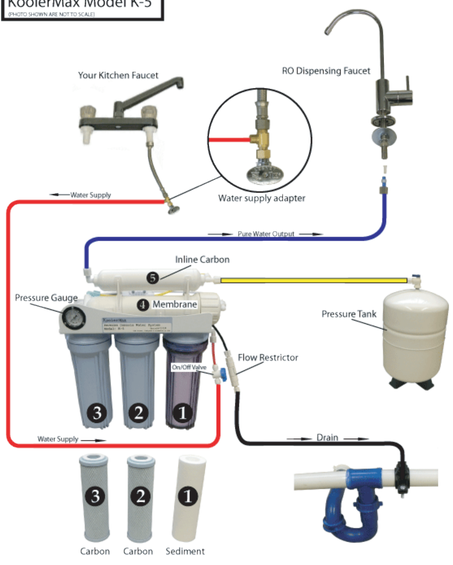
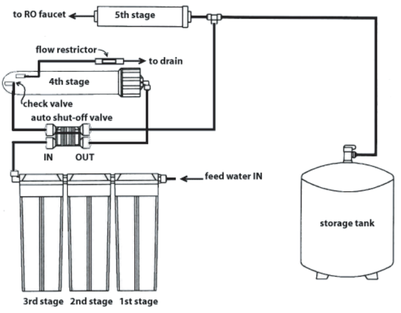
Installation Quick
KoolerMax Model K-5

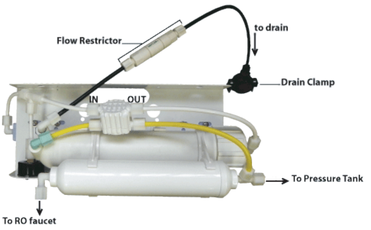
(PHOTO SHOWN ARE NOT TO SCALE)



Flow Diagram for KoolerMax K-5



TOP VIEW

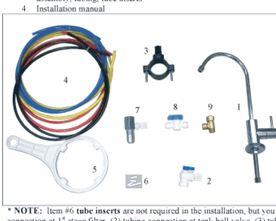


Thank you for choosing Koolermax Reverse Osmosis Water Systems. You now own a superb Reverse Osmosis (RO) system that effectively reducing most contaminants, organic and inorganic compound, unwanted taste and odor from tap water. It is designed to transform your tap water into good tasting water.

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. Water storage tank
3. Installation kit consists tank ball valve, drain saddle valve, feed water adapter, feed water needle valve, faucet assembly, tubing, tube inserts
4. Installation manual



INSTALLATION KIT:

1. Chrome dispensing faucet
2. Tank ball valve or On/Off valve
3. Drain saddle clamp
4. ¼" tubing
5. Bottom filter housing wrench
6. **tube insert ***
7. ½" feed water adapter
8. Inline Ball valve
9. 3/8" compression brass adapter

*** NOTE:** Item #6 **tube inserts** are not required in the installation, but you can put them in three places; (1) tubing connection at 1st 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.

PRODUCT SPECIFICATION

Koolermax 5- Stage Reverse Osmosis Water Purification Systems
Model no: K-5
Capacity: Generates 45 to 75 gallons per day depends on water temperature, pressure, chemistry variations)

System includes

- RO unit: 5-stage unit, all filters included.
- Storage Tank: Pressurized tank with pre-charge pressure of 5 to 7 psi., powder coated steel construction with Food Grade butyl water bladder. NSF listed.
- Water Dispensing Faucet: lead-free, long reach goose neck type, polish chrome finish.
- Hardware: feed water adapter, feed water valve, drain saddle valve, tank valve, and screws.
- 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

- 1st Stage Sediment filter: Recommend changing every 6 ~12 months. Replacement filter Part no. SF05
- 2nd Stage Carbon block filter: Recommend changing every 6 ~12 months. Replacement filter Part no. C10
- 3rd Stage Carbon block filter: Recommend changing every 6 ~12 months. Replacement filter Part no. C10
- 4th Stage TFC membrane: Recommend changing every 2~3 years. Replacement filter Part no. M75
- 5th Stage Inline carbon filter: Recommend changing every 6 ~12 months. Replacement filter Part no. IC21

Dimension

- RO unit: Length 15 inch, Width 5 ½ inch, Height 16 inch
- Storage tank: Diameter 9 inch, Height 14 inch, holds 2 gallons
- Faucet: 9 ½ inch above counter top

Warranty

- 1 years 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.

- 1st stage: 5 micron sediment filter, 3" x 9 7/8" height, made by 100% pure polypropylene fibers
- 2nd & 3rd stage: carbon filter, 3" x 9 ¾" height, composed of high-performance coconut shell carbon.
- 4th stage: TFC type membrane, 75 GPD, 1 ¾" x 11 ¾" long
- 5th stage: Inline carbon filter (polishing filter, improves taste): 2" x 10"