



# Design Report

## Shell and Tube type heat exchanger design by improved Delaware method with MATLAB program

Shell outside Diameter =                      mm

Tube inside diameter =                      mm

Tube thermal conductivity =    380 W/ m<sup>2</sup> k

Tube inlet temp =    C

Tube outlet Temp =    C

Shell inlet temp =    C

Shell outlet temp =    C

No of Baffles =

Central Baffle Distance =    mm

Heat Transfer Rate =    W

Overall Heat transfer Coefficient =    W/ m<sup>2</sup> k

Pressura Drop across shell side =                      KPa

No of Tubes =

No of Passes =

Tube Layout Characteristics angle =

Tube side heat transfer coefficient = W/ m<sup>2</sup> k

Shell side heat transfer coefficient = W/ m<sup>2</sup> k

Effectiveness =

# STHE Design Software Report