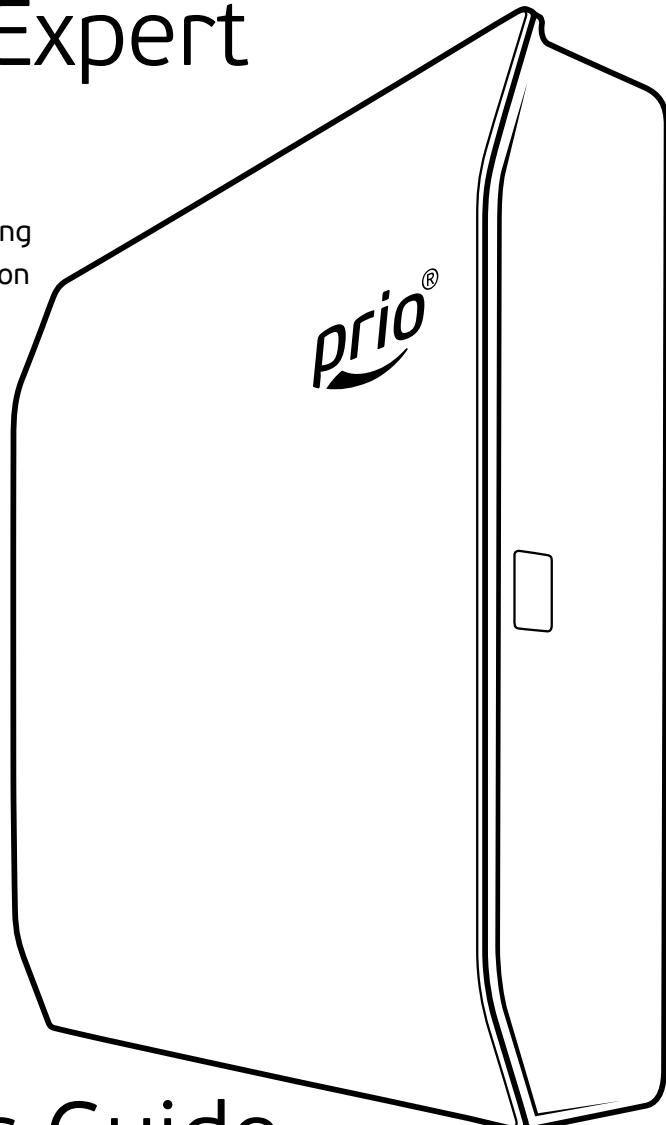




Prio[®] Expert

M400

Under-sink (PoU)
Multi-stage Drinking
Water Ultrafiltration
Slim System



User's Guide

Before operating this appliance, please read the instructions carefully. You may want to save this guide for your future reference. Failure to follow the instructions or meet the operating requirements may lead to the product's failure, malfunction, property damage or personal injury.



Safety Warning

- Do not place the storage tank near the sources of heat, radiators, etc.
- Keep the appliance out of reach of pets or other animals.
- Do not use the appliance if operating requirements such as water temperature/water pressure/electrical supply, etc. are not met. There may be other local regulations to comply with.
- Do not use the appliance with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.
- Do not use the waste water produced by the appliance for drinking or cooking.
- Never store or operate the appliance in direct sunlight.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- At the end of its life, the appliance should be disposed off in an appropriate manner.



Disposal

Old appliances still contain many recyclable materials. Therefore, please take used unit to your retailer or recycling center so that it can be recycled.

Description

Congratulations on your purchase of the Prio® Expert filtration system! With proper installation and maintenance, it will provide you with high quality drinking water for many years.

This system significantly reduces or removes dirt, sand, sediment and most harmful substances such as heavy metals, chlorine, microplastics, pollen, protists and other contaminants, improves water taste and odor.

Please familiarize yourself with the general concept behind the product and main modes of operation.

Key Features:

- Clean and safe drinking water right at your sink. No need to transport and dispose of bottled water anymore.
- High-quality multi-stage filtration.
- Factory-preinstalled filters for faster and easier setup.
- Quick-change filters for easy regular maintenance.
- Compact and beautiful slim design.
- Quick fittings for easy tube connections and change of filters.

