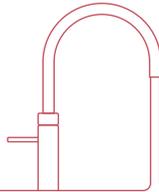


# Installation guide COMBI+

Before installing read this guide first



**Quooker®**

## Introduction

### **The operation of the Quooker COMBI+**

The Quooker COMBI+ supplies boiling water and hot water. The tank is vacuum-insulated and is connected to the cold water supply via an inlet combination valve. Inside the tank the water is heated electrically to approx. 110°C and is kept at this temperature. When boiling water is dispensed, cold water flows back into the tank at the same time and is heated automatically. If the entire content of boiling water is used in one go, the heating time is ca. 20 min. Before the water leaves the tank it is purified by the HiTAC® water filter (High Temperature Activated Carbon). To extend the life of the filter, the water used for mixing the hot water is not filtered.

In addition to boiling water, the COMBI+ also supplies instant hot water. The Quooker COMBI+ supplies hot water by mixing boiling water from the Quooker tank with cold water from the water mains inside the mixing valve. A thermostatic control element inside the valve keeps the outgoing water temperature constant. This temperature can be set between 40°C and 60°C with the grey knob on the mixing valve. The mixing valve is suitably protected against a loss in water pressure, preventing any boiling water from flowing out of the mixer tap.

The grooved handle on the tap lights up when the water is running to warn the user that the water is boiling. As an additional safety feature, the Nordic single tap is height-adjustable and the Nordic single tap, the Fusion tap and the Flex tap are fully insulated.

Despite all the safety features incorporated in the product, anyone using the Quooker system must keep in mind the risks of using boiling water in general. Incorrect use can lead to injury. Therefore always read the manual carefully before use.

### **Installation, maintenance and warranty**

The Quooker can be installed in almost any location provided there is sufficient space for the tank as well as a 13 amp socket, water supply and waste pipe.

The Quooker tank must be fitted in an upright position. If the tank is to be fitted in a cabinet with drawers, an optional bracket can be purchased to suspend the tank from the cabinet wall.

The HiTAC® filter inside the tank should be changed once every 3–5 years depending on your water hardness. If you live in a hard water area, lime scale will collect at the bottom of the tank and will need to be cleaned out by one of our engineers approximately once a year depending on usage and the quality of the water in your area. Alternatively, you can install a suitable descaling system. This system must not reduce the pH level of the water below 7 or remove all the minerals from the water (reverse osmosis) as this can be harmful to the tank and would void the warranty. Suitable descaling systems are also available directly from Quooker as an optional extra.

The warranty period is two years and covers parts and labour. It does not cover issues resulting from insufficient lime scale maintenance.

## **Users**

The Quooker tap can be used by children above the age of eight and people with diminished physical, sensory or intellectual abilities provided they are supervised or have been instructed on the safe use of the device. Inform people who are unfamiliar with the Quooker system about safe use and the possible dangers associated with the use of the boiling-water tap. Please note: incorrect use may result in injury. Prevent children from using the tap as a toy and do not allow children to clean or maintain the product unsupervised. Keep the plug out of reach of small children.

The Quooker system is suitable for household use and commercial use such as in staff kitchens at shops, offices, farms and other business premises and for use by visitors at hotels, motels, bed & breakfasts and other residential accommodation.

Always follow the installation method described in the manual. Avoid spilling water on the plug. If defective, the power plug may only be replaced by a qualified technician. Water may drip from the inlet combination valve. This is normal. Always leave the grey funnel of the inlet combination valve open. The inlet combination valve must be serviced regularly to prevent lime scale build-up and to check that the valve has not blocked up. Make sure you let the tank cool off adequately before disconnecting it. The fastest way to do this is as follows: turn off the Quooker, but leave the plug in the socket. Then open the boiling-water tap and turn it off once the water runs cold. You can find a more detailed explanation for disconnecting the tank in chapter F.

Tips for use and the installation manual can also be found on our website [quooker.hk](http://quooker.hk)

## Declaration of conformity

Quooker Nederland B.V., Staalstraat 13, 2984 AJ Ridderkerk (The Netherlands) herewith declares, on our own responsibility, that the product Quooker COMBI+ is in accordance with the conditions of the following directives:

- 2014/35/EU Low Voltage Directive (LVD)
- 2011/65/EU Restriction of Hazardous Substances (RoHS) Directive
- 2014/30/EU Electromagnetic Compatibility Directive (EMCD)
- 2009/125/EC Ecodesign energy-related products Directive
- 2014/68/EU Pressure Equipment Directive

and complies with the following standards:

General product safety household and similar electrical appliances

EN 60335-1:2012 + AC:2014 + A11:2014

EN 60335-2-15:2002 + AC:2005 + A1:2005 + AC:2006 + A2:2008 + A11:2012 + A11:2012/AC:2013  
+ EN 60335-2-15:2016

EN 60335-2-21:2003 + A1:2005 + AC:2007 + A2:2008 + AC:2010

Public exposure to electromagnetic fields (EMF)

EN 62233:2008 + AC:2008

Electromagnetic compatibility (EMC)

EN 55014-1:2017 + EN 55014-1:2006 + A1:2009 + A2:2011

EN 55014-2:2015 + EN 55014-2:1997 + AC:1997 + A1:2001 + A2:2008

EN 61000-3-2:2014

EN 61000-3-3:2013

Restriction of hazardous substances

EN 50581:2012

Ecodesign water heaters

Regulation (EU) 814/2013

The Netherlands, Ridderkerk, January 2021



Niels Peteri, Director

## Technical specifications

Tank	COMBI+
Voltage	230 V
Wattage*	2200 W
Capacity	7 litres
Heating-up time*	20 minutes
Standby power consumption*	10 W
Tank height	47 cm
Required working height	54 cm
Tank diameter	20 cm
Min. mains pressure	200 kPa (2 bar)
Max. mains pressure	600 kPa (6 bar)
Max. working pressure	800 kPa (8 bar)
Amount at 40°C	unlimited
Amount at 60°C	unlimited
Temperature regulation	thermostatic
Mounting bracket available	yes
Safety features	- maximum temperature limit - pressure relief valve 800 kPa (8 bar)
HiTAC® water filter	High Temperature Activated Carbon

\*These are average values.

