



CASE STUDY

| | |
|---------------------------|--|
| Client | Warri Refining and Petrochemical Co. Ltd. |
| Project | New build Condenser Train |
| Scope of supply | 16 Air finned coolers |
| Project value | 4 - 6 mio |
| Manufacturing year | 2015 |
| Start Date | 01-10-2014 |
| Finish Date | 21-12-2015 |
| Capacity needed | 14.000 hours |



Design conditions

| | |
|-------------------------------------|--|
| Design code | ASME VIII DIV.1 / API 661 |
| Tube side pressure | FV / 1 BarG |
| Temperature degrees Celsius | 20-99°C |
| Medium tube side | Steam / vapour |
| Third-Party Inspection (TPI) | Bureau Veritas |
| NDT | 100% RT / MT / UT / PT 100% hydrostatic tested on tubes |

Finned tubes (per item)

| | |
|-----------------------------------|---|
| No. tubes | 200 |
| Tube material | SA-179 |
| Dimensions tube | 25.40mm x 2.11MW x 7315.00mm |
| Fins | Type G (Embedded), 11 fins/inch, OD 57.1, aluminium |
| Tube-tube sheet connection | Seal welded + expanding (5-7%) |



One air finned cooler

Empty weight

5.020 Kg (incl. side frame)

Capacity

720 Liter

Length / width

7,0m / 2,8m

Effective surface area

2.700m²

Slope

4,57° (8%)

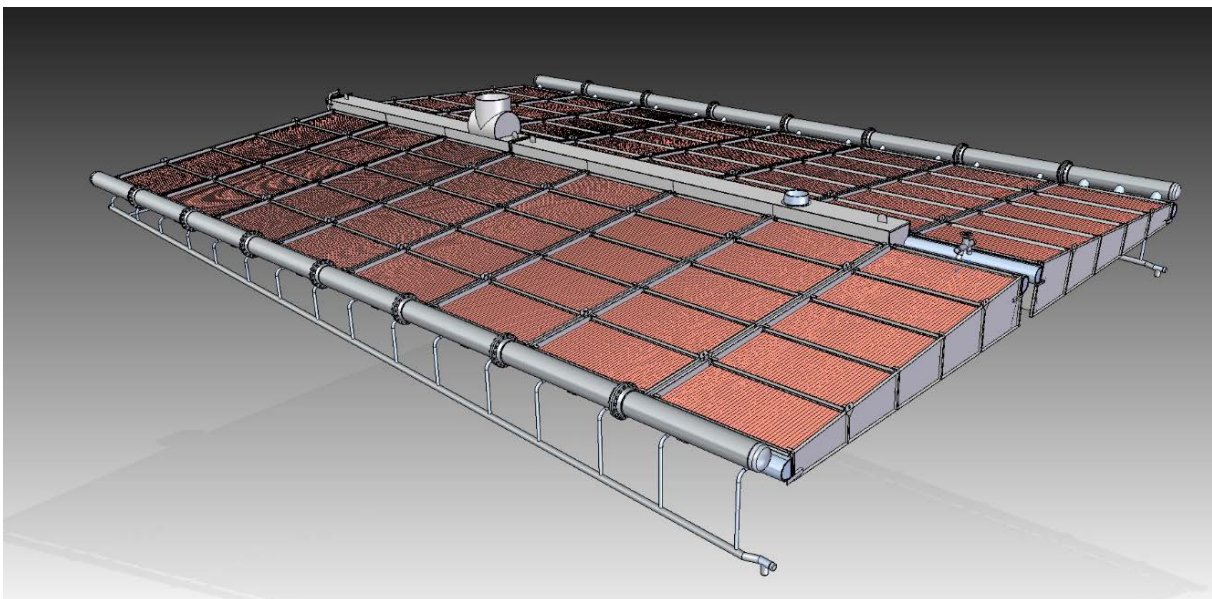
Complete Condenser train

Empty weight

105.000 Kg (incl. side fame + inlet manifold + outlet)

Length / width

22,5 / 15m



3D impression of CONDERSER TRAIN

.... merkbaar efficiënt

DRAWINGS

