ARC Pacific Internal Bake Oven

Designed for Uniform Air Flow and Temperature Distribution, the ARC Pacific Internal Bake Oven Cures both the Interior and Exterior of the Can

Key Benefits

Efficiently processing the cans to the required thermal profile, the Internal Bake Oven (IBO) cures both the interior and exterior coating of the can. The oven's high-efficiency 6-inch insulated walls, 2-inch safety cool walls, and on-demand exhaust airflow system ensure optimal heat retention and minimized gas consumption. The IBO was designed with sustainability in mind, reducing overall operational Greenhouse Gas Emissions.

The IBO is the final baking stage cans undergo to cure the freshly applied internal spray, over varnish and ink. To achieve this the IBO is fitted with blowers featuring advanced nozzle technology that efficiently transfer heat onto the cans properly curing them and providing exceptional can stability. All blowers are equipped with VFDs to help optimize air flow control and lower energy usage. An advanced recirculation system automatically balances process air under varying production conditions, ensuring minimal gas consumption.

Features

- VFD Motor Control for all Fans
- Manual or Automatic Nozzle Height Adjustment
- Multi-zone Capabilities Based on Desired Thermal Profile
- Cooling Zone
- Advanced Nozzle Design for Rapid Heat Transfer
- Preheat of Incoming Fresh Air
- Uniform Air flow and Temperature Distribution
- Entrance and Exit Exhaust Hood Captures Escaped Heated Air
- Processes up to 6,000 CPM

Height requirements for can size changes can be quickly achieved by the Automatic Nozzle Height Adjustment which is controlled via the HMI.

The Internal Bake Oven, carefully engineered with a focus on safety and efficiency, incorporates advanced monitors and regulators to enhance process control. The Exhaust Orifice Monitor tracks exhaust air volume, ensuring compliance with EHS guidelines. This allows for efficient process control and helps operators to better prepare for scheduled maintenance cleaning.

The supply duct is equipped with Pressure Sensors to maintain uniform air flow under different production conditions. The Gas Flow Meter and Regulator measures gas consumption and regulates the burner flames to help ensure efficient process control. The entrance hood and exit exhaust hood captures escaped heated air helping to reduce spillage into the plant. The IBO is fitted with side walkways, stairs and handrails which allow for easier and safer maintenance to the burner box.

Technical Specifications	
Production Speed	Up to 6,000 CPM
Can Body Size Range	202 (52.8 mm) to 307 (83.8 mm)
Can Height Range	3.30" (83.8 mm) to 10" (254 mm)
Can Pack Density	85% at max CPM
Product Handling	2,438 mm Wide Non-metallic Synthetic Belt
Maximum Operating Temperature	232° C
Slide Bed	Stainless Steel Perforated Slide Bed
Nozzle Lifting System	Optional Automatic
Heat Source	Natural Gas at 5-7 PSIG or LPG
Burner	Maxon or Proctor
Burner Turndown Ratio	30: 1
Fans	Equipped with VFD, High-efficiency Motors

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