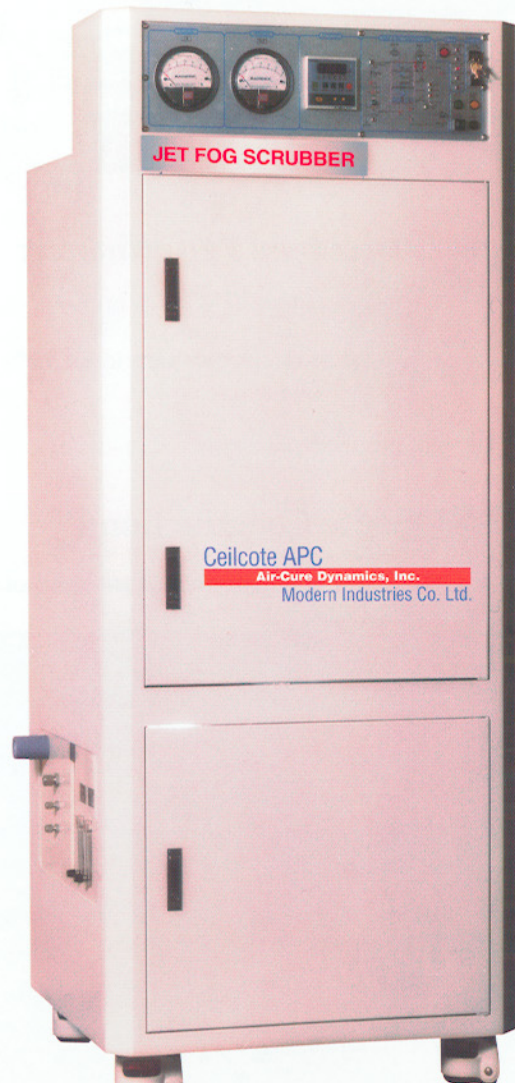
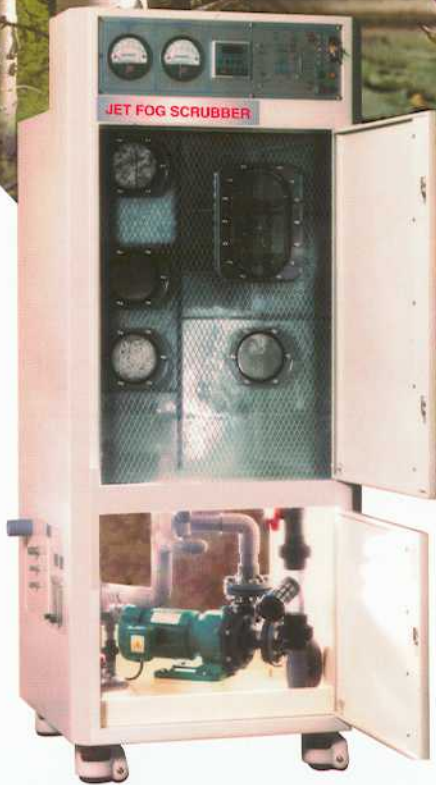


## Globe-3 Jet-Fog Scrubber

Advanced Technology  
for Semiconductor  
Process Emissions

- Efficient Operation
- Quality Construction
- Low Cost Operation and Maintenance
- Guaranteed Performance





The Globe-3 Jet Fog Scrubber is designed to overcome the shortcomings of traditional wet scrubbers. Globe-3 features a unique 4-chamber design and automatic chemical neutralization facility.

This function ensures the capture of fine gas particles to 99.99% removal efficiencies of both water soluble and chemical reactive toxic gases.

Globe-3 is designed to be virtually maintenance free, thus eliminating production downtime and high-maintenance costs.

