NWTF 🚬

University of Oxford Low Density Tunnel HS3

Designation: Hypersonic Rarefied Flow,
Performance Working gas: Air (Knudsen No: 0.001-0.3) Mach Number: 5.5 – 9 Maximum Flow Speed: n/a Reynolds No: $60x10^3/m - 120x10^3/m$ Total Pressure: n/k Dynamic Pressure: n/a Total Temperature: n/k Turbulence intensity: n/k Run Time: Continuous Typical Recharge Time: n/a.
Flow visualisation: high speed Schlieren, hot films, thermographic liquid crystal.

Specialist Rigs:

- Large diffusion pump drive system
- Three-dimensional traverse for docking and stage separation simulation.