---------------|
| 1    | Base plate                                |               |
| 2    | Prefilter I                               | 01-294214-201 |
| 3    | Prefilter II                              | 01-294214-201 |
| 4    | Membrane service kit, type HF (High Flow) | 01-294214-104 |



## Control panel

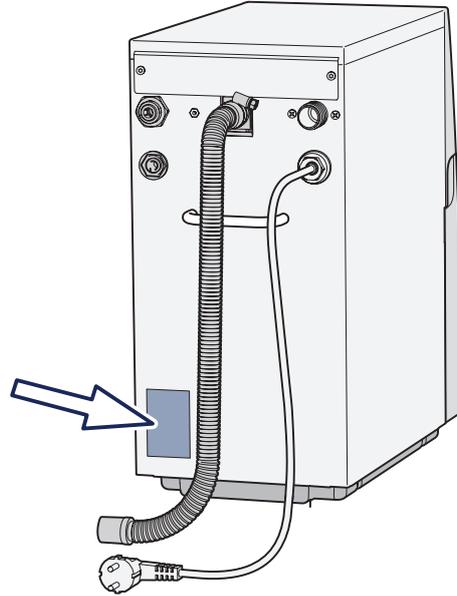
 For information about combinations of lights that flashes/are on, see "Troubleshooting" on page 29.



| Item | Light/button           | Description   |
|------|------------------------|---|
| 1    | on/off                 | On: <br>Off: <br>Flashes:  The RO-C is connected to power.<br>The RO-C is not connected to power.<br>The RO-C flushes. Flushing cannot be stopped. |
| 2    | filter I               | On:  The filter must be replaced. Replace both Carbon Block filters.   |
| 3    | filter II              | On:  The filter must be replaced. Replace both Carbon Block filters.   |
| 4    | stop                   | Flashes/On:  Something is wrong, see "Troubleshooting" on page 29.   |
| 5    | Hold down key          | Various functions   |
| 6    | purification level I   | On:  Purification level I-III indicates clean water purification level. Low level I to high level III.   |
| 7    | purification level II  | On:    |
| 8    | purification level III | On:    |

## Data plate

The data plate is located on the rear side of the RO-C and behind the front panel.



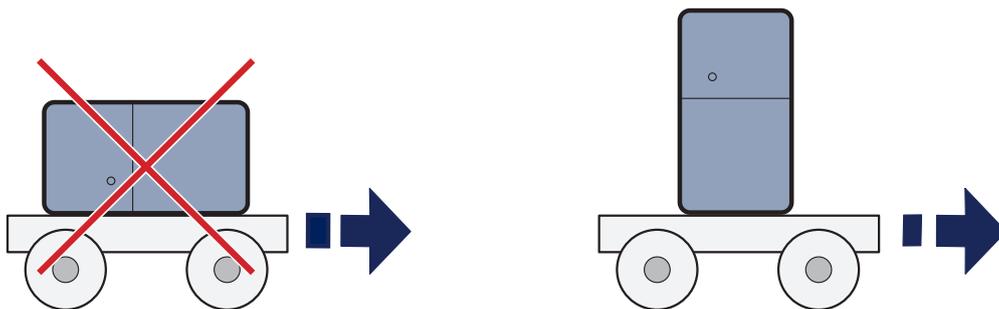
## Conveyor



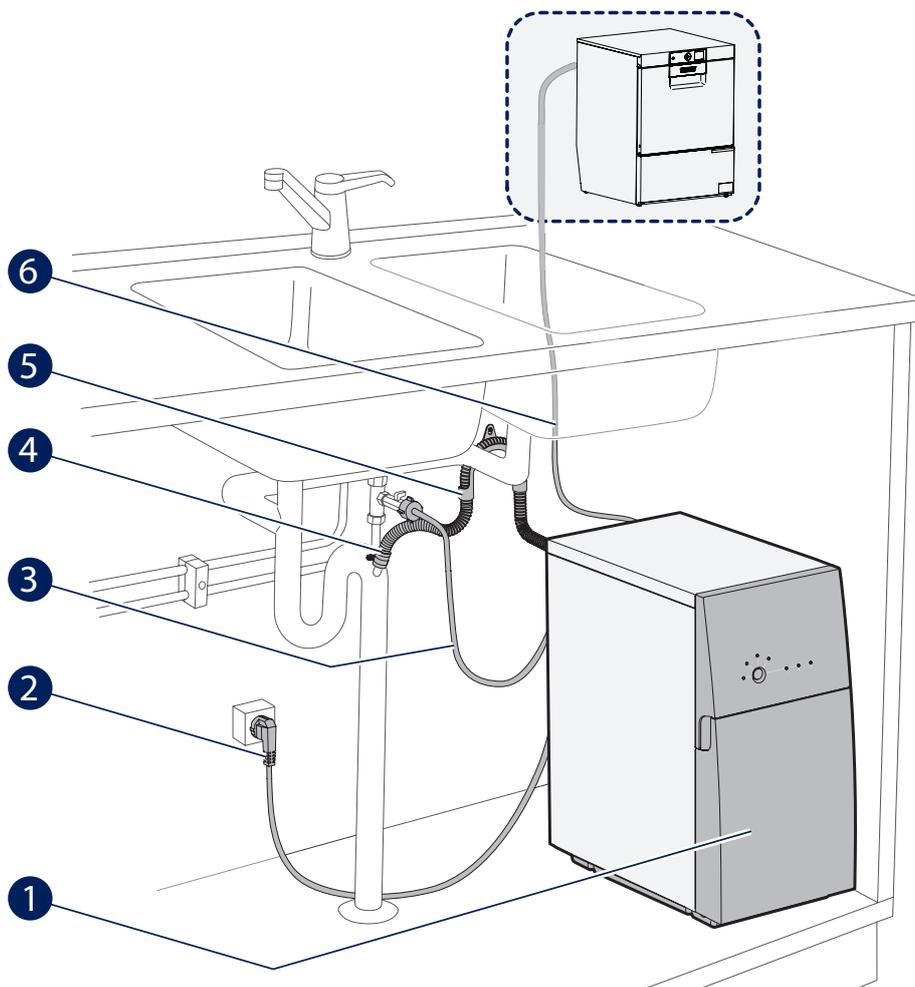
Always transport the RO-C upright.



Put the RO-C into storage if it will not be used for 4 months or more, or if it is to be disconnected from the water and electricity for >5 days, see "Put into storage" on page 26.



## Installation overview



| Item | Description       | Item | Description                                 |
|------|-------------------|------|---|
| 1    | RO-C              | 4    | Drain water hose, installed with an air-gap |
| 2    | Power cord        | 5    | Bracket for drain water hose                |
| 3    | Infeed water hose | 6    | Clean water tube                            |

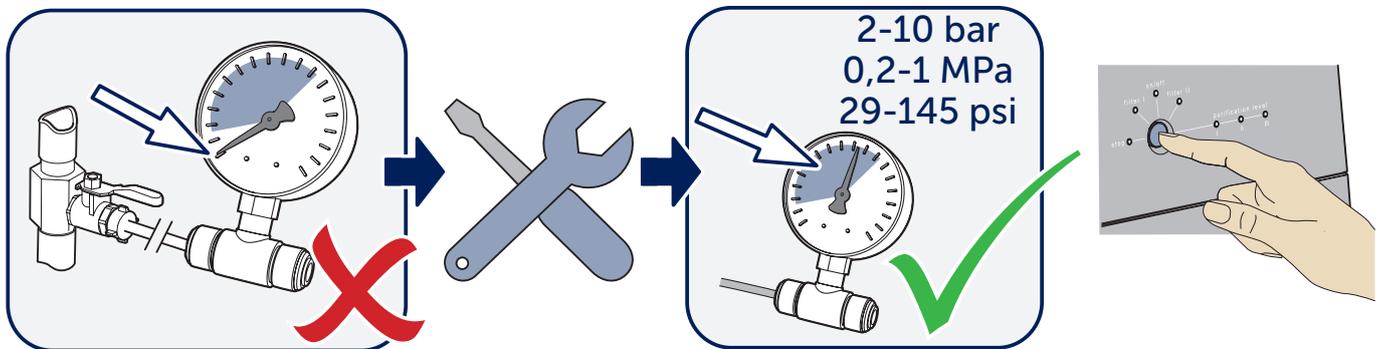
## Leakage protection

A sensor at the bottom of the RO-C senses water leaks. If there is a leak, the water supply is stopped. The RO-C cannot be started again until the leak has been repaired.

## Low pressure protection

 If the appliance stops because of low pressure, the cause of the low pressure must be removed. If not, the unit can be permanently damaged.

### Restart at low pressure



When the appliance has stopped because of a low pressure problem (supply water), water production can be started manually by pushing the button.

The unit starts automatically when it has stopped because of low pressure. It tries to start three times: after 3 minutes, after 20 minutes and after 4 hours. If the water pressure is not sufficiently high after three tries, it will stop.

## Automatic flush

Every time after drawing water, or every 15 minutes in each operating cycle automatic flushing takes place. The length of the flushing process varies between 5-120 seconds, depending on how long the previous drawing of water lasted.