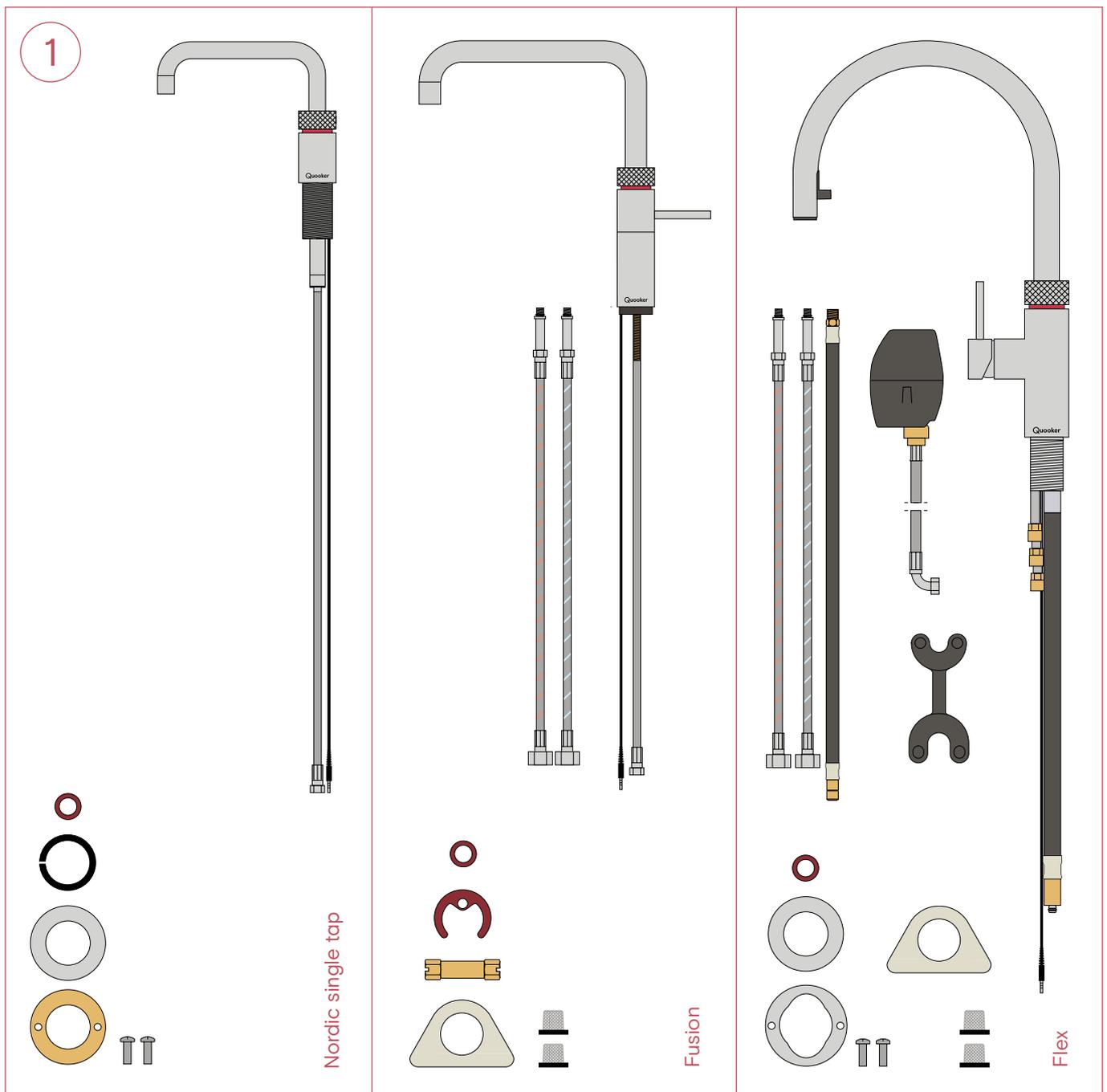
### Energy label

Declared load profile	XXS
Water heating energy efficiency class	A
Water heating energy efficiency	36%
Annual electricity consumption	511 kWh/A
Warm water temperature settings of the water heater	40°C - 60°C
Sound power level	- dB

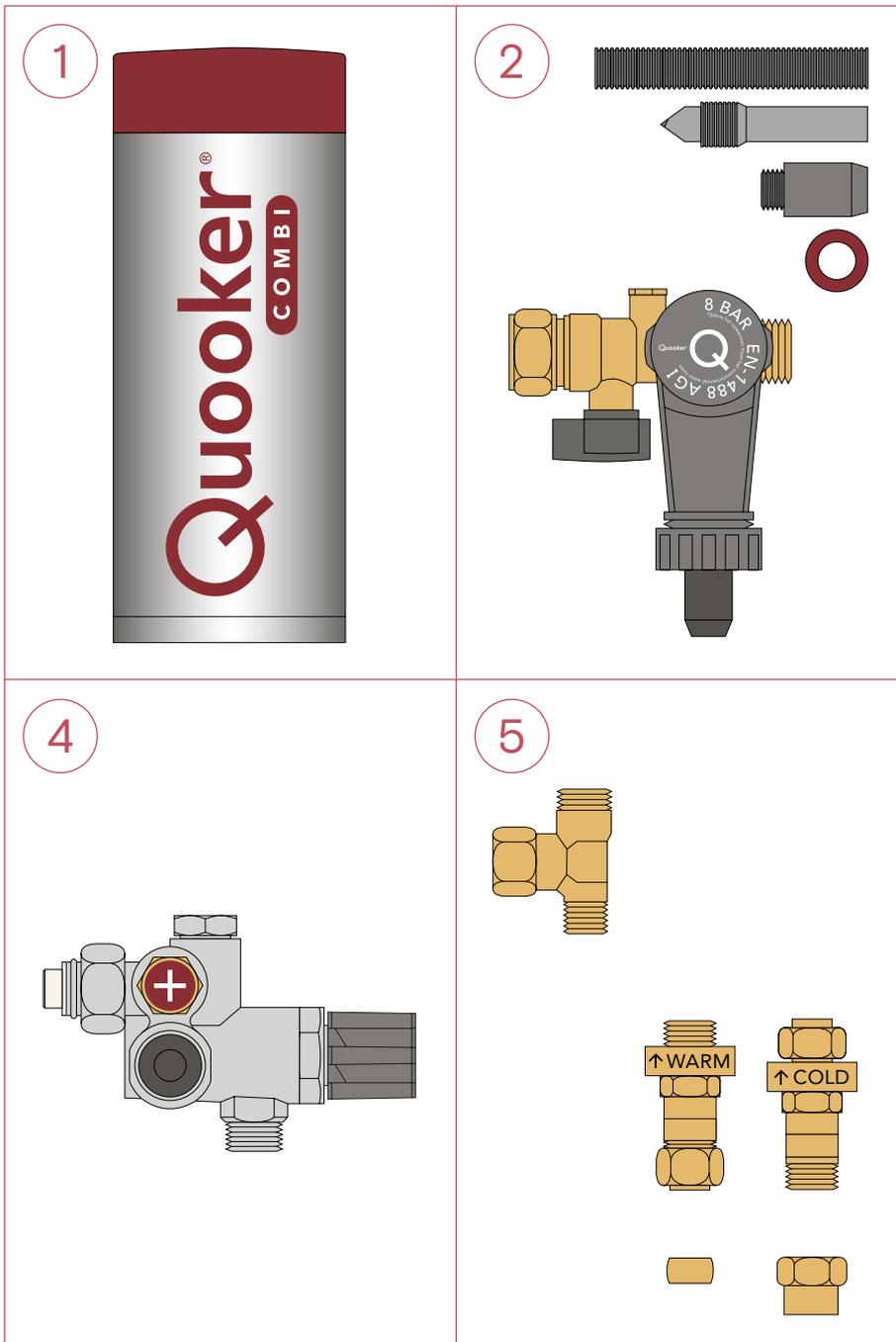
Tap	Nordic single tap	Fusion, Flex and mixer tap
Tap hole size	32 mm	35 mm
Recomm. temp. mixing water	-	60°C
Tap base ring available	yes	yes

## Contents of the pack

- Nordic single tap, packing ring, centring ring, steel ring, brass sink nut and two screws  
- or Fusion tap, packing ring, brass fixing plate, fixing nut, white tap support (for thin work tops) and two inlet hose screens  
- or Flex tap, hoses, fibre washer(s), steel washer, screw ring with two screws, coupling with boiling water hose, white tap support, two inlet hose screens and quick-release tool.



2. COMBI+ tank
3. Quooker inlet combination, waste hose, Quooker drill bit, PVC connector and large packing rings
4. Mixing valve
5. T-joint, pressure reducing valve 'warm' with 15-12 adapter, pressure reducing valve 'cold', 15 mm olive and adaptor sleeve



