# **BRINE SOLUTION HEAT EXCHANGE ANALYSIS**

Project ID: BR:3324

## **REQUIREMENTS**

**Building Type: Apartment** 

Number of rooms: 6

Area: 400.0

Temperature: 35.0 Water Body: Lake

Distance To Waterbody: 200.0 Water Body Temperature: 30.0

**Building Material: Bricks** 

### PIPE TRANSFER ANALYZE

Material: copper

Diameter (mm): 250.0

Length (m): 800.0

Insulation Thickness (mm): 20.0

Pressure (Pa): 1200.0

Heat Transfer Coefficient (W/m²K): 220.0

# **HEAT EXCHANGE ANALYZE**

Q Primary: 746700.0

Q Secondary: 497800.0

### **BRINE INTAKE ANALYZE**

Brine Solution: Magnesium Chloride Thermal Conductivity (W/(m·K)): 0.9

Density (kg/m³): 1050.0

## **HEAT TESTING ANALYZE**

Final Temperature: 479.0