

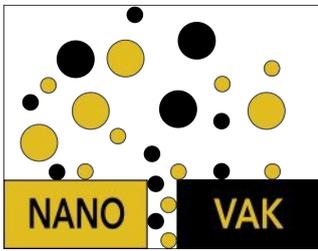
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Space Simulator Systems

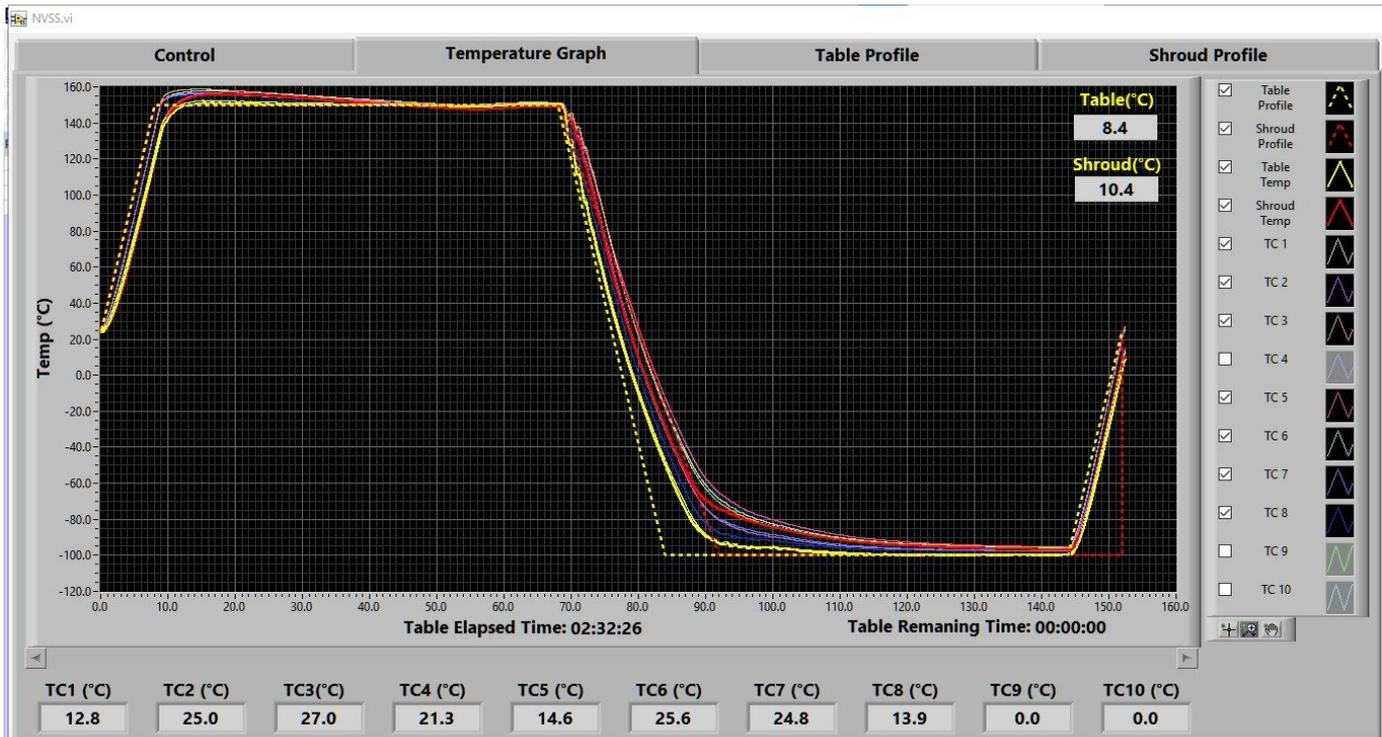
NANOVAK Ar-Ge A.Ş. has developed space simulator systems that enable the user to conduct vacuum, gas, temperature dependent experiments using a computer user interface. The chamber volume may be 200 - 1000 lt. and can house a thermal table which may be heated and cooled and may carry loads up to 100 kg. Base pressure level is 10^{-7} Torr and pressure can also be controlled by leaking mixture of Ar, N₂ and O₂, H₂ gases from 10^{-7} to 1000 mbar. The table can be cycled between -100°C and +150°C for long periods.



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Space Simulator Systems



Screen shot of a run, where table temperature profile, temperatures and vacuum level are displayed on the screen.

- Thermal table temperature is PID controlled and follows a multi-step, user programmable profile that varies between -100°C / $+150^{\circ}\text{C}$ continuously. The table has been tested under 400 W thermal load and functions properly. Table temperature can be changed at adjustable rates.
- In addition, Several auxiliary thermocouples are supplied to monitor temperature of various parts of the test sample. The computer program displays 10 different temperatures on the screen continuously. Log of vacuum level, 10 different temperatures and temperature profile of the table are kept in a file for each run.
- High voltage and high current electrical feedthroughs as well as BNC, RF and multi-pin connector feedthroughs can be supplied in desired configurations to carry out electrical measurements during tests.
- The chamber is equipped with several sight windows. For optical measurements, Quartz, Sapphire and Germanium windows can also be installed.
- All system operations can be controlled using a simple LabVIEW program on the computer. Due to unique design

of the system rapid cycle-times enables the user to conduct 2-3 experiments per day.

