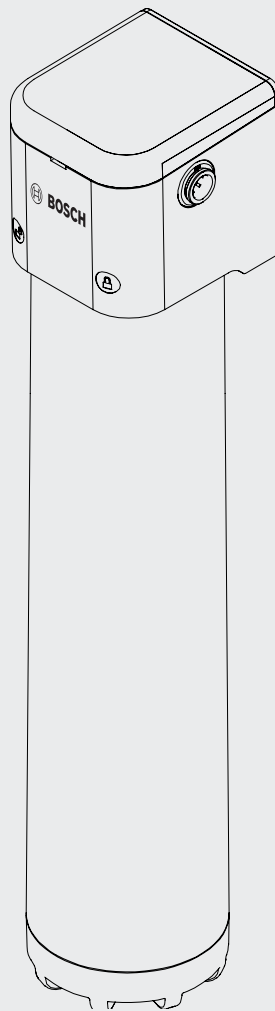




BOSCH

Installation and Operating Instructions

Direct Connect Water Filtration System **Water Filtration 1000**



BTC 756003302 A | 01.2026



Table of Contents

1	Key to Symbols and Safety Instructions	4
1.1	Key to Symbols	4
1.2	Safety Warnings	4
2	Package Contents	5
3	Specifications	6
4	Dimensions	6
5	Clearances	7
6	Installation	8
6.1	Preparing for Installation	8
6.2	Filter Installation	9
7	Maintenance	11
7.1	Filter Replacement	11
8	Troubleshooting	13
9	Spare Parts	14

1 Key to Symbols and Safety Instructions

1.1 Key to Symbols

Warnings

In warnings, signal words at the beginning of a warning are used to indicate the type and seriousness of the ensuing risk if measures for minimizing danger are not taken.

The following keywords are defined and can be used in this document:



DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death

or serious injury.



WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in

death or serious injury.



CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in

minor to moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

Important information



The info symbol indicates important information where there is no risk to people or property.

1.2 Safety Warnings

Read this Manual BEFORE using this equipment!

This will not only familiarize you with the system, but it will help you determine the best location for installation whether under a sink or in a remote location. Helpful diagrams follow. Keep this manual for future reference.



The TLH-TLCB1CLMPH4 has been certified by IAPMO R&T to NSF/ANSI/CAN 372 for low lead compliance and to NSF/ANSI 42, NSF/ANSI 53 and NSF/ANSI 401 for the reduction of substances listed in the performance data sheet as substantiated and verified by test data.



WARNING

Personal injury!

The system is not intended to be used for treating water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

Systems certified for cyst reduction may be used on disinfected waters that may contain filterable cysts.

The compounds certified under NSF/ANSI 401 have been deemed as 'incidental contaminants / emerging compounds'. Incidental contaminants are those compounds that have been detected in drinking water supplies at trace levels. While occurring at only trace levels, these compounds can affect the public acceptance/perception of drinking water quality.

NOTICE

Property damage!

Because of the product's limited-service life and to prevent costly repairs or possible water damage from leaks or flooding, the filter manifold **MUST** be replaced every five years, and the filters **MUST** be replaced as specified. If the product has been in use for longer than the specified service life, it **MUST** be replaced immediately. Add installation date to cartridge label to keep track of required replacement date. Failure to follow these instructions can result in the product leaking or cracking, flooding, and property damage.

NOTICE

Product damage!

Using an approved or certified professional to install the system is recommended. Proper installation is the responsibility of the owner. Product failure or property damage due to improper installation is not covered under the warranty.

NOTICE

Product damage, property damage!

The system must be protected from freezing. Failure to do so may result in cracking, water leakage, flooding, and property damage.

