

Advanced Precursor evaporation for production environment

Precursor evaporation is required for all gas phase processes, like ALD, CVD or EPI processes. SEMPA has been developing VAPOR'BOT to address this brought range of applications.

More than a decade of experience ensures precise evaporation - safely and with the SEMPA quality promise.

Designed for higher throughput

VAPOR'BOT PRO is a bubbler based evaporation system and it is designed for higher throughput. The vaporizer is built in to the system and gets refilled from bulk precursor vessels. As such any kind of precursor vessel can be utilized which enables customers to optimize their supply chains.

Adaptable to precursors

PRO is able generating precursor vapor by either vapor draw or through bubbling. The systems can be adapted to the different precursor properties ensuring in all cases optimized vaporization experience.

Customized to your needs

VAPOR'BOT is designed to safely and efficiently supply ALD; CVD and EPI tools with centrally generated precursor vapor. It is available in three basic versions meeting different process needs and budgets. Any System can furthermore be adapted very precisely to your requirements through a variety of available options.



PRO Features

- Fully automated system design
- Safest setup for energetic and toxic precursor substances
- Uninterrupted supply by automated refill of vaporizer
- Production oriented system design

Configure your VAPOR'BOT

Many options are available to adapt the system exactly to your application or the specific requirements of the precursor.



Unsurpassed Safety

- SEMI S2 certification
- Design according to ATEX where applicable
- Coax tubing and monitoring
- LCAS (Liquid Containment and Abatement System) for pyrophoric metalorganics



Precursor specific Solutions

- Vessel, panel, trace heating and cooling
- High alloy steel design for corrosive precursors
- Concentration measurement
- Solid precursor solutions

Please contact us to customize your VAPOR'BOT. Our experienced engineers will be happy to assist you.

Your VAPOR'BOT for every application

GAS'BOT is available in three basic versions meeting different process needs and budgets.

For any question or to check out SMART and EXPERT visit us at www.sempa.de or contact us sales@sempa.de.

Technical Data

Dimension:

600 (w) x 2250 (h) x 615 (d)

Weight:

~250 kg

Electrical Connection:

1 x 110 - 240 V-AC
50/60 Hz NSV
1 x 110 - 240 V-AC
50/60 Hz UPS (Option 13)

Inlets:

1 x 1/4" VCR Purge Gas Inlet (1-6 bar)
1 x 1/4" VCR Push Gas Inlet (1-6 bar)
1 x 1/4" SW Pneumatic Inlet (4-7 bar)

Outlets:

2 x 1/4" VCR Process line
1 x 1/2" VCR Vacuum
1 x 1/4" SW Safety line
1 x 101,6 x 1,2 mm Exhaust

