

AVS 1600



Technical data

Internal chamber dimensions	450 x 550 x 700 mm*
External dimensions	700 x 750 x 1450 mm*
Vacuum pump	25 m ³ /h or 63 m ³ /h
Power supply	3 phases, 230 / 400 V, 50 Hz**

* width x depth x height
 ** special voltages upon request

Vacuum nitrogen cabinet for storing moisture-sensitive materials

The AVS 1600 vacuum nitrogen cabinet is perfect for storing moisture-sensitive materials. It offers a volume of 450 litres and is ESD-safe. The AVS 1600 can be adapted to individual customer requirements.



BOSS quality characteristics

made in Germany



Longevity

In processing, we attach great importance to sustainability. We only manufacture our products from high-quality individual components: rust-free stainless steel, splashproof elements and Busch high-performance pumps - 100% Made in Germany. Clear structure, robust technology and sophisticated design guarantee long-lasting operational readiness.



Reliability

The user-friendly T5 LS sensor control is fitted with two precision vacuum sensors and allows simple and precise setting of important operating parameters. The password-protected sub-menu and optional mechanical locking of the touchscreen offer protection from unauthorized access, which guarantees the highest possible levels of reliability.



User-friendliness

As-standard, the vacuum nitrogen cabinet is fitted with full pullout shelves that are on telescopic rails. This makes it easy for operators to carry out loading and unloading. The distances between the shelves can be customized to meet individual requirements.



Customer Service and Consultation

As the market leader in component packaging, we have an extensive knowledge of component storage and current packaging standards (IPC/JEDEC 33b). At the same time, we orient ourselves to the manifold challenges of our customers. Together we prepare solution strategies for complex operational requirements in your component logistics.

User-friendly sensor control
T5 LS with touchscreen-function

Machine structure

Locking control flap
(available as an option)

High-quality, antistatic
stainless steel door

Door locking
mechanism

Non-slip,
ESD-safe rollers

Full pullout shelves
on telescopic rails

Ready-to-plug in
unit with integrated
vacuum pump



Standards

The design, processing and control of our machines are oriented to the requirements of the IPC and ESD regulations. The perfect interaction of the vacuum pressure differential circuit and the protective atmosphere function guarantee optimum storage conditions.

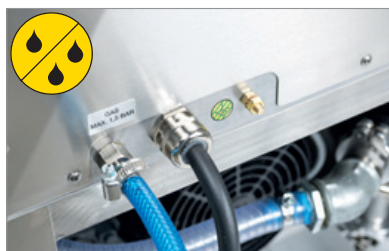
JEDEC 033b / IPC



Benefits

- Lengthening the processing times of electronic components
- Stopping the floor-life-time
- Lowering the relative air humidity (rF=5%)
- Safe storage under a controlled atmosphere

Storage under an inert gas atmosphere



Benefits

- Slowing down the oxidation process
- Reducing the diffusion speed
- Maximum lowering of the moisture and oxygen content in the chamber
- Protection of moisture-sensitive components
- Optimal for long-term storage

ESD type



Benefits

- Design as per ESD standard EN 61340-5-1
- Bleeder resistance of 10^{-6}
- Sustained processing of antistatic materials

Control system

Control system T5 LS

Our validable sensor control T5 LS is equipped with a precision vacuum sensor and permits precise setting of important operating parameters. Vacuum and gas.

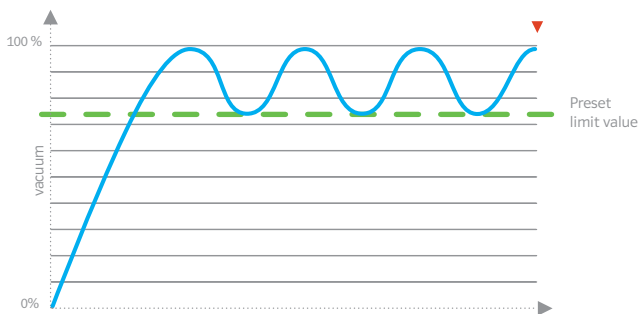
Benefits

- 7" touch display
- User-friendliness
- Storage function
- Clear depiction of individual parameters
- Break function for immediate process cancellation
- Service function for vacuum pump
- Password protection
- Settable gas value

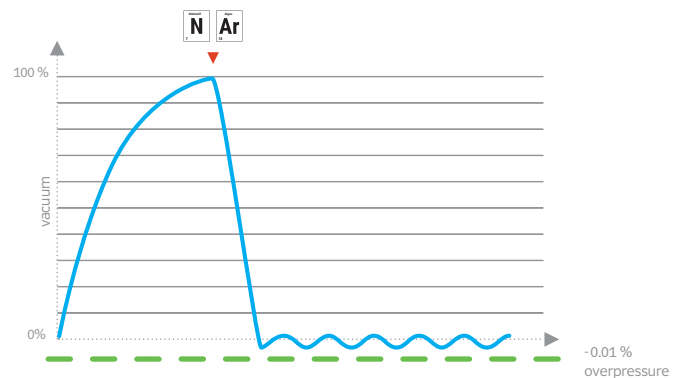


- Settable vacuum value
- Vacuum value shown in mbar
- Pressure differential value input (vacuum and gas)
- N₂ - Overpressure function
- Operating hours counter for monitoring service intervals
- Validable storage process
- Readability via usb interface

Pressure differential circuit



Protective atmosphere function



BUSCH vacuum pump

Our BOSS vacuum packaging machines are fitted with powerful oil-driven rotary disc vacuum pumps made by the Busch Company.



Benefits

- Reduction of oxygen content by up to max. 0.1%
- Constant high vacuum level
- Optimum conservation of moisture-sensitive and/or oxygen-sensitive products
- Long-term replacement part guarantee
- Service-friendly design
- Technically mature, long-life technology Made in Germany
- Gas ballast valve for the evacuation of larger quantities of steam

Technical data

Nominal pumping speed	25 m ³ /h	63 m ³ /h
Ultimate pressure (mBar)	0,1	0,1
Nominal motor rating (kW)*	~ 1	~ 2
Nominal motor speed (U/min)	1500	1500
Noise level (ISO 2151) (dB)	60	64
Oil capacity (liter)	1	1

* depends on the voltage supply

Accessories

1. Pump 25 m³/h or 63 m³/h, 1 phase; 230 V, 50 Hz/A.C. or pump 63 m³/h, 3 phases; 230/400 V, 50 Hz
2. Filter pot upstream of the vacuum pump
3. Adsorption filter cartridge
4. Lockable control flap
5. Additional shelving racks
6. Spool stand 450 x 150 mm including 16 brackets
7. Oxygen version vacuum pumps
8. Individual dimensions available on request
9. Packaging (stable cardboard box on wooden pallet)