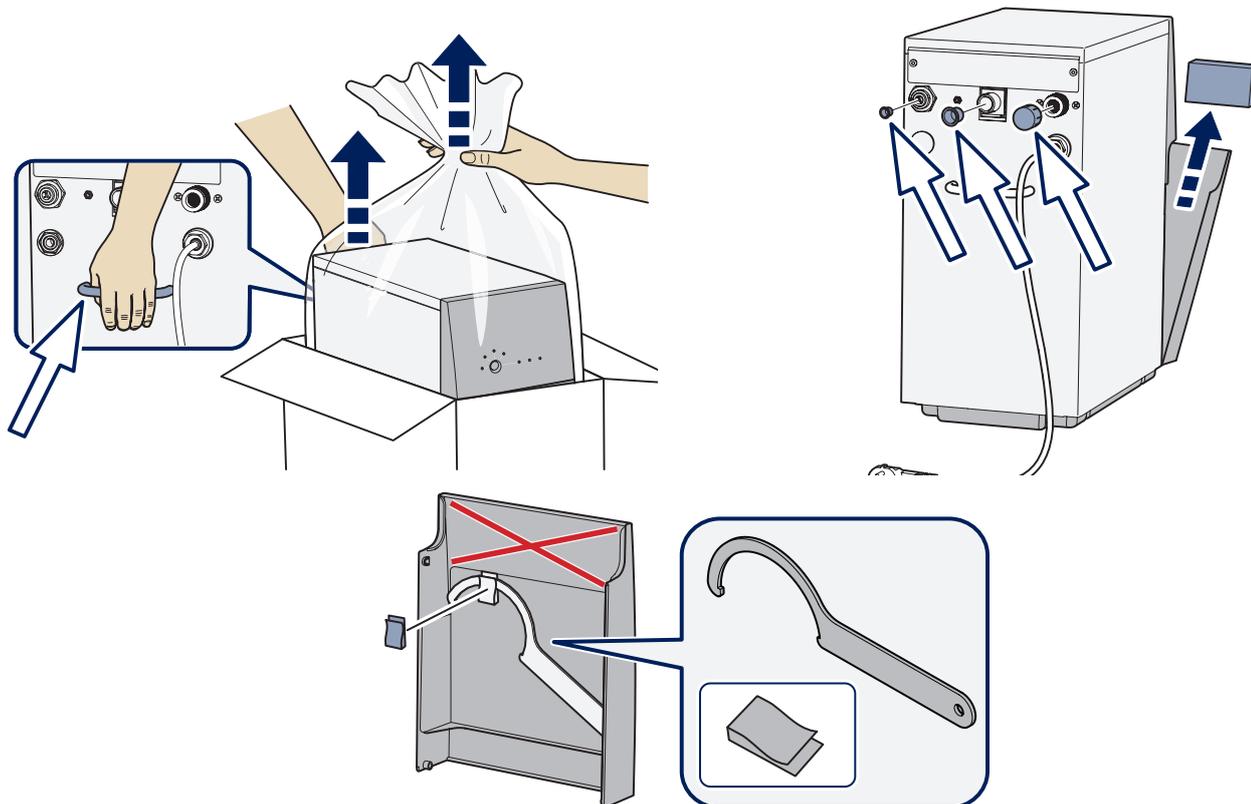
When the RO-C is connected to water and electricity, flushing is automatically performed every 12 hours.

## INSTALLATION

-  Install the RO-C in a vertical position on a horizontal surface.
-  Make sure that hose and cables can move freely when the RO-C is installed.
-  Plumbing must be done by an approved plumber. Installation must comply with applicable local plumbing codes and regulations.
-  The first time the appliance is connected to water and power, it does an automatic flush (cleaning procedure). This process takes 60 minutes and can not be interrupted.
-  Use the hose set that is supplied with the RO-C. Do not use used hose sets again.

### Unpack

-  **Warning!** Discard the packing material. It can cause injury to children if they play with it.
-  Make sure that the unit shows no signs of damage, and that no accessories are missing. Tell the Hobart dealer about missing parts, damage and other problems. Tell the transport company immediately if the unit is damaged during transport.



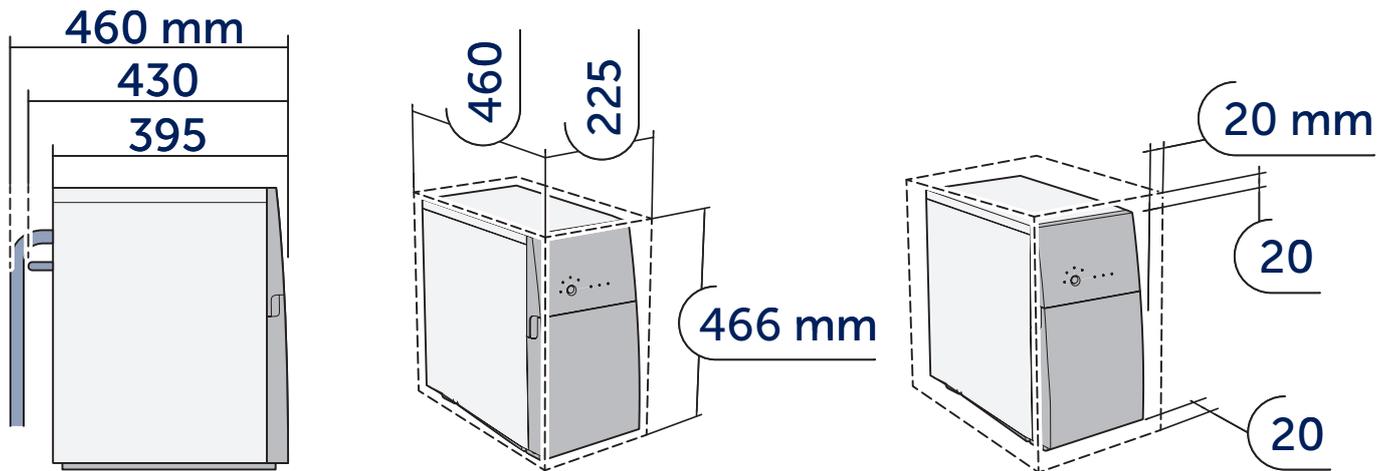
## Position



Put the unit in a vertical position on a horizontal surface.

Position the unit near the cold water supply, the drain and an earthed electrical supply.

- Make sure that it is easy to see the control panel.
- Make sure that the front cover can be opened to get access to the prefilters.
- Hoses and cables can go in all directions from the connection point. Make sure that nothing can crush them or cause damage to them.



## Installation of supply water connection



Only connect the RO-C to cold water supply.

## Requirements for the supply water



Do not use with water that is microbiologically unsafe or of unknown quality.



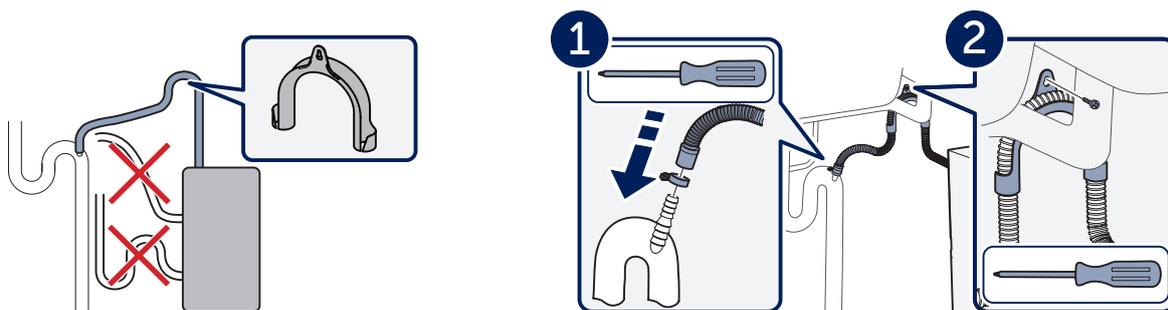
If the water quality changes greatly, contact Hobart for advice.

|   |                          |
|---|--------------------------|
| Temperature   | 2-35 °C                  |
| Flow pressure   | 2.5-10 bar<br>0.25-1 MPa |
| TDS (Total Dissolved Solids)                                  | < 1500 ppm               |
| Water flow  | > 10 l/min               |
| Conductivity<br>[ $\mu\text{S}/\text{cm}$ , 25 °C<br>(77 °F)] | < 2000                   |
| Hardness  | < 20 °dH                 |
| pH  | 4-10                     |
| Turbidity [FNU]   | < 0.5                    |
| Iron Fe(II)/Fe(III)   | <1.0 / <0.3 mg/l         |
| Manganese Mn  | <0.3 mg/l                |
| Chlorine Cl <sub>2</sub>                                      | <1.0 mg/l                |

