

## Installation Quick View

### KoolerMax Model AR-122

(PHOTO SHOWN ARE NOT TO SCALE)

Choose ONE of two options:  
option1: Garden Hose adapter  
OR  
option 2: Feed Water adapter

Water supply  
Garden/Laundry Hose  
Adapter

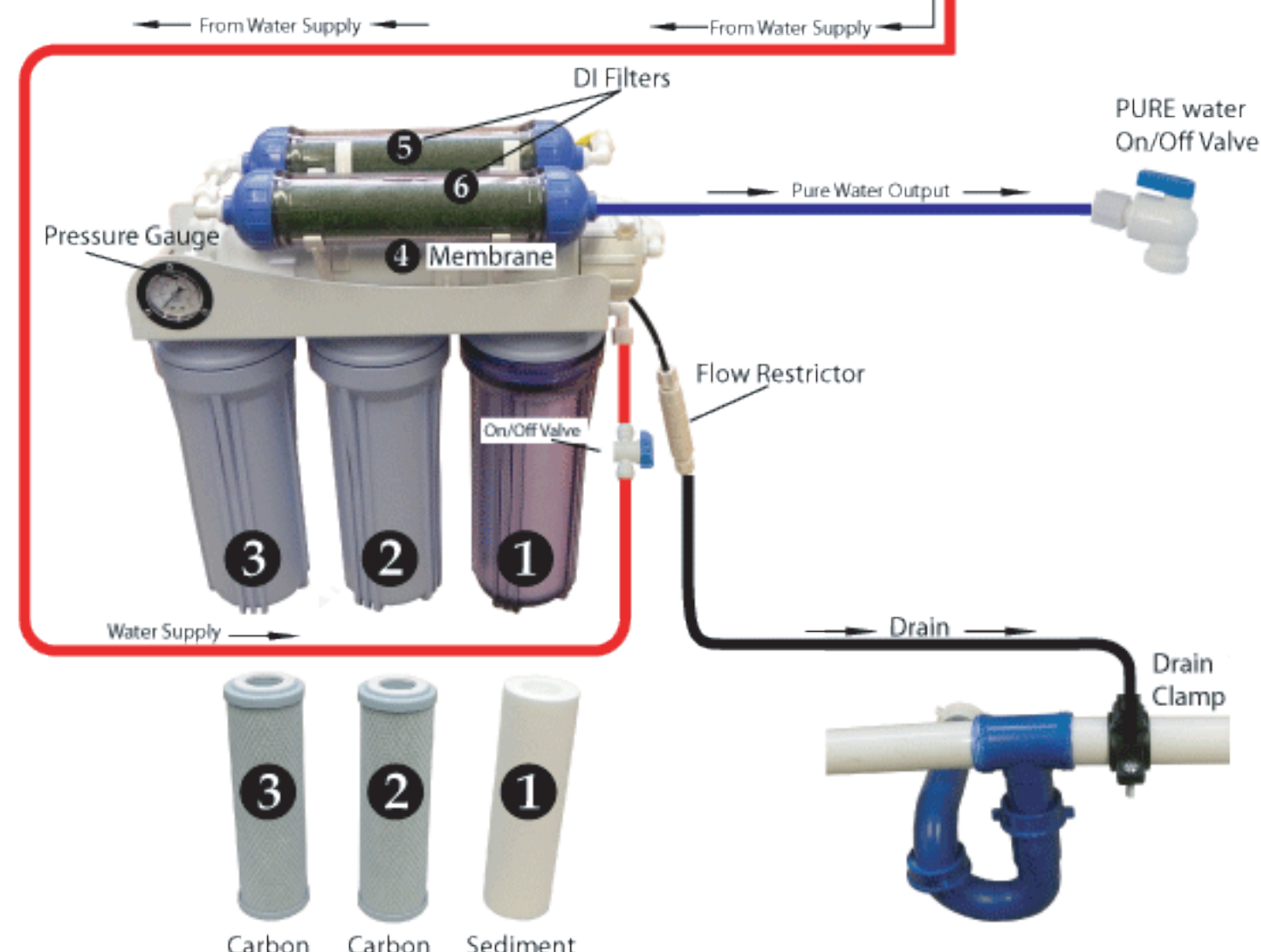


OPTION 1:

