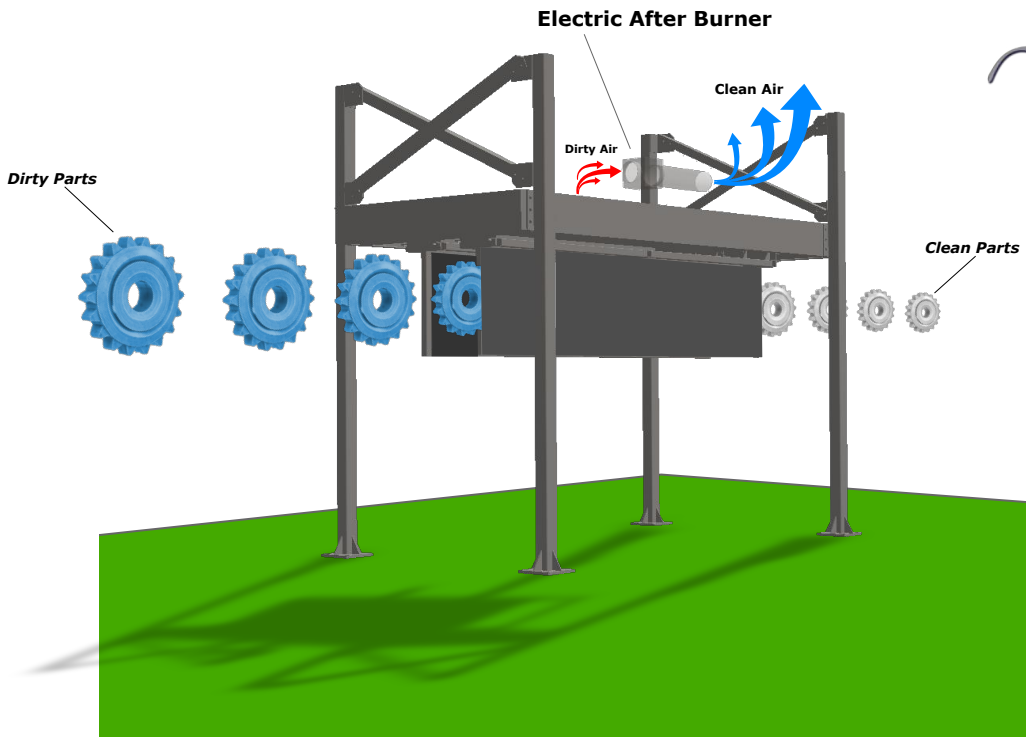


Sahara INDUSTRIAL OVENS

Burn-Off Oven IR Paint Stripping

Sahara Industrial Ovens offers a revolutionary innovation for removing paint in an in-line process.

Clean Electric Burn-Off, for Removal of Organic Coatings



Features

The Sahara Industrial Burn-Off Oven has many unique features:

- Reduced footprint
- High heat source removed from production environment
- On-demand afterburner 2200F
- Continuous, in-line process
- Uncomplicated code compliance
- Higher capacity of controlled pyrolysis, surface temperature above 800F
- Faster coating removal without damaging light parts or racks
- Improved turn-around, reduced burn-off time

Materials of Construction

Rugged, steel construction includes:

- Integrated framing and structural members ensure toughness

Installation

- Easy to assemble
- Set in place and hook up power supply.

Heating Medium

- All electric burn-off process
- Process & temperature control with integrated PLC controls and touch screen

Temperature Range

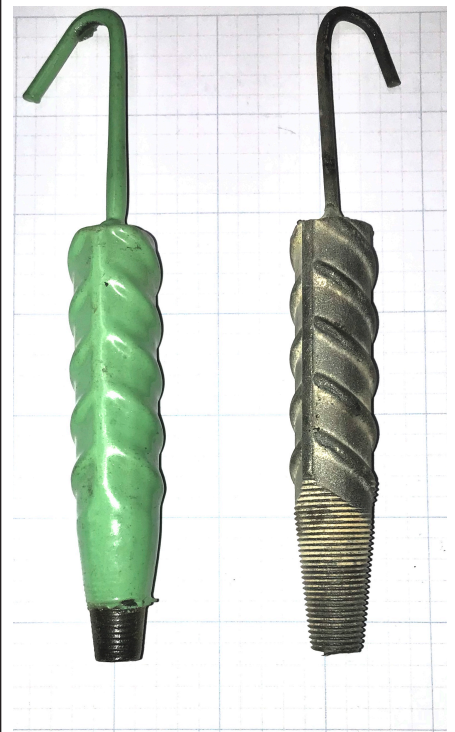
- Part surface temperatures up to and above 800F
- After-burner 2200F continuous

