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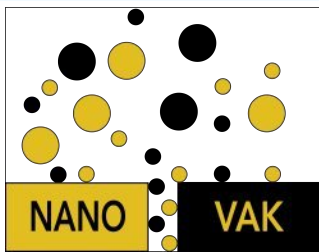


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Glove-Box Adapted Vacuum Systems

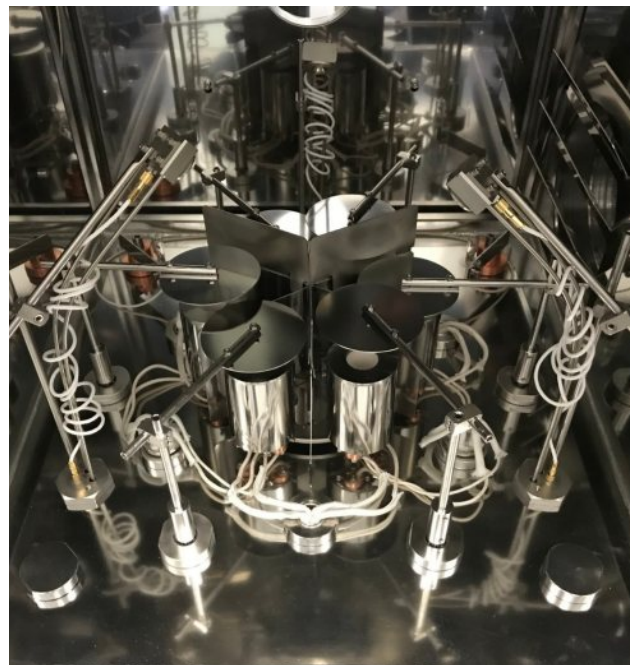
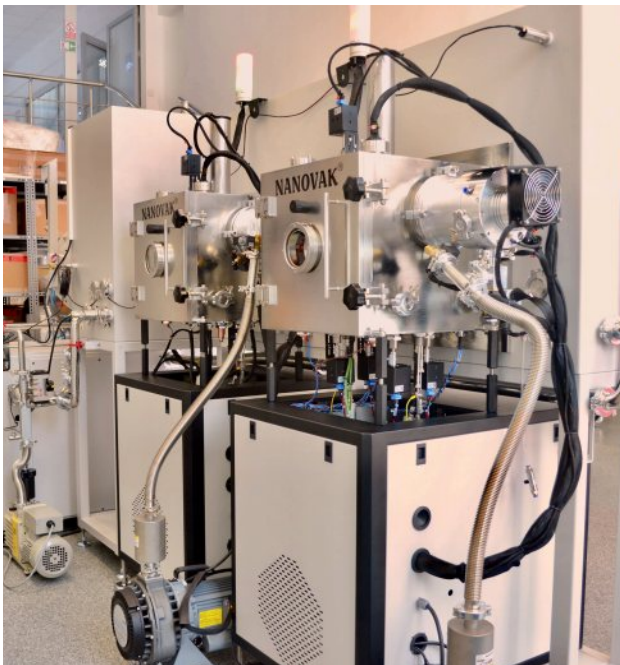
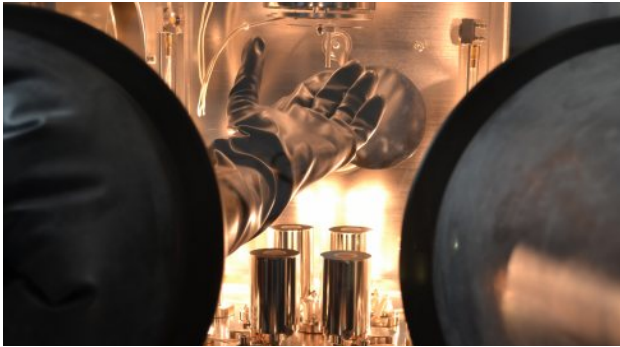
Nanovak Glove-Box Systems are combinations of Glove-Box units which is supplied by dedicated Glove-Box specialists and NANOVAK vacuum and electronic components. These systems can be configured with one or two vacuum chambers with hinged doors in the back and sliding doors in the Glove-Box side. There are added components such as vacuum pumps, QCM units. Systems easily pump down to 1×10^{-7} Torr vacuum levels. Additionally, components like thickness monitors, sputter guns, evaporation sources, effusion cells can be added for different purposes. The chambers are e-polished inside and outside. Systems are configured to run automatically by computers with tailored LabVIEW programs. The Glove-Box sustains 0.1 ppm water vapor and oxygen levels with its blower and filter apparatus.



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Glove-Box Adapted Vacuum Systems



- Prismatic vacuum chamber made of SS304 30/40/50 cm in size with sliding doors
- Inside and outside feather-touch, clean, electro-polished surface
- Thermal evaporation, e-beam, sputtering and vacuum furnace applications
- Front viewing window and rotatable protection shutter.
- 100 mm front observation window, UV-blocking glass
- KF25, CF40, 1" feed-through. 200 °C resistant viton o-rings in all ports
- Inficon 1000 - 10^{-9} Torr wide range vacuum control and measurement system
- Turbomolecular + Mechanical pump combination and 10^{-8} Torr base pressure for fully loaded system
- Automatic vent, throttle, isolation valves when needed

- 4 thermal inorganic evaporation and 2-6 organic evaporation sources
- Effusion cells for organic evaporation with 25 - 600 ± 1 °C PID control
- Automatic closed loop water cooling system
- Fully automatic computer control with touch screen panel
- 2 - 30 rpm sample rotation unit, 100 - 600 °C rotating sample holder, heater
- Film thickness measurement with 0,1Å/s dual-channel precision rate and thickness measurement
- Single phase, 220VAC - 16A
- Simple operation and rapid cycle time, 1.5 hours per experiment at 10^{-7} Torr
- Full warranty for materials, design and workmanship