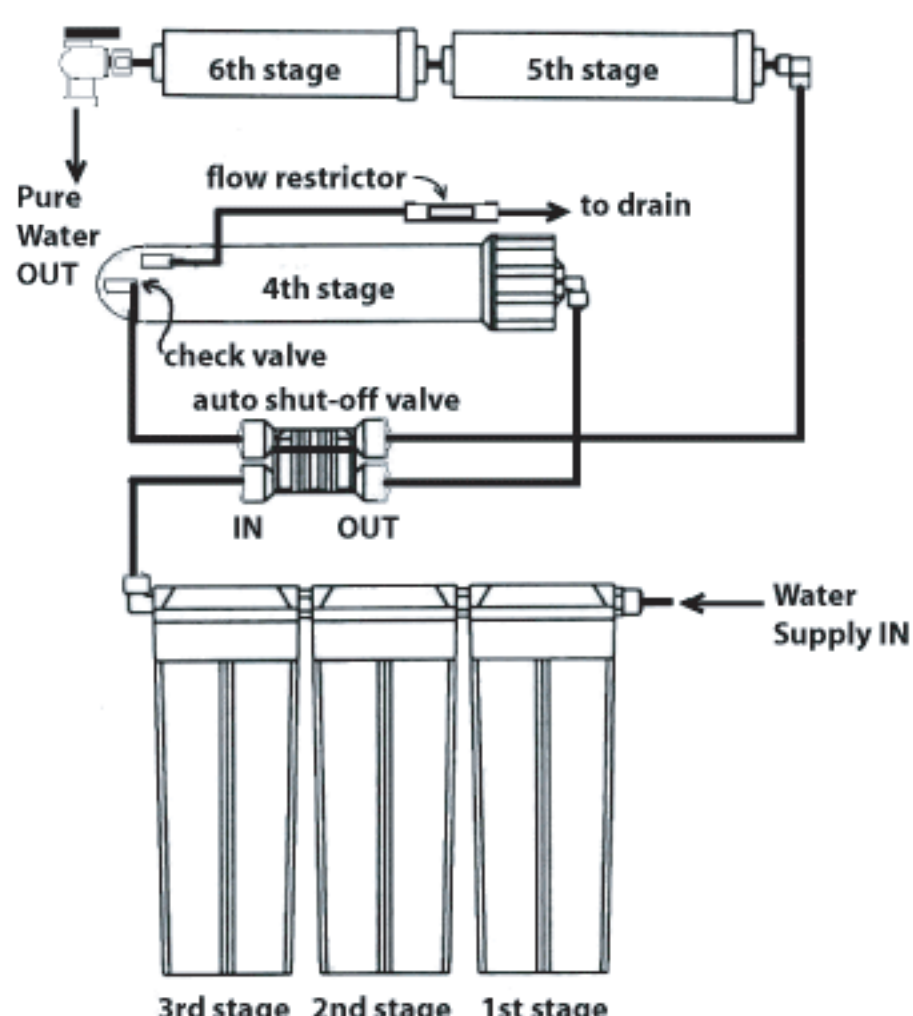
Water supply  
Feed Water  
Adapter  
Under-Sink



