



INPUT PARAMETERS	UNITS	VALUES
Flux		<input type="text" value="0"/> <small>W/m²</small>
Inner Temperature	K	<input type="text" value="300"/>
Outer Temperature	K	<input type="text" value="30"/>
Mass Flow	kg/s	<input type="text" value="2.2"/>
Chamber Profile ($r = A \cdot x^2 + B \cdot x + C$) = $r = f(x)$		
A		<input type="text" value="0"/>
B		<input type="text" value="0"/>
C		<input type="text" value="0"/>
D		<input type="text" value="0"/>
E		<input type="text" value="0"/>
F		<input type="text" value="1"/>
G		<input type="text" value="0"/>
Chamber Length	m	<input type="text" value="0.5"/>
Chamber Deviation Angle	°	<input type="text" value="0"/>
Tube Material		
Tube Outer	m	<input type="text" value="0.0254"/>
Tube Inner	m	<input type="text" value="0.020324"/>
Initial Bray Angle (From receiver axis)	°	<input type="text" value="75"/>
EST Function		
Mesh Material	mm	<input type="text" value="1"/>
Est Deviation?	mm	<input type="text" value="0.0254"/>
Est Start (along tube)	m	<input type="text" value="0"/>
Est End (along tube)	m	<input type="text" value="1.58"/>
Mesh Type	mm	<input type="text" value="0.00762"/>
Compression Factor		<input type="text" value="0.9"/>
Number of Axis Sections		
Number of Circumferential Sections	#	<input type="text" value="3"/>
OF Convergence Threshold		<input type="text" value="0.001"/>
TDP (N)		
TOPIST		<input type="text" value="0.0001"/>
NOOP		<input type="text" value="40"/>
new index		<input type="text" value="0"/>
Ambient Temperature		
Insulation Material	K	<input type="text" value="0"/>
Insulation Thickness		<input type="text" value="0.5"/>

- An s-CO₂ Brayton Engine Cycle that will provide the baseline statepoints which will guide the design the receiver
 - Anticipated completion date: 15 December 2012
 - RISK: Receiver statepoints derived from an s-CO₂ Cycle Model should be forthcoming from an engine developer. Delays on the developer side are outside Brayton control
 - MITIGATION: In-house models and calculations may be used to produce representative statepoint values that may be updated when specific statepoints become available