## Install drain water connection

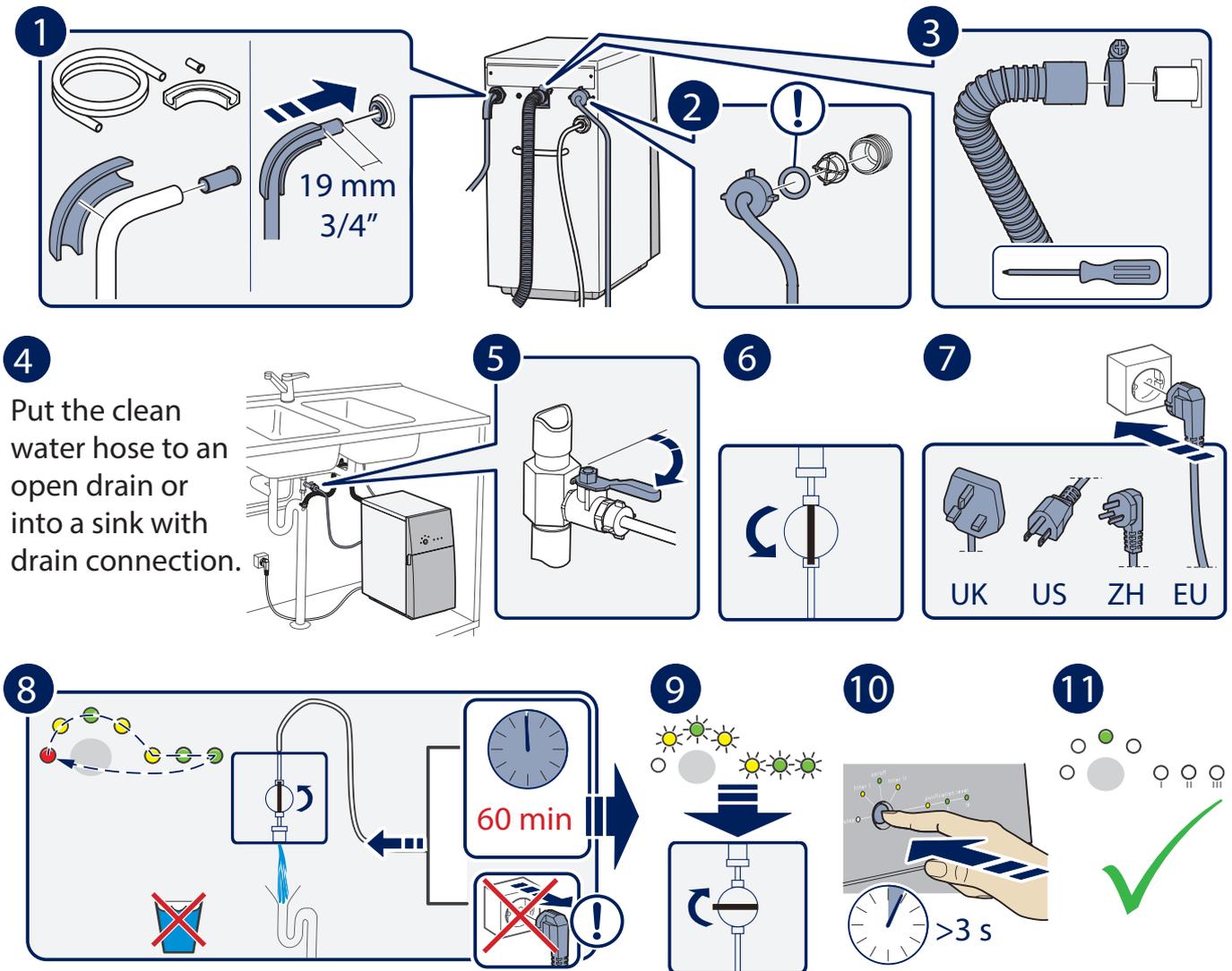
 Install the drain water hose with an air gap.

 The flushed water goes through the drain water hose to the drain water outlet. This hose can be a maximum of four meters long. The minimum internal diameter is 13 mm.



### Connect to electrical supply and flush

 Do not connect the clean water hose to the dishwasher before the unit has been flushed.

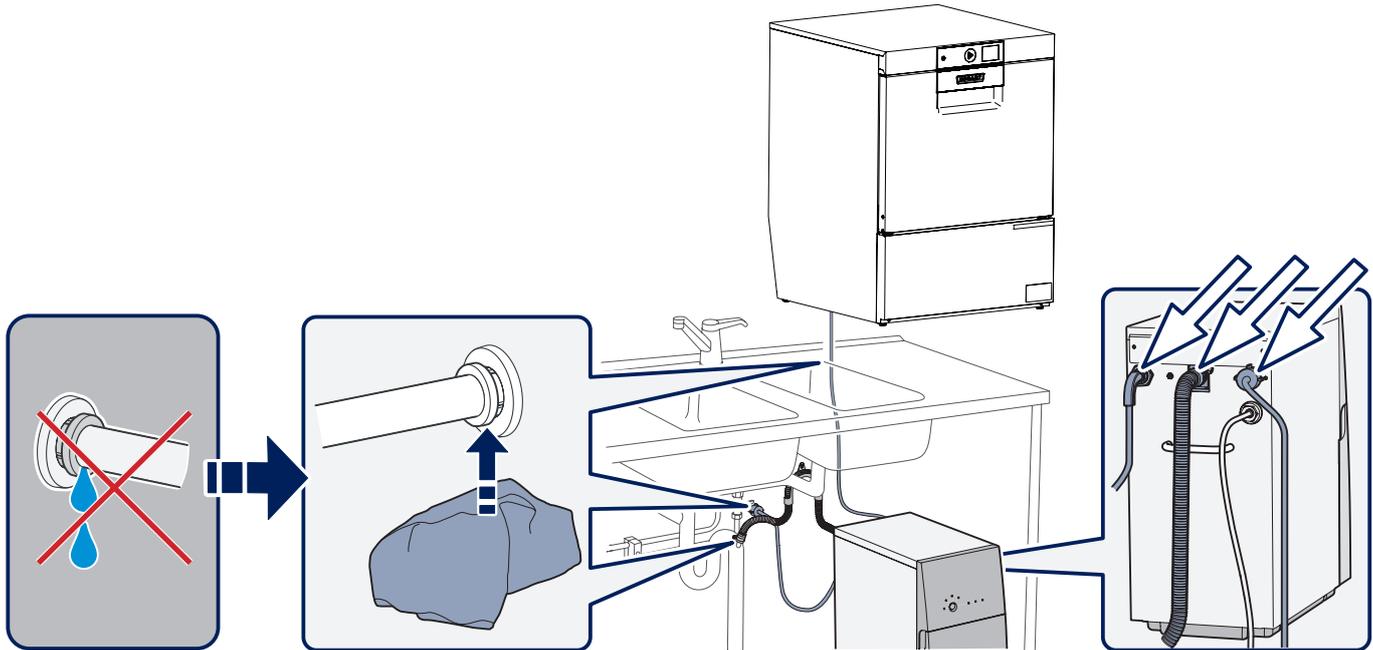


## Connect to dishwasher

Connect the clean water hose to the 3/4" connection of the hose of the dishwasher.

## Do a check for leaks

 The hose connections must be tight!



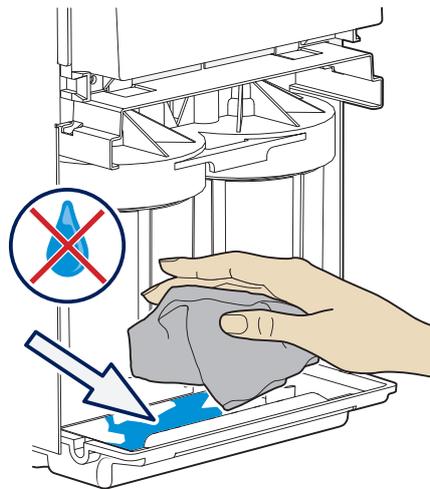
## MAINTENANCE

-  Regular maintenance is important for correct function and long term operation. Only educated and approved personnel can do the maintenance.
-  If the water quality changes greatly, contact Hobart for advice.
-  Do not drink the water when the RO-C flushes, or when you do maintenance with chemicals. It is not safe to use.
-  The water quality controls the maintenance frequency. If the supply water is of low quality, do maintenance more frequently.

