

HEAT EXCHANGERS & LARGE VESSELS

Our designs are based on quick and refined technologies. We have acquired ASME STAMP (U, U2, S, PP) and ISO 9001/2000 to ensure customer satisfaction and product confidence. Our factories also operate the R&D Center and the quality assurance system to fully comply with customer requirements.

Deaerators

Typical Deaerator for 800MWe TPP

- A. Design Pressure: 15kg/cm²
- B. Design temp.: 380°C
- C. Size (OD x L x T): 4,056 x 30,400 x 28
- D. Weight: 153.4

Feedwater Heaters

Typical LP/HP Feedwater heater for 800MWe TPP

LP Feedwater Heater

- A. Material: A516-70 / A688-304L
- B. Design pressure (shell/tube): 7.37 / 52 kg/cm²G
- C. Design temp (shell out/inlet, tube): 172/329, 172°C
- D. Size (L x OD x T): 13,310 x 1,485 x 12
- E. Weight (ton): 24.8

HP Feedwater Heater

- A. Material: A516-70 / A213-304N
- B. Design pressure (shell/tube): 88 / 370 kg/cm²G
- C. Design temp (shell out/inlet, tube): 302/405, 302°C
- D. Size (L x OD x T): 13,030 x 1,585 x 52
- E. Weight (ton): 67.9

CCW Heat Exchangers

Typical CCW Heat Exchangers for 800MWe TPP

- A. Material: A516-70 / B111-70600
- B. Design pressure: 10.5 / 10.5kg / cm²G
- C. Design temp: 60 / 60°C
- D. Size (L x OD x T): 14,700 x 1,706 x 13
- E. Weight (ton): 54.5

Oxygen Plant Heat Exchangers

- A. Material: STS304 / C6,870T, A240-304 / C6,870TS
- B. Design pressure: 7bar
- C. Design temp: 100 / 200°C
- D. Size (L x OD x T): 5,425 x 899 x 10
- E. Weight (ton): 4.1

Air Cooled Heat Exchanger

- A. Material: A516-70/A214
- B. Design pressure: 3.6kg/cm²G
- C. Design temp: 100°C
- D. Size (W x L x H): 13,300 x 13,184 x 8,938
- E. Weight (ton): 65.6

Recuperator

Channel Type

- A. Use: 250 ton/hr Reheating Furnace
- B. Material: DIN1.4749,4742,4720
- C. Design temp: 900°C
- D. Size: L1,625 x OD2,650 x T4,390
- E. Weight (ton): 8.182 ton

Flue Tube Type

- A. Use: incinerator
- B. Material: STS316,304,STB340
- C. Design temp: 900°C
- D. Size: L1,876 x OD1,876 x T14,395
- E. Weight (ton): 16.912 ton

CDQ Boiler

- A. Material: STB410 etc
- B. Design pressure: 105kg/cm²
- C. Design temp: 545°C
- D. Size (L x OD x T): 10,800 x 14,950 x 33,450
- E. Weight (ton): 716.5

Waste Heat Recovery System

- A. Capacity: 45t/h
- B. Pressure: 15 kg/cm²G
- C. Temperature: 197°C
- D. Inlet Gas: 729,000m³ / hx300°C
- E. Weight: 230 tons

- A. Capacity: For 100MW Boiler
- B. Pressure: 10/kg/cm²G
- C. Temperature: 180°C
- D. Inlet Gas: 563,254Nm³/hx180°C
- E. Weight: 180 tons

Heat Exchanger (Shell and Tube Type)

- A. Design pressure: 40kg/cm²G
- B. Design Temp: 260°C
- C. Size: OD 3,000 x L 20,000 mm
- D. Weight: 50 ton/set

Pressure Vessels

HRSG

Boiler Panel and Coils