KELVION

Advanced Services

BUNDLE CLEANING—CHEMCIAL PLANT CASE STUDY

HYDROQUINONE CONDENSER

In early 2015, Kelvion Thermal Services started a yearly contracted onsite external bundle cleaning service, at a Chemical Plant in France.

The prior to the first cleaning service, fouling had never been correctly removed, and built up year-on-year leading to the fans recirculating air at the inlet.

The site's hydroquinone condenser was struggling at higher ambient temperatures during summertime, this created process bottleneck at the column, reducing the potential production flowrate.

The cleaning service covered the two AFC units across the HQPC Plant. Starting in early June and ending in early July. The ambient air was at 32-34°C daily.

Once the unit was cleaned the outlet temperature was reduced by 6°C, even during peak summertime temperatures.

Results :

The cleaning service for the site was a great success:

- Outlet Temperature was reduced by 6°C.
- Site calculated 20% increase on production.

Key figures :

	Before	After
Outlet temperature	58 °C	52 °C
Airflow	37.6 m^3/s	49.7 m^3/s
Ambient temperature	34 °C	34 °C

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