### Each month

Do a check for leaks

Wipe off condensation from base plate



## Every 6 month

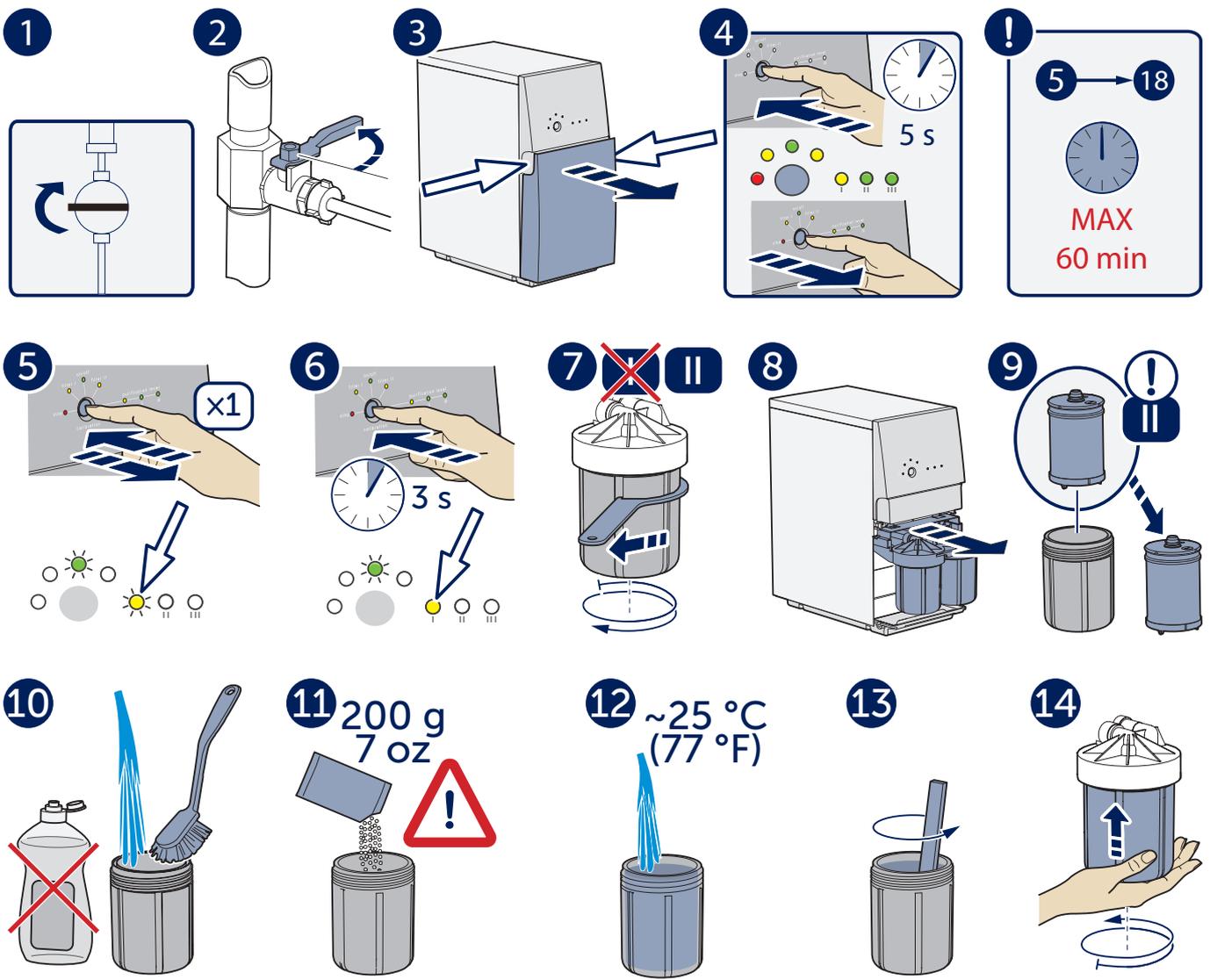
### Descale

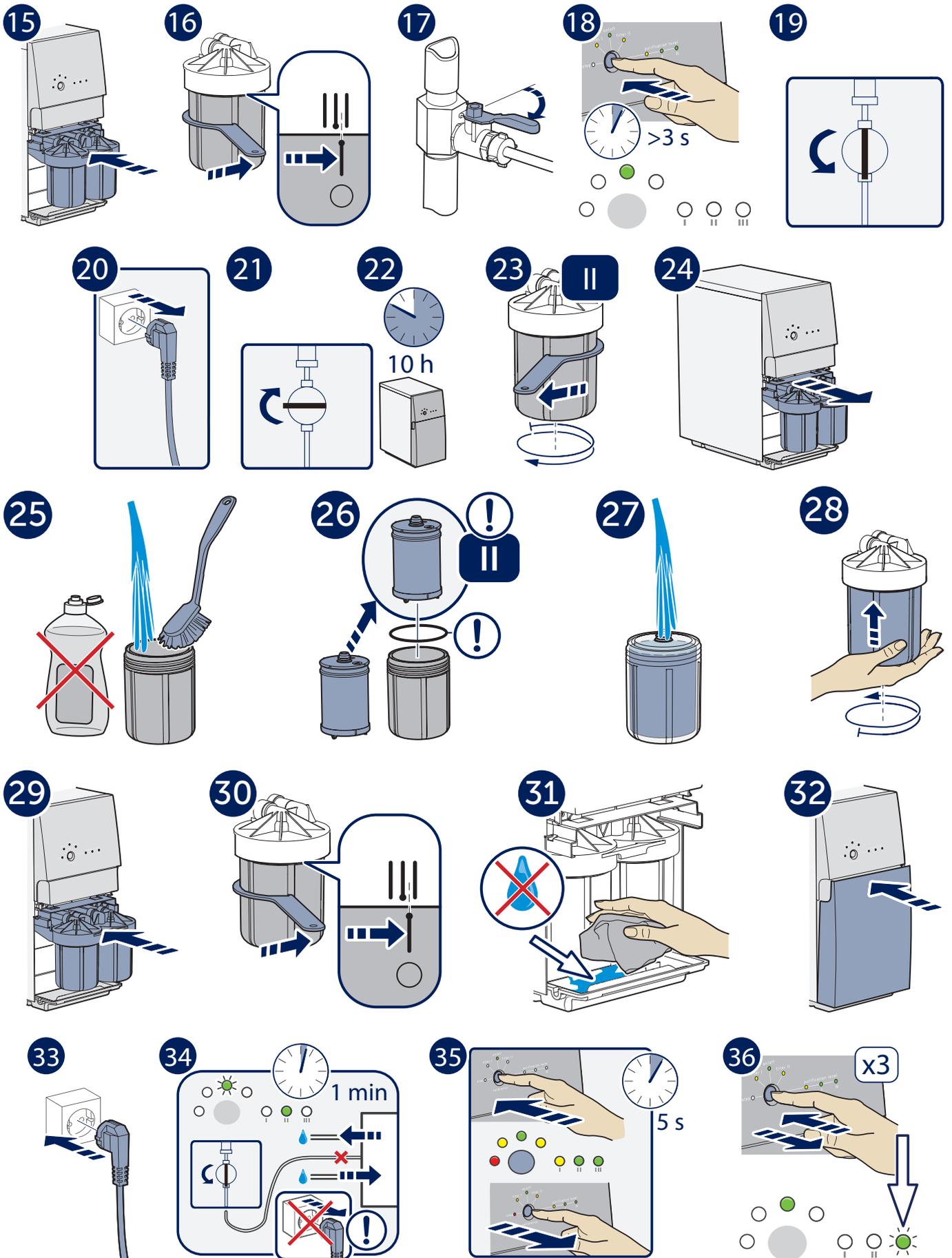
 The descaling product (01-294214-103) is harmful. Keep it where children cannot get it. Clean your hands when you have used it.

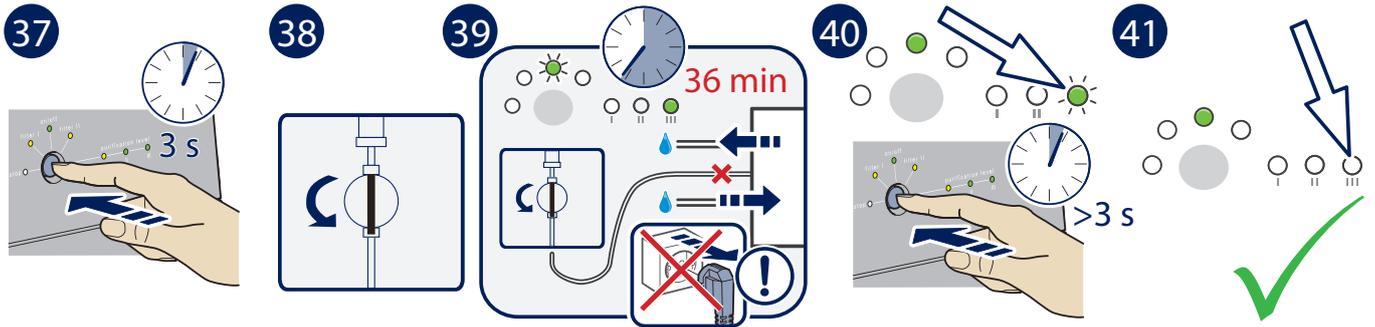
 Frequency depends on water quality and usage!  
To extend the RO-C lifetime: Descale with 6 month intervals or when the flow is decreased.

 If the unit has been descaled and the filters have been replaced, but the water flow cannot be restored, contact Hobart.

 The descale takes approximately 10 hours. Do not use the RO-C during this time.