2 Package Contents

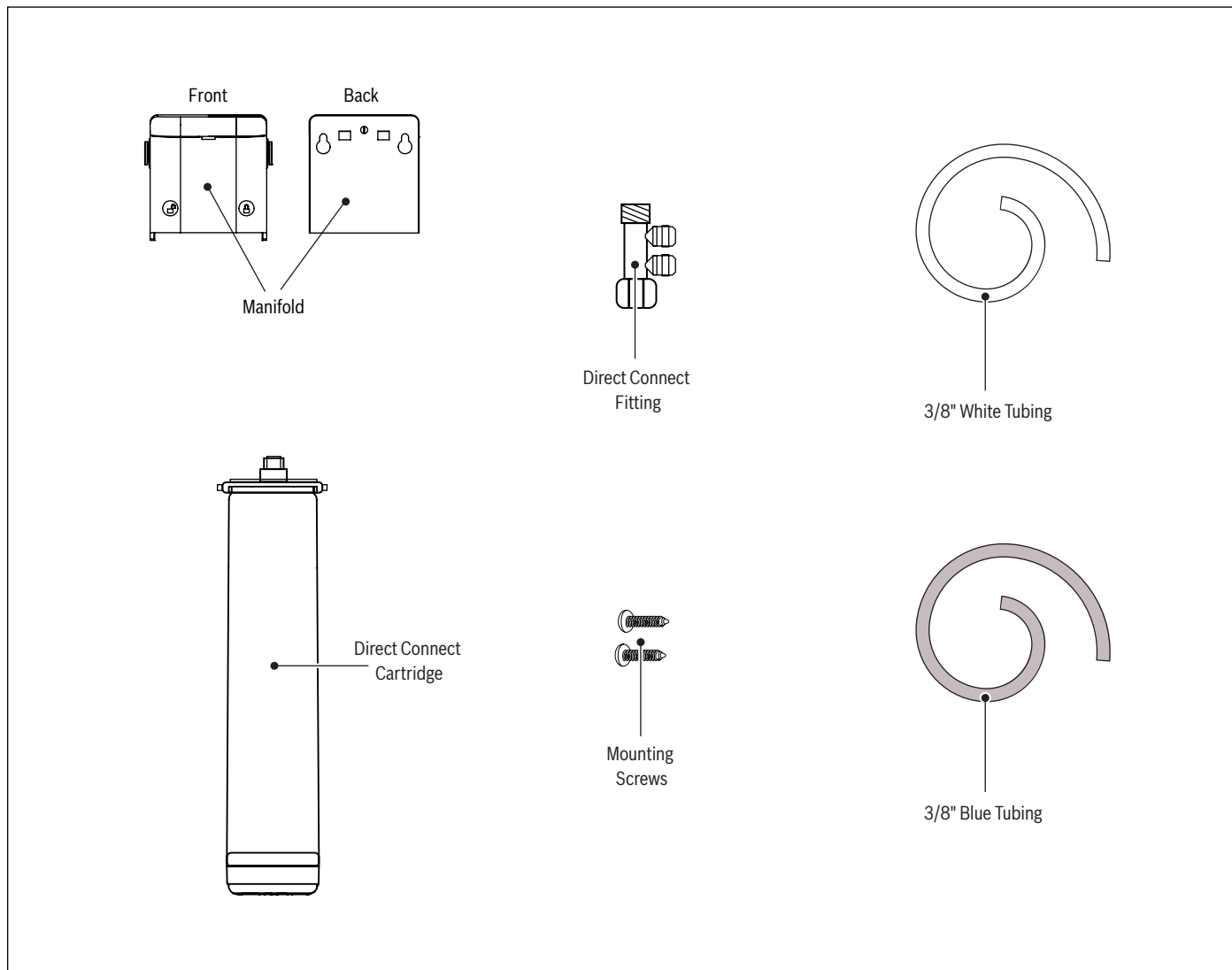


Figure 1

3 Specifications

Description	Maximum	Minimum
Operating Temperatures	100°F (37.8°C)	40°F (4.4°C)
Operating Pressure	80 psi	40 psi
pH Parameters	11	2
Maximum Flow Rate (GPM)	1.5 gpm	
Filter Life Expectancy Total Capacity	750 gallons	

Table 1

4 Dimensions

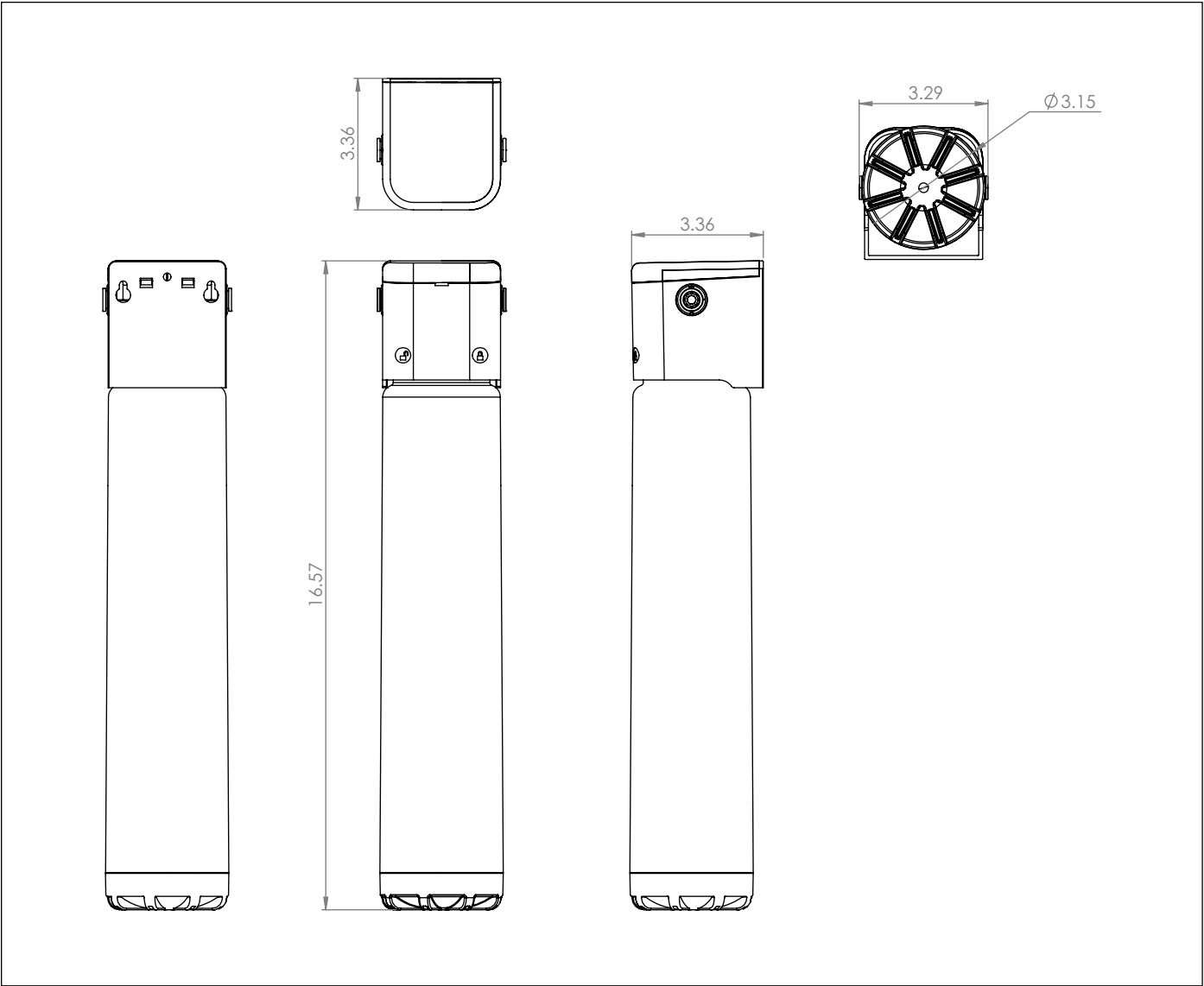


Figure 2 Dimensions in inches

5 Clearances

The following clearances are recommended for filter installation and replacement.