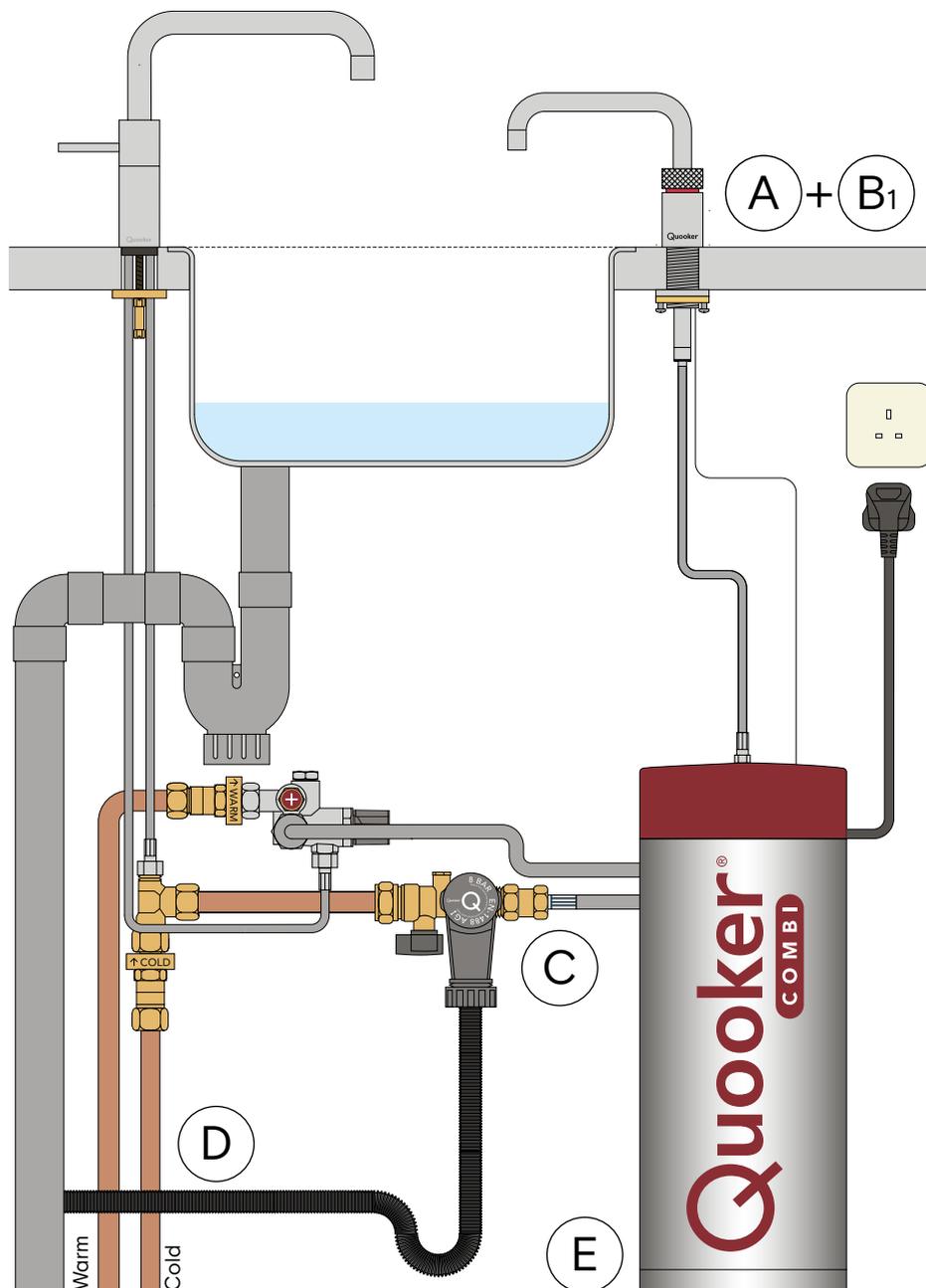
## Overview of Nordic single tap installation

It is recommended that you install the Quooker in the following order:

- A. Drilling hole
- B1. Fitting Nordic single tap
- C. Connecting water
- D. Connecting waste
- E. Connecting tank

Note: Bear in mind that the tank, inlet combination, mixing valve and socket must remain accessible for servicing.

For an overview of the Fusion tap installation, please refer to the next page and for the Flex tap to the page after that.



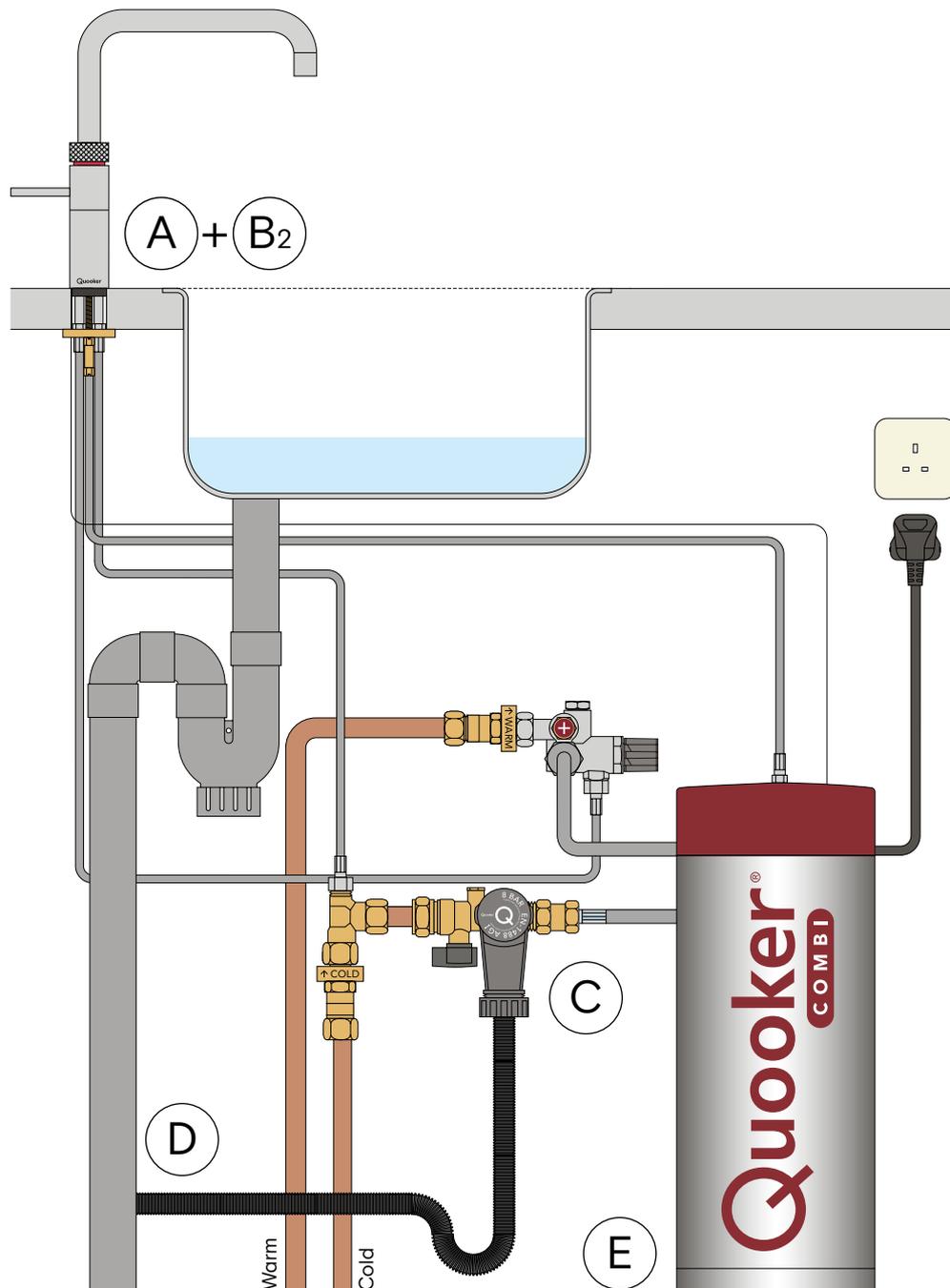
## Overview of Fusion tap installation

It is recommended that you install the Quooker in the following order:

- A. Drilling hole
- B2. Fitting Fusion tap
- C. Connecting water
- D. Connecting waste
- E. Connecting tank

Note: Bear in mind that the tank, inlet combination, mixing valve and socket must remain accessible for servicing.

For an overview of the Flex tap installation, please refer to the next page.

