

# INSTRUCTIONS FOR THE ELEGRA DUAL HUMIDIFIER

The Elegra Dual Humidifier is supplied with:

Part Number	Description
70-803-1240	Elegra Dual humidifier
70-803-1279	Make-up gas line with ratchet & UniFit
70-803-1278	Nebulizer gas line with 2 ratchet fittings
70-803-0911	Nebulizer gas line with ratchet and EzyLok fitting (1 or 2 pieces)
EL-1	EzyLok kit (1 or 2 pieces)
70-803-1042	Port plug (2 pieces)

The instrument gas lines will be one of the following part numbers (2 lines supplied):

Part Number	Description
70-803-1086	Gas line for Agilent 4500/7500
70-803-1105	Gas line for Agilent 7700/7800/7900
70-803-1049	Gas line for PerkinElmer Elan/NexION
70-803-0911 & EL-1	Gas line for other models

## Initial filling with water

To fill the Elegra Dual humidifier, unscrew the top cap and place it aside. The membrane coils will remain attached to the cap. Take care not to damage them, 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 any gas inlet

The Elegra Dual 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 either of the ports marked "IN" 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 or the auxiliary/make-up gas port as required. (Figure 2)

For other models: Use the EzyLok connector to join the Elegra's instrument gas lines to your spectrometer's nebulizer and auxiliary/make-up gas tubes. (Figure 3)



Figure 1

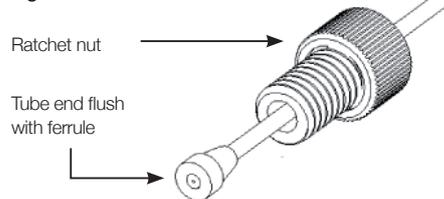


Figure 2



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

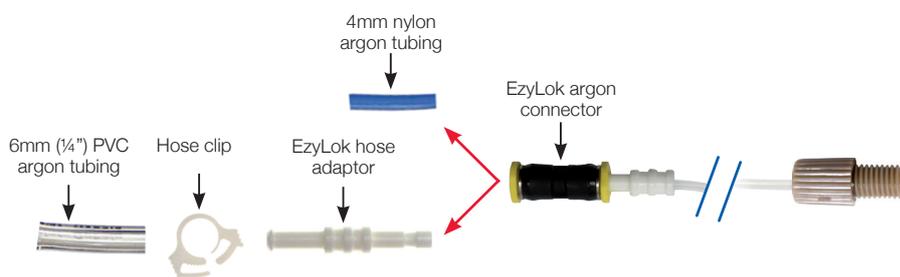


Figure 3

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## Installation of the nebulizer 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 (Figure 1) to the gas outlet marked "OUT" that is parallel to the "IN" port connected to your instrument's nebulizer gas port.

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).

## Installation of the auxiliary/make-up gas outlet

When using the second channel to humidify auxiliary/make-up gas, use either the gas line with UniFit connector (70-803-1279) or the general-purpose gas line (70-803-0911) and EzyLok kit (EL-1). In either case, connect the ratchet end (Figure 1) to the "OUT" port parallel to the "IN" port used for auxiliary/make-up gas. If using 70-803-1279, connect the UniFit connector directly to the auxiliary/make-up port of your sample introduction system. If using 70-803-0911, use the EzyLok kit to connect to the auxiliary/make-up gas line (Figure 3).

For the Elan/NexION only, there is a third option of using gas line 70-803-1309 to connect to a spray chamber with a threaded auxiliary/make-up gas port

## Operating the humidifier

Once installed, the gas lines will be humidified. Disconnect channels as required to stop humidification. If you are using one channel only, it is recommended to use the plugs supplied (p/n 70-803-1042) to block the other channel.

## 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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