

A close-up, profile view of a man wearing a yellow hard hat and safety glasses. He is looking down at a tablet computer he is holding with both hands. The background is a blurred industrial environment with warm, orange and yellow lights, suggesting a factory or power plant. The overall tone is professional and focused.

HONEYWELL **THERMAL** **SOLUTIONS** **PREVENTATIVE** **AND** **PREDICTIVE** **MAINTENANCE**

Maximize uptime by reducing the likelihood of equipment failure

Honeywell

THE VALUE OF PREVENTATIVE MAINTENANCE

Companies that use thermal processes are increasingly opting to take preventative approaches to maintaining their combustion equipment and for good reason.

Preventative and predictive maintenance are designed to identify and resolve potential problems with equipment before they occur, reducing the likelihood of failure that could lead to downtime.

Time-triggered activities such as repairs, adjustments and cleaning not only improve thermal system performance, safety, reliability and lifespans, but can help companies reduce fuel costs, improve emissions, enhance worker safety and increase profit margins.

The success of a preventative or predictive maintenance program, rests on three things. First, sustaining rigorous planning and scheduling practices; second, keeping accurate, detailed records of past service inspections; and third, assessing the lifespan of system parts and components to plan for their eventual replacement.

Managing and executing these activities correctly and compliantly is a difficult and time-consuming process for any organization, particularly for those with vast equipment installations. However, with the right maintenance partner and latest enabling technologies such as remote monitoring and predictive analytics, companies can automate and streamline these tasks, helping them to realize unprecedented thermal system efficiencies leading to better business outcomes.



HONEYWELL'S APPROACH

To meet rising industry demand for increased system availability and production, Honeywell Thermal Solutions has designed a comprehensive offering around three key principles:

1. **Improved efficiency** – Honeywell data shows that routine equipment tune-ups using an analysis of the combustion process data can significantly reduce ongoing flue heat loss and decrease fuel consumption. When these efficiencies are combined with limiting equipment failure, customers can improve production and optimize costs.
2. **Increased service life** – Inadequately maintained thermal systems become inefficient over time. As the system ages, it inevitably works harder, causing deterioration and burn out to occur faster than expected. Honeywell's preventative maintenance approach can increase system longevity and reduce costly equipment failures by ensuring proper adjustment and replacement of wearable components.
3. **Decreased system interruptions** – System interruptions mean lost production. Companies that leverage Honeywell's preventative maintenance regimen typically experience fewer unexpected failures that lead to manufacturing disruptions.

CHOOSING THE SERVICE APPROACH THAT BEST FITS YOUR NEEDS

Honeywell's programs are designed around two philosophical approaches to system support: preventative and predictive. Customers can select the approach that best meets their business needs.

PREVENTATIVE MAINTENANCE

This approach features preventive inspections performed by qualified Honeywell technicians annually, semiannually or per a customer-defined schedule. Work is executed methodically against a checklist, with resulting data recorded in an electronic burner logbook for future reference. All procedures are undertaken in compliance with the installation and maintenance instructions of the burner manufacturer, regardless of whether it is Honeywell or another manufacturer's equipment.

Preventative maintenance activities range from the calibration of flue gas analyzers to reduce emissions, to the replacement of covered components as required, and can include both hot and cold burner interventions.

Customers who participate in Honeywell's Preventative Maintenance program also benefit from priority status for service callouts, reduced labor rates on break/fix activities when they are performed during a scheduled visit, reduced costs for non-covered parts consumed during a scheduled visit, and no uplift charges on emergency service calls.

PREDICTIVE MAINTENANCE

This option incorporates all the features and benefits of Honeywell's Preventative Maintenance Program but adds a layer of management and control capabilities with Honeywell Thermal IQ™ software installed at your site by Honeywell Certified Technicians.

Thermal IQ enables customers to remotely monitor thermal process performance

against system operating parameters in real-time, giving them an unprecedented, high-level view of all their connected thermal process equipment and the ability to drill down into each piece to view current alerts and the status of key parameters. They can also harness predictive analytics to identify potential issues and service equipment during periods of availability, minimizing the risk of failures that could lead to downtime.

Thermal IQ allows customers to set alerts when specific thresholds are surpassed; understand which alarms have been configured with their current system; and track historical data by day, week or month to identify trends and opportunities for business improvement.



WHY HONEYWELL?

Honeywell knows that companies have a choice of partners when it comes to preventative maintenance. Here are some of the reasons our customers around the world choose Honeywell as their partner:

- With a track record of innovation across multiple industries for over 100 years, Honeywell is a recognized global leader in commercial and industrial thermal process solutions.
- Honeywell has industry-leading brands that provide the most extensive range of thermal solutions in the world, including Honeywell Combustion Controls, Honeywell Combustion Safety, Honeywell Combustion Service, Eclipse, Exothermics, Hauck, Kromschröder and Maxon.
- The breadth and depth of Honeywell's multi-brand portfolio gives it unparalleled domain expertise in fuel-fired systems across multiple industries.
- As a company that uses its own thermal solutions, Honeywell offers its customers product and process knowledge that other vendors can't match.

For more information

To learn more about Honeywell's Preventative or Predictive Maintenance programs, please visit ThermalSolutions.Honeywell.com

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