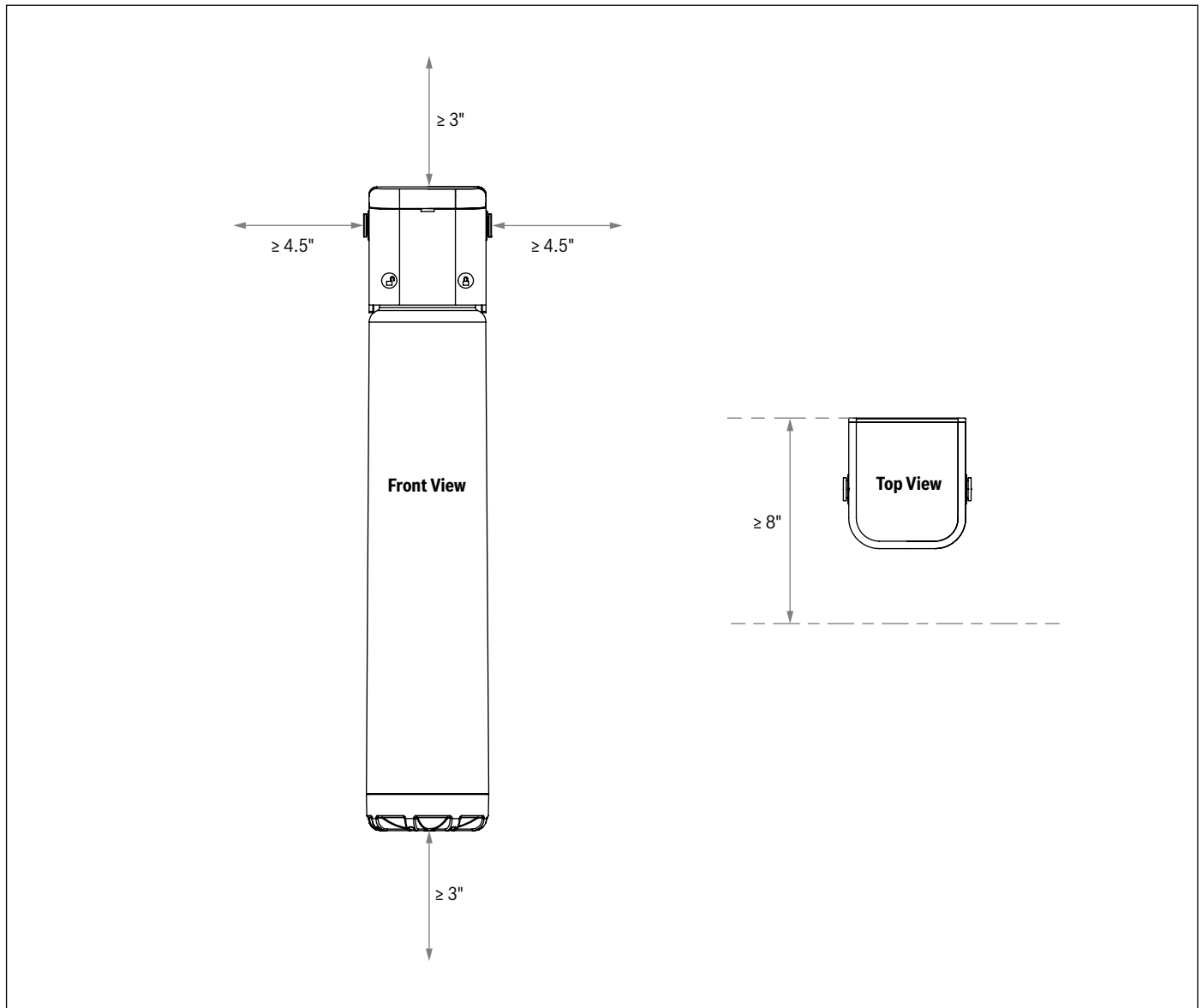


Figure 3

6 Installation

Precautions



For cold water use only. DO NOT use on hot water line.



CAUTION

Personal injury!

Please wear safety glasses to protect eyes when drilling.

NOTICE

Product damage, property damage!

Filter system must be protected against freezing temperatures, frost, snow, sleet and ice. Exposure to these elements can cause cracks and product failures.



Turn off water supply to manifold and remove the cartridge if it must be left unattended for an extended period of time.

6.1 Preparing for Installation



Consult and comply with all local plumbing codes.

1. Prior to starting, close the cold water shut-off valve.
2. Position on cabinet wall in a space that provides easy access for future filter replacements and is within reach of water supply using tubing provided.
3. If you have anything other than flexible hose under your sink, check to see if you need to purchase special fittings.

Required Tools & Materials

- Phillips head screwdriver
- Tape measure
- Adjustable wrench
- Safety glasses
- Utility knife
- Pencil
- Optional: A Drill with 1/8" drill bit
- Pan or bucket

