



Air Cooled Condenser

- Project Name: Santo Domingo de los Olleros Combined Cycle Conversion
- 1 x 1 CCPP Utilizing Siemens SGT65000F(4) Gas Turbine and a Siemens SST-900RH Axial Exhaust Steam Turbine
- Site: Peru
- End User: Termochilca S.A.C.
- Buyer: Siemens Energy Inc.

Unit Size

3 Street
12 Module
168 Bundle

Delivery

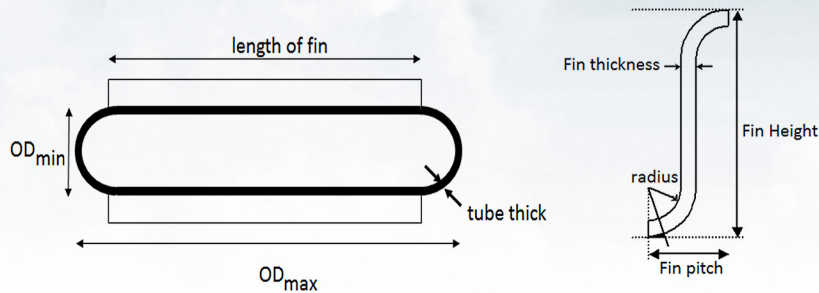
Date : Nov. 21, 2016
Condition : DAT Port of
Callao, Peru

Technical Specification

Power Output: GT (200MW) / ST (100MW)
Single Row Condenser
Total Steam Mass Flow: 284.196 t/h
Back Pressure at Turbine: 9.4 KPa
Wind Velocity: 5 m/s
Acoustic Guarantee:
* Near Field (3ft): 85 dBA
* Far Field (400ft): 60 dBA



Single Row Tube Geometric



- OD_{min} x OD_{max} = 19 mm x 219 mm
- Tube thickness = 1.5 mm
- L_{fin} x H_{fin} = 200 mm x 19 mm
- Fin thickness = 0.25 mm - 11 FPI

Automatic production process
Automatic welding on tube to tubesheet joint



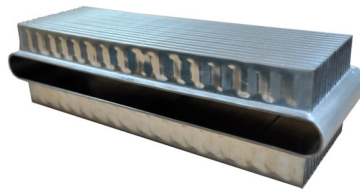
Production Process (Flat Finned Tube)



Jig assembly



Brazing oven



ACC Tube Bundle Cleaning System

- Performance improvement
 - Steam turbine back pressure :
→15-20% decrease
 - Fan air volume flow :
→10-15 % increase
- Semi-automatic operation

- Movement
 - Vertical – by motor w/tooth belt
 - Horizontal – by hand manual
- High pressure cleaning- Max 80 Bar
- Cleaning rig and Drive Unit
- Spray nozzle beam Unit
- Control panel

