Well Testing

Heat Exchanger
WT-HTX-100 Series

The 100 Series Heat Exchanger is designed for maximum heat transfer and minimize foot print while utilizing steam, cooling water, heating water or heating oil as heat media. The exchanging surface is a single pass of 203 ¾” Duplex stainless tubes which equals an effective area of 536 ft². Typically, the 100 series heat exchange is used in conjunction with 100 series steam generator. As a package, heat transfer is efficiently maintained with minimal operator interface. However, the heat exchanger may also be utilized with cooling media with steam components in bypass. The heat exchanger meets all DNV, ABS, and API 14C guidelines.

Applications
- Refinery Industry
- Industrial Industry

Features & Benefits
- Single pass shell and tube heat exchanger
- Tubular Exchanger Manufacturers Association
  NEN (N-Channel Integral with tube-sheet & removable cover, E-One pass shell, N-Fixed tube sheet like “N” stationary head)
- Rapid Heating or Cooling
## Technical Specifications

### Equipment

- **Heat Exchanger & Cooler**
  - Skid Dimensions (L x W x H): 20’ x 8’ x 10’
  - Weight (lbs): 26,500

### Shell

- **MAWP (psi)**: 1,203
- **Maximum Temperature (°F)**: 500
- **Minimum Temperature (°F)**: -20
  - Inlet: 4” 206 Thread or 4” 600 RF
  - Outlet: 2” 600 RF or 4” 600 RF
  - PSV: 4” 600 RF

### Process

- **MAWP (psi) @ 200 °F**: 2,000
- **MAWP (psi) @ 500 °F**: 200
- **Minimum Temperature (°F)**: -20
  - Inlet: 4” 206 Thread or 4” 900 RTJ
  - Outlet: 4” 206 Wing or 4” 900 RTJ

- **Surface Area (ft²)**: 536
- **Deck Load Capacity (lbs/ft)**: 238

### Series Design Code

- ASME Boiler and Pressure Vessel Code, Section VIII, Division 1, 2010 UG-22, Nace MR175, Certifications DNV and ABS API 14C Compliant