

SK-RMP ULTRA - Ring Main Pump Installation & startup guide

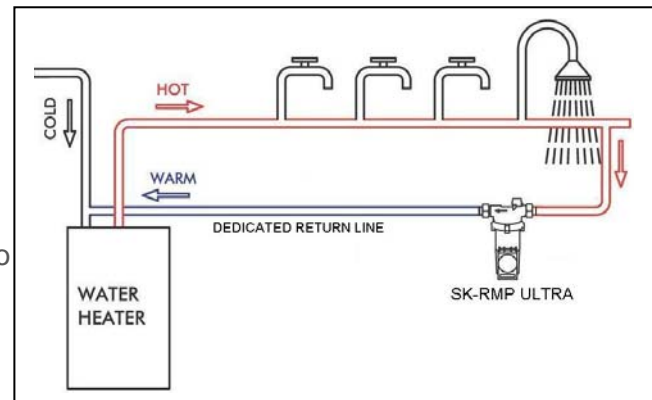
NOTES:

- Install at the furthest extreme from your hot water heater or in the insulated return line. (for easy access, could be under the sink at the furthest from the water heater)
- The return line can be connected to the ringmain return port (if fitted), or the cold water inlet line (tee fitting required)
- For Multiple branched supply lines installations, a recirculation line should be installed for each branch.
- The pump must always be installed below the water level of water heater so that the pump flow is always upward or horizontal, not downward.
Do not mount the pump above the water heater. (also see Fig. 3)
- Your SK-RMP ULTRA incorporates a shut-off valve and check valve in the brass housing, eliminating the need to add these components.
- **Remove the ½" union fittings before soldering to avoid damaging the internal valves.**

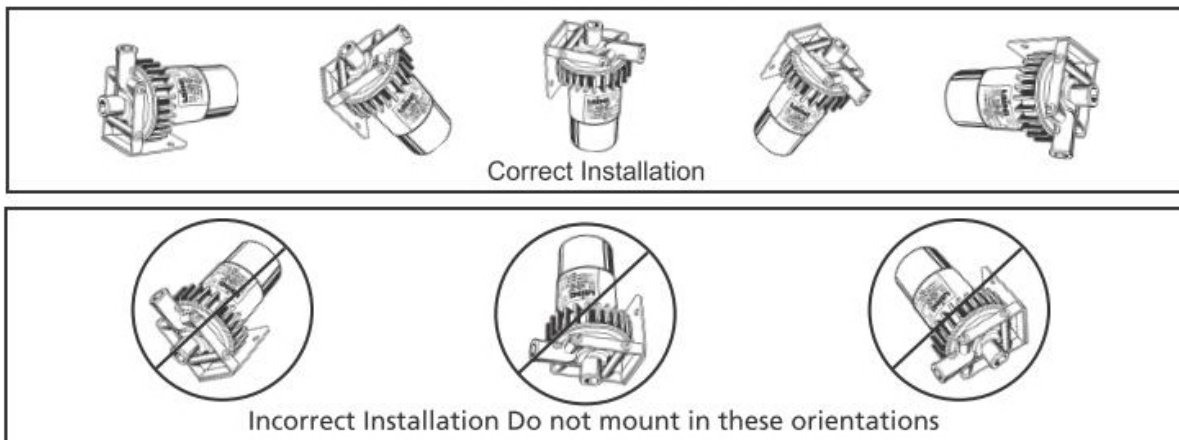


Installation Procedure:

1. Shut off water
2. Drain the plumbing lines by opening taps
3. Drain the water heater to the ringmain port if fitted, or to the bottom if using the cold supply.
4. Tee into the hot supply line as close as possible to the last tap, connect the pump, and run the return line back to the water heater.
5. Install pump and other components. (see diagram, and Pump Mounting Positions – Fig. 3)



Pump Mounting Positions fig. 3



6. **Before operating the pump:** Unscrew the pump housing from the motor (see Fig. 4) and run the pump for a few seconds to ensure operation. Switch off, remove rotor (see Fig. 5) and apply a little water to the bearing for lubrication. Do not use grease or oil.
7. **Close the shut-off valve** on the inlet side of the pump and turn the water supply back on.