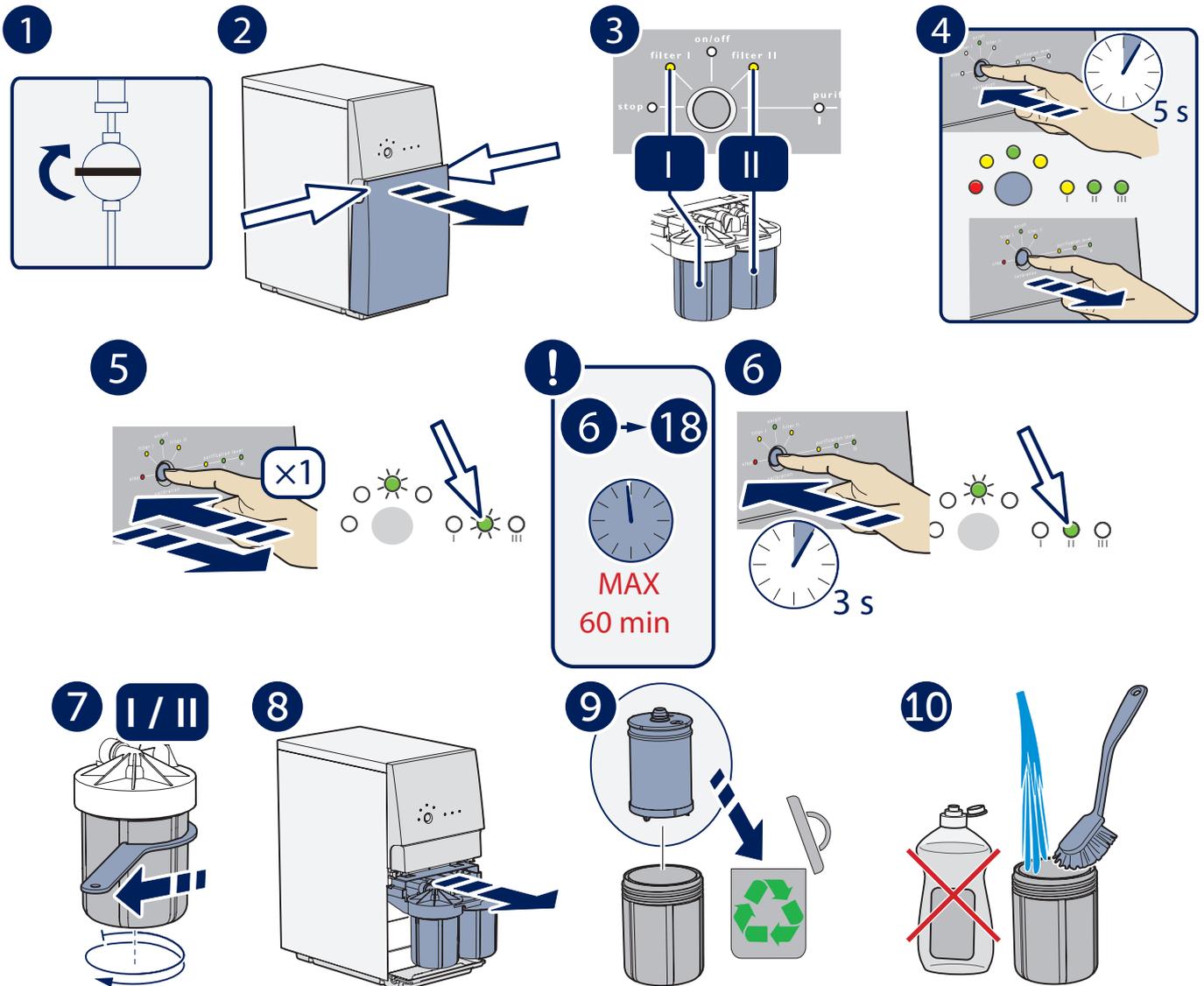


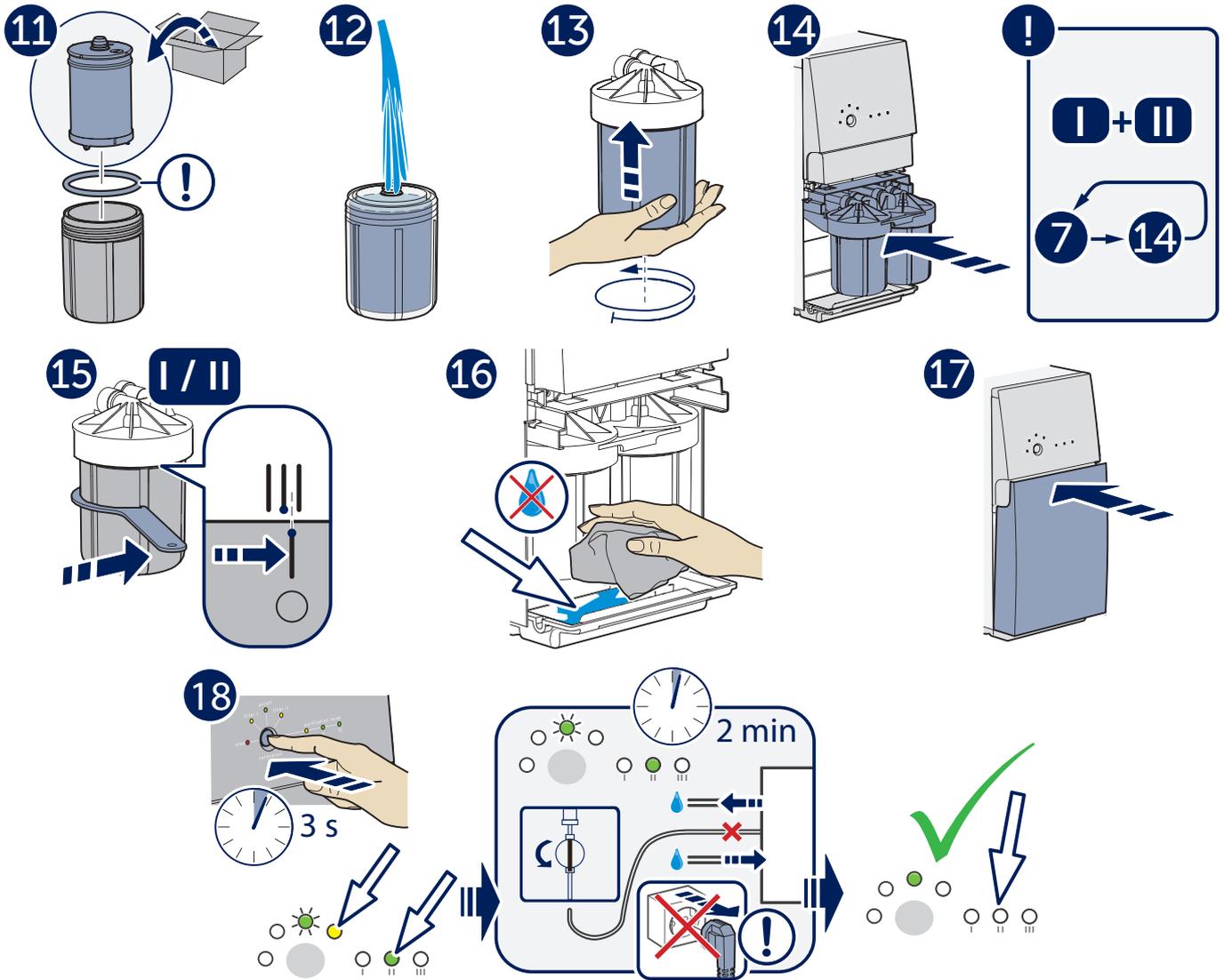




## Replace prefilter

-  Replace the filters after what comes first of 6 months or 37 850 l (10 000 gal) of purified water.
-  Change both filters when filter light I or II lights up.
-  Order filters from Hobart.





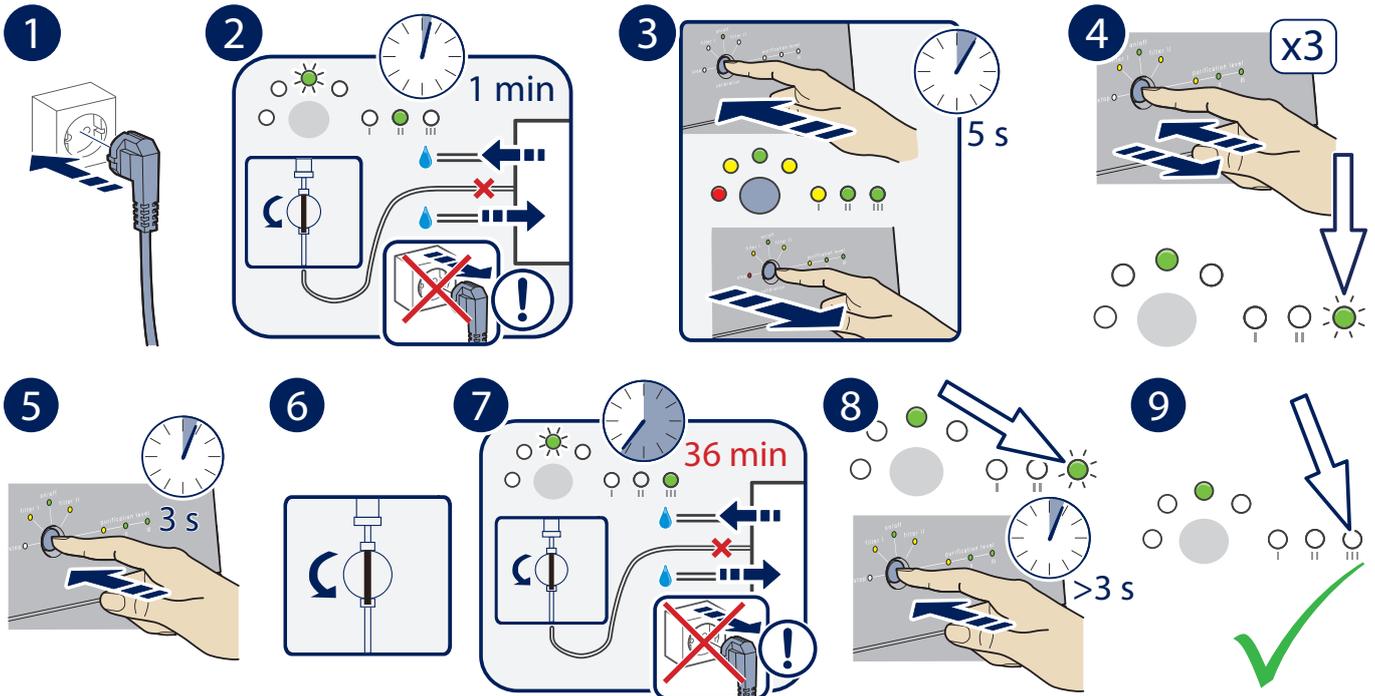
## Miscellaneous

### Rinsing

 Do not drink the water when the RO-C flushes. It is not safe to use.