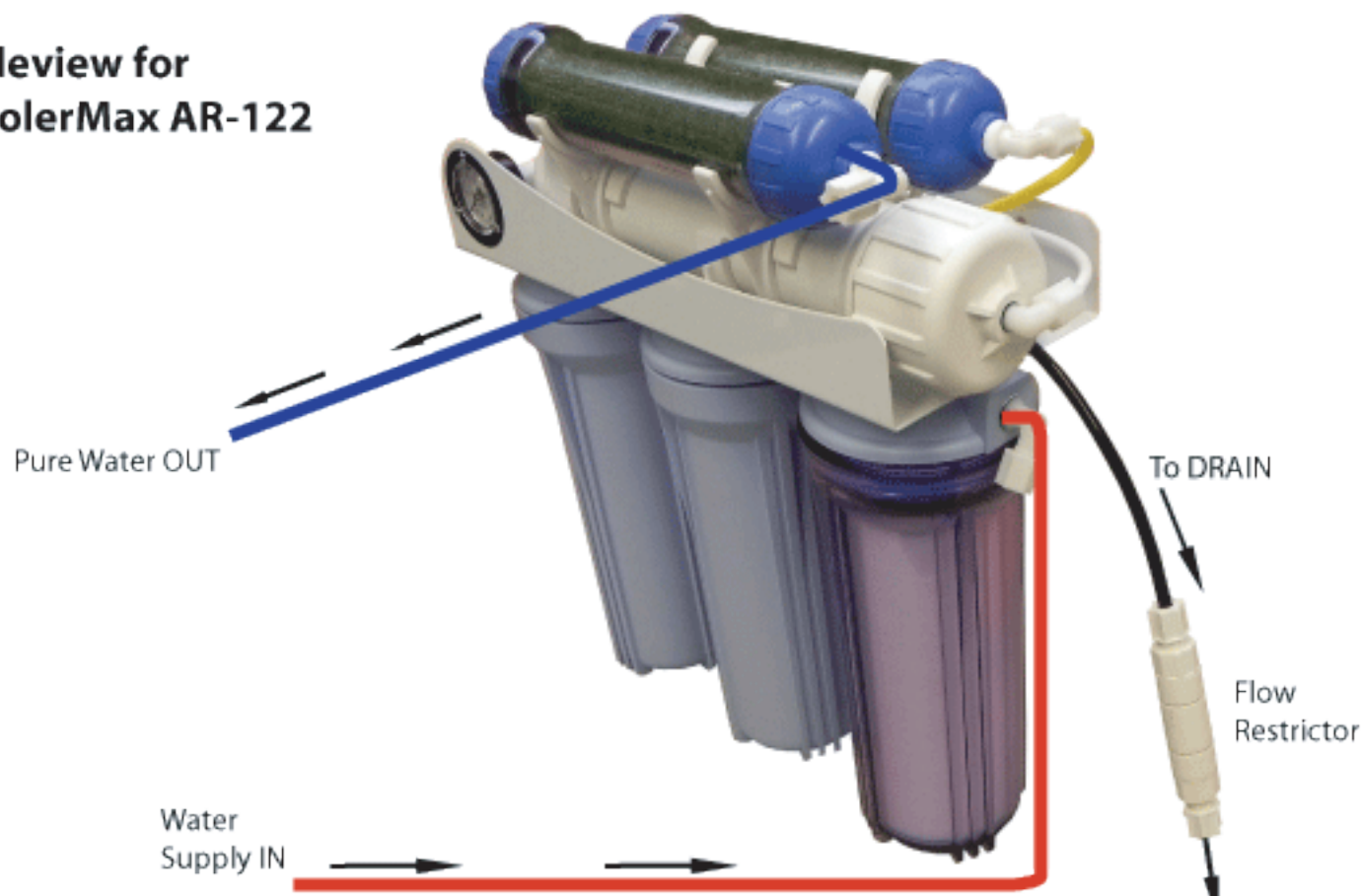
OPTION 2:



## Flow Diagram for KoolerMax AR-122



## Sideview for KoolerMax AR-122



## PRODUCT SPECIFICATION

### Koolermax 6-Stage Reverse Osmosis Water Purification Systems (single output)

Model no: AR-122

Capacity: Generates 80 to 120 gallons per day depends on water temperature, pressure, chemistry variations)

### System includes

- RO unit: 6-stage unit, all filters included.
- Hardware: feed water adapter, tubing, drain saddle clamp, on/off valve
- Installation & Service manual

### System Requirements

- Working pressure: 40 to 80 psi feed water pressure required, if below 40 psi, a booster pump is needed. We have a RO system with built-in booster pump assembly. If the input pressure is above 80 psi, you MUST put a pressure regulator to reduce the pressure below 80 psi. (We do supply the optional pressure regulator)
- Working temperature: 100 ~ 40 deg. F ( 37C ~ 4 deg. C )
- pH range: 4-10
- If feed water has hardness level above 300 ppm, we recommend putting a water softener prior to the RO system.
- If feed water has iron, rust problem, we recommend putting a iron filter prior to the RO system.
- If feed water has bacteria problem, we recommend putting an ultra violet sterilizing system prior to RO system.

