

## Multi-Stage Evaporator System

[Inventory ID #1551924]



### Multi-Stage Evaporator System

- Type: Evaporator System
- Condition: Used Condition
- Construction:
  - Primary Components: Hastelloy C22 or C276
  - Auxiliary Components: Stainless Steel and Glass-Lined
- 18in Dia. Packed Column:
  - Make: Chuck Gurdin
  - Construction: Hastelloy - C22
  - Size: 18in Dia. (457.2mm Dia.)
  - Pressure: 20psi (1.38 bar)
  - Temperature: 400°F (204.4°C)
- Plate and Frame Heat Exchangers:
  - Make: Trantor
  - Model: UX-216-HJ-9
  - Construction: Hastelloy - C276
  - Heat Transfer Surface Area: 16.1ft<sup>2</sup> (1.5m<sup>2</sup>)
  - Plates: (6) Plates
  - Pressure: 75psi (5.2 bar)
  - Temperature: 300°F (148.9°C)
- Shell and Tube Heat Exchanger:
  - Make: Manning and Lewis

- Heat Transfer Surface Area: 639ft<sup>2</sup> (59.4m<sup>2</sup>)
- Orientation: Vertical
- Shell:
  - Pressure: 100psi (6.9 bar)
  - Temperature: 350°F (176.7°C)
  - Construction: Carbon Steel
- Tube:
  - Pressure: 100psi (6.9 bar)
  - Temperature: 350°F (176.7°C)
  - Construction: Stainless Steel Austenitic
- Centrifugal Recirculation Pump:
  - Make: Morris Pumps
  - Construction: Hastelloy
  - Flow Rate: 6,500GPM (1,476m<sup>3</sup>/h)
  - Head: 10ft (3m)
  - Pressure: 14psi (0.97 bar)
  - Drive: Electric Motor
    - Power Output: 40HP (29.8kW)
    - Rotation Speed: 1775RPM
- Recirculation Tank:
  - Capacity: 5,000 Gallon
  - Construction: Glass Lined
- Shell and Tube Heat Exchanger:
  - Heat Transfer Surface Area: 169ft<sup>2</sup>
  - Orientation: Vertical
  - Construction: Stainless Steel 316
- Shell and Tube Condenser:
  - Heat Transfer Surface Area: 484ft<sup>2</sup>
  - Construction: Stainless Steel 316
- Storage Tank:
  - Capacity: 12,000 Gallon
  - Construction: Stainless Steel 304
  - Orientation: Vertical
- 24in Dia. Packed Column:
  - Make: American Alloy Fabricators
  - Construction: Stainless Steel 316L
  - Size: 24in Dia. (609.6mm)
  - Pressure: 50psi (3.4 bar)
  - Temperature: 300°F (148.9°C)
  
- Location: Eastern USA

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