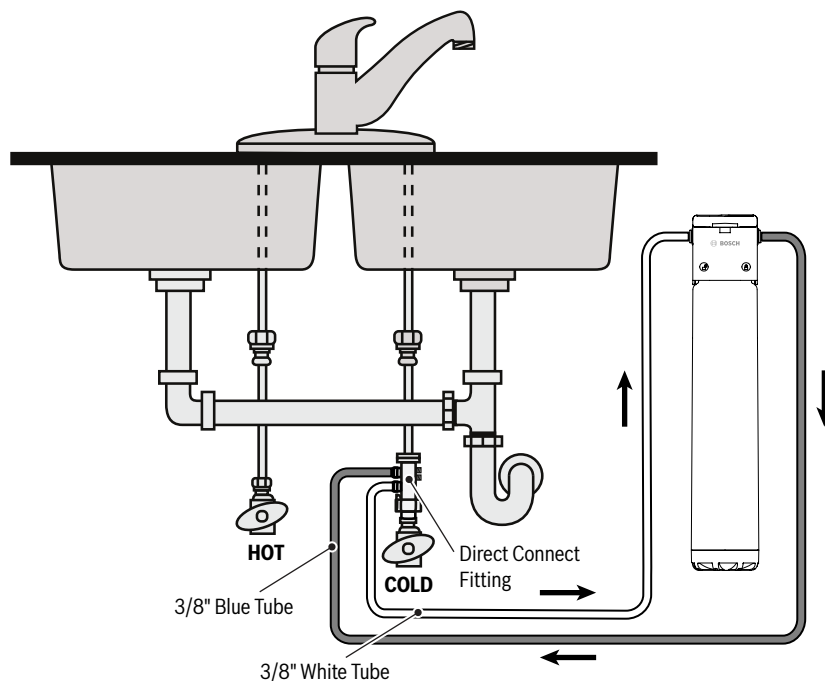


Figure 4 Standard installation

6.2 Filter Installation

1. Turn off the cold water supply line. Then turn on the kitchen faucet and allow water to drain from line.

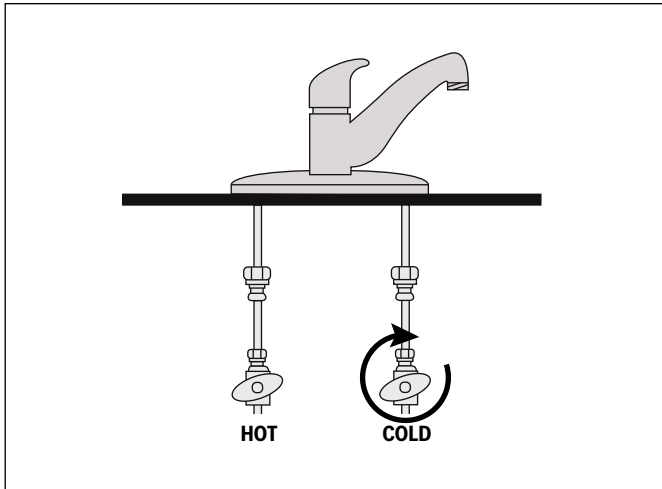


Figure 5

2. Disconnect the cold water faucet supply line from the cold water supply angle stop.

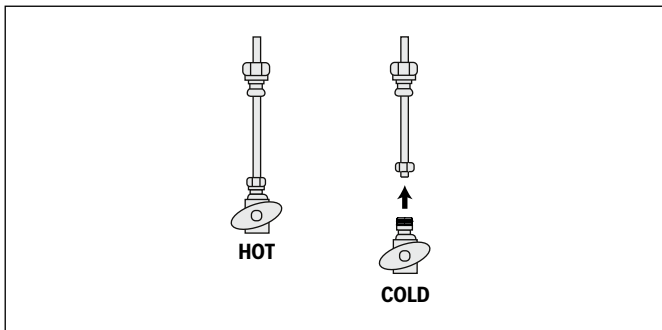


Figure 6

3. Connect the Direct Connect Fitting to the cold water supply angle stop as shown. Connect the cold water faucet supply line onto the top of the Direct Connect Fitting. With an adjustable wrench, tighten the adapters until secure.



Do not over tighten or strip threads as leaking may occur.

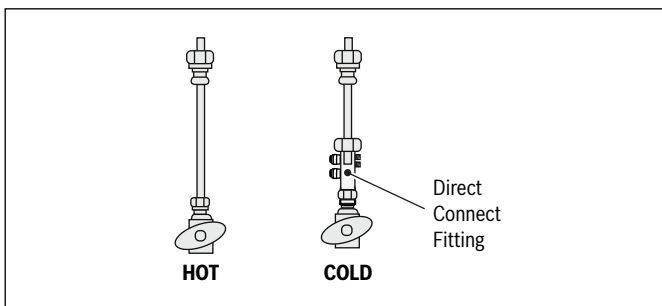


Figure 7

4. Choose an easy-to-access area under the sink to mount the filter system.



Allow a 3" clearance below the system to allow space for cartridge replacements. The filter system must be mounted in a vertical position and the manifold should be mounted on a stud or firm surface. If a solid surface is not available, use hollow-wall anchor bolts or toggle bolts (not included) to secure to the wall. Please be advised that the filter can stand freely if mounting is not an option, but be sure it remains in a vertical upright position.

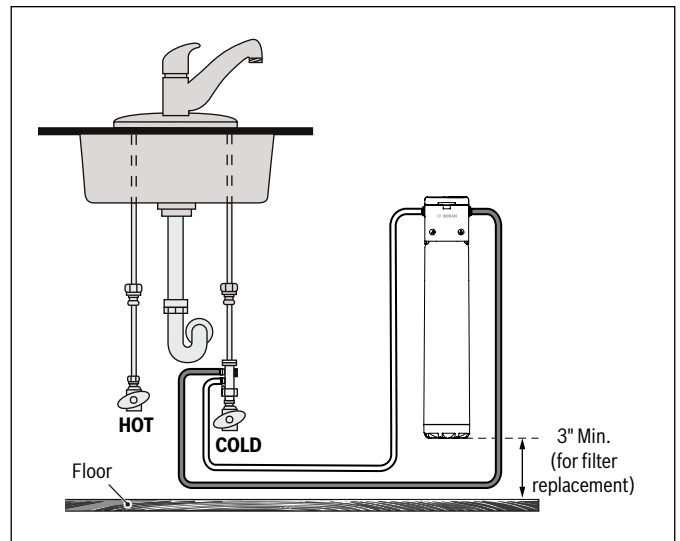


Figure 8

5. Open the lid of the manifold and position the manifold on the wall and mark the two mounting hole locations. Drill a 1/8" pilot hole at each mark. Install the mounting screws, leaving approximately 1/4" exposed. Align the keyhole slots on the back of the manifold with the screws and slide it down securely into place.

