

# 1 KOOLANCE RP-401X2 Installation Guide v 1.0

The Koolance RP-401X2 is designed for one or two PMP-400 pumps (not included). It mounts into one 5.25" computer drive bays using the included screws.

## Pump Disassembly

The pumps must be disassembled for installation. Remove the four screws on the bottom.



O-ring

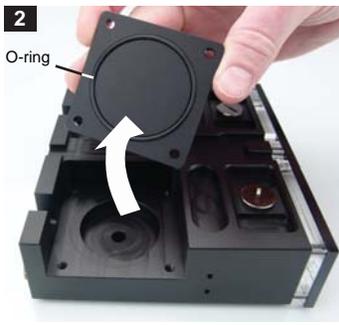
Remove the original pump cover. Make sure the original o-ring stays seated on the pump. This o-ring is required for the RP-401X2.

Original pump o-ring (required)

## Pump Installation



If you need to remove the pump blocker, unscrew its four short screws. This is only necessary when installing two pumps.



O-ring

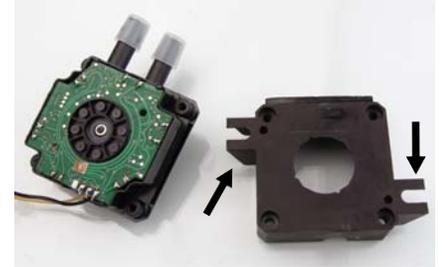
The pump blocker includes its own o-ring. DO NOT USE this if a pump will be installed here. Instead, use the original pump's o-ring.



Place the pump in the desired location and attach with the longer screws included with the RP-401X2. The pump wire must exit the back end of the reservoir.

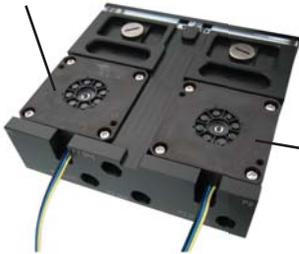


NOTE: If your pump version has feet on the plastic base, these must be removed in order to fit the RP-401X2.



# 3

Pump #1 ("P1")

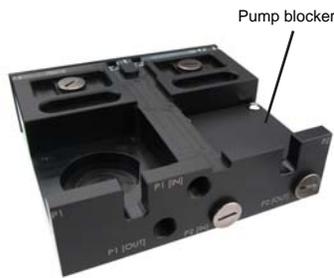


To mount the second pump, repeat the previous process for the opposite side of the RP-401X2.

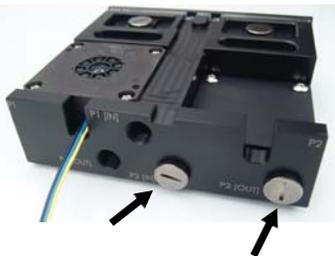
Pump #2 ("P2")

## Operation with One Pump

The RP-401X2 is shipped with one pump side "blocked". Leave this in place with its screws and o-ring if you are only installing one pump.



In addition, the inlet and outlet of this pump must stay plugged on the rear nozzle ports to prevent leaking.



**CAUTION:** To prevent leaking while using one pump, make sure the pump blocker remains installed with its screws and o-ring. The rear inlet and outlet ports for this absent pump must also remain plugged.

# 4

## Using Serial or Parallel Loops



The front reservoirs can be left separated (parallel) or combined to form one reservoir. Combining is done by removing a plug underneath. The plug should be left in place to keep the reservoirs separated.

Access the plug by removing the front metal cover plate beneath the RP-401X2. Be sure to leave its black o-ring in place.



Remove the fill port and replace the metal plate. Keep the o-ring in place.

## LED Lighting (Optional)

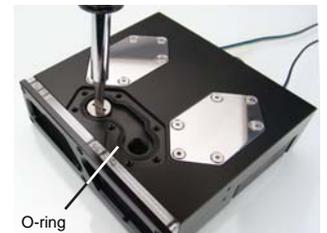


There are two locations in the top edge of the acrylic window for 3mm wide LED lights (sold separately). Slide each LED into the small receptacles in the edge of the acrylic. A small drop of hot glue can help hold each LED in place.

## Serial Connector (Optional)



To allow for cleaner plumbing when running two pumps in series, a Koolance "180-Degree Connector" is available (sold separately). This pipe is installed on the back, and its new acrylic piece is installed into the front left reservoir to improve flow.



O-ring