## HIGHLIGHTS

### ■ Guaranteed Performance:

- Removal efficiency up to 99.99%
- Complete decomposition to 99.99% of  $\text{SiH}_4$  gas by KOH solution
- Custom designed

### ■ Quality Construction:

- Entry cleaning device for removal of solids at the inlet
- Utilizes Ceilcote Air Pollution Control's high performance Tellerette® packing
- Cyclonic cleaning action to prevent buildup in inlet line
- Caustic addition system with injection metering pump
- Digital pH sensor to maintain optimum chemical composition
- Caustic dosing for optimum gas removal efficiency
- Staging available for higher efficiency performance

### ■ Materials:

- Cabinet, Epoxy coated 316SS  
PVC internal chambers
- Multiple chambers
- Static pressure controllable between 0-2" W.C.
- Gas residence time in scrubber: 15-70 sec.

### ■ Low Cost Operation & Minimum Maintenance:

- Compact design provides installation and maintenance flexibility
- Long service life with minimal maintenance
- Optimum drain control and no powder plugging on packing
- No misting due to the unique, independent packed bed area
- No cleaning required. Packing is located in the last scrubber chamber
- Technical and start-up assistance available

# Globe-3 Jet-Fog Scrubber

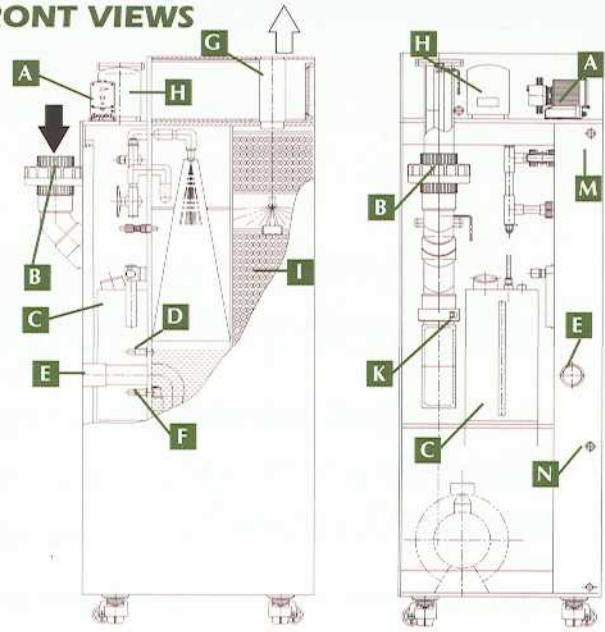
The scrubber features an automatic inlet cleaning device that minimizes plugging and enables a high tolerance of particles.

Plastic packing, used in the scrubber chamber, also prevents mist streams and is resistant to powder plugging.

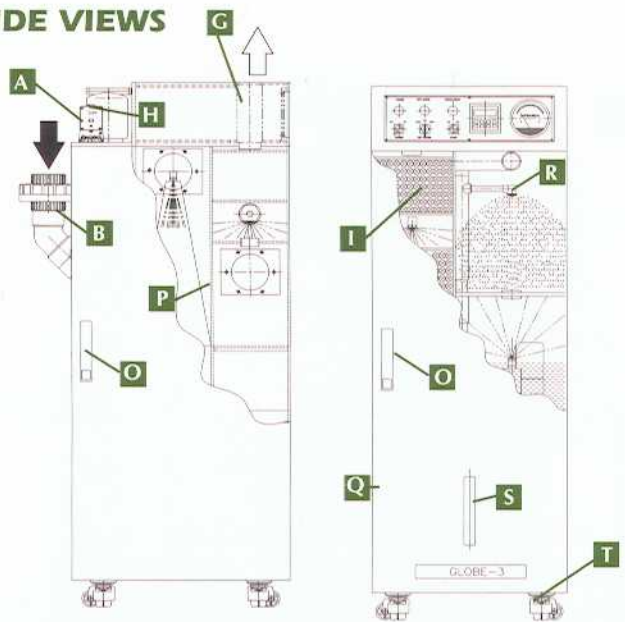
The Globe-3 provides quick start-up and guaranteed results in applications used in the semiconductor industry.

