

Specialty Gas Cabinet for semiconductor manufacturing

GAS'BOT EXPERT is a state of the art fully automated gas supply system for specialty gases. It is optimized for semiconductor production facilities. The Expert version of the GAS'BOT family of supply systems is based on several decades of experience and know how in handling toxic, pyrophoric or corrosive specialty gases.

Safety and Quality first

A precise selection of dedicated components and many years of experience enable SEMPA SYSTEMS to build best in class gas systems of the highest quality combined with an unsurpassed level of safety.

Highest Uptime by design

We design for highest possible uptime. Any design decision and selection of components is made to ensure seamless operation of the unit. Through modular setup, excellent accessibility and full redundancy **GAS'BOT EXPERT** boosts your facility performance.

Customized to your needs

With a wide range of options such as cylinder temperature control, and various more the systems can be precisely adapted to your specific requirements.

Advanced controls and connectivity

GAS'BOT EXPERT's advanced controller enables reliable monitoring including MES connectivity. Highest reliability and flexibility is ensured using a Siemens safety PLC. Through predefined programs and a straightforward HMI a very comfortable operation can be realized. Furthermore, allows a high degree of flexibility and several connectivity options easy integration into your semiconductor sub-fab or production facility.



EXPERT Features

- Fully PLC automated dual cylinder gas cabinet
- Build according SEMI S2 standards
- Dead space optimized design with highest redundancy
- Designed for high demanding semiconductor fab operation

Configure your GAS'BOT

Many options help to configure the system exactly to your application and type of gas.



Unsurpassed Safety

- Proven Gas, Smoke, UV-IR Sensors
- Design according ATEX where applicable
- SEMI S2 certification
- Coax tubing and monitoring
- Overpressure protection



Gas specific Solutions

- Low gas pressure optimization
- Cylinder, panel, trace heating and cooling
- High flow systems
- High alloy steel design for corrosive gases
- Cylinder scales
- Abatement solutions

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

Your GAS'BOT for every application

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

For any questions or to check out SMART and PRO visit us at www.sempa.de or get in touch through sales@sempa.de

Technical Data

Dimension:

800 (w) x 2350 (h) x 600 (d)

Weight:

~480 kg

Electrical Connection:

1 x 110 - 240 V-AC

50/60 Hz NSV

Inlets:

1 x 1/4" VCR male Purge (5-7 bar)

1 x 1/4" VCR male Venturi (5-7 bar)

1 x 1/4" Swagelok Connection dry pneumatic air (4-7 bar)

1 x 1/2" G Sprinkler (2-3 bar)

Outlets:

1 x 1/4" VCR male Process line

2 x 1/2" VCR male Venturi

1 x 4" (101,6 mm x 1,2 mm) Exhaust

