



The Global Leader in Thermal Technology

# Pyramax™

**Built for Today. Ready for Tomorrow.**



- **SMT Reflow**
- **Curing**
- **Semiconductor Packaging**

Pyramax solder reflow ovens are designed and built to master today's lead-free processes, and the challenges of tomorrow. With their unparalleled combination of thermal performance, versatility, and value, they set the industry standard for world class performance.

Pyramax provides optimized lead-free processing, boosting productivity and efficiency. BTU's exclusive closed loop convection control, provides precise heating and cooling control, constant heat transfer, maximum process control

and reduced nitrogen consumption adding up to the lowest Cost of Ownership in the industry.

With 6, 8, 10 and 12 zone air or nitrogen models, 350°C maximum temperature, flexible platform configuration, low nitrogen and power consumption, and a comprehensive menu of options, the Pyramax is both the industry's most versatile performer and its best value.



## Customer Support

***BTU's quality products are backed by its Industry leading comprehensive warranty.***

- Lifetime on heaters and blowers
- 3 years system
- 1 year labor

To enhance uptime the Pyramax is supported by BTU's 24-hour, 7-Day Worldwide customer support, and electronic user documentation.

## Flux Management System

***BTU's patented Flux***

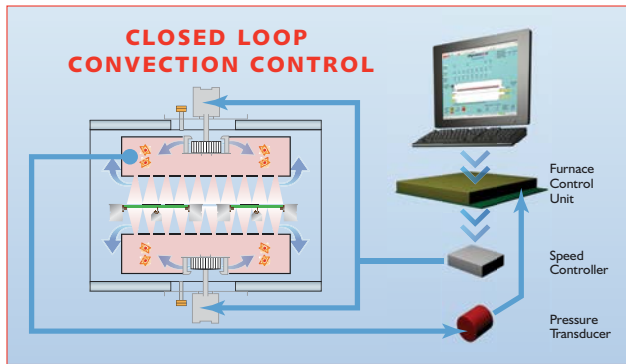
***Management System traps flux residue from the process chamber, preventing it from settling within the oven, leading to increased uptime and lower cost-of-ownership.***

- Easy access to filtration and trap arrangement
- Multiple extraction locations maximize overall efficiency
- "On the fly" maintenance eliminates downtime

## Innovative Cooling System

***BTU's unique clamshell air or water-cooling design moves the cooling media away from the process chamber, where it can be easily accessed for maintenance.***

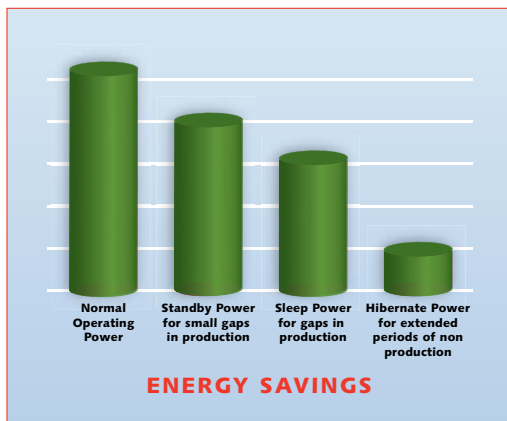
- Water cooling features a sliding heat exchanger assembly allowing easy access for maintenance
- Closed loop cooling control provides variable cooling rates and increased process control



## Closed Loop Convection

**BTU's exclusive Closed Loop Convection Control provides maximum flexibility in process control.**

- Side-to-side recirculation enhances temperature uniformity
- Guaranteed process repeatability, system to system, site to site
- Unmatched convection efficiency reduces zone temperature setpoints.



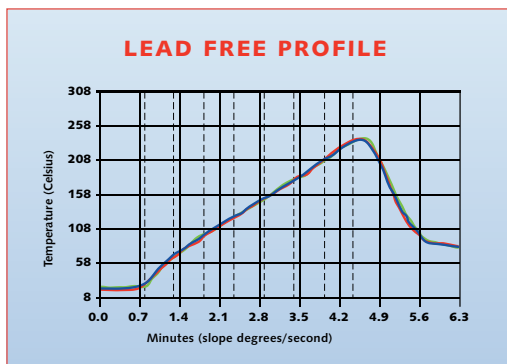
## Energy Pilot

**Energy Pilot software enables energy savings by using product tracking technology to modify oven performance during gaps in production.**

- Reduces Electrical, Air and/or Nitrogen consumption during idle.
- 3 idle modes: standby, sleep, hibernate
- Operation can be configured from fully automatic to manual

## Standard Features

- Lead Free Process-Guaranteed
- 350°C Maximum Temperature
- Forced Impingement Convection
- Programmable Heating and Cooling Rates
- Side to Side Gas Recirculation
- Low Nitrogen and Power Consumption
- Flexible Platform Configuration
- Automatic Width Adjust
- Dynamic Gas Idle
- Smart Product Tracking (SMEGA)
- WINCON Control Software
- Electronic Over-Temperature Safety System



