



## PH-Series Pre-Heater Oven



Variable Speed Rollers



Roll Away Oven



Easy Operator Controls

### Sheet Expansion Issues?

#### ***A Brown Pre-Heater Allows The Material To Expand Naturally!***

Brown Machine offers a complete range of Pre-Heater Ovens that allow high heat materials (as polypropylene) to expand naturally prior to entering into the pin chain of the thermoformer; therefore eliminating distortion within the sheet and reducing sag. The unit is designed to utilize minimal floor space when positioned behind the thermoformer and is equipped with a variety of user friendly features. An easy, straight-thru, thread-up design with variable speed rollers moves the sheet vertically through the oven to allow even heating from both sides and synchronizes the heated material with the thermoformer. The PH-74 model contains a dual oven arrangement to provide maximum oven heat time and minimize overall unit height. A quartz panel oven with multiple control zones provides precise heating of the right, center and left sides of the sheet. The oven is mounted on a roll away carriage for thread-up, maintenance and the ability to remove the heat source. A PLC processor with push button controls and a separate main disconnect make the pre-heater a complete stand alone solution.

### Safety Features

- Guards. Designed to provide easy access for operator safety.
- Interlocks. Electrical interlocks are standard on moving guards.
- Safety Tags. Bilingual with pictographic tags are standard.
- Main Electrical Disconnect. Has padlock.
- Stop Buttons. Large red palm stop buttons are standard. When depressed, they lock in the off position and must be pulled up and rotated back into a reset position.
- All safety features should be in place and functional at all times.

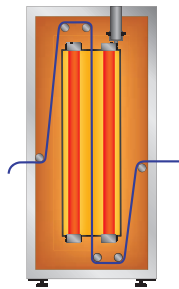
### PH-Series Options

- Oven Pyrometer
- Roll Stand with Sheet Payout
- Mandrel and Shaft – 3", 6" and 8" diameters
- Auto Roll Lift
- Core Lift Removal
- Air Conditioned Electrical Cabinets
- International Voltages Available
- CE, CSA, HSE Approvals
- Spare Parts Kit
- Service / Start-up Available
- Custom Options

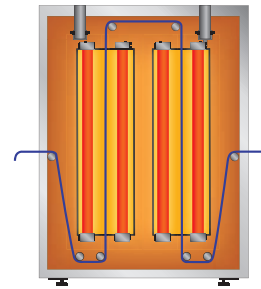
## PH-Series Pre-Heater Oven

Specifications	Model PH-33	Model PH-43	Model PH-53	Model PH-58	Model PH-68	Model PH-74
Max Sheet Width	33" (838mm)	43" (1092mm)	53" (1346mm)	58" (1473mm)	68" (1727mm)	74" (1880mm)
Oven Size	33" x 80" (838mm x 2032mm)	43" x 80" (1092mm x 2032mm)	53" x 80" (1346mm x 2032mm)	58" x 116" (1473mm x 2946mm)	Dual 68" x 80" (1727mm x 2032mm)	Dual 74" x 80" (1880mm x 2032mm)
Oven Configuration	Single oven quartz panel heaters				Dual quartz panel heaters	
Oven Carriage	Side roll away					
Feed Rolls	Variable speed driven					
Machine Controls	PLC processor with push button controls					
Oven Controls	3 zone for right/center/left side control					
Thread-up Feature	Easy straight through thread up feature					
Unwind Stand	Available					
Approx Unit Dimensions (Width x Depth X Height)	155" x 60" x 125" (3937mm x 1524mm x 3175mm)	170" x 60" x 125" (4318mm x 1524mm x 3175mm)	200" x 60" x 145" (5080mm x 1524mm x 3556mm)	210" x 60" x 155" (5334mm x 1524mm x 3937mm)	230" x 78" x 125" (5842mm x 1981mm x 3175mm)	235" X 78" X 125" (5588mm x 1981mm x 3175mm)
Avg Operational Amps	120 amps	150 amps	235 amps	355 amps	555 amps	595 amps

Specifications subject to change without prior notification



Single Oven Pre-Heater



Dual Oven Pre-Heater

## Leadership Through Innovation, Quality and Service

Brown Machine has earned a reputation for providing the most innovative, durable and dependable plastics equipment in the industry. With engineering and manufacturing capabilities in Beaverton, Michigan, and Fremont, Ohio, Brown provides equipment, tooling and services to produce a wide range of thermoformed products in the following markets:

- Disposable Cup
- Food Packaging
- Housing
- Point-of-Purchase Packaging
- Material Handling
- Horticultural
- Automotive
- Lid and Plate
- Recreational Equipment
- Appliance

Today our equipment is producing products from a wide range of materials including:

- Polystyrene
- Polyethylene
- PVC
- Composites
- Polypropylene
- EPS Foam
- TPO
- Acrylic
- APET
- ABS
- Barrier Materials

Globally, Brown Machine totally supports its growing capital equipment business with a full complement of:

- Retrofit Kits
- Service: 24-7
- Remanufacturing
- Parts: 24-7

Continuous Thermoformers

Cut Sheet Thermoformers

Horizontal & Vertical Trim Presses

Lip Rolling Systems

Machines for Custom Applications

Tooling, Parts & Service



**Global  
Leader in  
Thermoforming  
Solutions**

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A global leader of thermoforming technologies since 1952, Brown Machine LLC engineers and builds a complete standard line of continuous & cut-sheet thermoforming equipment as well as related tooling & peripheral equipment.

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