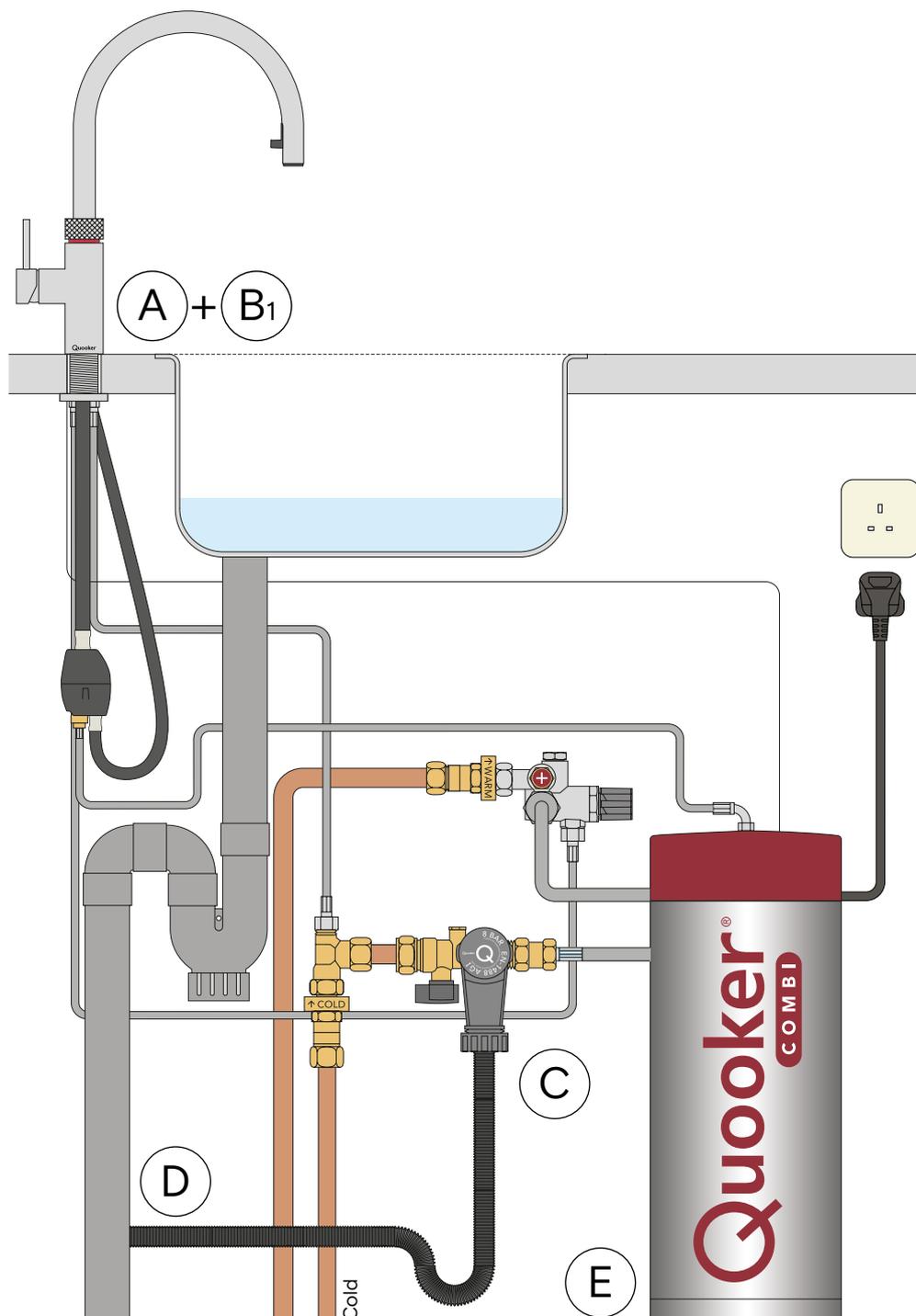


## Overview of Flex tap installation

It is recommended that you install the Quooker in the following order:

- A. Drilling hole
- B3. Fitting Flex tap
- C. Connecting water
- D. Connecting waste
- E. Connecting tank

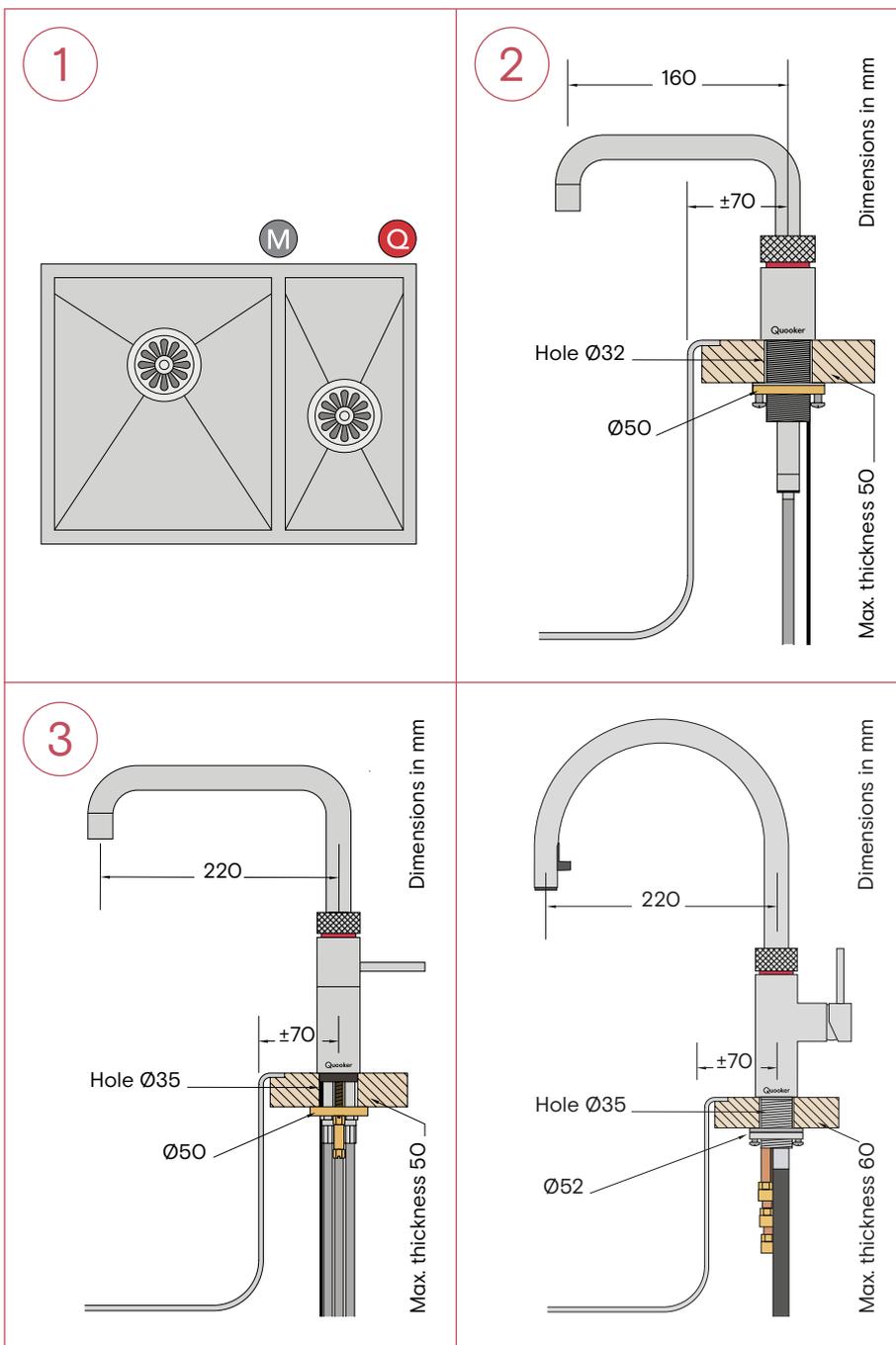
Note: Bear in mind that the tank, inlet combination, mixing valve and socket must remain accessible for servicing.



# A

## Drilling hole

- Note: The tap hole for the Nordic single tap should be 32 mm in diameter. The Fusion and Flex tap hole should be 35 mm in diameter.
- The Nordic single tap should ideally be positioned at the corner of the sink to enable use above the sink or the work top.
- Note: It must be possible to move the spout of the Nordic single tap freely up and down. When the spout is in its lowest position it projects ca. 25 cm below the work top. Bear this in mind when fitting the inlet combination, sockets and the like.
- Note: The Flex tap coupling must be able to move freely. When the hose is not withdrawn it hangs approximately 40 cm below the work surface top. Make allowances for this when fitting the inlet combination, power sockets and so forth.



### 1. Select position Nordic single tap

Select a suitable position for the Nordic single tap based on the type of sink and position of the mixer tap.

### 2. Drilling hole for Nordic single tap

Using the correct drill bit, drill a hole of 32 mm through the work top for the Nordic single tap. Note: For the Nordic mixer tap please refer to the separate guide. In the case of a hole of 35 mm or larger, use the centring ring provided.