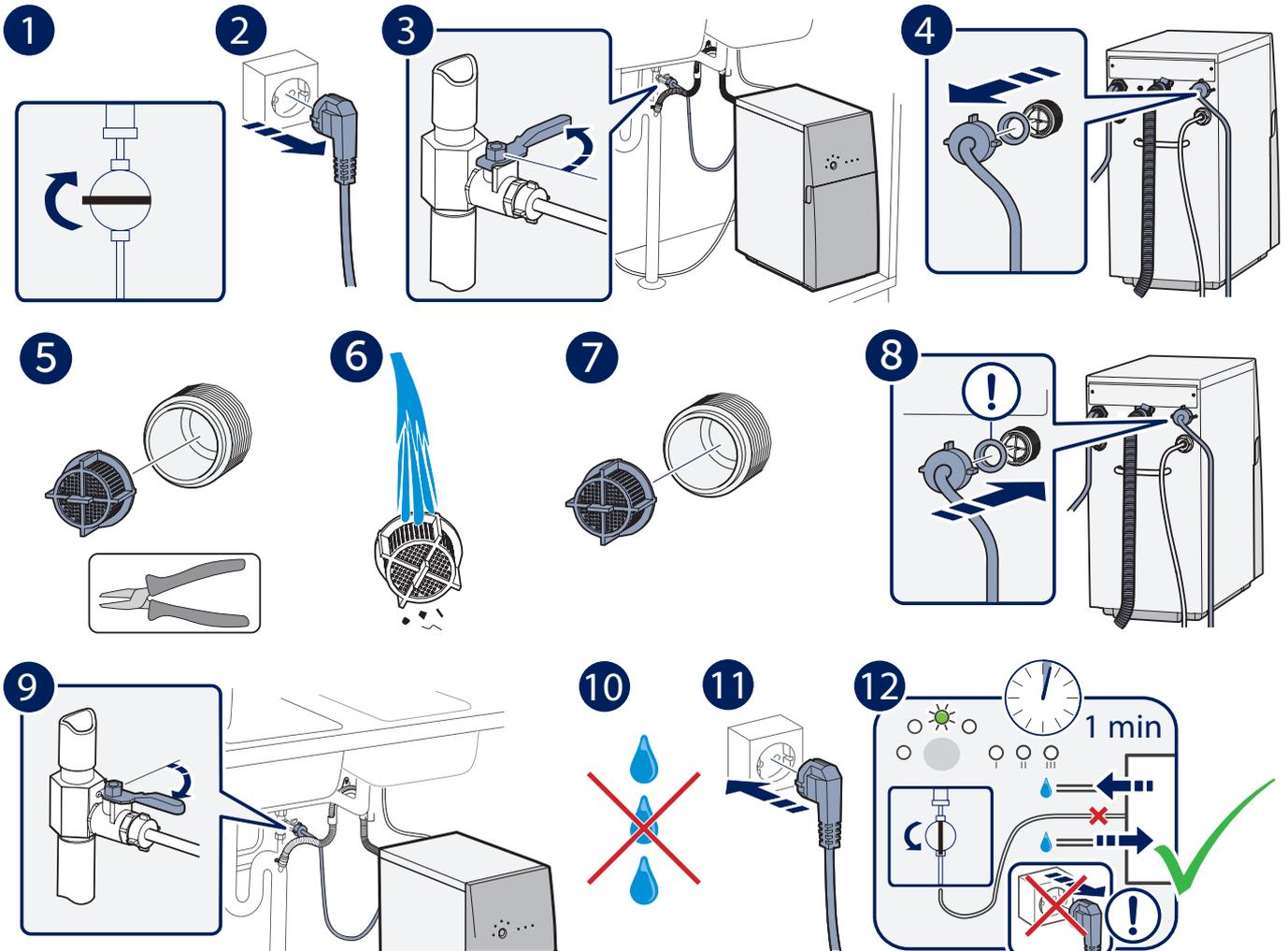
The RO-C should always be flushed:

- when it is installed again after storage/freeze protection
- when it has been cleaned



### Cleaning Fine strainer

 The fine strainer in the supply water connection absorbs larger particles. If the flow is decreased or if the unit makes a noise, the fine strainer can be blocked.



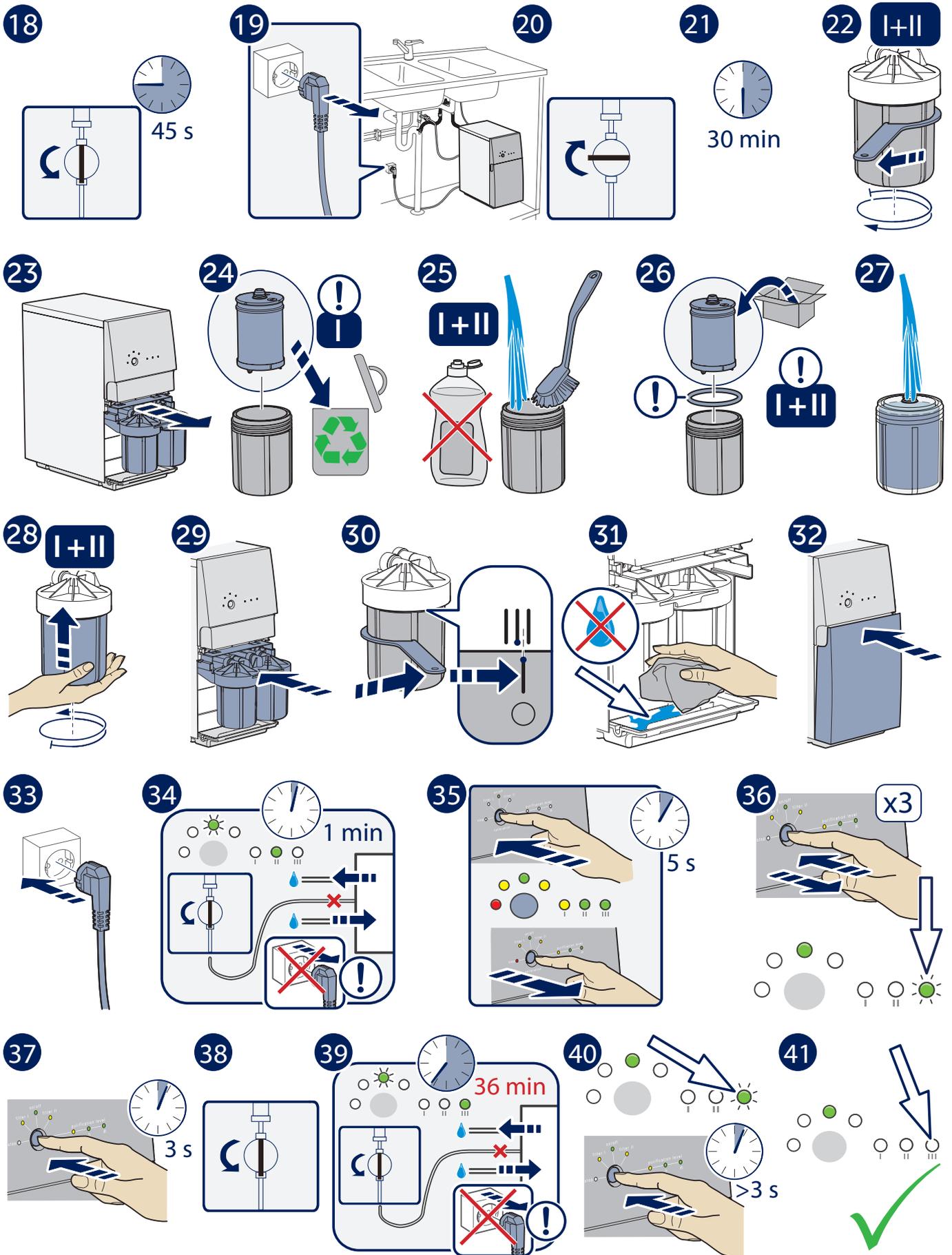
## Use disinfectant to clean the system

 Disinfectant is harmful! Keep it where children cannot get it. Clean your hands when you have used it.

 Use sodium hypochlorite (NaClO) without added color or fragrance additives.

