PRODUCT DATASHEET

Gravimetric Calibration-Gas Blending Panel

Prepare calibration-gas mixtures by weight in cylinders

Product page





Close-up: blending manifold and balance

OVERVIEW

The Tech Inc. Gravimetric Calibration-Gas Blending Panel prepares calibration-gas mixtures by weight. Each cylinder is heated and evacuated, then filled component by component on a precision balance, so the composition is known from the masses added.

TYPICAL DESIGN DATA

Method	Gravimetric preparation to ISO 6142-1
Manifold	Electropolished 316L, metal-sealed, helium leak-tested
Vacuum	To about 10^{-3} mbar at the cylinder
Codes and standards	Gravimetric preparation to ISO 6142-1; verification to ISO 6143 by the laboratory
Balance	Resolution chosen for the cylinder mass and the smallest component
Gases	Non-reactive and reactive gases with suitable materials and passivation
Records	Mass, uncertainty and certificate for each mixture

MODELS AND CAPACITIES

- **TI-CGB-10** – cylinders up to about 10 L
- **TI-CGB-50** – cylinders up to about 50 L
- **TI-CGB-P** – production station with two balances

Indicative cylinder sizes handled.

ORDERING CODE

Example **TI-CGB-50-E-R**: **50** largest cylinder, L; **E** options: E evacuation and heating station; **R** R cylinder roller, V verification analyser connection.

SCOPE OF SUPPLY

Included: factory acceptance test with a written report; drawings for approval, material certificates and manual.
Options: second balance for small components; cylinder roller; heated evacuation oven; connection for a verification analyser; gas cabinet for toxic components.

KEY ADVANTAGES

- **Traceable** – composition from weighed masses
- **Recorded** – certificate for every mixture
- **Clean** – evacuated cylinders and leak-tight manifold
- **Flexible** – recipes for many mixtures

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