BRINE SOLUTION HEAT EXCHANGE ANALYSIS

Project ID: BR:6185

REQUIREMENTS

Building Type: Apartment

Number of rooms: 2

Area: 200.0

Temperature: 45.0 Water Body: Lake

Distance To Waterbody: 20.0
Water Body Temperature: 20.0

Building Material: Bricks

PIPE TRANSFER ANALYZE

Material: stainless steel Diameter (mm): 300.0

Length (m): 40.0

Insulation Thickness (mm): 30.0

Pressure (Pa): 1500.0

Heat Transfer Coefficient (W/m²K): 250.0

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: 489.0