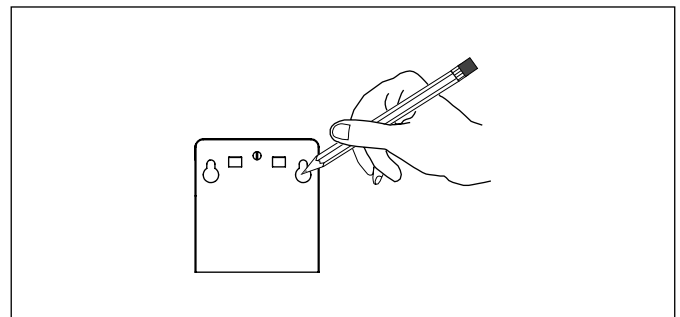


Figure 9

6. Determine lengths of 3/8" tubing needed to connect the manifold inlet (white collet/tubing) and outlet (blue collet/tubing) to the water supply adapter (reference image left for inlet (white collet) and outlet (blue collet) location). Be sure to allow enough tubing to prevent kinking in the line. If necessary, cut each 3/8" plastic tubing squarely on both ends with a utility knife, making sure not to crimp the tubing during cutting. Make sure tube edges are even and smooth. Refer to below figure for inlet and outlet location.

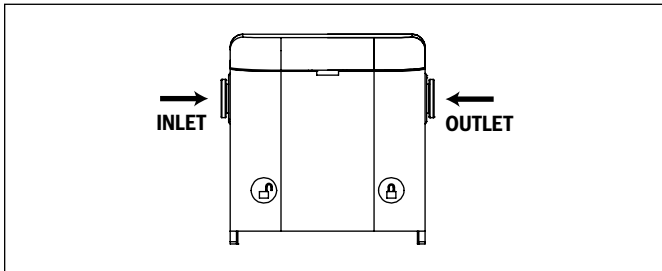


Figure 10

7. Insert the 3/8" white tubing into the white inlet port/collet of the manifold approximately 5/8" until it stops. Connect the other end of the tubing to the bottom inlet side of the Direct Connect Fitting adapter. Repeat same process with outlet side (3/8" blue tubing and blue outlet port/collet).

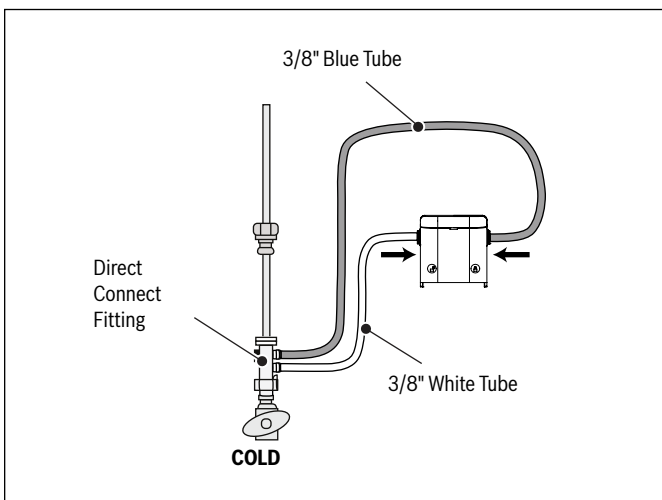


Figure 11

8. Align the two tabs on the top of the filter cartridge with the openings in the manifold. Push the cartridge firmly upward into the manifold until it is fully seated. Turn the cartridge clockwise (to the right) until it stops and is in the locked position. The filter should feel tight and have no movement.

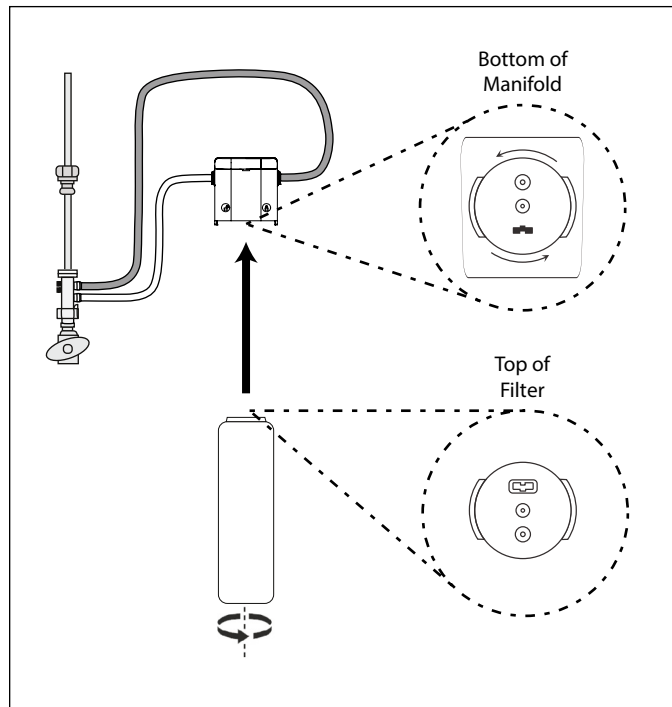


Figure 12

9. Turn on the cold water supply. Check for leaks. Turn on faucet and allow water to run for 5 minutes to flush air and carbon fines (very fine black powder). Check for leaks again before leaving installation. If problems exist, refer to "8 Troubleshooting" on page 13.