Multi-stage Filtration:

Your system may include up to 4 filter cartridges installed out of ones listed below providing advanced multi-stage water filtration for most needs and ultimate customer's satisfaction.

- 5-micron Sediment Poly Block Pre-filter.
- Coconut Carbon Block Pre-filter.
- Coconut Granular Activated Carbon.
- KDF® 55 Catalytic Filtration Media.
- Schungite Natural Mineral.
- Ultrafiltration Hollow Fiber Membrane.



Specification

Operating Requirements:

- Minimum supply water pressure: 20 psi (0.14 MPa).
- Maximum supply water pressure: 116 psi (0.8 MPa).
- Minimum water temperature: 41°F (5°C).
- Optimal water temperature: 59-77 °F (15-25°C).
- Maximum water temperature: 95°F (35°C) / up to 105°F (40.5°C) short-term.
- Ambient air temperature: 41–105°F (5-40.5°C).
- Water source: tap water supply, chlorinated or non-chlorinated, bacteriologically safe.
- Supply water pH range: 4.0-11.0.
- Supply water turbidity: < 1 NTU.
- Recommended filtered water production rate: 34-68 fl oz/min. (1-2 l/min.).
- Indoor use only.
- Tubing: ¼".

Weight and Size:

Size (WDH), excluding protrusions: 13.46 x 3.35 x 14.80" (342 x 85 x 376 mm).

Weight, without water and tubing: 7.5 lbs (3.4 kg).

Warranty:

1 year worldwide limited warranty (+ local regulations if applicable).

Package Contents:

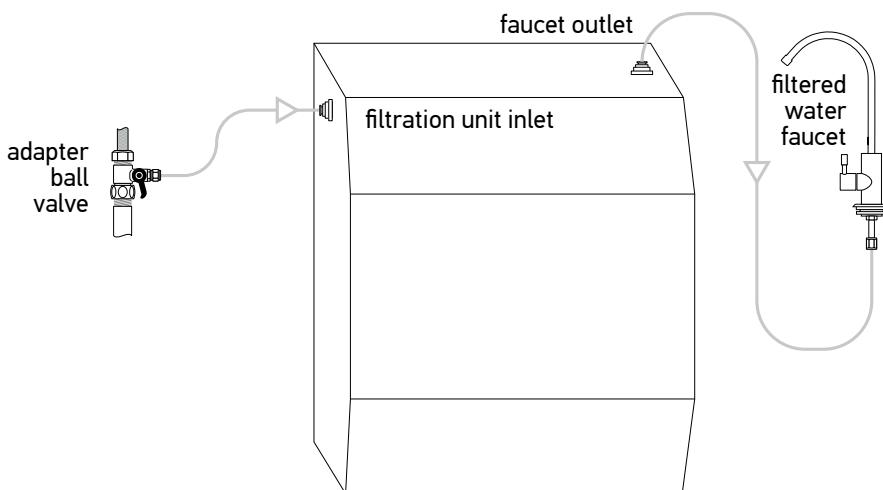
- (1) Multi-stage filtration unit with installed filters
- (1) Universal worldwide adapter ball valve (G1/2" - G3/8" - UNEF 9/16"-24 - JG 1/4")
- (1) Teflon tape roll
- (1) Faucet
- (1) Wrench
- (13 ft/ 4 m) Water tubing ¼"
- User's guide

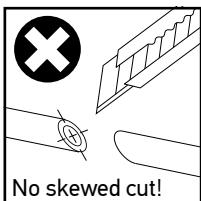
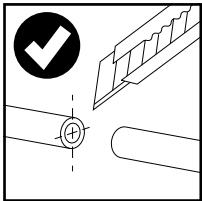
Installation

Notes:

