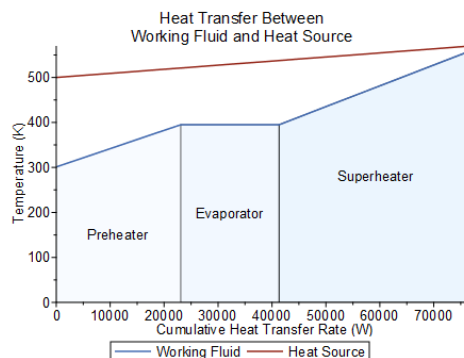
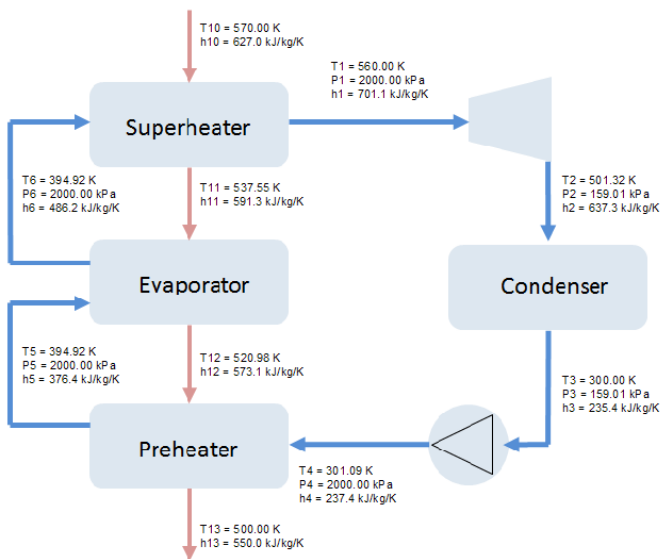


# Subcritical Organic Rankine Cycle

## Thermodynamic Cycle



Turbine Power	10.60 kW
Pump Power	-0.33 kW
Cycle Net Power	10.27 kW
Heat Produced	77.00 kW
Cycle Net Efficiency	13.34%

## 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 flowrate	<input type="text" value="1"/> kg s <sup>-1</sup>	Heat Source Specific Heat Capacity	<input type="text" value="1100"/> J kg <sup>-1</sup> K <sup>-1</sup>
Expander Inlet Temperature T1	<input type="text" value="560"/> 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