### 3. Drilling hole for Fusion or Flex tap

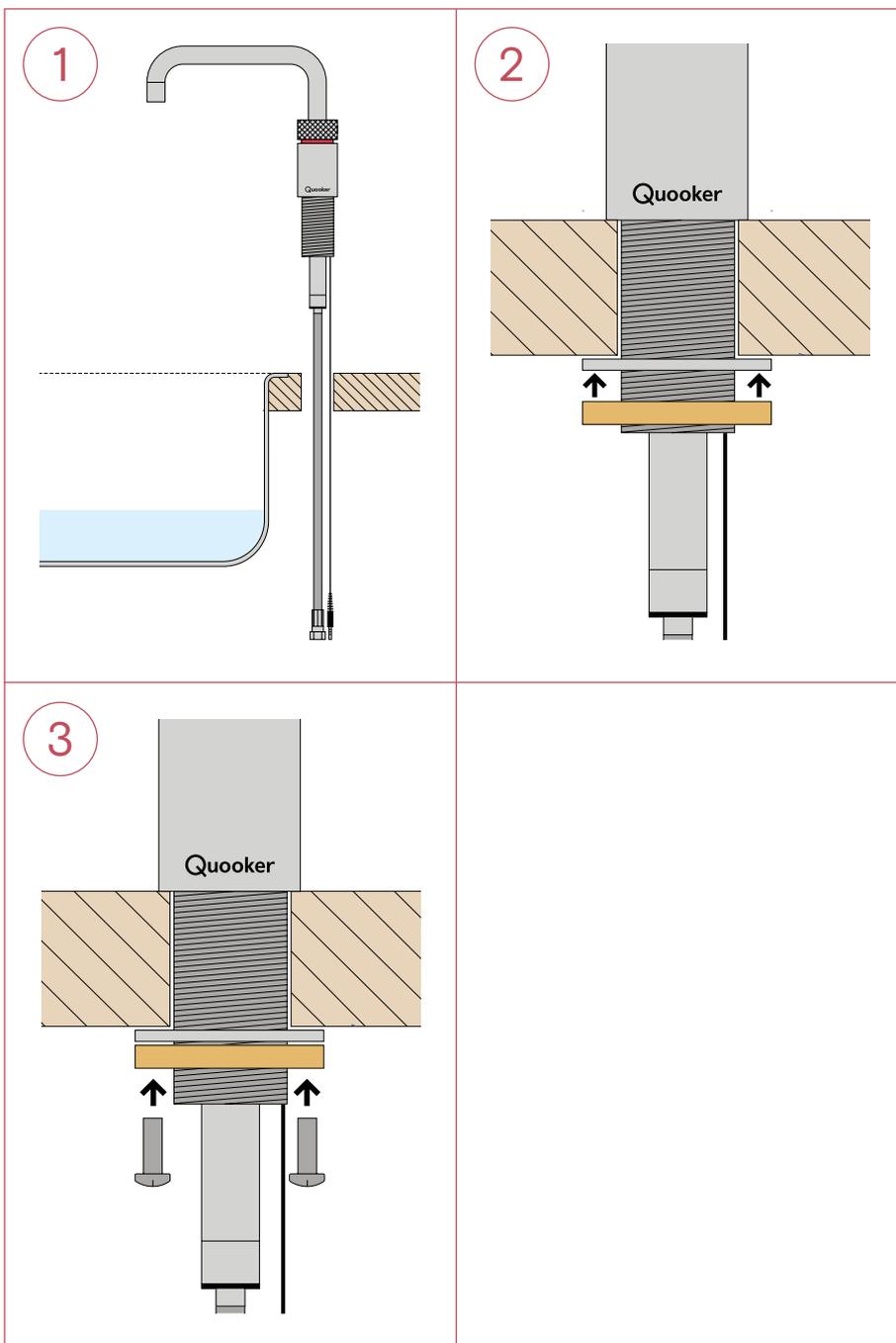
Select a suitable position for the tap. Using the correct drill bit, drill a hole of 35 mm through the work top. In this, take account of the range of the tap's spout from the centre of the tap hole.



# B1

## Fitting Nordic single tap

- The total length of the hose between the boiling-water tap and tank is only 70 cm. The tank must therefore be fitted close to the tap. Extension hoses are available in different lengths but are not normally required.
- The small fibre washers supplied with the tap rings are not required yet at this point. One will be used for connecting the tap and tank hose (see section E), the second one is a spare.



### 1. Tap through work top

Push the tap through the hole in the work top. Note: When fitting the tap in a 32 mm hole, the black plastic ring needs to be removed from the tap first.

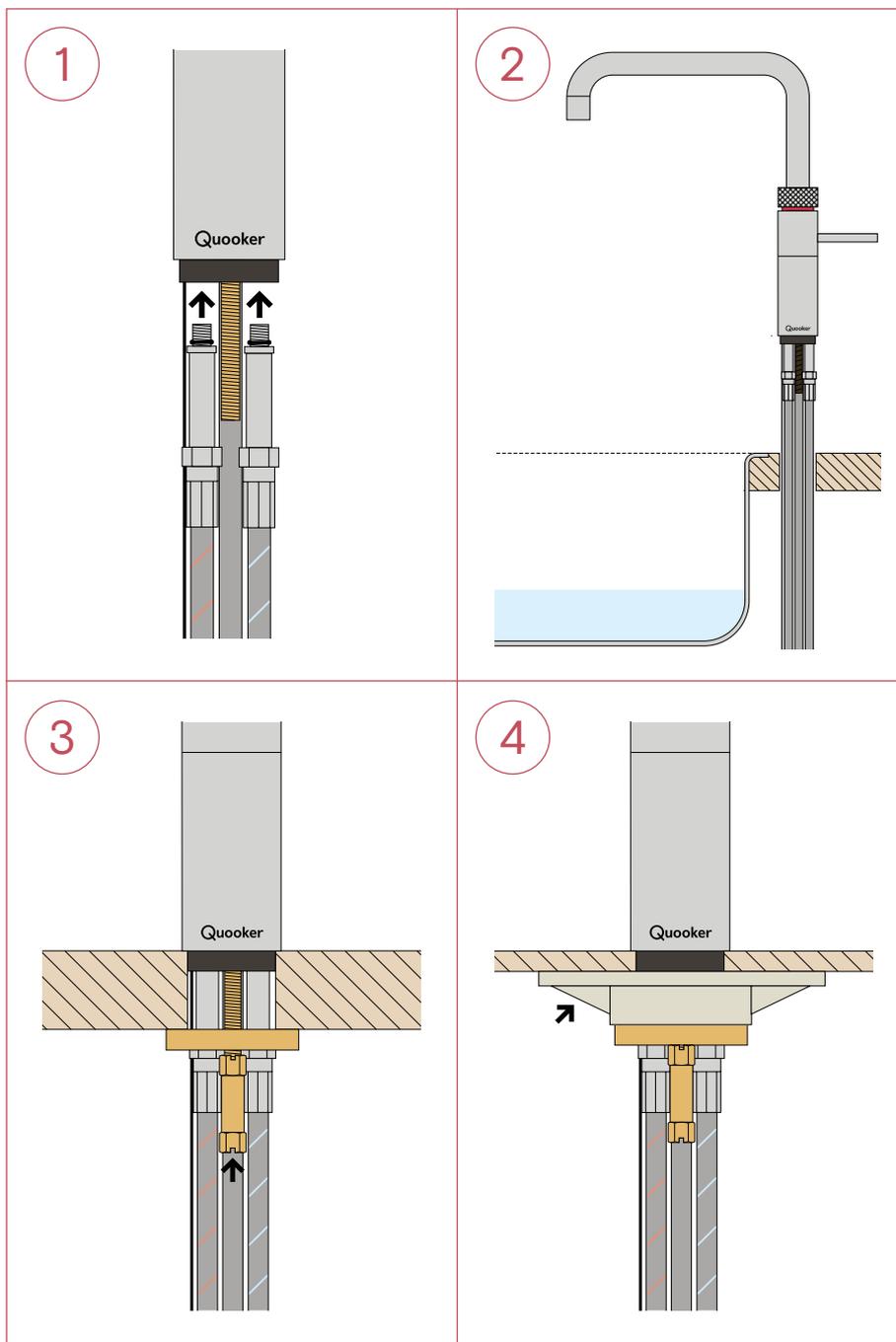
### 2. Securing the tap

Set the tap to the desired position and secure it with the metal ring and screw ring supplied.

### 3. Securing tap screws

Tighten the screws in the screw ring.

# B<sub>2</sub> Fitting Fusion tap



## 1. Mount the hoses

Mount the hot water and cold water hoses on the tap.

## 2. Tap through work top

Push the tap through the hole in the work top.

## 3. Securing tap

Position the brass fixing plate around the hoses. Screw the fixing nut onto the tap thread. Adjust the position of the tap to ensure that the Quooker logo is facing the user. When the handle is in the cold position, it will be parallel to the edge of the work top. Tighten the fixing nut with a pipe wrench, socket wrench or spanner.