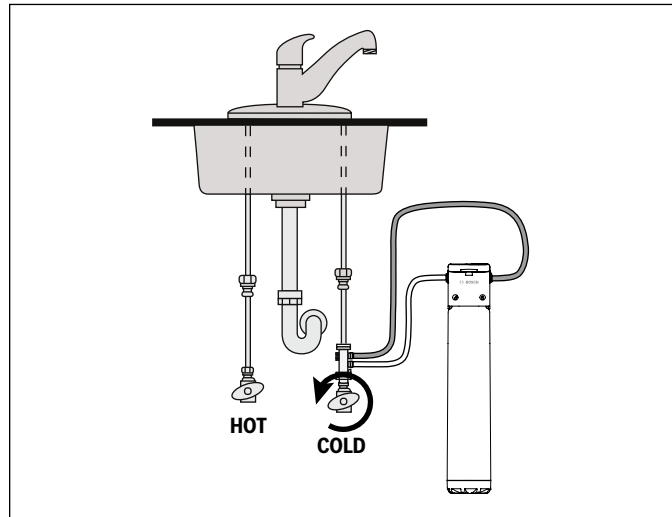


Figure 13

7 Maintenance

Recommended filter replacement frequency is 6 months, and it depends on the quality of incoming water as well as water usage. If you notice a change in taste, appearance, or reduction in water pressure, it may be time to change the cartridge.

Cartridge part number: 7738007512 (model: TLCB1CLMPH4)

- After prolonged periods of non-use (such as vacation), it is recommended that the system be flushed thoroughly. Let water run 5-6 minutes before using.
- The filters recommended for use with this system carry a limited service life. Changes in taste, odor, color and/or flow of the water being filtered indicate that the cartridge should be replaced.



Routine maintenance and filter replacement will not require that you disconnect the tubing from the manifold. If necessary, tubing may be easily removed from the fitting. First turn off the water supply to the filter. Open the kitchen faucet to release water pressure. Using your fingers, press in the collet/port, holding it firmly against the fitting. With your other hand, pull the tubing out of the collet/port, away from the head assembly. See figure below.

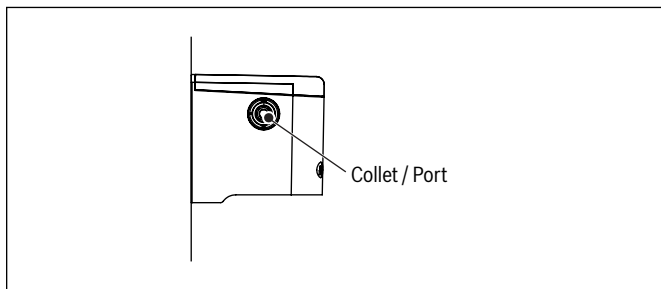


Figure 14

7.1 Filter Replacement



Preparing for filter removal, use a small pan, large bowl or towel to catch potential water dripping from pressurized water in filter system.

1. Turn off incoming water supply from the cold water supply line.

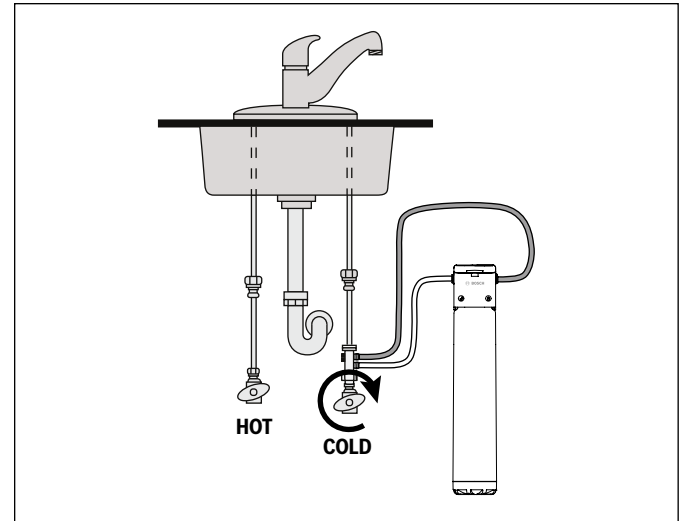


Figure 15

2. Drain the excess cold water from the faucet supply line.
 - a. Turn the cold water faucet on (opening cold water flow) until no more water comes out.
 - b. Turn off the faucet.

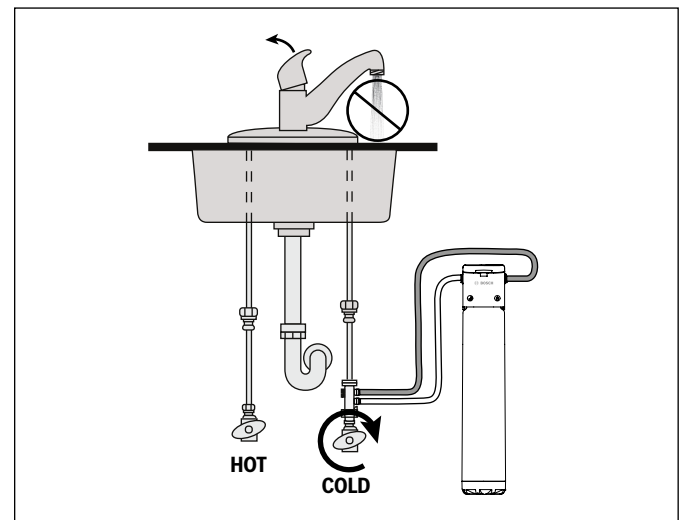


Figure 16

3. Remove the filter from the manifold.
 - a. Turn the filter body one quarter turn to the left until it stops and pull filter straight down.
 - b. Discard used/old filter.

