



Vapor Generation System

Controlled Evaporation Controller

- user-friendly, color touchscreen interface
- continuous operation or totalizer for batching
- Modbus interface, ethernet enabled for remote access
- downstream heat tracing to ensure vapor phase
- data logging and WebMI capabilities
- desktop or rack-mounted models available

What is Controlled Evaporation Mixing (CEM) for Vapor Generation?

This Vapor Generation System is an advanced alternative to traditional glass bubblers that improves process accuracy and repeatability. It relies on a gas and a liquid flow meter and controller along with a CEM device to vaporize and mix the resulting vapor stream. With an all in one design and a user-friendly touchscreen interface, users have unprecedented control over their vapor generation processes. It's ideal for low flow applications such as use in research laboratories, deposition processes such as coatings, CVD, semiconductor manufacturing, and more.

Features of the CEM Controller from Process Solutions Corp.

- user-friendly, color touchscreen interface
- internal temperature safety switch
- Modbus interface, ethernet enabled
- easy operation: start/stop, flow rates, setpoints, totalizer, vapor concentration and composition, temperature, heat tracing, and more

How it Works

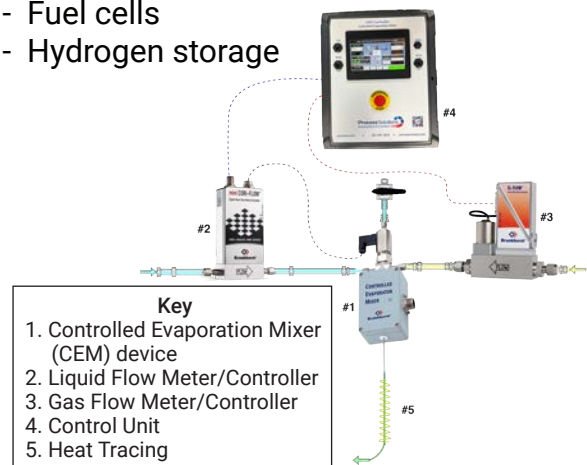
The key component for this system is the Controlled Evaporation Mixer, which is a vaporizer and mixing chamber that allow liquids to be vaporized then mixed with a carrier gas for easy vapor control. This allows for highly accurate, repeatable vapor generation and control along with data logging, WebMI capabilities, and remote interface.

Desktop or Rack Mount Models

Our desktop model is ideal for laboratories and universities where the system may not be in constant use or where space is limited and allows the system to be stored easily. The rack mount model is perfect for manufacturing processes and can control up to three vaporizing systems, each containing a gas, a liquid meter and controller, and a CEM. The rack mount model can control each vaporizing system independently or it can control all the instrumentation as a single vapor generation system.

Applications

- Chemical Vapor Deposition (CVD)
- Manufacturing processes to apply coatings to products
- Calibrating Gas Chromatographs, Mass Specs
- Food and beverage production
- Renewable fuels and research
 - Fuel cells
 - Hydrogen storage



Learn more on our website: www.psctexas.com/vapor-generation-system

Please visit our website for a complete listing and for the most up-to-date information.



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