



## Transfer Tube Installation Instruction Sheet

### Installing the Transfer Tube

#### To install the transfer tube:

- 1 Unpack the transfer tube and visually check both ends for damage such as a collapsed wall under the O-rings or the ends of the tube not being circular in shape. Small distortions are acceptable.
- 2 Install the plasma torch in the torch compartment and clamp it into position.
- 3 With the spraychamber bracket mounted but the spraychamber removed, pass the transfer tube into the torch compartment via the entry hole located above the spraychamber and bracket.
- 4 Inside the torch compartment, gently connect the transfer tube to the sample inlet of the plasma torch, making sure that a good seal is formed.

#### NOTE

Excessive upward force will put undue stress on the plasma torch. If it is difficult to connect the transfer tube to the torch, try rotating the tube while attempting to connect it.

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- 5 Locate the spraychamber onto the bracket and connect the transfer tubing to the spraychamber. If the position of the transfer tube is too low, making installation of the spraychamber or connection of the transfer tube difficult, move the transfer tube higher up on the sample inlet of the plasma torch.

#### NOTE

If it is difficult to move the transfer tube higher up on the torch, try rotating the tube while applying upward force.

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- 6 Check that no undue force is being applied to the plasma torch when unclamped and that it is positioned centrally within the plasma coils.
  - 7 Align the torch as described in the ICP Expert II Help.

### Removing the Transfer Tube

#### To remove the transfer tube from the spraychamber:

- 1 Gently rotate the tube with minimal upward force.

#### NOTE

Excessive upward force will put undue stress on the plasma torch. Alternatively, unclamp the torch from its position before disconnecting the transfer tube from the spraychamber, making sure the torch does not move excessively within the plasma coils.

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- 2 While gently rotating the transfer tube, apply minimal downward force to disconnect the transfer tube from the plasma torch (while clamped).



## Troubleshooting

If a good seal cannot be made between the transfer tubing and the plasma torch or spraychamber, or connecting them is difficult, dip one end of the transfer tube into very hot water (approx. 90 °C) for 10 to 15 seconds. Gently push the transfer tube over the plasma torch or spraychamber and allow it to cool. Repeat if necessary.

### CAUTION

Take care when dipping the transfer tube as water over 60 °C can cause serious burns to the skin.

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## Cleaning and Maintenance

The transfer tube is made of FEP (fluorinated ethylene-propylene) material and is inert to most chemicals providing long life and making it virtually maintenance-free. If cleaning is required, simply rinse with distilled water and dry before installing. The ends of the transfer tube are mechanically fragile and should not be squeezed or twisted. When not installed, the transfer tubes should be stored in a PVC bag to prevent electrostatic attraction of dust and contamination.

For further information about Agilent and our products, contact your local Agilent representative.

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