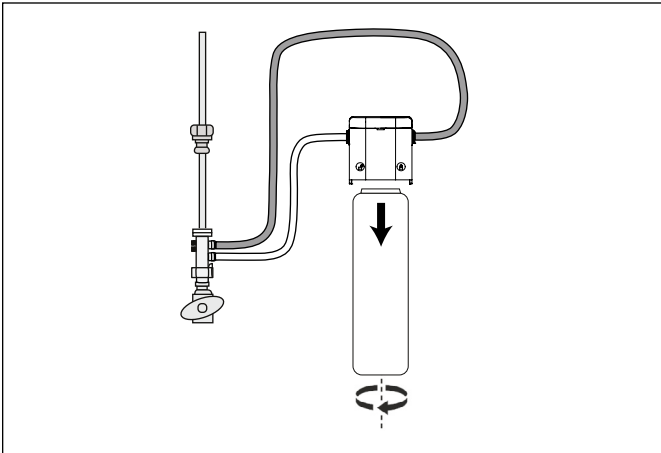


Figure 17

4. Align the two tabs on the top of the filter cartridge with the openings in the manifold. Push the cartridge firmly upward into the manifold until it is fully seated. Turn the cartridge clockwise (to the right) until it stops and is in the locked position. The filter should feel tight and have no movement.

NOTICE**Property damage!**

Make sure there is no debris on the filter ports or in the manifold ports when inserting the filter into the head, as it will not seal properly. Repeat step 4 until it is inserted with a proper seal.

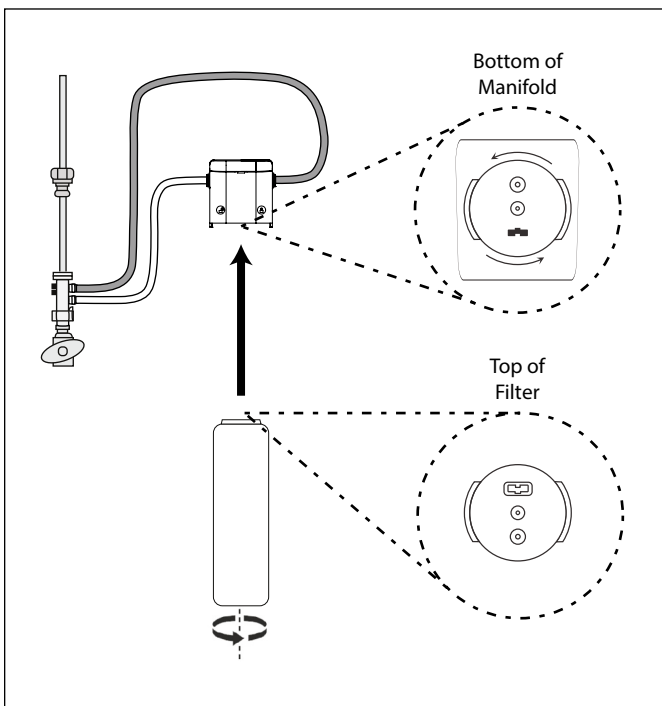


Figure 18

5. Turn on the incoming water supply from the cold water supply line.
 - a. Turn the cold water faucet on SLOWLY (opening cold water flow) until water comes out smoothly.
 - b. Run water for 5 minutes to flush air and carbon fines from filter.
 - c. Turn off the faucet.

NOTICE**Property damage!**

Be sure to check system for leaks immediately after installation or filter replacement, and periodically throughout the day to ensure there is not an installation or filter replacement concern.

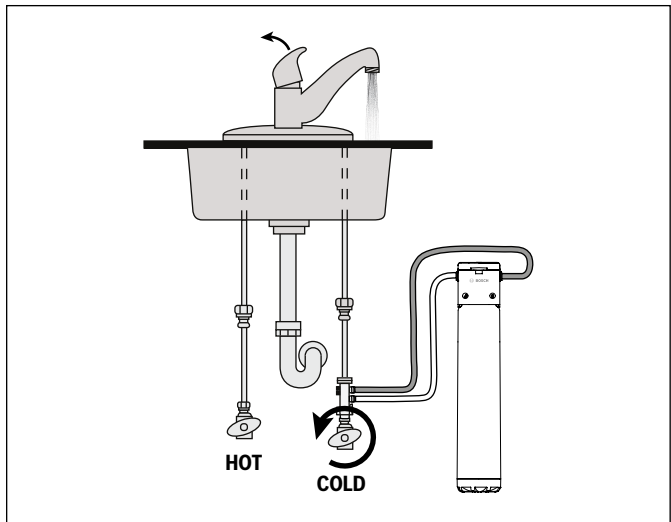


Figure 19

8 Troubleshooting

Leaks Between the Manifold and Cartridge:

1. Turn off water supply to the filter system and dispense water from kitchen faucet until water and airflow stops.
2. Remove filter and inspect o-rings to make sure they are in place and clean.
3. Install filter making sure the filter is pushed all the way into the head and turned all the way into the locked position.
4. Turn on the water supply and check for leaks.

Leaks Around the Fittings:

1. Turn off the water supply to the filter system to relieve pressure.
2. While pressing the collet firmly against its inlet/outlet port of the direct connect fitting or manifold on the inlet/outlet port using your fingers, use your other hand to pull the 3/8" plastic tube straight out of the inlet/outlet collet/port.
3. Check the inlet/outlet ports and 3/8" tubing to make sure that all is clear of debris.
4. Check the 3/8" tubing to make sure the end is evenly cut (flat), free of scratches or jagged edges, and is not crimped.
5. If any of the above damage to the 3/8" tube exists, use a utility knife or tube cutters to evenly cut the damaged tubing off.
6. Re-install the 3/8" tubing into the inlet/outlet collet/port of the direct connect fitting or manifold.
7. Turn the water supply to the system back on and check for leaks.

Flow Rate Decrease:

1. Incoming water temperature
2. Total dissolved solids (TDS) present in supply water
3. Incoming water pressure
 - Lower temperatures are directly proportional to slower flow rate.
 - Incoming water temperature should not exceed 100°F.
 - The Direct Connect System should also not be installed in a location susceptible to freezing.
 - High TDS levels shorten the filter's lifespan. Incoming TDS should not exceed 1000 ppm. If you see flow rate decrease, it may be time to change your filters.
 - Higher water pressure enables a higher flow rate.
 - Pressure must be above 40 psi for proper system operation. You may consider installing a permeate pump or booster pump if your pressure is below 40 psi.
 - Check to make sure that none of the tubing is twisted or kinked.

