

# **Anechoic Wind Tunnel**





The FSU Anechoic Wind Tunnel is an open-circuit subsonic facility which has a 36" x 48" x 120" test section with a speed range of approximately 18-75 m/s. The facility employs a 450-hp centrifugal fan and has an anechoic chamber with a 250 Hz cut-on frequency enclosing the test section. The open-jet can be converted into a closed-wall wind tunnel as it has a removable test section with excellent optical access. The facility will be used for aerodynamic and aeroacoustic studies of various flow-induced noise phenomenon and boasts state-of-the-art experimental fluid dynamic and aeroacoustic measurement capabilities.

## Introduction of the Florida Center for Advanced Aero-Propulsion Laboratories

## **Closed Walled Configuration**

The optional closed walled test section has exceptional optical access for noninstrusive flow measurements and is equipped with a versatile modular test stand to tolerate the variety of experimental setups encountered.





## Specifications

Item	Specification
Wind Tunnel	Open-circuit, open-jet or closed walled
Test Section	48" x 36" x 120"
Mach Number Range	0.05 - 0.22
Anechoic Chamber Low Frequency Cutoff	250 Hz
Background Noise*	80 dBA ( $M = 0.15$ )
Turbulence Intensity	< 0.1%
RMS Inlet Flow Nonuniformity	< 1%

\*Currently not fully treated

## Contact

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