Air Circulation

- Air circulation with internal plenum for uniform airflow
- Separate exhaust blower with adjustable flow

Finish

- Exterior finished with acrylic enamel
- Or corrosion resistant urethane system



Designed and
Manufactured by:

BENKO PRODUCTS
ENGINEERED TO BE MORE

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IR Burn-Off Additional Specifications

Heating Mediums

Electric:

- 208 or 480 volt, 3 phase

Industry Standards

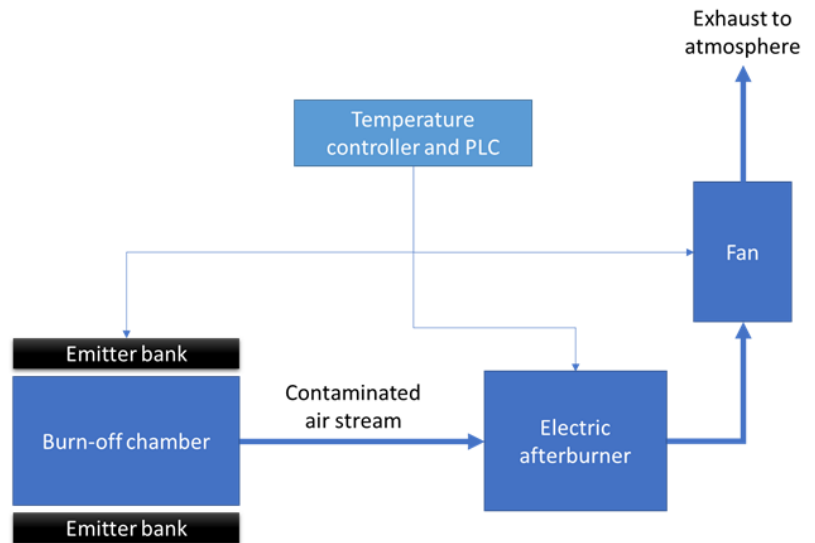
- The National Fire Protection Association's Standard NFPA 86 discusses guidelines for the safe operation of industrial ovens and furnaces. All Sahara Industrial Ovens are built to meet these requirements.
- Ovens can be field-audited to satisfy CSA (via ESA) and UL 508 inspections and certifications.

Process Control

Sahara Burn-Off Ovens are designed for simplified control:

- Modern control system, meaning the operator will not have to guess the proper cycle time for each burn-off
- No gas burners to tune with each burn-off cycle
- Cycle time is easy to predict and repeatable

With the continuous in-line process, labor, material and transportation costs are all reduced leading to higher productivity and profitability.



Afterburner

Smoke and emissions are drawn through an electric afterburner operating at 2200F, incinerating the smoke, leaving only harmless water vapor and carbon dioxide. Only inorganic ash remains on the parts, which can be removed with a water rinse or automated brushes.

This system is for cleaning parts by a pyrolytic (*pyrolysis) burn-off process, driven by infrared emitters which heats the part surface. Pyrolyzed volatile constituents are withdrawn from the process chamber into an electric afterburner for final decomposition and discharged into the atmosphere.

**Pyrolysis is the thermal decomposition of materials at elevated temperatures in an inert atmosphere. It involves the change of chemical composition and is irreversible. The word is coined from the Greek-derived elements pyro (fire) and lysis "separating".*

Spare Parts - Documentation

- Spare and replacement parts can be easily matched to any oven.
- Most spare parts are kept in stock.

Testing and Inspection

- Each oven is subjected to a stringent 20 point quality inspection.
- Each oven is functionally tested for temperature control regularity and temperature uniformity.
- All over-current devices are preset to proper load prior to shipping.

Warranty

- Additional years of warranty protection are available
- All products manufactured by Benko Products, Inc. have a two (2) year warranty (unless otherwise specified) from the date of purchase against defects in workmanship or material. Any part or component, except items covered by warranties of other manufacturers, returned to the factory or service center freight prepaid by the owner, found upon examination by Benko Products, Inc. to be defective or the result of improper workmanship by the factory will be repaired or replaced without charge and returned to the owner freight prepaid.