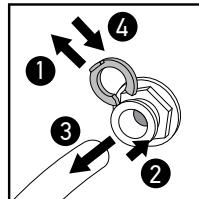
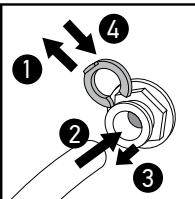
1. Shut off the cold water supply under the sink or the location where the system will be installed. If the existing valve is inoperable, the water supply to the house must be shut off. Then, relieve the water pressure by opening the cold water tap. Do not connect the system to hot water source.
2. Depending on your plumbing system and sink/countertop type you may need to use tools like variable speed drill, drill bits, screw driver, wrench, etc. You may want to ask a professional service provider such as certified plumber to install the inlet valve adapter, faucet, and drain saddle to assure a trouble-free setup.
3. During installation you will need to cut the supplied $\frac{1}{4}$ " tubing into segments as needed. Use your utility knife for that or similar tool. See the following charts to determine the connection scheme and length of hoses necessary. You may need to purchase extra tubing for far-reaching or other corner case installations.
4. With initial operation, check for leaks. If a leak is observed, verify that the tubing is pushed into the quick fitting far enough to seal the tubing against the O-ring and that the tubing was cut at 90° .

General Connection Chart





IMPORTANT: Cut Tubing At 90° to Ensure a Watertight Seal:



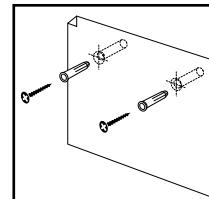
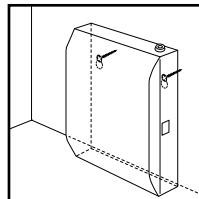
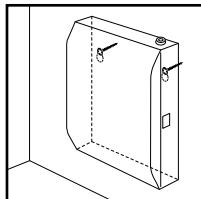
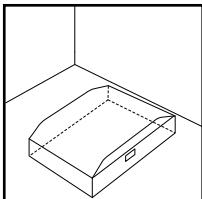
To Connect the Tubing to a Fitting:

1. Remove the lock if present (not present in self-locking fittings).
2. Push. Insert the tube firmly until full stop.
3. Pull the collet back slightly.
4. Replace the lock (if present).

To Disconnect the Tubing:

1. Remove the lock if present (not present in self-locking fittings).
2. Push the collet **and hold**.
3. Pull the tubing out.
4. Replace the lock (if present).

Placement Guide:

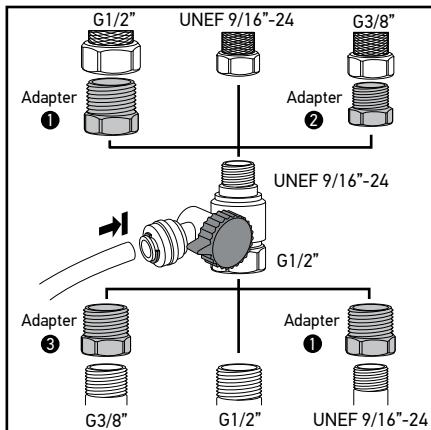


Remember this unit must be serviced at regular intervals. Therefore it should be reasonably accessible (for changing filters, etc.).

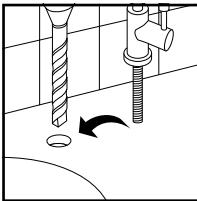
Installation Steps:

1. Install adapter ball valve (included) to the cold water supply.

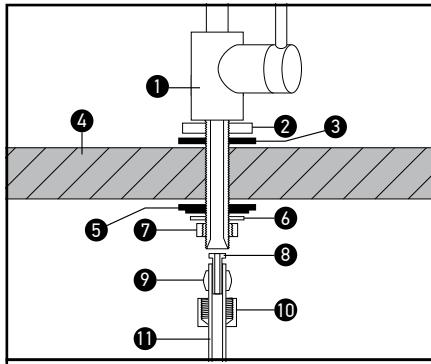
Use some Teflon or plumbers sealing tape to prevent leaks. Use three included threaded adapters to make different connection configurations (see chart for details).



2. Create $\frac{1}{2}$ " hole for the filtered water faucet and install it.

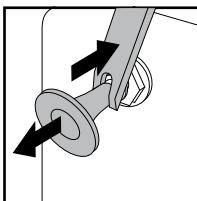


Tip: If you have a soap dispenser or a water sprayer in an existing hole you may remove it and use its hole for the filtered water faucet.



