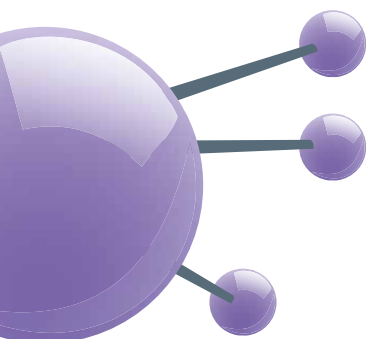


Oven Cabinet

High Volume Module (HVM) for continuous delivery of solid precursors' vapor phase.



- The Oven Cabinet is designed to deliver vapor phase of solid precursor from canisters
- Multi-chambers supply capability
- Switchover with automatic purge sequences allow maintaining the quality and the purity of gas

Applications

Metal electrodes precursors (WCl_5 , WCl_6 , MoCl_5 , MoO_2Cl_2) and Advanced High k Precursor (HfCl_4 , ZrCl_4 , AlCl_3) used in DRAM and 3D NAND applications for example.

Product line

- Pure vapor draw
- With carrier gas

Operation

Solid precursor contained in canister is heated by oven and clamshells. Vapor phase is supplied through tool lines. The Oven Cabinet delivers **an uninterrupted supply** of process gas via the auto-switchover of two sources.



- ✓ Auto-switch system for continuous delivery
- ✓ OEM proven
- ✓ Customer Best Known Method (BKM) for 3D NAND (Mo application)
- ✓ Variable flow-rate with stable pressure
- ✓ Patented AVP (All Vapor Phase) technology
- ✓ Canister level control for maximum precursor usage
- ✓ PLC controlled system



Oven Cabinet



Product description

Features

- Accurate temperature control
- Able to host canister up to 40L
- Automatic dispense and purging capabilities
- Multiple temperature sensors
- PLC based technology with 12" color touch screen
- Ethernet communication port for SCADA monitoring
- Customized signal interface

Options

- Integrated 4 sticks VMB
- Connection ports for Helium sniffing
- Precursor delivery either pure vapor or with carrier gas
- Start-up assistance and operator training
- Compact Electrical compartment
- Canisters fleet available: 8 L, 16 L or 40 L

Safety features

- Exhaust flow control
- Gas leak detection (as option)
- Fire detection (as option)
- Several alarms setting for a better operation
- Multi-level user passwords
- Emergency gas shutdown
- Multiple temperature switches
- High pressure software relief function
- Safety interlocks

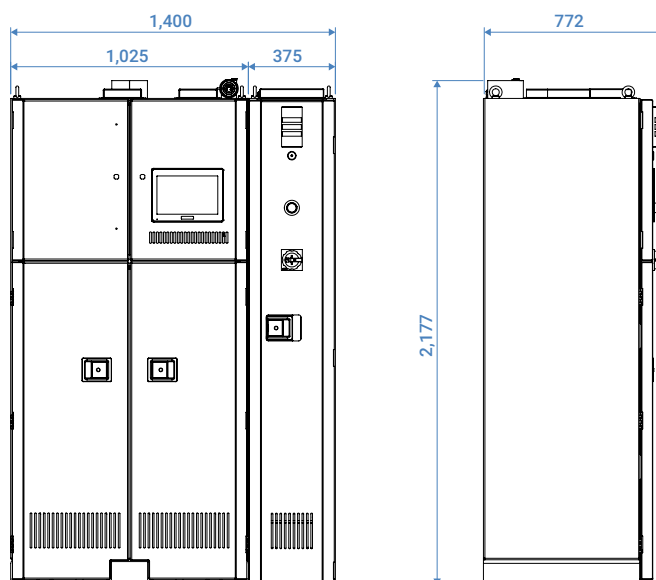
Technical specifications

Utility requirements

Ar or N ₂ purge gas	Min. 0.5 Mpa / max. 0.6 Mpa 5 slpm max. flow
Vacuum line	1/2", need heat trace
Process lines	3/4", need heat trace
Clean dry air or N ₂ (pneumatic valves)	0.7 Mpa +/- 0.1 Mpa 5 slpm max. flow
Exhaust	120 Nm ³ /h. Connected to scrubber
Electrical power	3 Phases 208 V + ground 18 KW and 50 Amp

Dimensions

Enclosure	High	Lenght	Depth
Oven Cabinet	2,177	1,400	730



Certifications

- CE Mark
- Semi S2
- Other upon request

Contacts

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