Elemental Scientific




# *pergo* Argon Nebulizer Gas Humidifier

## Enhance ICP and ICPMS Productivity

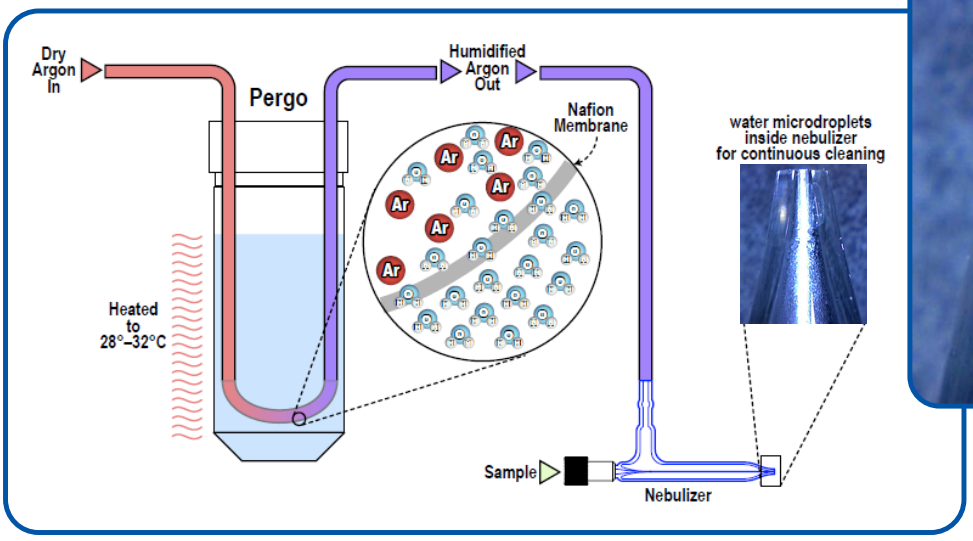
The *pergo* improves performance of all concentric nebulizers. Nebulizer efficiency decreases long before a clogged tip is detected. Unnoticed salt crystals formed in the nebulizer tip reduce sensitivity and stability.

A high-pressure membrane positioned inside a temperature-controlled water reservoir perfuses water vapor into the nebulizer gas stream. By increasing humidity in the argon nebulizer gas, *pergo* prevents salt deposits at the nebulizer tip, improving short and long-term signal stability.

***Learn More***

# Benefits

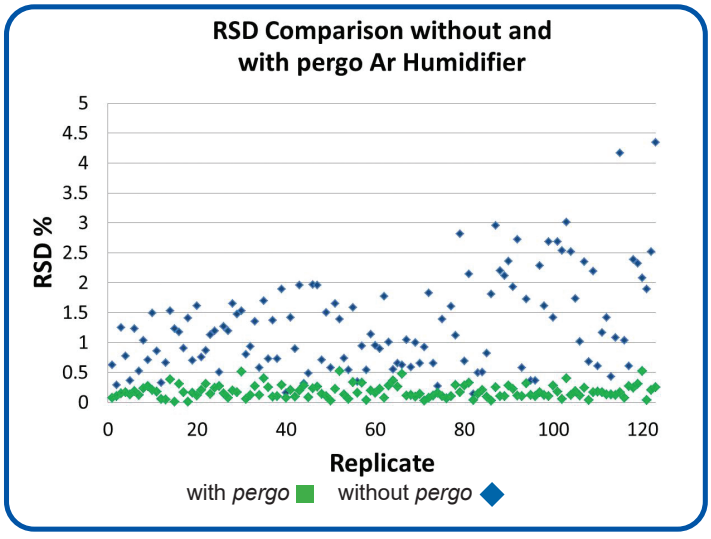
- Improved RSDs
- Improved short and long-term stability
- Improved detection limits
- Faster washout
- Ability to use high-sensitivity nebulizers for high-TDS samples
- Reduce long-term drift
- Extends the length of analytical runs




Ar nebulizer gas is humidified using a tube-shaped membrane placed in a PFA water reservoir at atmospheric pressure. The water vapor condenses inside the nebulizer tip, preventing salt build-up.



Water microdroplets continuously clean the inside of the nebulizer and prevent salt deposits.

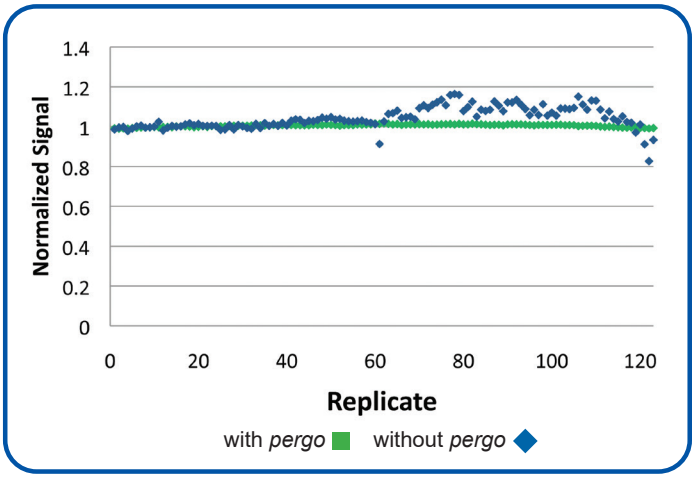



RSDs for 5% NaCl samples improve with the *pergo*.

## Advantages

The unique *pergo* design offers many advantages over other types of argon humidifiers.

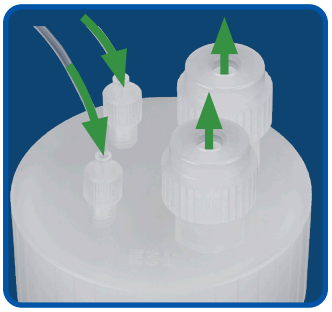
- Higher, more consistent humidity
- Superior long-term stability
- Safe and easy to use:
  - Atmospheric pressure water reservoir




Long-term stability is improved with the *pergo*, reducing drift and extending the length of the analytical run.

## *pergo* 2

The *pergo* 2 also enhances the performance of ICPMS systems when a dilution gas (UHMI, AMS, and Ar Dilution) is utilized. As with the main nebulizer, the argon gas used for dilution is very dry. *pergo* 2 includes a second port which humidifies this dilution gas stream in addition to the nebulizer gas flow, enhancing performance by further improving nebulizer stability.



| Description | ***pergo* Options**<br>*pergo* for ICP or ICPMS (no dilution gas)<br>***pergo* Part Number** | ***pergo* Options**<br>*pergo* 2 for ICPMS (with dilution gas)<br>***pergo* 2 Part Number** |
|---|---|---|
| *pergo* argon high solids accessory. Includes nebulizer gas line connector kit. | PRG-01 | PRG-02 |
| *pergo* argon high solids accessory. Includes a MEINHARD® TR+ high performance nebulizer. | PRG-01-MCPlus | PRG-02-MCPlus |
| *pergo* argon high solids accessory. Includes a PFA-ST nebulizer. | PRG-01-ST | PRG-02-ST |

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