### Filter Service Life

- 1<sup>st</sup> Stage Sediment filter: Recommend changing every 6 ~12 months.
- 2<sup>nd</sup> & 3<sup>rd</sup> stage: Carbon block filter: Recommend changing every 6 ~12 months.
- 3<sup>rd</sup> Stage Carbon block filter: Recommend changing every 6 ~12 months.
- 4<sup>th</sup> Stage TFC membrane: Recommend changing every 2~3 years.
- 5<sup>th</sup> 6th Stage Inline DI filter: Recommend refill every 400 to 500 gallons

Replacement filter Part no. SF05  
Replacement filter Part no. C10  
Replacement filter Part no. C10  
Replacement filter Part no. M150  
Refill DI resin bag Part no. 818

### Dimension

- RO unit: Length 15 inch, Width 5 1/2 inch, Height 16 inch

### Warranty

- 1 year Limited Warranty on parts, components. Filters are not under warranty.

### Performance

- Average Rejection rate: 92 to 98% of dissolved solids after RO

### Purification Processes/ Filter specifications

Removes microbiological contaminants like Cysts (protozoan), inorganic/Radiological contaminants like Barium, Cadmium, Copper, Chromium (hexavalent), Chromium (trivalent), Fluoride, Lead, Radium 226/228, Selenium, etc. Ammonia, Arsenic, chloramines, chlorine, copper, lead, nitrate, phosphate, silica, hardness, calcium, magnesium, other dissolved solids.

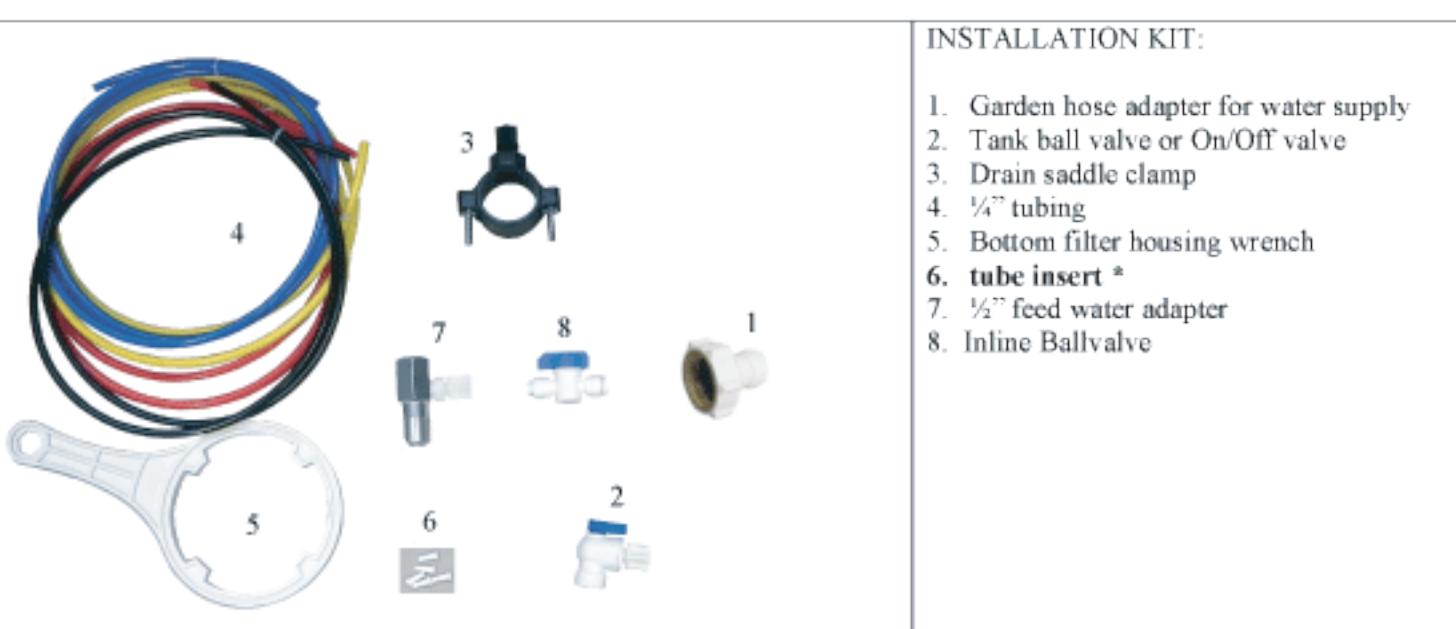
- 1<sup>st</sup> stage: 5 micron sediment filter, 3" x 9 7/8" height, made by 100% pure polypropylene fibers
- 2<sup>nd</sup> & 3<sup>rd</sup> stage: carbon filter, 3" x 9 3/4" height, composed of high-performance coconut shell carbon.
- 4<sup>th</sup> stage: TFC type membrane, 120-150 GPD, 1 3/4" x 11 3/4" long
- 5<sup>th</sup> 6th stage: Inline DI filter, further reduce the mineral content after RO process, 2" x 10"

