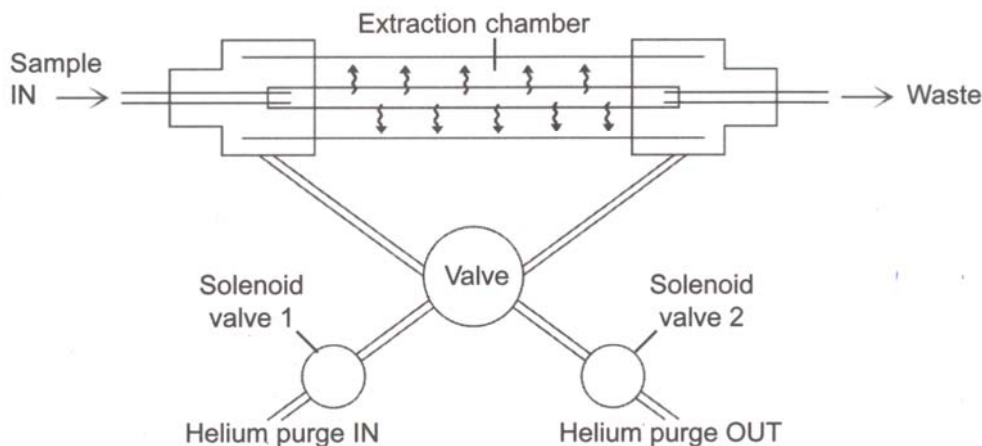


DGA-TOGA Permeation Loop Accessory

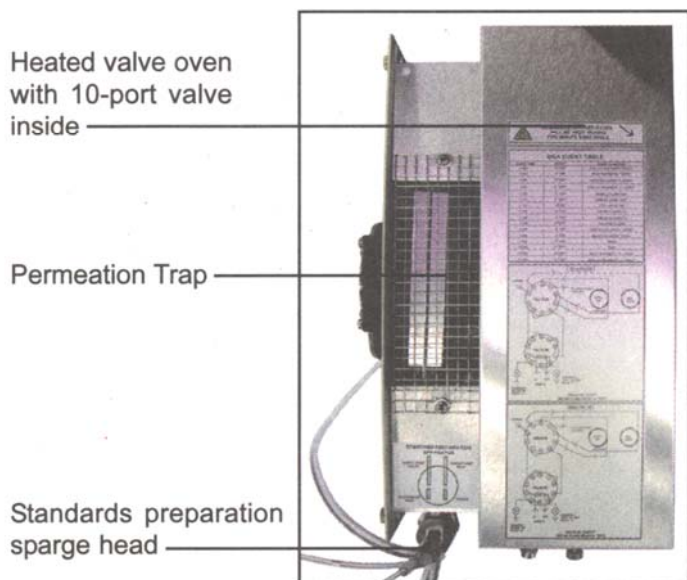
- **For Extracting and Preconcentrating Dissolved Gases in liquid samples**
- **Built-in Standards Preparation Module—Make Your Own Standards**
- **Requires a Valve Oven & one or two 10-port Valves**

The Permeation Loop consists of permeation membrane tubing encapsulated in a trap-heated glass tube. When sample liquid is pumped through the permeation tubing, the dissolved gases therein selectively permeate through the heated membrane into the surrounding extraction chamber, which is plumbed as the loop of a 10-port gas sampling valve.

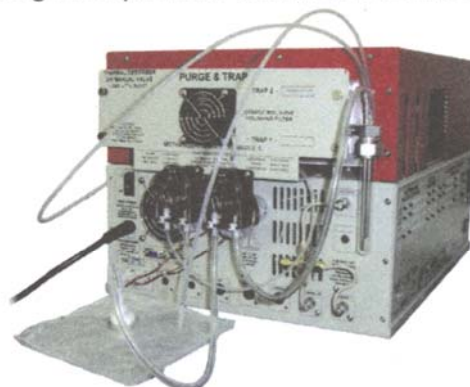


The Permeation Loop Accessory includes the permeation trap, two peristaltic pumps, two solenoid valves, and a standards preparation sparge head. By reconnecting a few tubing lines, the DGA-TOGA Permeation Loop Accessory

Top view of the DGA-TOGA Permeation Trap Accessory



can be configured to prepare dissolved gas standards. A Tedlar bag, or other container, filled with gas standard is connected to the standard pump. The standards preparation vessel is filled with sample liquid, such as water or transformer oil. The standard pump bubbles gas standard into the standards preparation vessel, equilibrating the liquid over time to a known concentration.



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|-----------|---|
| 8690-0087 | DGA-TOGA Permeation Trap accessory |
| 8690-0065 | 10-Port electrically actuated valve, plumbed & tested |
| 8690-0088 | Thermostatted valve oven mounted on an 8610C GC |