

# INSTRUCTIONS FOR THE CAPRICORN ARGON HUMIDIFIER

## Initial Installation of the Capricorn™ Argon Humidifier

Note: When making hose connections to the humidifier, simply push the tubing into the connection as far as it will go. You can ensure that it's secure by lightly pulling on the tube.

1. Long Red Tube: Connect one end to "M" Fitting and the other end to the nebulizer argon supply. If necessary use the EzyLok Kit provided (EL-1).
2. Long White Tube: Connect one end to "N" Fitting and the other end to the nebulizer. If necessary use the EzyLok Kit provided (EL-1).

## Steps 3 and 4 apply only to the configuration with bypass

3. Short Blue Tube: Connect one end to the "B" Fitting and the other end to the top of the "T" Fitting.
4. Short Red Tube: Connect one end to the "O" Fitting and the other end to the "H" Fitting.

## Initial Filling with Water

Remove the Pressure Indicator from the top cap. Fill the reservoir with deionized water to the MAX fill line. Replace the Pressure Indicator by finger tightening and then using the wrench provided, add an additional half turn to ensure that it seals. Do not overtighten. Press down on the pressure-indicating pin. This will pop up again when the unit is pressurised.

With the bypass toggle in the ON position, follow the manufacturer's instructions to ignite the plasma and set the proper nebulizer pressure. Check all hose connections for argon leaks using a leak detection solution such as Snoop. If there is a leak, remove the tubing and re-insert it, making sure it is pushed in as far as it will go.

With the toggle in the ON position, the argon is being humidified. When humidification is no longer needed, simply switch the toggle to the BYPASS position.

## Refilling the Capricorn with Water

When the water level drops to the MIN fill line, shut down the plasma and turn off the argon supply from the instrument. Slowly remove the Pressure Indicator from the top cap. Excess pressure will be released from the Pressure Indicator when the o'ring seal is breached. Refill the reservoir as above.

## Cleaning the Capricorn

- Shut down the plasma and release the pressure as above by removing the pressure indicator.
- Remove all hoses from humidifier cap by pressing in on the outer metal ring of the fitting while pulling out the tube.
- Turn the blue cap (counter-clockwise) and remove it from the body of the humidifier.
- Remove the glass reservoir from the plastic outer casing and clean using normal lab procedure for glassware.
- Replace the glass reservoir in the plastic casing. Ensure that the o'ring is in place on the underside of the top cap.

Loosely screw on the top cap until there is resistance. Screw the cap a quarter of a turn beyond this point to seal the unit. Do not over-tighten. Reconnect all hoses as described above.

Apply the connection and refill procedures as above.



With bypass



Without bypass



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## INTERNATIONAL

6 Central Boulevard  
Port Melbourne  
Vic 3207, Australia

Telephone: +61 3 9320 1111  
Facsimile: +61 3 9320 1112  
Email: [enquiries@geicp.com](mailto:enquiries@geicp.com)

## AMERICAS

4 Barlows Landing Road, Unit 2A  
Pocasset, MA 02559, USA

Toll Free Phone: 800 208 0097  
Telephone: 508 563 1800  
Facsimile: 508 563 1802  
Email: [geusa@geicp.com](mailto:geusa@geicp.com)