

9x7 Low Speed Wind Tunnel – Glasgow University

Location: University of Glasgow	Designation: Low Speed Closed Return
Owner(s): Aerospace Sciences Division. School of Engineering University of Glasgow, Glasgow, G12 8QQ United Kingdom	Performance: Mach Number: 0.2 (max) Maximum Flow Speed: 60 m/s Reynolds No: 4×10^6 /m (max) Total Pressure: 1 bar Dynamic Pressure: Up to 2.2 kN/m ² Total Temperature: Ambient to 300K Turbulence intensity: <0.2% Run Time: Continuous Typical Recharge Time: n/a.
Test Section Size: 2.74m x 2.1m x 5m 5:1 contraction ratio.	
Operational Status: Active	
Number and Type of Staff: Scientific: 2 Technical Support: 5+	Testing Capabilities: Model Support: platform load cell beneath working section, and various capacity load cells Data Acquisition: 192 channel simultaneous data acquisition (16 bit) at up to 500kHz. . Outputs: Forces & moments; pressure; velocity (Stereo PIV for high resolution over large area – up to 1m x 1m), 3 component LDA with 1m x 1m x 1m traverse; multi-hole pressure probes; DIC Flow visualisation: Smoke, video, surface fluorescent oilflow.
Test support: Workshop for wind tunnel model design, manufacture and modification capability.	
Notes: This is the former British Aerospace/ deHavilland wind tunnel from Hatfield, Herts. It was moved to Glasgow in the early 1990s. Specialist Rigs: • Dynamic stall; • Rotor rigs have been developed and used in this tunnel. • Sting support system	