# **BRINE SOLUTION HEAT EXCHANGE ANALYSIS**

Project ID: BR:8275

## **REQUIREMENTS**

**Building Type: Apartment** 

Number of rooms: 3

Area: 500.0

Temperature: 25.0 Water Body: Lake

Distance To Waterbody: 1000.0 Water Body Temperature: 30.0 Building Material: Concrete

### PIPE TRANSFER ANALYZE

Material: copper

Diameter (mm): 250.0 Length (m): 5000.0

Insulation Thickness (mm): 20.0

Pressure (Pa): 1200.0

Heat Transfer Coefficient (W/m²K): 220.0

# **HEAT EXCHANGE ANALYZE**

Q Primary: 715680.0 Q Secondary: 477120.0

### **BRINE INTAKE ANALYZE**

Brine Solution: Magnesium Chloride Thermal Conductivity (W/(m·K)): 0.5

Density (kg/m³): 1150.0

## **HEAT TESTING ANALYZE**

Final Temperature: 350.0