1. Faucet
2. Chrome washer
3. Black rubber washer
4. Countertop or sink deck
5. Black washer
6. Lock washer
7. Lock nut
8. Insert
9. Sleeve
10. Compression nut
11. Tubing

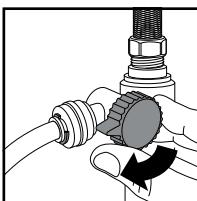
3. Remove gags and connect tubes as follows. See the General Connection Chart for details.



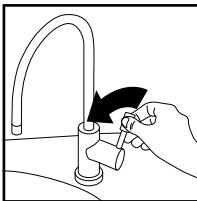
- Insert water supply tubing from inlet valve adapter into the "inlet" fitting of the filtration unit.
- Insert filtered water tubing from the "faucet" outlet fitting of the filtration unit into the faucet using insert, sleeve and compression nut. See faucet installation chart for details.

Initial Washing:

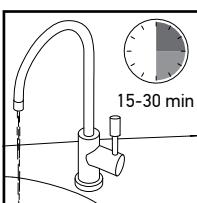
After installation it is recommended to perform the initial washing of the system. For this:



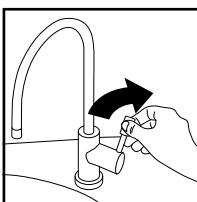
- open cold water supply valve
- open the inlet valve



- open the filtered water faucet



- wait for water to arrive at the faucet (it may take a while, especially first time, water foam and air may be going out of the system); wait for 15-30 minutes for more or less steady flow from the faucet.



- shut off the faucet
- your system is ready for use.

Note: To ensure best filtration you may need to adjust the opening of the inlet valve so that filtered water flow from the fully opened faucet would not exceed 34-68 fl oz/min. (1-2 l/min.).

Regular Use

To get clean and safe drinking water just open the filtered water faucet.

Tips:

You may install the optional union tee fitting to the tubing line prior to the filtered water faucet to get another line of clean water going to the other point-of-use (such as a sink in a bathroom or ice maker in your fridge).

Changing Filters

This multi-stage filtration system contains the replaceable components critical to the efficiency of the system. Replacement of component should be with one of identical specifications, as defined by the manufacturer, to assure the same efficiency and contaminant reduction performance.

To reduce the risk of water leakage or flooding and to ensure optimal system performance:

- Change the disposable filters every 6-12 months or sooner if you observe a noticeable reduction in water production rate.

Please note the capacity of the filters is limited. Their service life depends on the degree of contamination of the water supply and system usage. All terms apply to normal household use. Actual performance may vary. You may need to change filters sooner than indicated if you notice chlorine or other tastes or smells, etc.

Replacement Filters:

- K871 (5 µm Sediment Poly Block Pre-Filter)
- K875 (Coconut Granular Activated Carbon Filter)
- K870 (Coconut Carbon Block Pre-Filter)
- K878 (Ultrafiltration Membrane Element)

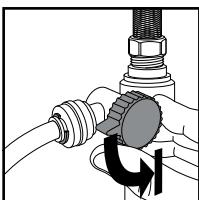
Optional filters which can also be used instead of K871 / K875:

- K874 (5 µm Sediment and Coconut Granular Activated Carbon Pre-Filter)
- K872 (Coconut Granular Activated Carbon and KDF®55 Pre-Filter)
- K873 (Granular Activated Carbon with Schungite Natural Mineral Filter)

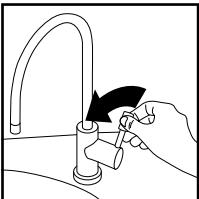
Note: K875 and K870 may be interchanged and placed third and second respectively.

To prevent leakage or cracks and ensure the safety of operation and top performance do not disassemble the filters or try to regenerate them.