## Lead Free Process-Guaranteed

**BTU's repeatable process control eases the transition to lead-free.**

- Stainless steel construction
- 350°C Maximum temperature
- Closed loop convection control
- Superior cooling performance

## Options

- 24 in Processing Capability
- 400°C Maximum Temperature
- Belt and Rail Conveyors
- Fine Mesh Conveyor Belts
- Multiple Track Solution
- Flux Management
- Closed Loop Convection Control
- Integrated Water Supply
- Low Nitrogen Consumption Package
- High Power Heaters
- Center Supports
- Automatic Gas Sampling
- UL 508A and CE Compliant
- Automated Wafer Handling
- Barcode Reader



Barcode Reader

## Pyramax Specifications\*

| <b>Model</b>               | <b>Pyramax 75A</b>         | <b>Pyramax 100A</b>        | <b>Pyramax 100N</b>                              |
|----------------------------|----------------------------|----------------------------|--|
| Atmosphere                 | Air                        | Air                        | Air or Nitrogen                                  |
| Conveyor Speed             | 10-60 in/min 25-152 cm/min | 10-60 in/min 25-152 cm/min | 10-60 in/min 25-152 cm/min                       |
| Conveyor Width             | 2-18 in 51-457 mm          | 2-18 in 51-457 mm          | 2-18 in 51-457 mm                                |
| Heated Length              | 75 in 1905 mm              | 100 in 2540 mm             | 100 in 2540 mm                                   |
| Heated Zones (Top/Bottom)  | 6 top / 3 bottom           | 8 top / 8 bottom           | 8 top / 8 bottom                                 |
| Cooling Length             | 24 inches 610 mm           | 24 in 610 mm               | 28 in 711 mm                                     |
| Cooling Zones (Top/Bottom) | 1 top (bottom optional)    | 1 top (bottom optional)    | 1 top / 1 bottom,<br>2 top / 2 bottom (optional) |
| Overall System Length      | 127 in 3226 mm             | 183 in 4648 mm             | 183 in 4648 mm                                   |
| Overall System Height      | 60 in 1524 mm              | 60 in 1524 mm              | 60 in 1524 mm                                    |
| Overall System Width       | 60 in 1524 mm              | 60 in 1524 mm              | 60 in 1524 mm                                    |
| Voltage Range              | 208-480 VAC                | 208-480 VAC                | 208-480 VAC                                      |

| <b>Pyramax 125A</b>        | <b>Pyramax 125N</b>         | <b>Pyramax 150A z12</b>    | <b>Pyramax 150N z12</b>    |
|----------------------------|-----------------------------|----------------------------|----------------------------|
| Air                        | Air or Nitrogen             | Air                        | Air or Nitrogen            |
| 10-60 in/min 25-152 cm/min | 10-60 in/min 25-152 cm/min  | 10-60 in/min 25-152 cm/min | 10-60 in/min 25-152 cm/min |
| 2-18 in 51-457 mm          | 2-18 in 51-457 mm           | 2-18 in 51-457 mm          | 2-18 in 51-457 mm          |
| 125 in 3175 mm             | 125 in 3175 mm              | 150 in 3810 mm             | 150 in 3810 mm             |
| 10 top / 10 bottom         | 10 top / 10 bottom          | 12 top / 12 bottom         | 12 top / 12 bottom         |
| 48 in 1219 mm              | 46 in 1168 mm               | 48 in 1219 mm              | 46 in 1168 mm              |
| 2 top (bottom optional)    | 2 top / 2 bottom (optional) | 2 top (bottom optional)    | 2 top / 2 bottom           |
| 230 in 5844 mm             | 230 in 5844 mm              | 255 in 6474 mm             | 255 in 6474 mm             |
| 60 in 1524 mm              | 60 in 1524 mm               | 60 in 1524 mm              | 60 in 1524 mm              |
| 60 in 1524 mm              | 60 in 1524 mm               | 60 in 1524 mm              | 60 in 1524 mm              |
| 208-480 VAC                | 208-480 VAC                 | 208-480 VAC                | 208-480 VAC                |

\* All specifications are subject to change without notice

# Global Strength

BTU provides world-class service and customer support in over 30 countries around the globe.



To contact BTU please go to [www.btu.com/support-contact-sales.htm](http://www.btu.com/support-contact-sales.htm)



## Headquarters | United States

BTU International, Inc  
23 Esquire Road  
North Billerica, MA 01862, USA  
T 1-978-667-4111  
F 1-978-667-9068  
E [btuhq@btu.com](mailto:btuhq@btu.com)

## Europe

BTU Europe Ltd., UK  
T +44 (0) 1252 660010  
F +44 (0) 1252 660011  
E [sales@btu.co.uk](mailto:sales@btu.co.uk)

## Asia Pacific

BTU Shanghai, China  
T +86-21-58669098  
F +86-21-58669231  
E [btuasiasia@btu.com](mailto:btuasiasia@btu.com)

To contact BTU please go to [www.btu.com/support-contact-sales.htm](http://www.btu.com/support-contact-sales.htm)

[www.BTU.com](http://www.BTU.com)