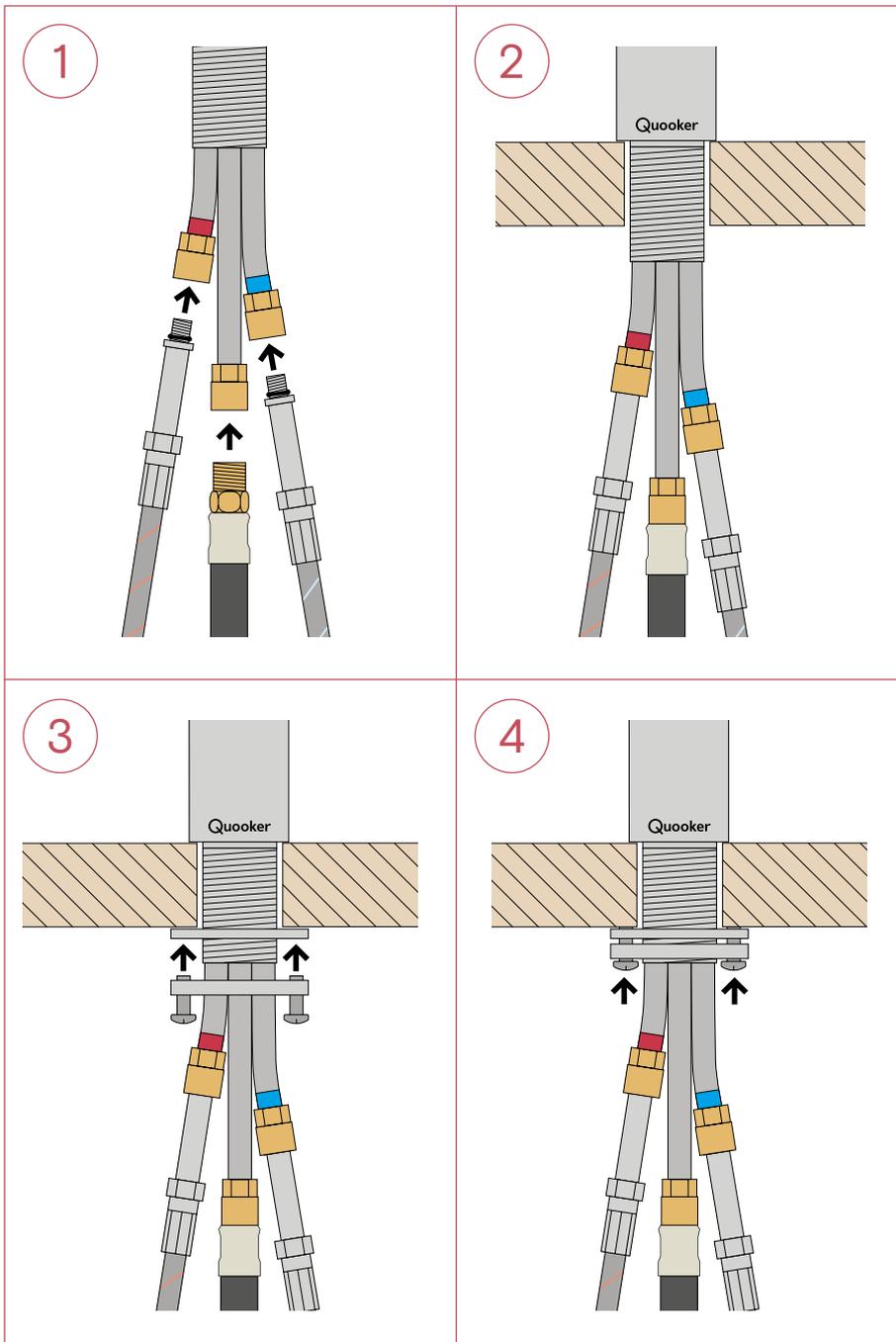
## 4. Fitting to thin work top

When fitting to a thin work top, use the white tap support underneath the brass fixing plate.

# B3

## Fitting Flex tap

- When installing the reservoir it is necessary to take into account that the Flex tap coupling must be able to move up and down freely.



### 1. Fit hoses

Fit the hot, cold and mixer water hose to the tap.

### 2. Tap through work top

Push the tap through the hole in the work top.

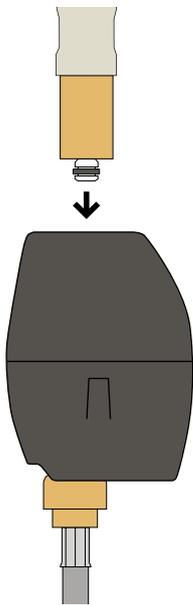
### 3. Tighten the brass plate

Put the tap in the required position and fully tighten the brass plate.

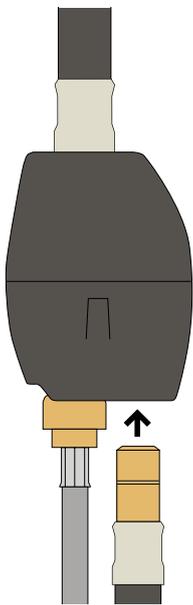
### 4. Securing tap screws

Tighten the screws in the screw ring.

5



6

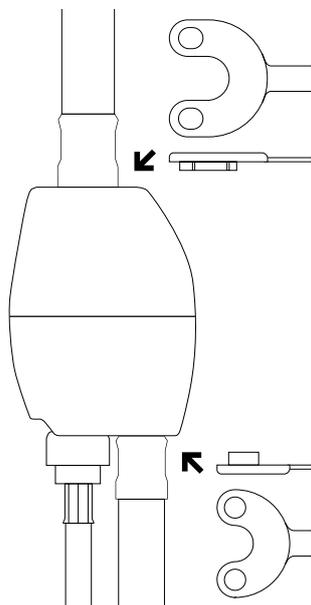


**5. Attach the coupling**

Click the pull-out hose into the coupling's quick-release fitting while ensuring that the hose pillar is fully inserted.

**6. Fit the mixer water hose**

Click the mixer water hose into the coupling's quick-release fitting while ensuring that the hose pillar is fully inserted.



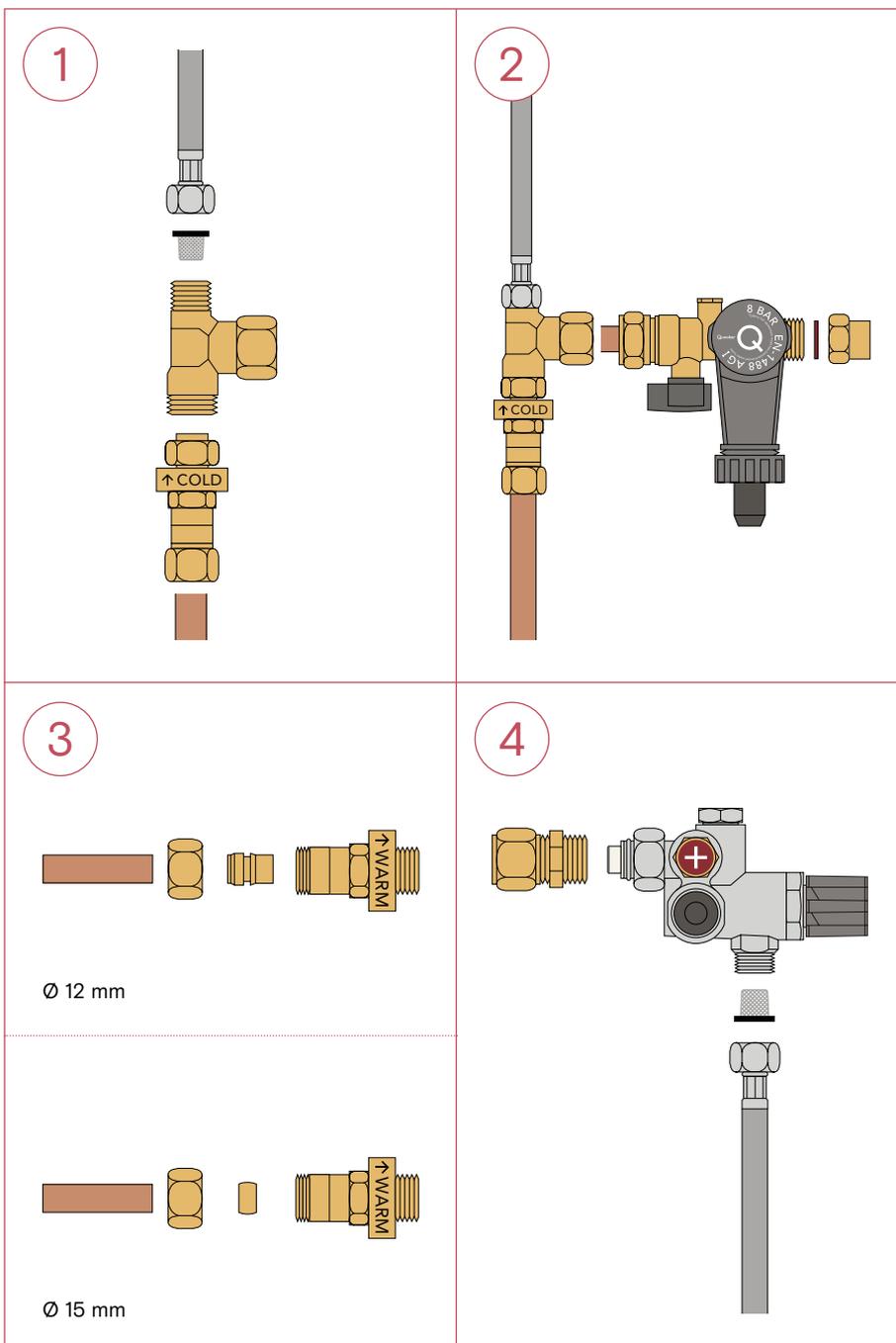
**If necessary**

Detach coupling. Use the quick-release tool to detach the mixer water hoses from the coupling. Press the quick-release tool flat against the coupling to hold it still. This enables the hose to be extracted.

