

Moisture Removal for Comprehensive and Accurate Measurements

Since NO₂ and SO₂ are absorbed by water, effective moisture removal from the flue-gas sample is of primary importance when obtaining accurate and comprehensive data, especially for emissions testing.

TRANSCAT

35 Vantage Point Drive
Rochester, NY 14624
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Used in conjunction with the [ECA 450](#), the Flue-Gas Sample Conditioning System functions to remove water vapor from the flue-gas sample, thus preventing the formation of water droplets inside the probe hose. If water droplets were to form, a portion of the gas sample could be absorbed by the water, thus resulting in lower-than-actual NO₂ and SO₂ readings.

Water vapor is removed by passing the gas sample through a Peltier Cooler where the sample is chilled, causing the water vapor to condense. The water is then pumped out of the cooler and into a water trap.

Features and Benefits:

- Compact conditioner/probe assembly design
- Peltier cooler to remove water from sample
- Built-in filter section
- Condensate pump
- 12" probe tube length with probe stop cone (standard)
- 15' hose length with sample draft & temperature lines
- Maximum operating temperature of 1472 °F (800 °C)
- Optional probe tube lengths available, up to 39"

Ordering Information

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Part Number	Description
24-7224	Compact sample conditioner/probe assembly. Includes Peltier chiller/probe assembly, built-in filter, condensate pump, and 15 ft hose assembly
24-1183	7" (180 mm) Optional Probe Tube
24-1185	19.5" (500 mm) Optional Probe Tube
24-1186	39" (1000 mm) Optional Probe Tube