

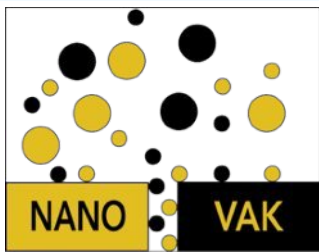


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Vacuum Furnace & Bake-Out Systems

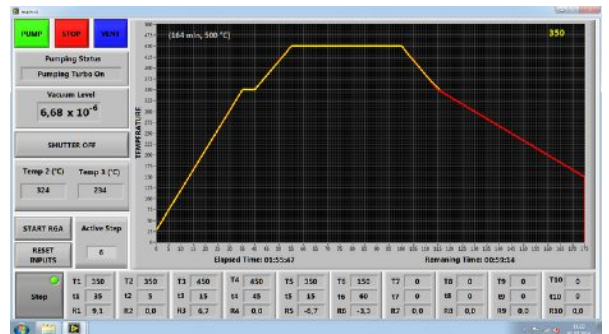
Vacuum Furnace and Bake-Out System is produced out of SS304. Furnace can be used for outgassing & baking of samples between 30 - 500 °C. Samples can be loaded vertically/horizontally. Various electrical feedthroughs can be added for real time monitoring of electronics. NANO VAK® Vacuum Furnace and Bake-Out System can be tailored to fit user desires.



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Vacuum Furnace & Bake-Out Systems



- Fully automatic computer control option, touch screen control panel with real time LCD displays.
- 50 - 500 °C high temperature PID controlled furnace inside the vacuum chamber.
- Adjustable (1 - 20 °C/minute) standart heating rate
- Vacuum chamber made of Stainless Steel Type 304, material. Clean, electro-polished surfaces.
- 2×10^{-6} Torr vacuum level in 30 minutes. 1×10^{-7} Torr vacuum level in one hour, for fully loaded system. 10^{-8} Torr base pressure level.
- Turbomolecular + Mechanical pump is standard, and dry pump is an option
- Wide range (1000 - 10^{-9} Torr) vacuum control and pressure measurement system
- Closed loop water cooling system when needed
- Mass flow meter gas inputs (Ar, N₂, O₂, He...) are optional, if desired
- 100 amu, residual gas analyzer optional, if desired
- 1 - 3 m³ working volume, can be changed as desired
- 10 steps, (up to 40 steps) programmable PID controlled temperature profile
- Thermal Annealing - Quenching applications can be done with ± 50 °C/min cooling - heating rates.
- Rapid cycle times to allow 2 - 3 experiments per day, depending on load volume
- Isolation valves, chamber backfill with Ar or N₂ as desired
- Power failure protection, the chamber remains under vacuum with isolation valve when not in use to keep the chamber in vacuum
- 75x120 cm system footprint, lockable wheels,
- Two year warranty for design, materials and workmanship