Change in Taste or Appearance:

1. If water starts to taste differently, chlorine taste emerges, or appears to be cloudy, it may be time to change the filters.
2. If the water looks cloudy, it could be because there is air in the system. Let the system run for five minutes to purge the air out, and check again.

Online Help Resources

Alternatively, please visit our Service & Support webpage to find FAQs, videos, service bulletins, and more; www.bosch-homecomfort.us/service or use your cellphone to scan the code below.

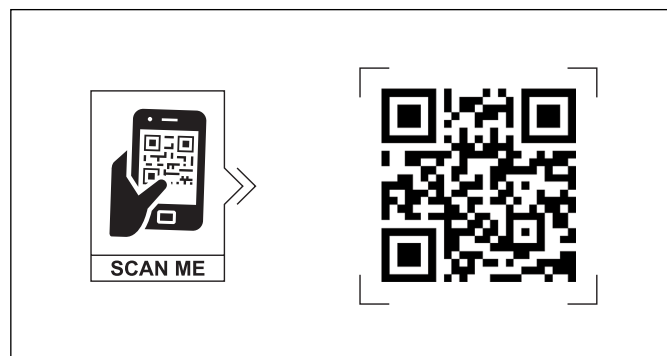


Figure 20

9 Spare Parts

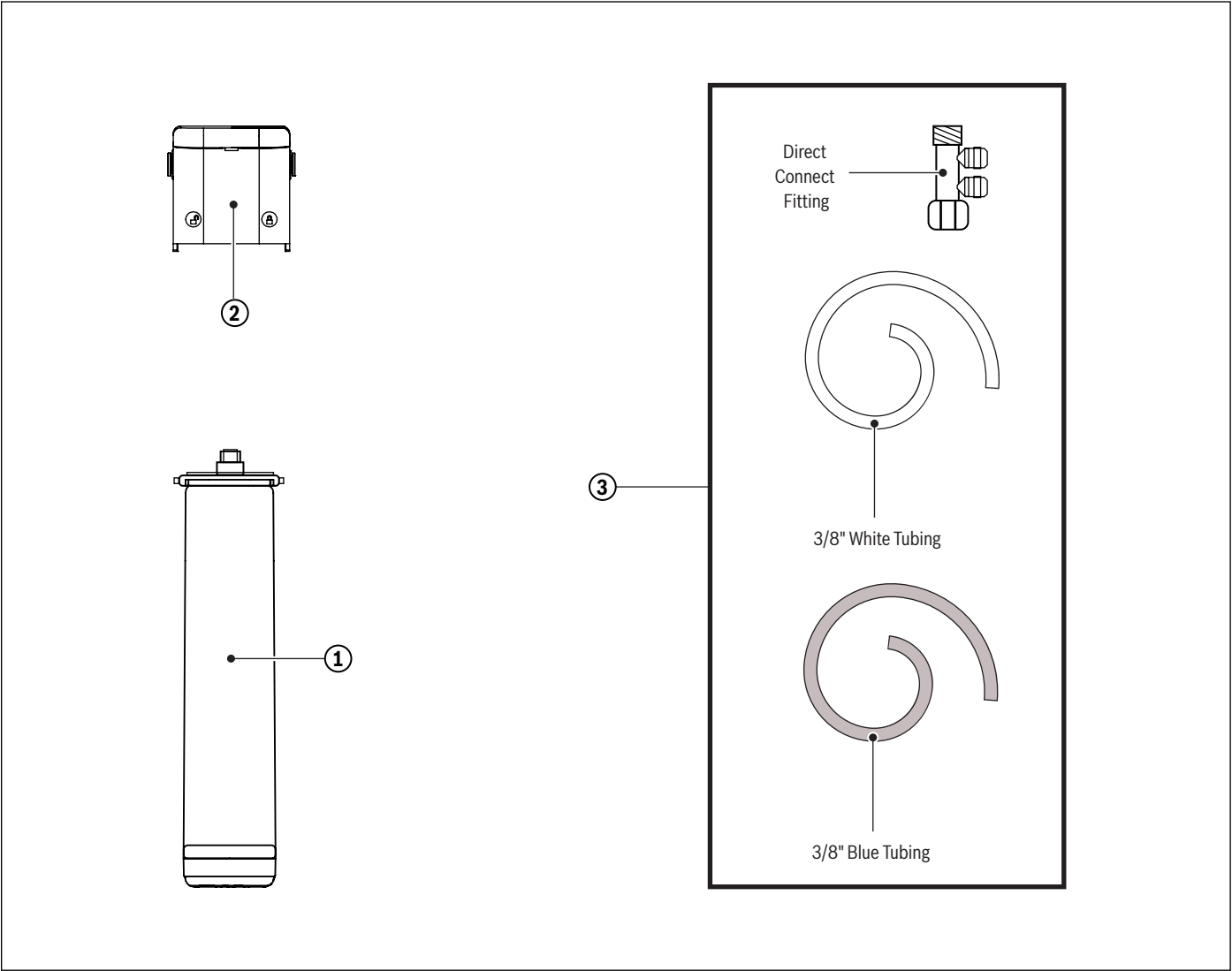


Figure 21

Pos.	Part Number	Description
1	7738007512	Water Filtration 1000 Cartridge
2	7738007518	Water Filtration 1000 Manifold
3	7738007519	Water Filtration 1000 Connection Kit

Table 2

NOTES:

Manufactured for Bosch by Paragon Water Systems, Inc.

**United States and Canada
Bosch Thermotechnology Corp.
65 Grove St.
Watertown, MA 02472**

**Tel: 800-283-3787
www.bosch-homecomfort.us**

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