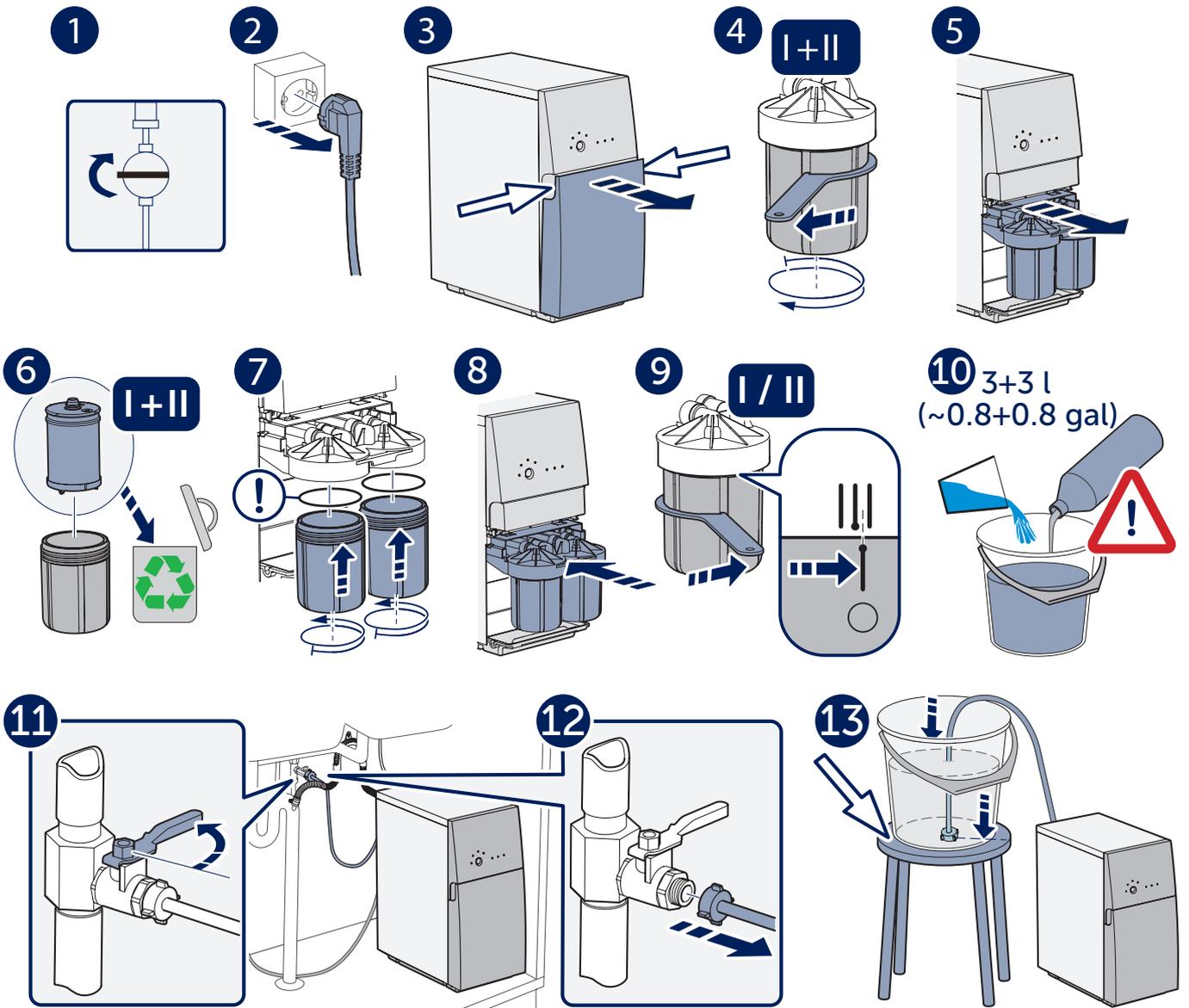
 Disinfect the RO-C when the water tastes or smells bad.