# C

## Connecting water

- The COMBI+ operates under mains water pressure and must always be fitted with the supplied inlet combination.
- The boiling-water tap must be installed according to the locally applicable regulations.
- The inlet combination will release drips of expansion water while the water in the tank is heating up in order to regulate the pressure inside the tank.
- Position the inlet combination as high as possible to create a sufficient height distance between the inlet combination and the point where the waste hose connects to the waste pipe. This is necessary to allow the expansion water to flow away and to prevent water from backing up from the waste pipe (see figure at step D4).



### 1 Install T-piece

Close the main shut-off valve. Fit the pressure reducing valve 'cold' to the T-piece and then on the cold water pipe (Ø 15 cm). Pay attention to the installation order. Connect the cold water hose of the mixer tap, the Fusion tap or the Flex tap to the T-piece with the hose filter.

### 2 Fit inlet combination

Fit the pressure reducing valve 'warm' to the hot water pipe. In case of a 15 mm pipe, replace the 15-12 mm adaptor in the coupler with the 15 mm olive.

### 3 Fit pressure reducing valve

Fit the coupler to the hot water pipe. In case of a 15 mm pipe, replace the 15-12 mm adaptor in the coupler with the 15 mm olive.

### 4 Fit mixing valve

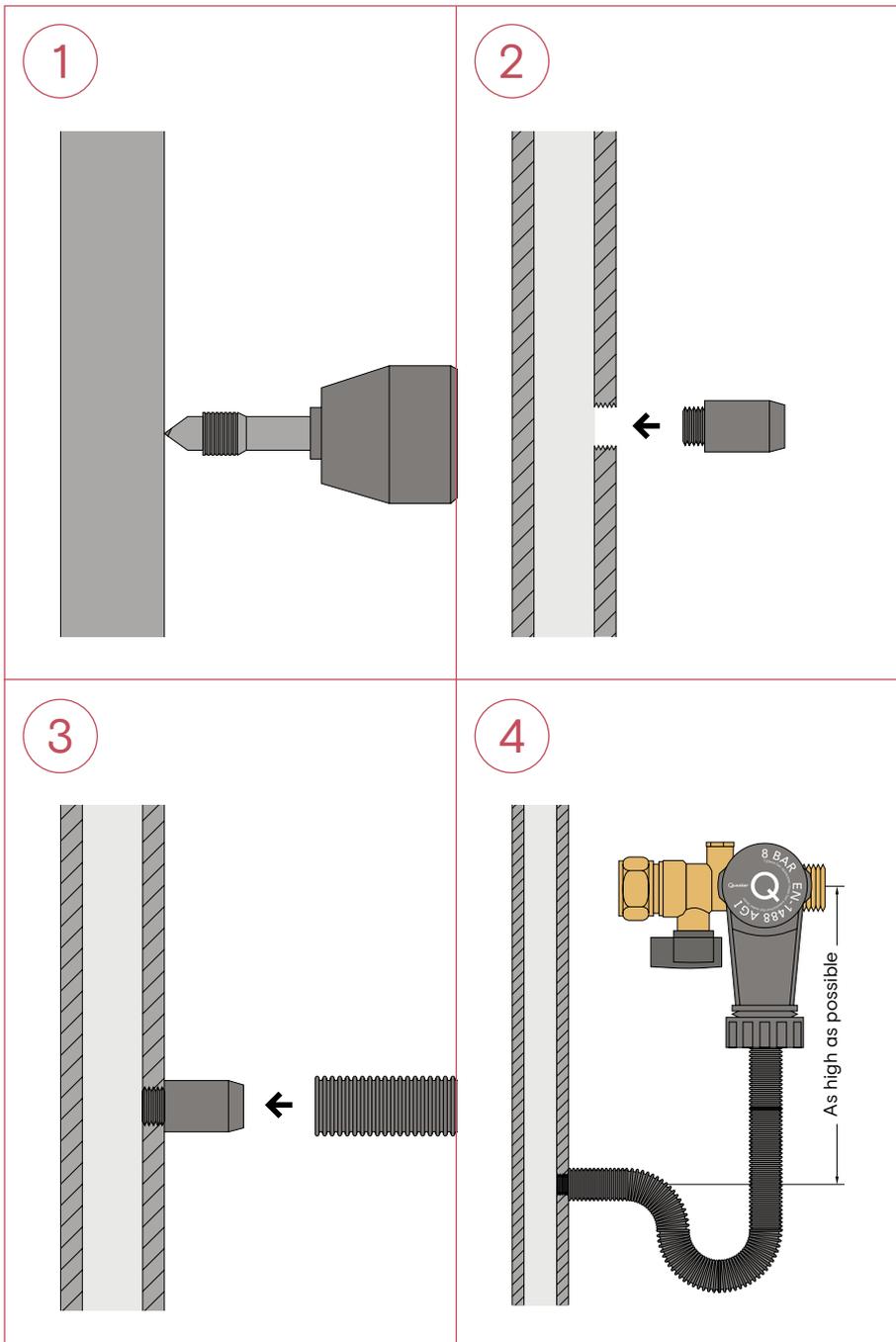
Fit the pressure reducing valve 'warm' to the hot water pipe. In case of a 15 mm pipe, replace the 15-12 mm adaptor in the coupler with the 15 mm olive.

# D

## Connecting waste

The water in the Quooker tank expands as it heats up. This causes the pressure in the tank to increase with the advantage that the temperature of the water in the tank exceeds its normal boiling point and the water leaves the tap already boiling. During heating, the inlet combination discharges expansion water that ends up in the waste pipe via the supplied waste hose.

The drilling kit, also supplied, can be used to connect the hose to the waste pipe. Make the height difference between the inlet combination and the connection to the waste pipe as large as possible to prevent waste water from flowing back out of the funnel in the inlet combination.



### 1. Drilling hole

Using the drill bit supplied, drill and tap in one operation a threaded hole in the waste pipe. Drill slowly so that the PVC does not melt. Turn back anti-clockwise to preserve the thread.

### 2. Fit connector

First try to screw the PVC connector in the hole before fitting permanently with PVC glue.

### 3. Connect hose to waste pipe

Slide the waste hose over the PVC connector.

