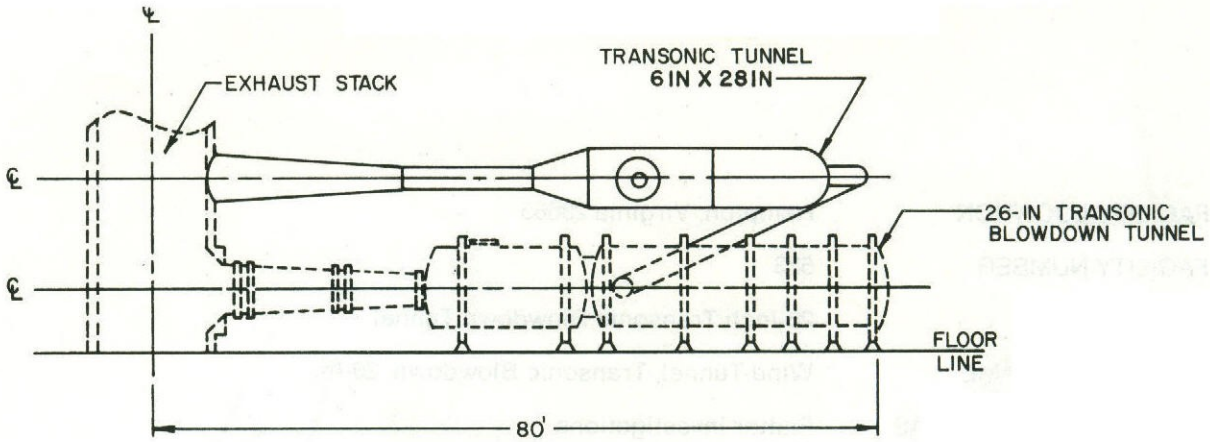

DESCRIPTION

This tunnel is a 2-dimensional facility with solid parallel sidewalls and slotted top and bottom walls. A supply of dry, compressed air provides direct blowdown operation. Mach number, angle of attack, and stagnation pressure are independently controllable so that data may be obtained at a constant Reynolds number.

Real-time visual displays of data being recorded are available. Typical airfoils have a chord of 6 in. and completely span the 6-in. width of the tunnel.

CHARACTERISTICS

Mach Number: 0.2 to 1.2

Stagnation Pressure, psia: 30 to 90

Stagnation Temperature, °R: 430 to 530

Reynolds Number (based on 6-in. chord): 2×10^6 to 10×10^6

Running Time (depending on Mach number and stagnation pressure), sec: 30 to 300