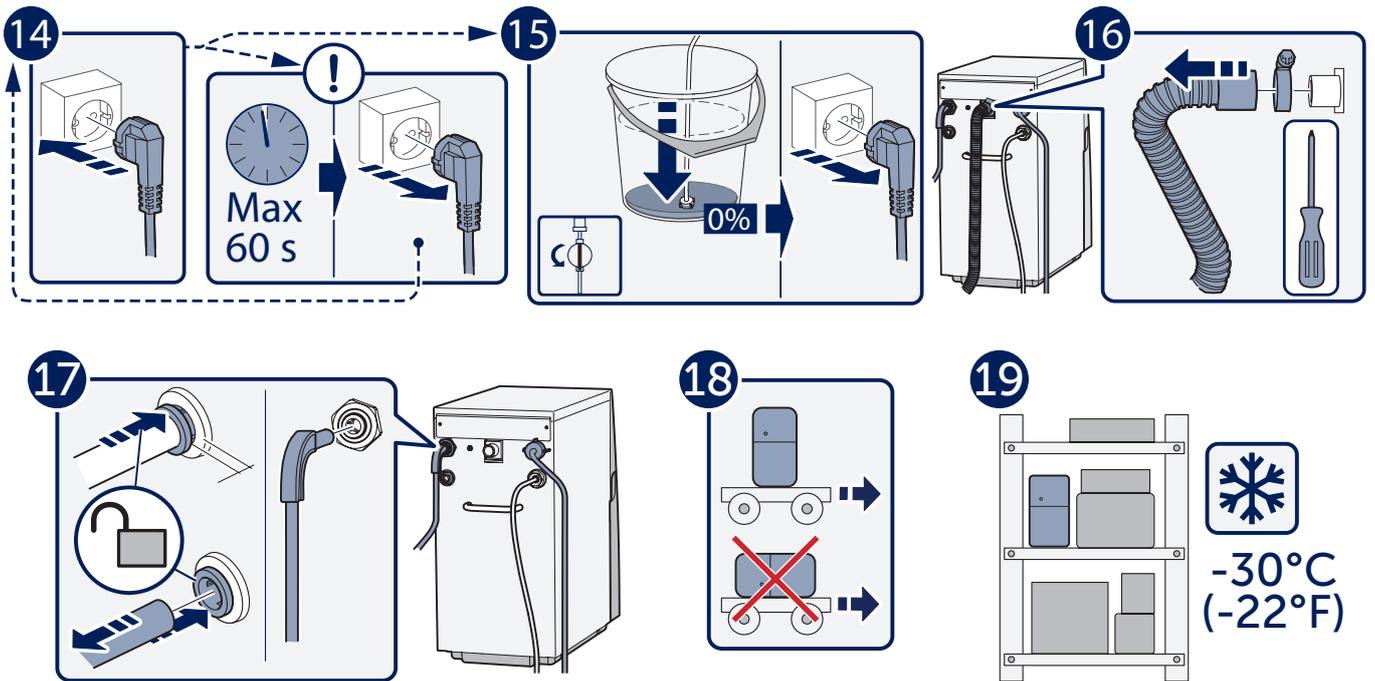




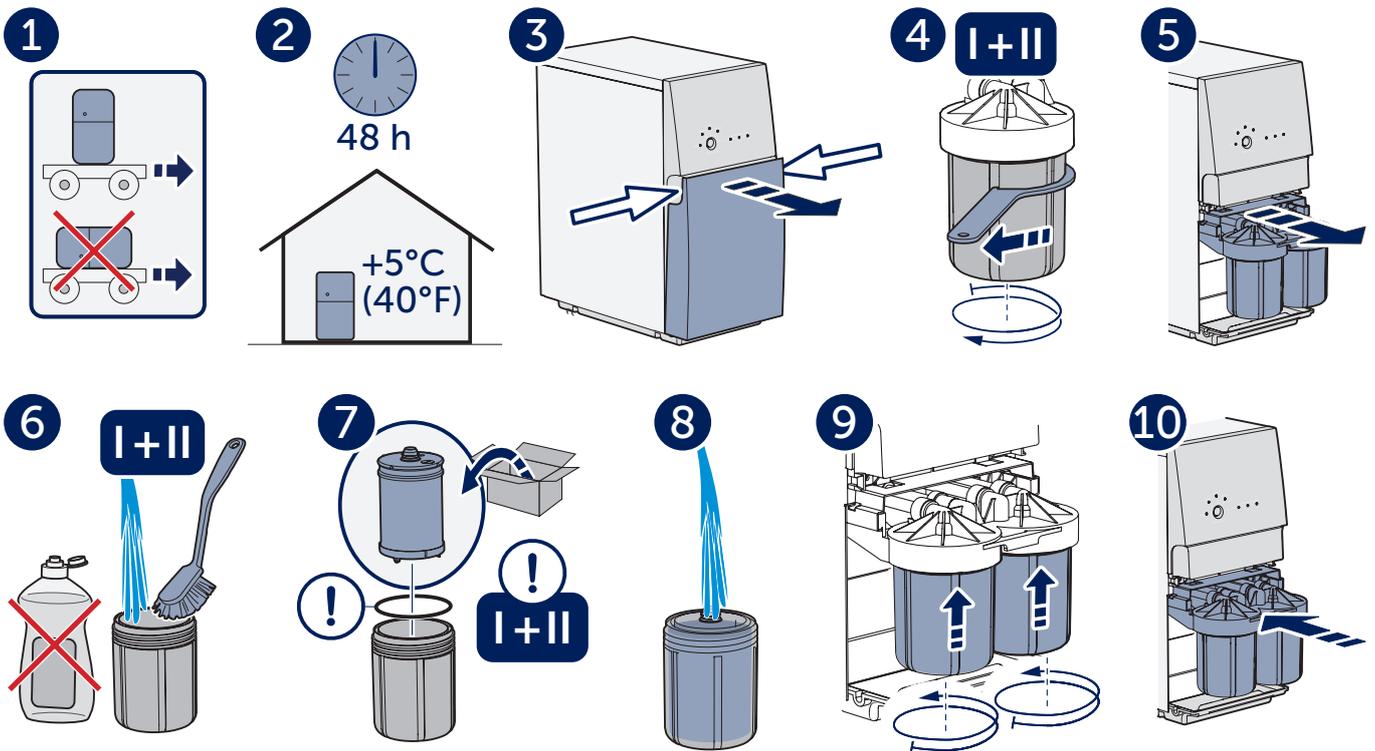
## Put into storage

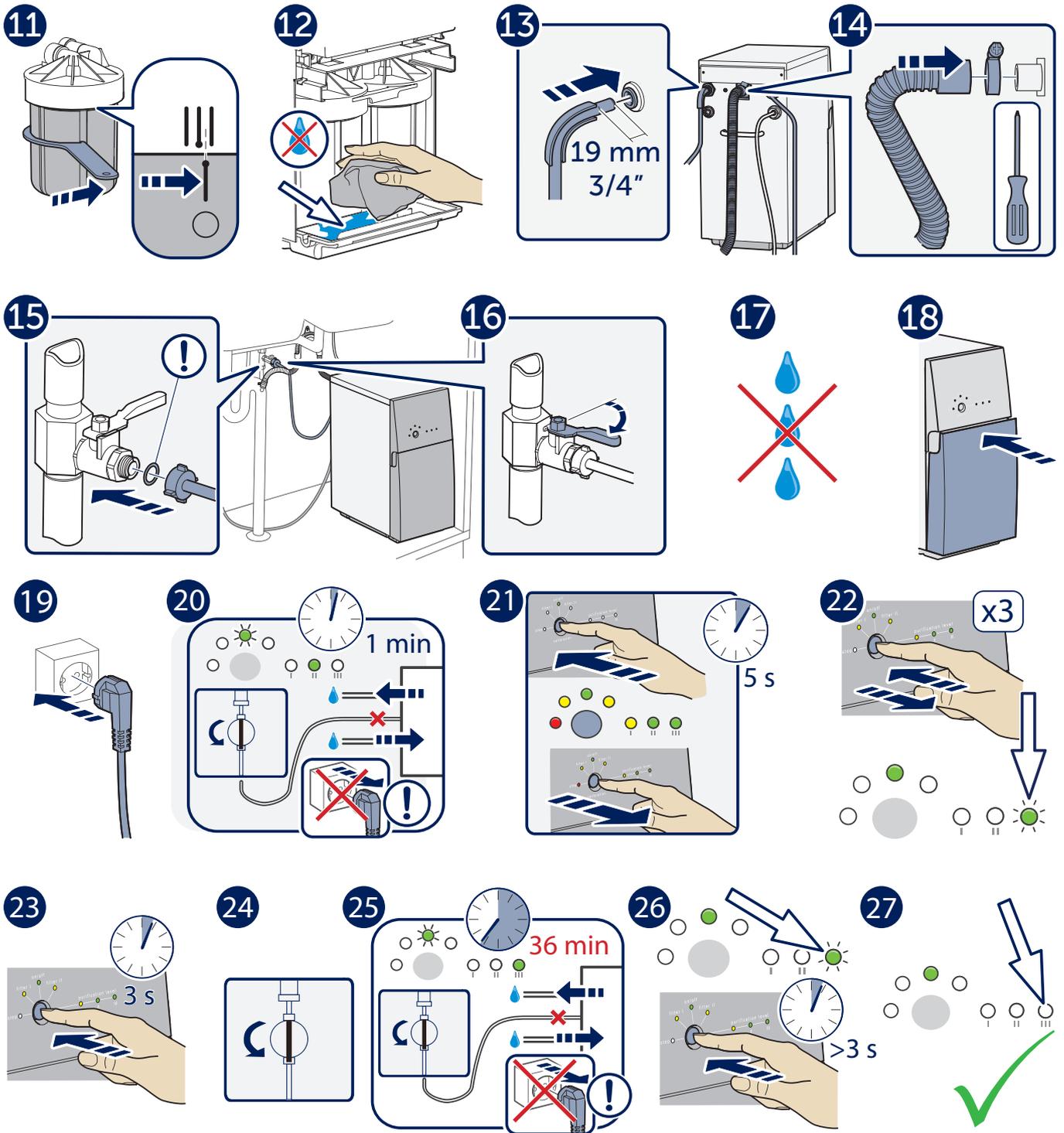
-  Preserving agent is harmful! Keep it where children cannot get it. Clean your hands when you have used it.
-  Put the RO-C into storage if it will not be used for 4 months or more, or if it is to be disconnected from the water and electricity for >5 days.
-  Order the preserving agent (01-294289-001) from Hobart.





## Reinstall after storage





## Technical data

| WxHxD          | Weight | Current consumption | Power supply       |
|----------------|--------|---------------------|--------------------|
| 225x466x460 mm | 29 kg  | 720 W               | 220-240V, 50-60 Hz |

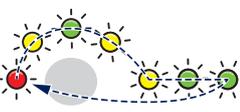
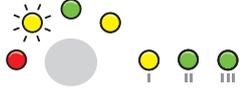
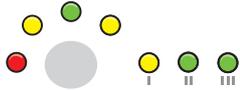
# TROUBLESHOOTING

## How to solve simple problems



If the unit stops because of an emergency, disconnect it from power and connect it again, or press the button to reset the emergency stop.

| Symptom | Reason  | Solution   |
|---------|---|--|
|         | The on/off light flashes.   | The RO-C flushes. Flushing cannot be stopped.  |
|         | Replace both filters.   | See "Replace prefilter" on page 20.  |
|         | The grid filter is blocked.   | See "Cleaning Fine strainer" on page 23.   |
|         | The supply water pressure is too low.   | Make sure that the supply water pressure is sufficient. If necessary, increase the pressure.   |
|         | Replace both filters.   | See "Replace prefilter" on page 20.  |
|         | The supply water pressure is too low. The RO-C has stopped. It waits and must be started again. | The RO-C will try to start automatically. Make sure that the supply water pressure is sufficient. If necessary, replace the filters. See "Replace prefilter" on page 20.<br>Push the button to start the RO-C. Release the button when the filter I light and the stop light go out. |
|         |   |  |
|         | Filter I or filter II is blocked.   | Make sure that nothing in the filter makes the water not flow. If necessary, replace filters. See "Replace prefilter" on page 20.  |
|         | The grid is blocked.  | See "Cleaning Fine strainer" on page 23.   |
|         | The supply water pressure is too low.   | Install a pump with increased pressure for the supply water.<br>Do a check of the parts that have an effect on the supply water pressure (the water line, the coarse filter, the extra pre-filter).  |
|         | The RO-C has stopped. The clean water quality has become too low.                               | Disconnect the RO-C from power. Connect it again to start the automatic flush. Do this 2 times.  |
|         | The salinity of the supply water has increased.   | Contact Hobart.  |
|         | The water quality meter does not work correctly.  | Disconnect the RO-C from power. Connect it again to start the automatic flush. Do not use the RO-C for 30 minutes.   |

| Symptom   | Reason  | Solution   |
|---|---|--|
|  | The leak protection system is activated.  | Disconnect the RO-C from power, and clean the base plate.                                  |
|  | The first time cleaning procedure is ongoing.   | The RO-C is working correctly.   |
|  | The first time cleaning procedure has been interrupted.   | Make sure that the supply water pressure is sufficient. Push the button to start the RO-C. |
|  | The first time cleaning procedure has been interrupted.   | Make sure that the clean water tube flows open to drain.                                   |
| The flow rate to the dishwasher is low.   | The clean water tube is tensioned or jammed.  | Make sure that the clean water tube can move freely.                                       |
|   | The RO-C needs to be descaled.  | See "Descale" on page 18.  |
| The RO-C starts and stops again (short starts).                                   | The water pressure between the RO-C and the dishwasher/tank is below the starting pressure level. | Examine the connections.   |
|   |   | Make sure that the ends of the water tubes are circular and have no burrs.                 |
|   |   | Make sure that the inlet valves of the dishwasher are water tight when they are closed.    |
| There is a bad smell from the RO-C.   | Microbial growth in the water because the RO-C has not been used for a week or longer.            | See "Use disinfectant to clean the system" on page 24.                                     |

## Product performance



The WQA Gold Seal proves that the RO-C has been independently tested and certified against NSF/ANSI 58 and CSA Standard B483.1. WQA certifies product performance, and reviews the manufacturing facility and procedures to assure product consistency and integrity.

The RO-C has been tested according to NSF/ANSI 58 for reduction of the substances listed below:

- TDS
- Chromium(+3)
- Lead
- Arsenic(+5) (also known as pentavalent arsenic, As(+5), As(V) or arsenate).

The concentration of the indicated substances in water entering the system was reduced to a concentration less than or equal to the permissible limit for the water leaving the system, as specified in NSF/ANSI 58.

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