Thank you for choosing Koolermax Reverse Osmosis Water Systems. You now own a superb Reverse Osmosis (RO) system that effectively reducing most contaminants, organic and inorganic compound, unwanted taste and odor from tap water. It is designed to transform your tap water into good tasting water.

Read carefully and follow the instruction in this manual before proceeding with actual installation. Failure to do so could result in personal injury or damage to the equipment or other properties. Be sure to follow any special plumbing codes in your area.

### CHECK LIST:

1. Reverse Osmosis Unit
2. Installation kit consists tank ball valve, drain saddle valve, feed water adapter, tubing, tube inserts.
3. Installation manual



### INSTALLATION KIT:

1. Garden hose adapter for water supply
2. Tank ball valve or On/Off valve
3. Drain saddle clamp
4. 1/4" tubing
5. Bottom filter housing wrench
6. tube insert \*
7. 1/2" feed water adapter
8. Inline Ballvalve

\* NOTE: Item #6 tube inserts are not required in the installation, but you can put them in three places; (1) tubing connection at 1<sup>st</sup> stage filter, (2) tubing connection at tank ball valve, (3) tubing connection at dispensing faucet.

### RECOMMENDED TOOLS LIST

Variable speed drill	1/8" 1/4", 7/16", 1/2", and 5/8" drill bit
5/8, 9/16 open-end wrench, or adjustable wrench, pliers	Phillips screwdriver
Utility knife, or scissor	Teflon tape

### OPERATING PARAMETER

- Working pressure: 40 to 80 psi feed water pressure required. If input pressure is below 40 psi, a booster pump or a permeate pump is required. We do carry RO systems with built-in pumps, and we also carry booster pumps. If the input water pressure is above 80 psi (you must use a pressure regulator to step down the pressure). We also carry small pressure regulators just for the RO systems.
- Working temperature: 100 ~ 40 deg. F ( 37 ~ 4 deg. C )
- If feed water has hardness level above 300 ppm, we recommend putting a water softener prior to the RO system.
- If feed water has iron, rust problem, we recommend putting an iron filter prior to the RO system.
- If feed water has bacteria problem, we recommend putting an ultra violet sterilizing system prior to RO system.

**WARNING:** Do not use this RO+DI system alone to treat water with bacteria problem or water source with unknown quality.

**WARNING:** Do not connect the system to HOT water supply.

**WARNING:** Incorrect installation will VOID the warranty.

**WARNING:** Input pressure must not exceed 80 psi. Pressure regulator must be installed to reduce pressure.