



VON GAHLEN

ACTIVE GAS COMPRESSION SYSTEM

The active gas compression system can be added to your hot cell configuration. It is designed to store radioactively contaminated exhaust air in buffer tanks for decay. The exhaust air is collected from one or more hot cells. This system is either activated by the operator or an activity sensor mounted in the exhaust manifold of the hot cells. Using an electrically operated valve, the exhaust air is redirected to the system.

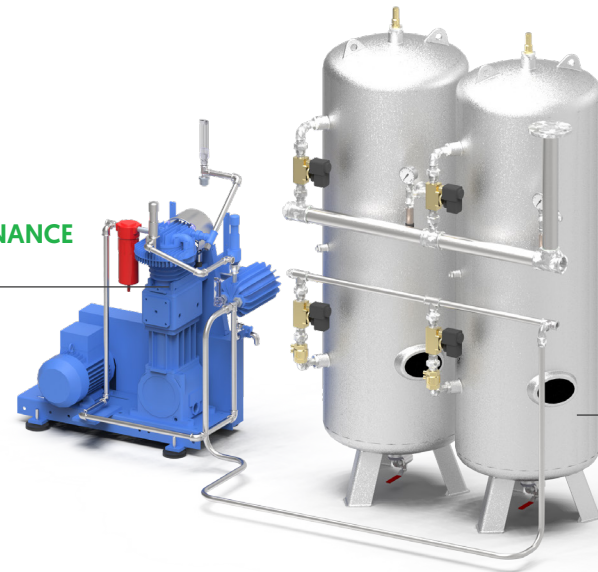
The system can be connected to Von Gahlen synthesis- and R&D hot cells, is plc controlled, and is easy to use. The AGC system is controlled through the hot cell interface. It is equipped with several safety features to prevent any contaminated air to be released into the atmosphere.

 **Model VG-AGC**

KEY FEATURES

- Low maintenance, oil free compressor
- A unit is consisting of a buffer tank, compressor and a number of storage tanks
- The buffer tank operates under negative pressure and collects exhaust fumes from the connected hot cells
- Safety features on tanks to guard maximum system pressure of 15 bar, automatic switch to next tank when tank is full
- The standard configured unit has two storage tanks for a total of 2 hours storage time, the amount of storage tanks can be increased to meet specific requirements or user preference
- The decay time can be preset depending on isotope
- A warning will indicate that the set decay time has passed
- Tanks do have a common exhaust system with a damper to gradually release the decayed, compressed, stored gas
- System can be connected to Von Gahlen synthesis- and R&D hot cells
- PLC controlled, easy to use system
- Compressor on-off from operator side in clean room at hot cell HMI

**LOW MAINTENANCE
COMPRESSOR**

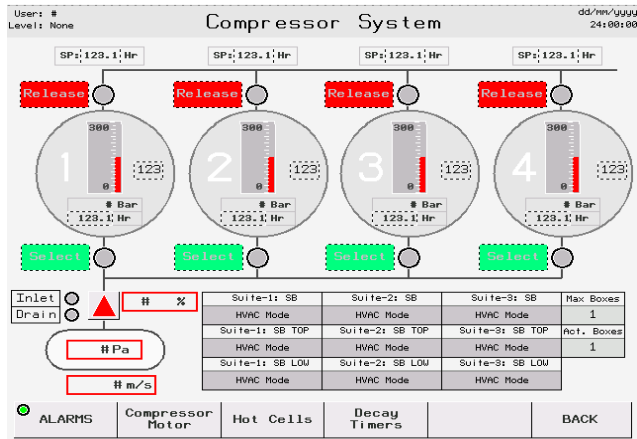


**STORAGE TANKS
350 LITERS AT 15 BAR**

YOUR GUARANTEE FOR QUALITY. FOR SURE.



VON GAHLEN
FOR SURE



TECHNICAL DATA

- Configuration with 2 storage tanks:
- Overall space required: $\pm 2500 \times 800 \times 2650$ mm [W*D*H, weight: ± 400 kg
- Configuration with 4 storage tanks:
Overall space required: $\pm 2500 \times 2000 \times 2650$ mm [W*D*H, weight: ± 600 kg
- The compressor has a capacity of 5,6 m³/h and is equipped with several safety features to prevent any air from being released into the atmosphere
- One storage tank can contain 350 liter of air at 15 bar and is capable of storing the exhaust air from hot cells for a certain amount of time, depending on your hot cell configuration
- Configuration with 4 storage tanks (sufficient for ca. 5 class B synthesis compartments)
- Electrically operated valves on storage tanks for remote release of content

SOFTWARE

- User friendly, intuitive interface
- Different user languages available
- A failure mode and effect analysis is performed on the system
- Implementation of software and firmware are conform SDLC (software development life cycle)

OPTIONS

- Two tank standard system, but the amount of tanks can be increased for more storage capacity
- Also available as:
 - AGC-HP High Pressure System (small foot print, high capacity)
 - AGC-CS Hot Cell Containment System (Isolated Activity in hot cell compartment, low flow)

MORE INFO?
Please contact
sales@vongahlen.com
Or visit
www.vongahlen.com

