

Analysis Condition Parameters

Parameters		Units		Configuration			
		English	SI	RSW (English units)	BSCW (English units)	HIRENASD (SI units)	HIRENASD (SI units)
Mach number	M			0.826	0.848	0.8003	0.8
Reynolds number (based on ref chord)	Re _c			4.01E+06	4.49E+06	7001020	23483300
Dynamic pressure	q	psf		108.65	204.20		
Velocity	V	ft/s	m/s	413.73	468.98	257.02	220.44
Speed of sound	a	ft/s		501.18	552.93		
Static temperature	T _{stat}	deg F	Deg K	37.12	87.91	248.2	182.776
Density		slug/ft^3	kg/m³	0.001270	0.001857	1.2001	3.628
Ratio of specific heats				1.132	1.116		
Dynamic viscosity		slug/ft-s		2.620E-07	2.590E-07		
Prandtl number	Pr			0.78	0.67	0.72	0.72
Test medium				R-12	R-134a	Nitrogen	Nitrogen
Total pressure	H	psf		410.48	757.31		
Static pressure	P	psf	Pa	280.76	512.12	88460.7	196816.89
Purity	X	%			95		
Total temperature	T	deg F		60.00	109.59		