

# Hypersonic Propulsion Facilities

PARAMETER	APTU	APTU MOD*	HTF	HTF MOD	HTT	HTT MOD	T-RANGE	T-RANGE MOD
Mach Number	4.1	4.1, 6, 8	5, 6, 7		4, 5, 6**-7		2.7	8
Altitude, Kft	65-80	65-80	68-120		55-130		0-70	0-70
Run Time, Min	2-12	1-15	0-5		1-1.5		0-20	0-30
Nozzle Exit Dia. ft	2.7-3.5	2.7-3.5	3.5		8		1.5	1.5
Nozzle Exit Area ft <sup>2</sup>	8-10	8-10	10		50		1.77	1.77
Mass Flow, lb/sec	100-1500	100-1500	25-222		120-1,225		2-250	2-250
Installed Length, ft	25 L	25 L	9.8 L		12 L		25 L	25 L
Air Storage, ft <sup>3</sup>	28,000	33,000***	N/A		14,700		2,900	6,000

\* 80% of hardware in hand    \*\* Lower Mach Number obtained by water condensation using Mach 7 nozzle

\*\*\* High pressure air storage upgrade not solely for APTU - upgrade justified by AEDC-wide need