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)): 0.9

Density (kg/m³): 1050.0

HEAT TESTING ANALYZE

Final Temperature: 350.0