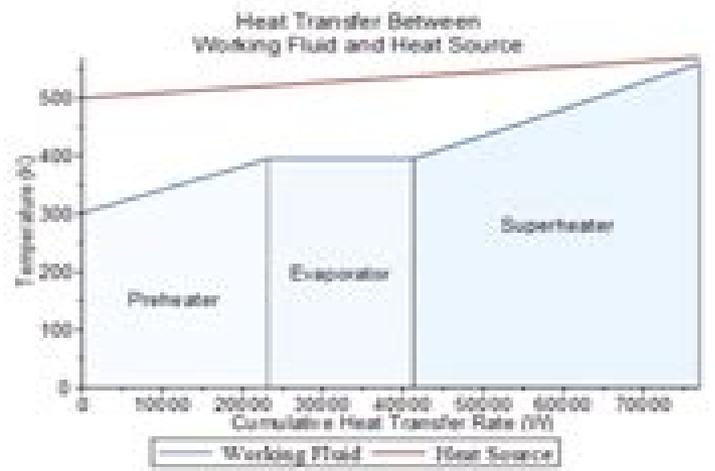
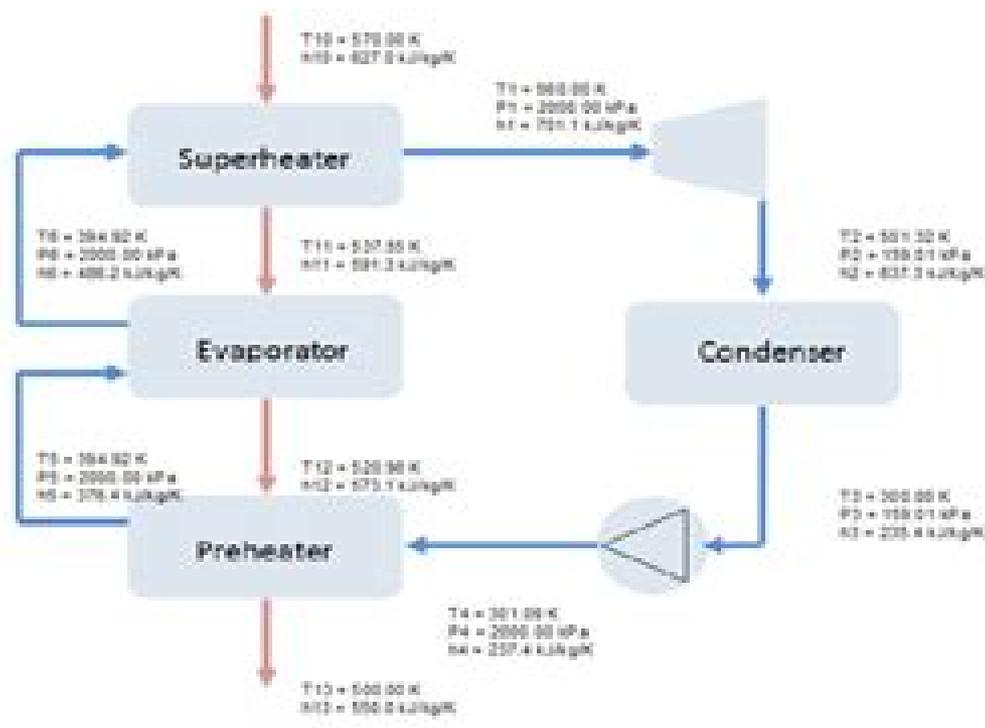


Thermodynamic Cycle



Turbine Power	10.40 kW
Pump Power	-0.33 kW
Cycle Net Power	10.07 kW
Heat Produced	71.00 kW
Cycle Net Efficiency	14.18%

Parameters

Working Fluid	<input type="text" value="R245fa"/>	Pump Isentropic Efficiency	<input type="text" value="0.7"/>
Heat Source Inlet Temperature T10	<input type="text" value="570"/> K	Expander Isentropic Efficiency	<input type="text" value="0.8"/>
Heat Source Inlet Rate	<input type="text" value="1"/> kg s ⁻¹	Heat Source Specific Heat Capacity	<input type="text" value="2100"/> J kg ⁻¹ K ⁻¹
Expander Inlet Temperature T1	<input type="text" value="500"/> K	Expander Inlet Pressure P1	<input type="text" value="2000000"/> Pa
Heat Source Outlet Temperature T13	<input type="text" value="500"/> K	Condenser Outlet Temperature T3	<input type="text" value="300"/> K

Maple Application For Engineers

Wenbin Ji

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