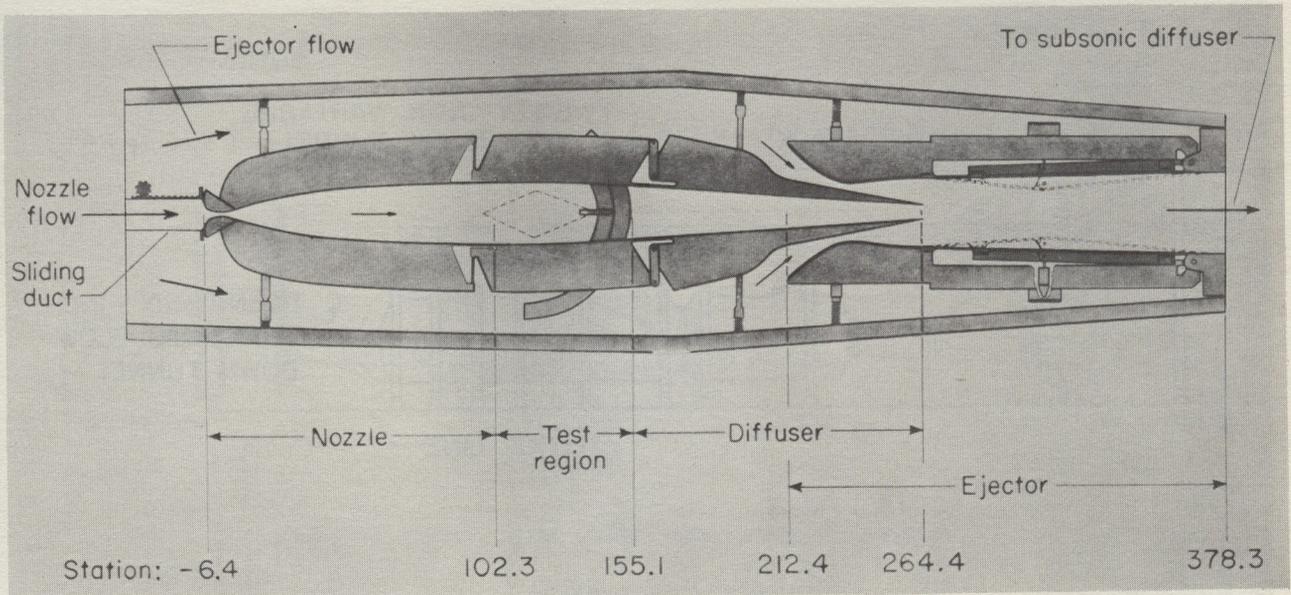


## LANGLEY 2-FOOT HYPERSONIC FACILITY



The Langley 2-foot hypersonic facility is located in Buildings 640 and 641 and is under the direction of the Full-Scale Research Division. Test medium is air and is heated at higher Mach numbers by electrical resistance heater. Model mounting consists of a vertical sting and a side sting. Test section is 24 inches high, 24 inches wide, and 54 inches long. Facility is closed-circuit, ejector type with variable area throat. Examples of operating conditions are as follows:

Mach number . . . . .	3.0	4.5	6.0
Stagnation pressure, psia . . . .	2.94 to 14.7	5.88 to 23.5	29.4 to 54.4
Stagnation temperature, °R . . . .	540 to 530	610 to 960	760 to 960
Dynamic pressure, lb/sq ft . . . .	84 to 360	56 to 175	68 to 123
Reynolds number per foot . . . . .	$0.5 \times 10^6$ to $2.4 \times 10^6$	$0.1 \times 10^6$ to $1.2 \times 10^6$	$0.5 \times 10^6$ to $1.2 \times 10^6$
Running time . . . . .	Continuous	Continuous	Continuous