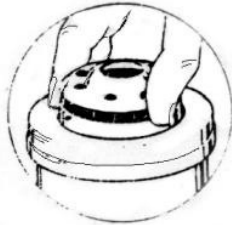
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website: www.skylineenergy.com.au

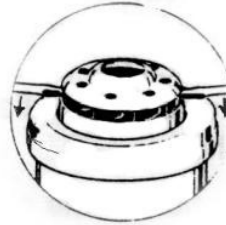
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Fig. 5

Rotor/Impeller Installation: To remove the rotor unit, grasp the top of the unit and gently pull straight up. Do not pull up on one side only or push the rotor sideways. If the rotor sits too tightly, carefully lever it off with a screwdriver on each side of the rotor. When re-installing the rotor, use enough force to hear the rotor “click” on to the ceramic bearing and spin the rotor with your fingers to insure that it turns freely.



Remove the Rotor/Impeller by using forefinger and thumb and pulling upward.



Or, if the Rotor/Impeller cannot be removed using forefinger and thumb, carefully lever off evenly with two screwdrivers.

8. **Flush the system of debris.** Before reattaching the pump motor, open the shut-off valve on the inlet side of the pump housing and let water flow through the housing. (have bucket ready!) Let water run long enough to clear all sand, solder pellets, plumbers tape flakes etc. from the lines. Close the inlet shut-off valve when finished.
9. **Connect the pump motor to the housing.** Make sure the rubber O-ring is in place in the housing and the screw ring is securely hand-tightened. **Reopen the shutoff valves and let water flood the pump housing.**
10. **Purge air from the supply line.** Turn on the tap or shower farthest from the water heater. Open the line until you get a good, steady stream of water without sputter or evidence of air.
11. **Purge air from the return line.** Connect the pump to the electrical supply. With the pump running, open the hose bib and let water run until the pump is running quietly and there is no sputtering or other evidence of air coming from the hose bib. Close the hose bib. Your system is now in operation. Allow a few minutes for instant hot water to recirculate to all of your outlets.
12. If desired, set your timer in accordance with the Timer Controlled Operation Instructions below.

Fig. 4

Remove the motor unit and o-ring from the pump housing into the plumbing line. Do not sweat the housing into the plumbing line with the motor or o-ring attached. Arrows on the pump housing indicate the direction of water flow.



Caution: Only hand tighten the screw ring. Do not over tighten! Do not use plumbers putty on the screw ring.

SAFETY PRECAUTION: Remove the handle from the hose bib to prevent a small child from mistaking it for a cold water tap.

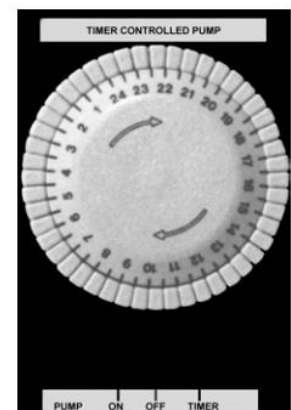
INSULATING: Adequately insulating the entire ring main is strongly recommended, and maybe mandatory in some states.

Timer Controlled Operation Instructions:

The timer may be programmed to allow the pump to operate only during the hours desired. (example: “ON” from 6:00am to 9:00pm, and “OFF” from 9:00pm to 6:00am) as follows:

- Open timer cover and rotate the dial clockwise until the correct time is aligned with the pointer on the right side (3 o'clock position)
- Automatic operation: PULL the tabs upward on timer for the desired operating periods. Note: may be set for multiple time periods.
- Slide the switch bar to ‘timer’.

The timer mode programmed to operate only when hot water is most frequently required, provides the most cost-effective method of operation. (It will still only operate when the built-in thermostat senses that hotter water is required.



1300 552 976

30 Min. Tabs