

# Apex IR

## Isotope Ratio Sample Introduction System

The Apex IR has been developed for Isotope Ratio analysis. It has an o-ring-free quartz flow path and includes an additional mixing chamber that further homogenizes and stabilizes the sample aerosol stream, resulting in a more stable signal from the ICP-MS.

Sample transport efficiency is enhanced by nebulizing liquid samples into a heated cyclonic spray chamber using a special version of the PFA MicroFlow nebulizer. A low-volume three-stage Peltier-cooled desolvation system is incorporated for on-line removal of solvent vapor.

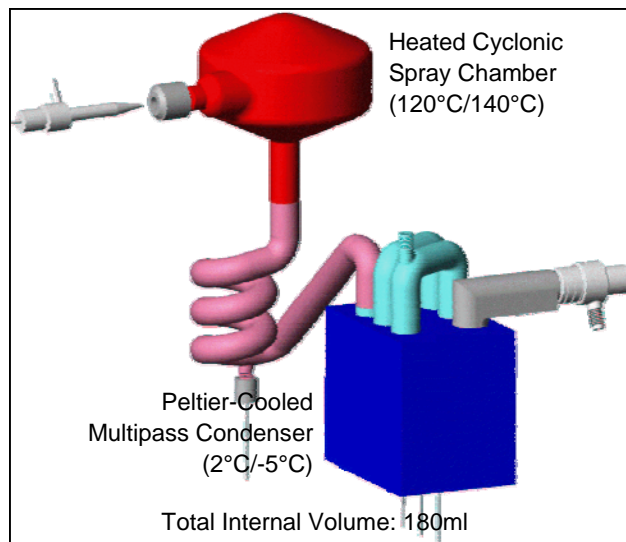


**Apex IR Sample Introduction System**

- ▲ **Increases sensitivity** by 3x to 10x, depending upon sample flow rate
- ▲ Enhanced stability, most stable system on the market
- ▲ **ppq BECs**
  - self-aspirating PFA nebulizer
  - inert, o-ring-free flow path
- ▲ **Fast rinse out** enables high sample throughput
- ▲ **Couples with nebulizers having a wide range of liquid flow rates** (10-700  $\mu\text{L}/\text{min}$ ).

### Low memory effects

- ▲ **Small size, easy installation**
- ▲ **Optional membrane desolvation**



Preset dual temperature settings for heater and cooler. Patented flow path design ensures rapid wash-in / wash-out.

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