



Point-of-Use WFI Cooling Application Requirements

The customer requires a sanitary cooler to handle **15 GPM of WFI/Purified Water**, reducing process fluid temperature from **65°C inlet to 25°C outlet**. Cooling is achieved using **44°F chilled water** on the shell side — a demanding duty cycle typical of pharmaceutical point-of-use loops requiring tight thermal control and full regulatory compliance.

Recommended Solution

Model

Exergy **02125, 95 Series** Sanitary Shell & Tube Heat Exchanger

Material of Construction

All wetted and structural components in **316L Stainless Steel** — fully compatible with WFI and purified water service

Surface Finish

15 µin (0.4 µm) Ra Max, Electropolished — meets ASME BPE and cGMP surface quality standards

Technical Specifications



33.79

ft² Heat Transfer Area

Optimized surface area for the specified thermal duty

0.4µm

Ra Max Surface Finish

Electropolished internal surfaces, BPE-compliant

4"

Shell Diameter

Compact footprint for point-of-use installation

31"

Tube Length

Double tubesheet construction for cross-contamination prevention

Double Tubesheet Design: Prevents intermixing of process fluid and utility coolant, a critical safety feature for WFI and high-purity water applications under FDA/cGMP oversight.

Contact Exergy

Reach your local Exergy representative to discuss application-specific configurations, documentation packages (material certs, FAT protocols), or to request a formal quotation for this or similar sanitary heat transfer solutions.

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