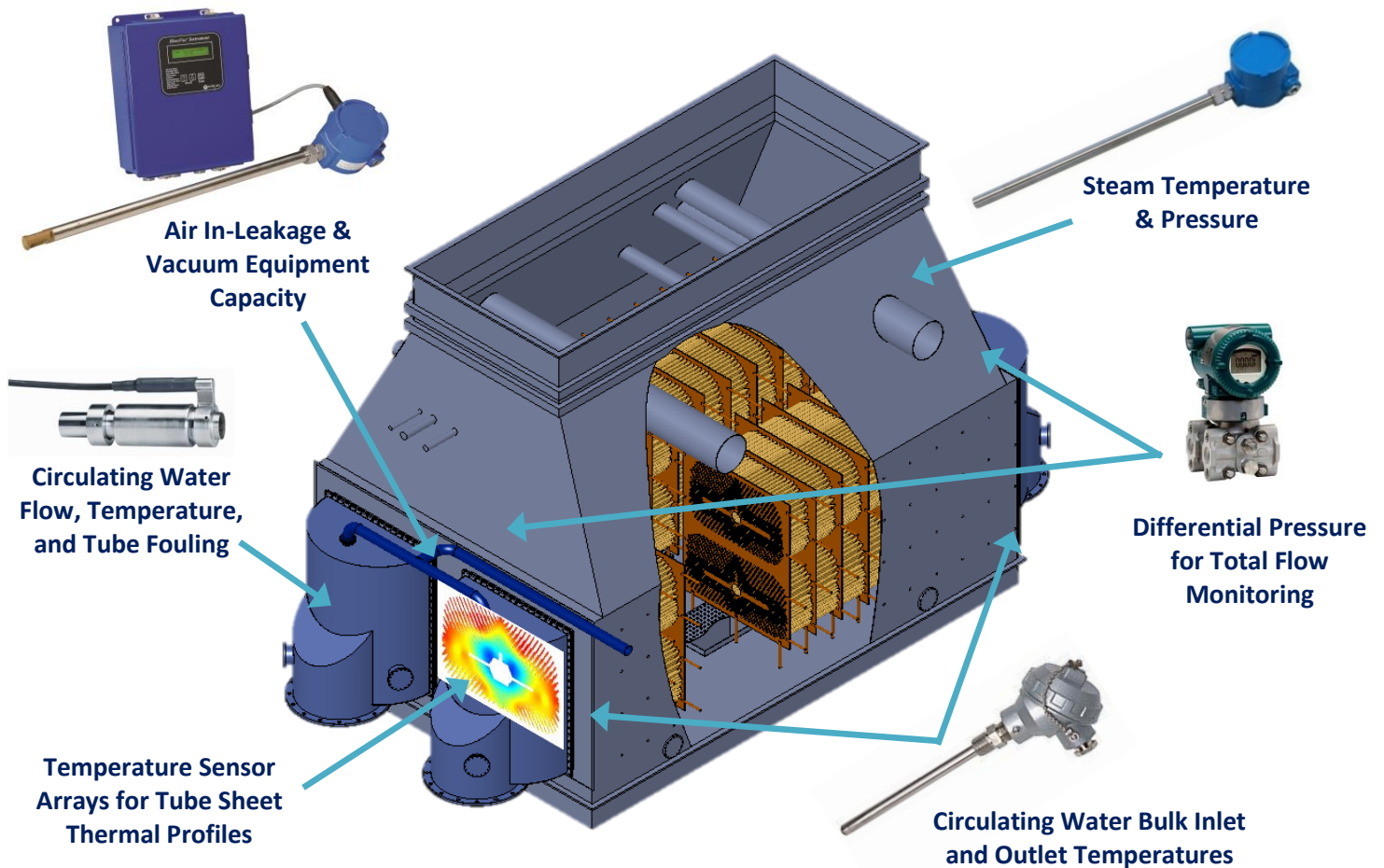


Condenser Performance Solutions

from
Your Condenser Performance Partner

Intek's unique instrumentation and process expertise enables measurement of condenser performance to identify the sources of performance loss.



Intek helps you optimize the performance of your condenser by:

- Quantifying all sources of performance degradation
- Monitoring exhauster performance and air removal efficiency
- Identifying and quantifying condenser tube micro and macro fouling
- Identifying potential sources of dissolved oxygen (DO) and condensate chemistry upset
- Providing solutions to improve condenser performance and condensate chemistry
- Providing solutions to decrease condenser pressure and generate more MW

Instrumentation

RheoVac® Condenser Monitor



- Multi-sensor probe installed in the condenser air off-takes to calculate the non-condensable flow, exhauster capacity, and water-to-air mass ratio.
- Provides direct measurement of condenser vacuum quality and stagnant zones (air binding in the air cooling zone) within the tube bundles of the condenser.

Rheotherm® Circulating Water Flow and Fouling Sensor



- Installed in multiple locations in the outlet water box, these specialized sensors measure flow rate and temperature rise of circulating water in individual tubes to provide continuous monitoring of flow across the entire tube sheet.



Outlet Tube Sheet

Rheotherm® PT Probe (Pressure & Temperature)



- Accurately measures shell pressure and temperature using integrated pressure and temperature sensors for saturation pressure validation.
- Probe design allows shell measurement to be made within the steam spaces, eliminating pressure differentials.

Rheotherm® Temperature Probe



- Test grade RTD sensors used to measure circulating water inlet, average intermediate and average outlet temperatures.

Rheotherm® Pressure Sensor



- Test grade pressure sensors used to determine total condenser flow and differential pressure.

Services and Consulting

Condenser Performance Evaluation

- Examine and evaluate system drawings and station data to identify existing deficiencies and potential performance improvements

Condenser Inspection and Documentation

- Verify and document condenser internal layout vs. design and identify improvement opportunities

Advanced Performance Analysis

- Analyze all available instrument data and condenser information to quantify impact of all causes for condenser performance degradation
- Document performance and maintenance benefits expected from recommended actions

Performance Improvement Design, Modeling and Support

- Modeling of design recommendations for condenser performance improvement
- Complete documentation (drawings, parts fabrication and assembly, materials list) for retrofit
- Work with local mechanical contractors to install the condenser retrofit



INTEK, INC.
751 Intek Way
Westerville, OH 43082-9057

Toll free: 800-RHEOVAC
Phone: 614-895-0301
Fax: 614-895-0319

sales@intekflow.com
www.intekflow.com
www.mycondenser.com