

INSTRUCTIONS FOR THE ELEGRA HUMIDIFIER

The Elegra Humidifier is supplied with:

Part Number	Description
70-803-1225	Elegra humidifier
70-803-1278	Nebulizer gas line with 2 ratchet fittings
70-803-0911	Nebulizer gas line with ratchet and EzyLok fitting
EL-1	EzyLok kit

The instrument gas line will be one of the following:

Part Number	Description
70-803-0969	Gas line for Agilent/Varian Vista/700-ES/MP-AES or Leeman
70-803-0911	Gas line for Agilent 5100
70-803-1086	Gas line for Agilent 4500/7500
70-803-1105	Gas line for Agilent 7700/7800/7900
70-803-1070	Gas line for PerkinElmer Optima or Spectro
70-803-1049	Gas line for PerkinElmer Elan/NexION 300
70-803-1449	Gas line for PerkinElmer NexION 2000
70-803-1311	Gas line for Shimadzu
70-803-1292	Gas line for Thermo iCAP 6000/7000/Q or X Series
70-803-0911 & EL-1	Gas line for other models



Initial filling with water

To fill the Elegra humidifier, unscrew the top cap and place it aside. The membrane coil will remain attached to the cap. Take care not to damage it, particularly when screwing the cap back on. Fill the reservoir with deionized water to just below the blue line. Push the membrane into the reservoir and then loosely screw the cap on until you feel it stop. Tighten it one quarter of a turn further. This will ensure an adequate seal. Do not over-tighten.

Installation of the gas inlet

The Elegra humidifier utilizes gas line tubing with ratchet connections. To make the connection, pass the free end of the gas line tubing through the ratchet nut and insert the tube into the ferrule. The tapered end of the ferrule must point towards the ratchet nut and the end of the tubing must be flush with the flat end of the ferrule. (Figure 1) Insert the ferrule and tube into the centre port (with the on/off switch) of the humidifier and tighten the ratchet nut until you hear it click.

For Elegra models with instrument-specific gas connector: Now push the gas connector directly into the nebulizer gas port on the spectrometer. (Figure 2)



Figure 2 - Gas line 70-803-0911 shown as example

Figure 1

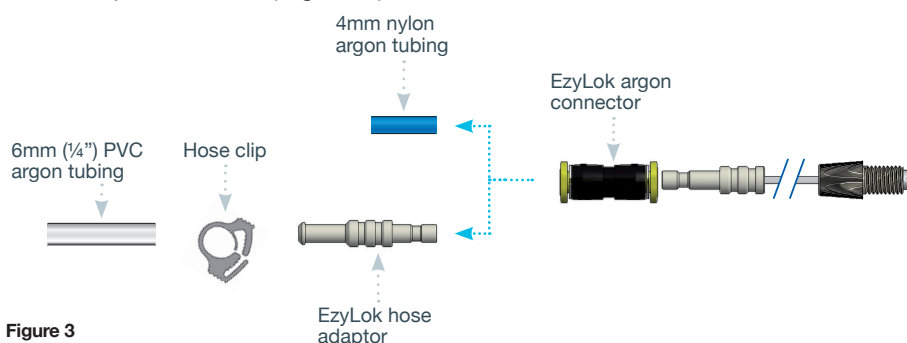
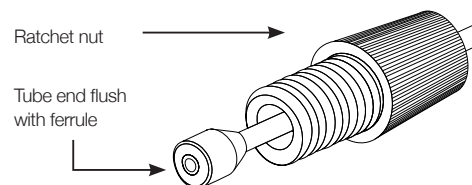


Figure 3

For other models: Use the EzyLok connector to join the Elegra's instrument gas line to your spectrometer's gas tube. (Figure 3)

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Installation of the gas outlet

Two alternative tubes are supplied for the gas outlet to the nebulizer. For nebulizers with a ratchet fitting, use the tube with a ratchet fitting on both ends (p/n 70-803-1278). For other nebulizers use the tube with a ratchet fitting on one end and an EzyLok fitting on the other (p/n 70-803-0911). In either case connect the ratchet fitting to the gas outlet (marked NEB on cap) as described above.

Connect the other end to the nebulizer gas inlet using the ratchet fitting (for 70-803-1278) or the Ezylok kit (for 70-803-0911)

Operating the humidifier

Once the reservoir is filled and gas lines connected, the humidifier is in-line.

When the inlet valve is in the ON position, the gas passes through the membrane coil and is humidified. When the valve is in the BYPASS position, the gas bypasses the membrane coil and is not humidified. The valve should be moved smoothly and quickly between the ON and BYPASS positions. The gas flow is shut off if the valve is positioned between ON and BYPASS.

Replenishing the water reservoir

When the water level drops below the red line on the reservoir, the performance of the humidifier could suffer. Shut off the plasma and disconnect the nebulizer and gas lines from the instrument. Unscrew the cap and fill as per initial filling procedure.



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