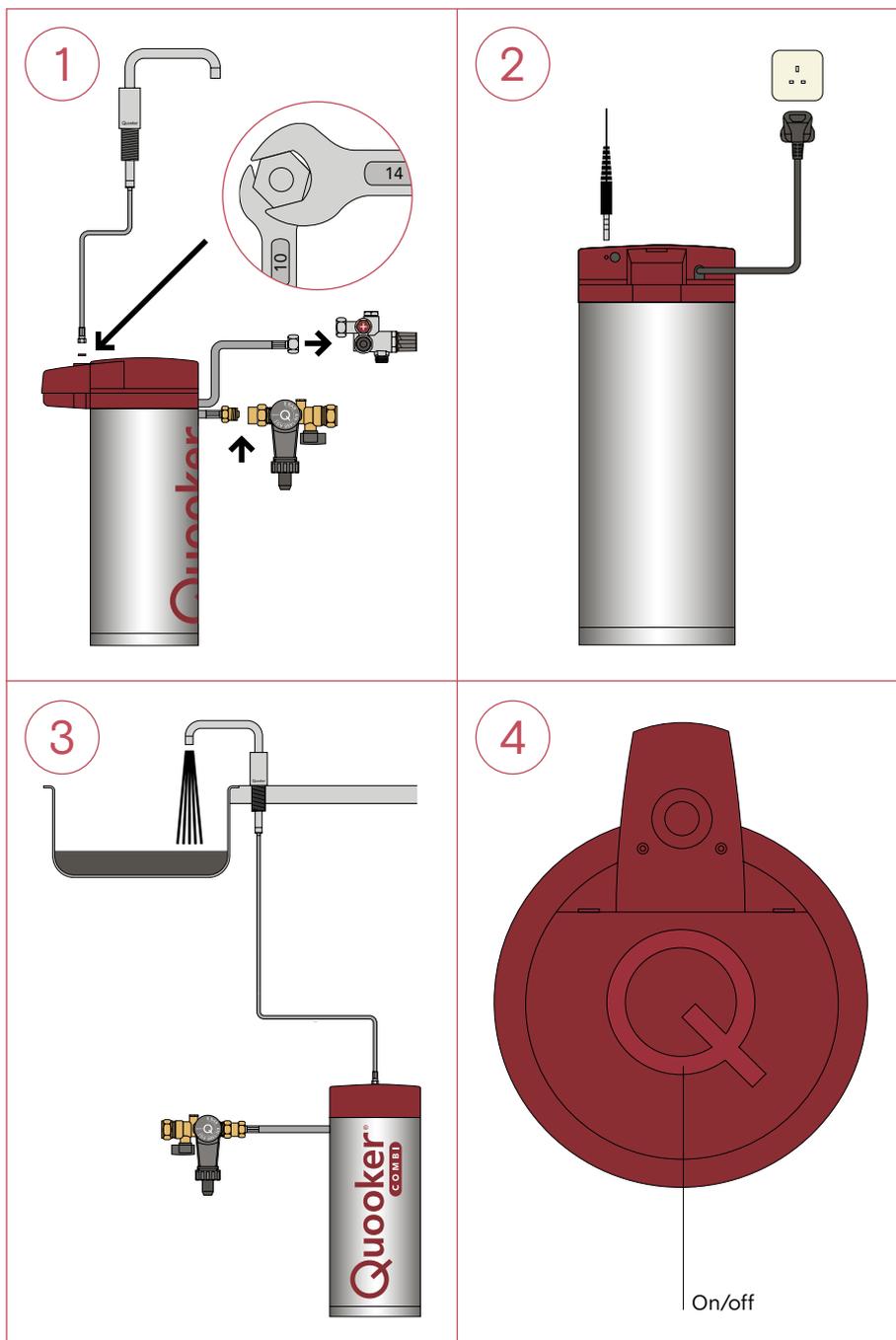
### 4. Connect hose to inlet combination

Create a u-bend (or loop) in the hose and connect it to the funnel of the inlet combination. The u-bend will create a water lock to block smells from the waste pipe. As the water is being heated, the inlet combination will release drips of water into the grey funnel. The open funnel is required to prevent pressure build-up.

# E

## Connecting tank

- The Quooker tank is supplied with a UK 3 pin plug and requires a standard 13 amp earthed socket.
- If the mains lead is damaged it should be replaced by the manufacturer, their agent or a qualified technician to prevent hazard.
- The light ring on the boiling-water tap will light up to indicate when the water is being heated inside the tank.
- The Q-shaped button on top of the tank is the on/off switch.



### 1. Connecting tank

Put the Quooker tank into position and connect the hoses. The hoses have compression fittings and therefore do not need any gaskets. Connect the tap hose with the washer to the fitting on the top of the tank.

### 2. Electrical connection

Connect the boiling-water tap by plugging the LED cable into the hole provided at the back of the tank cover. Connect the tank to the socket. Switch the socket on but not the tank yet.

### 3. Filling tank

Open the boiling-water tap and the stop valve on the inlet combination. Check for leaks. Flush the tank through until the water is clear. Black water will flow out initially. This is Norit carbon from the filter and completely harmless.

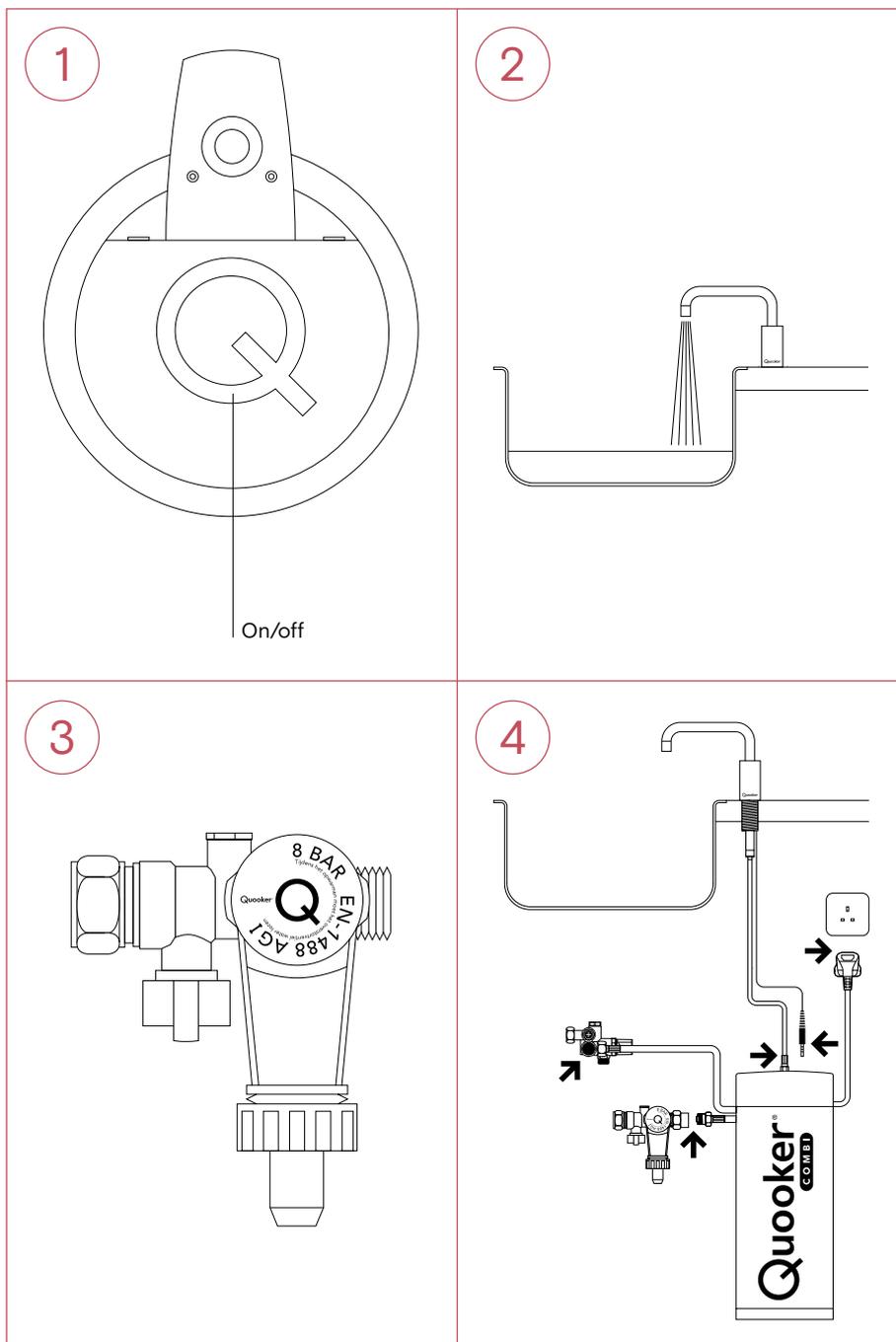
### 4. Switching on tank

Switch on the Quooker. After the water has heated up, the entire content of the Quooker must be flushed out once before use.

# F

## Disconnecting tank

- In case of service.



### 1. Switching off

Press the on/off switch at the top of the tank to switch it off. Do not unplug the tank from the socket yet.

### 2. Draining

Open the boiling-water handle of the tap and leave the water running until it is cold. Then close the tap again. Note: At first, the water is very hot.

### 3. Isolating

Close the main shut-off valve or the stop valve on the inlet combination (small grey knob). Check that the Quooker is depressurized by opening the Nordic single tap or the boiling-water handle of the Fusion or Flex tap again. If it is depressurized, no water should flow out of it.

### 4. Disconnecting

Unplug the tank from the socket and the LED cable from the back of the tank cover. Disconnect the tap and inlet hoses and remove the tank. Drain the tank into the sink via the hoses.

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