



## CO395Flex™ Certification Oven

### CO395Flex™

The CO395Flex™ Certification Oven is a stand alone version of the permeation tube oven used in other KIN-TEK gas standard generating systems.

Typically a gas standard generator such as the FlexStream™ or 491Flex™ Base Module is used routinely, or intermittently for creating gas standards for different applications. Most permeation tubes require several hours for the emission rate to stabilize from storage or from a temperature change. Time is saved by preheating and conditioning permeation tubes in the same type of oven in which they are used and transferring them when they are needed for larger applications.

The CO395Flex™ is a compact, economical unit designed to maintain permeation tubes in a constant equilibrated state and ready for immediate use. This feature is especially useful for standards laboratories where the weight loss rate of the tube(s) is continually monitored to insure accuracy, when permeation tubes are needed unexpectedly to trouble-shoot an analyzer performance, or when frequent permeation tube changes are needed.

The CO395Flex™ oven temperature is controlled by an adjustable PID controller. The vertical oven block holds a removable glass adapter bottle that can fit up to 8 disposable type tubes or 1 refillable type permeation tube. A small fixed or variable flow provides a “sweep” gas for venting permeate gas while maintaining permeation tube equilibrium at a very precise stable temperature. The small design takes up very little space making it a unique addition to any busy laboratory.

### Features

- Open frame construction for easy access to the permeation tube
- An onboard constant-differential-pressure flow controller insures constant flow over the permeation tube
- Temperature can be controlled at any value from approximately 30 °C (at least 5 °C above ambient temperature) to 150 °C.
- Temperature settings are NIST traceable to  $\pm 0.1$  °C to insure minimum upset with changing applications.

## Specifications

- Dimension: 9" w x 8" H x 5 1/4" D
- Weight: 5 1/2 lbs.
- Power: 115, 1 A peak (230 V optional)
- Temperature Ranges: Typically 30 °C (5 °C above ambient) to 150 °C; digitally set in 0.1 °C increments
- Flow: Typically variable to ~100 cc/min; fixed flow option available
- Tube Capacity: Accepts disposable permeation tubes, KIN-TEK refillable tubes, and diffusion tubes. Holds up to 8 disposable tubes, one refillable tube, or 1-2 diffusion tubes

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