

Insight Suite AE

Heat Exchanger Diagnostics

The Challenges for Customers

- A lack of expertise in performing early-stage diagnosis of heat exchanger problems to minimize maintenance shutdown costs
- Currently available tools are difficult to use and require high-level expertise to interpret results. Most are intended only for offline-use.

Shell side

Shell side fluid in

Baffles

Tube side fluid out

Heat Exchanger

Key Features of Heat Exchanger Diagnostics

- Evaluation of heat exchanger performance that helps optimize energy consumption
- Sophisticated fouling prediction mechanism that enables more proactive maintenance approach and cost savings on problematic heat exchangers

InsightSuiteAE Solutions for Heat Exchanger Diagnostics

- Smart algorithms developed by Yokogawa experts enable dynamic troubleshooting of heat exchanger performance. InsightSuiteAE takes a four-way approach to heat exchanger diagnosis by monitoring heat balance, thermal balance, fouling, and the rate of pressure drop.
- Key performance indicators (KPIs) allow users to keep track of heat exchanger effectiveness, thermal efficiency, and fouling rates.
- Daily reports generated by InsightSuiteAE give a quick grasp of all essential heat exchanger performance parameters.



Heat Exchanger Diagnostics



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The Benefits for Customers



- InsightSuiteAE's online monitoring helps eliminate heat exchanger failures and prevent plant shutdowns by showing current performance levels and long-term trends, and KPIs keep expenses down by showing the optimum time for heat exchanger cleaning.
- Daily reports quickly identify energy-inefficient assets, and KPIs alert operators to abnormalities, help engineers perform root cause analysis, and facilitate timely decisions by management.
- Yokogawa's unique and easy-to-configure diagnostic tool and services preempt failures by identifying the slightest deterioration in health and suggesting how a heat exchanger can be returned to optimum performance.

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