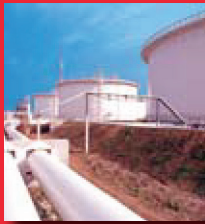


**Chromalox**<sup>®</sup>  
PRECISION HEAT AND CONTROL

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## Heater Bundle Replacement Program

Minimize Your Downtime While Maintaining the Efficiency and Productivity of Your Process



BUNDLE REPLACEMENT

# CHROMALOX HEATER BUNDLE REPLACEMENT PROGRAM

**Avoid lost product ... minimize downtime ... ensure product quality ... preserve peak efficiency ... sustain optimal productivity ...**

It's a fact of life: Nothing lasts forever, including heater bundles—the core heating source of an electric process heater. Even the highest quality bundles will eventually fail. You can't predict when it will happen. And the impact of an unplanned out-of-service event can be lost product, lost productivity, and lost revenue adding up to thousands of dollars a day.

That's why Chromalox offers a Heater Bundle Replacement Program: to eliminate the hazards and cost of unanticipated downtime due to aging heater bundles, as well as maintaining peak operation of your process.



## Prevent Electric Heater Bundle Problems

Not all heater bundles are used at the same level of service. As Figure 1 shows, heater bundles in light-duty applications may last as long as ten years before they fail. Heater bundles in severe-duty applications with high-temperature, corrosive, or high-duty cycles may last only a few years.

Assessing the age and duty cycles of your electric heaters, and scheduling and replacing heater bundles before they fail can solve problems before they happen. Figure 2 suggests the best point to replace the heater bundle, optimizing its life while preventing an unplanned outage.

## Repair or Replace

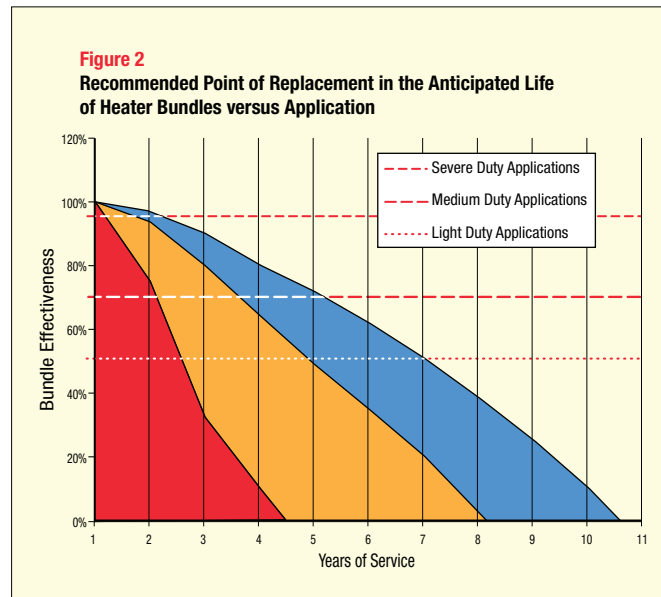
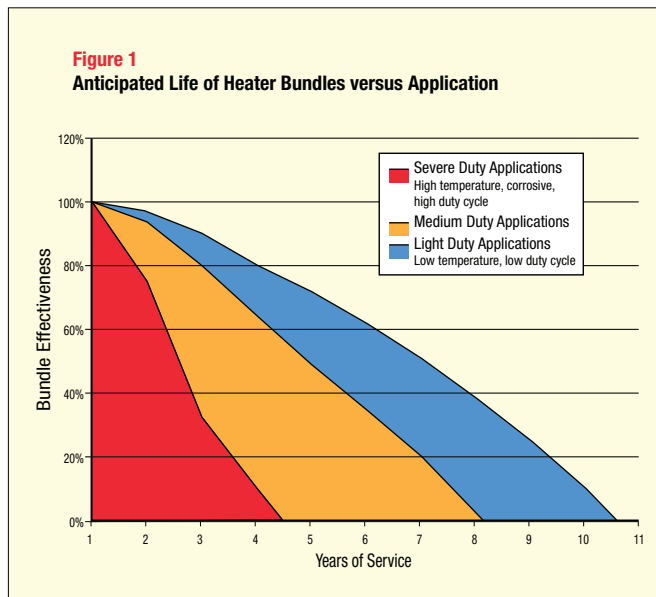
We can replace heater bundles for aging units manufactured by Chromalox. If your heater was manufactured by another company, we can draw upon our vast inventory of heating elements and sheath materials to repair or build a custom bundle replacement.

## Improve Performance

We will even evaluate the performance of the existing unit and improve the design of the replacement heater bundle to eliminate any performance issues and extend life.



In addition, Chromalox will analyze the various heater bundles in your plant. We'll evaluate their duty requirements and the best available replacement options, and provide a recommendation along with a project schedule from manufacture to delivery. Chromalox can also assist you in removing the old heater bundles and installing the replacements.



### Why Chromalox?

Chromalox makes its own heating elements versus buying them and making an assembly. Vertical integration of product manufacturing allows tight control of all procedures, with capabilities featuring computer-controlled, automated machinery to help ensure tightly controlled, repeatable standards of quality.

Only Chromalox can offer nearly 100 years of experience in metal-sheathed heating elements. In fact, Chromalox introduced the world's first metal-sheathed heating element in 1915.

Today, we are the world's most comprehensive manufacturer of electric heat and control products and systems. We meet the certifications, codes, and standards of process industries around the world. Our products have earned more global third-party approvals than any other company in our industry.

### Ongoing Maintenance and Service

Take the next step in keeping your process efficient, up and running, and productive. Chromalox Planned Service delivers efficient emergency response and preventive maintenance, helping to



eliminate problems before they arise. Chromalox field service personnel are experts at maximizing the performance of your process heat and control systems with a variety of on-site services including multi-point inspections, guaranteed emergency response times, site reports, and replacement parts availability.

### Vertical Integration

Chromalox provides heat and control systems for more processes than anyone in the world. We manufacture every heater, control, and system we sell, from the first component to the finished product. Our vertical integration of manufacturing helps ensure an unmatched standard of quality.

The same pace-setting standard of quality that goes into every component and finished product Chromalox manufactures goes into the Chromalox heater bundle replacement for your system.

### Where Are Your Heater Bundles?

- Packaged Heat and Control Systems
- ASME & Custom-Engineered Units
- Large Tank Heaters
- Natural Gas Dew Point Preheat Skids
- Screw Plug Immersion Heaters
  - Flanged Heaters
  - Lube Oil Packages
  - Ammonia Vapor Packages
- Fuel-Forwarding Skids
- Water-Wash Skids
- Circulation Heaters
- Boilers
- Heat Transfer Systems
- Air Handlers
- Process Air Heaters
  - Air Duct Heaters



**Call 1-800-443-2640 for heater bundle replacement and all your process heat and control systems service needs.**

# Chromalox Service Solutions Are Available Worldwide



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