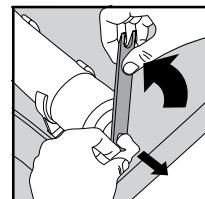
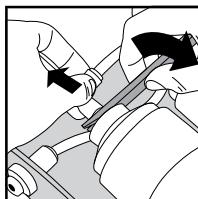
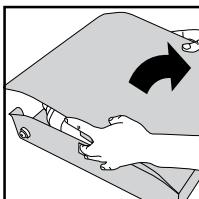
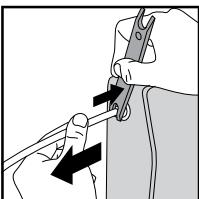
To change filters:



- shut-off the inlet valve

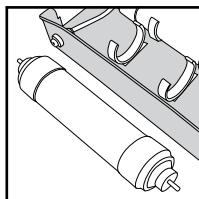
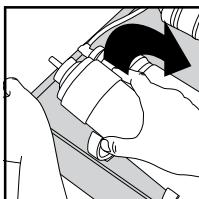


- relieve the water pressure by opening the filtered water faucet



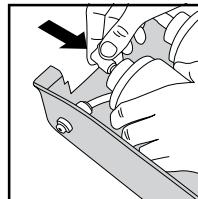
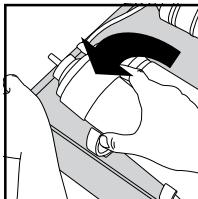
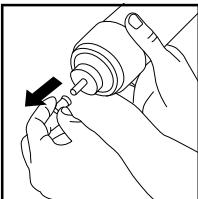
- remove the filtration unit from its place for easier access (disconnect external tubes if necessary) and open the unit's cover

- locate the filter to be changed, disconnect its inlet and outlet fittings and remove it

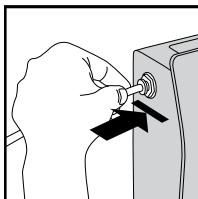
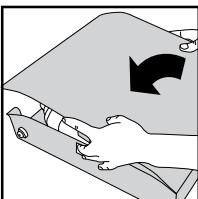


Note: Remove and change back one filter at a time, one after another. Do not remove all filters at once to avoid mixing up the tubes.

- take new filter and install it in the place of the removed one observing the water flow direction arrow on its label and restoring the connections (see the internal connections chart for details)

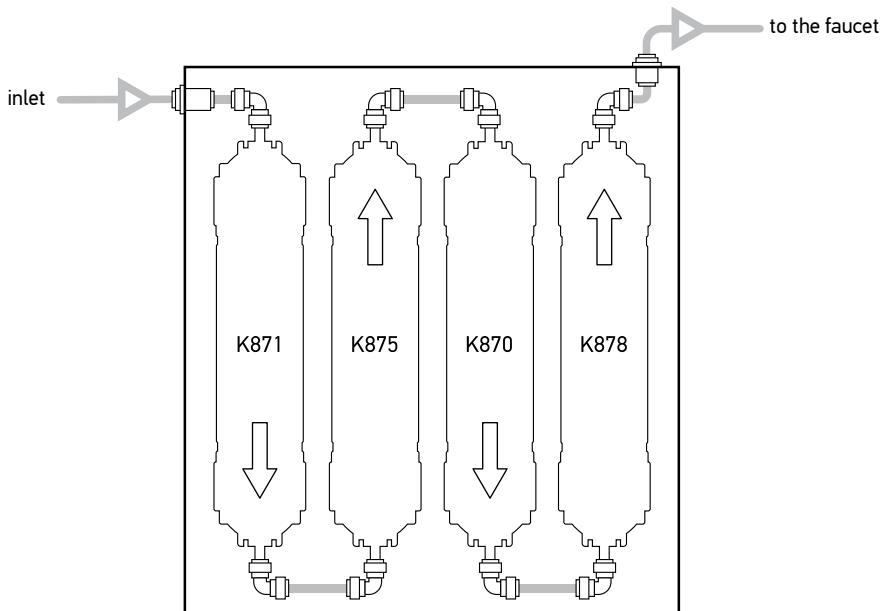


- close the cover, reconnect the external tubes and place the unit back in its place



After you finished changing filters follow the „initial washing” procedure described above. With initial operation, check for leaks. If a leak is observed, verify that the tube or branch pipe of the filter housing is pushed into the quick fitting far enough to seal the tube against the O-ring and that the tubing was cut at 90°.

Filtration Unit Internal Connections Chart



Prio, Prio logo are the trademarks of DWT Deutsche Wassertechnologien GmbH, Germany.
As used herein, ® denotes registered trademark status in Germany only.