Contact us today to learn how the Globe-3 Jet-Fog Scrubber can be used in your semiconductor manufacturing processes.

## FRONT VIEWS



## SIDE VIEWS



## SYSTEM CAPACITY

### Semiconductor Applications:

- Diffusion: HCl, POCl<sub>3</sub>
- LPCVD: SiH<sub>4</sub>, SiH<sub>2</sub>Cl<sub>2</sub>, NH<sub>3</sub>
- PECVD: SiH<sub>4</sub>, N<sub>2</sub>O
- ETCH: HCl, Cl<sub>2</sub>, HBr, HF
- EPI: HCl, SiH<sub>2</sub>Cl<sub>2</sub>, PH<sub>3</sub>

### Specifications:

- Approximate Dimensions: 32" (W) 30" (D) 79" (H)
- Power – 220V / 60Hz
- Exhaust Capacity 100-600 lpm
- Various Sizes Available

### Removal of:

- SiH<sub>4</sub>, SiH<sub>2</sub>Cl<sub>2</sub>, NH<sub>3</sub>, SiH<sub>4</sub>, N<sub>2</sub>O, HCl, WF<sub>6</sub>, POCl<sub>3</sub>, PH<sub>3</sub>, Cl<sub>2</sub>, HBr
- Maximum removal efficiency on chemical dosing for soluble, insoluble and decomposition of gases in water.

## Globe-3 Jet Fog Scrubber Features:

- |                          |                       |
|--------------------------|-----------------------|
| A. Chemical Dosing Pump  | K. Cyclonic Chamber   |
| B. Gas Inlet             | M. Water Inlet        |
| C. Chemical Tank         | N. Chamber Drain Port |
| D. Hi Level Sensor       | O. Door Lock          |
| E. Water Flow Drain Port | P. Access Door        |
| F. Low Level Sensor      | Q. Steel Cabinet      |
| G. Outlet                | R. Jet Fog Nozzle     |
| H. Compressor            | S. Flow Meter         |
| I. Demister Packing      | T. Adjustable Casters |



Ceilcote Air Pollution Control has a network of qualified representatives in the North America ready to serve you. Answers to your air pollution control needs are only a phone call away.

To find the name of the representative nearest you, call Ceilcote Air Pollution Control sales offices at 800-554-8673 or 440-243-0700

Strong product/system support is an integral part of Ceilcote Air Pollution Control's resource capabilities. We are broadly experienced in the design, engineering and installation of a wide range of air pollution control equipment, fans and systems. We will undertake contracts ranging from consulting engineering to complete turnkey projects.

**Ceilcote Air Pollution Control**

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Your Local Representative:

Successor in interest to Air Cure Dynamics, Inc dba Ceilcote Air Pollution Control



**VERANTIS**

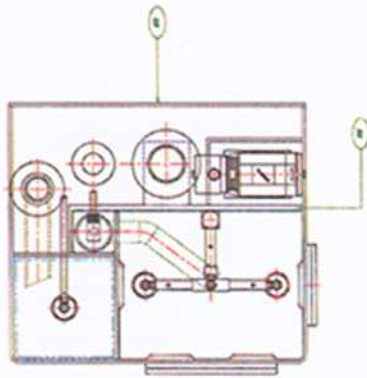
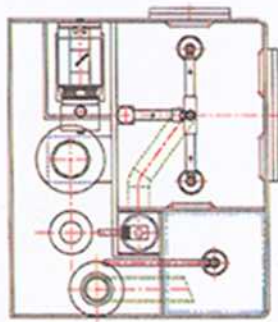
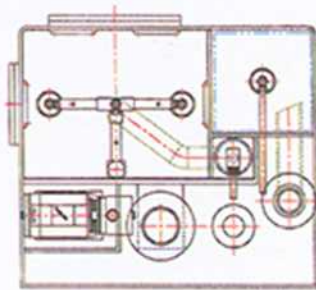
Environmental Solutions Group

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## Globe -3 Scrubber

