BTU

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.

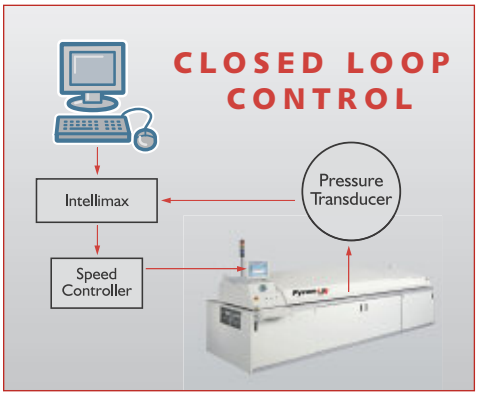
With 6, 8, 10 and 12 zone air or nitrogen models, 350°C maximum temperature, flexible platform configuration, low nitrogen and power consumption, and a comprehensive menu of options, the Pyramax is both the industry's most versatile performer and its best value.

Pyramax

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.



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

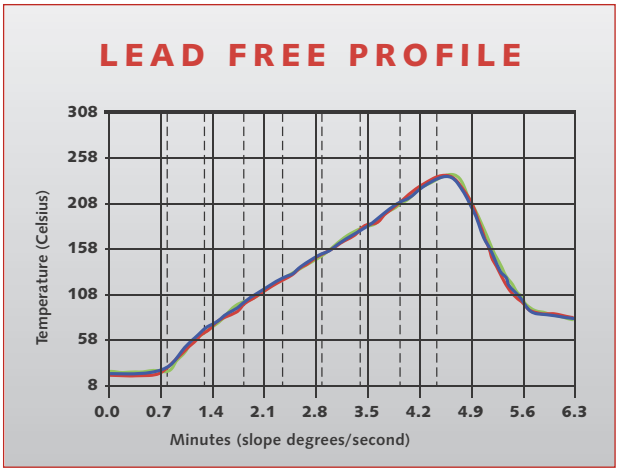
BTU's unique clamshell air or water-cooling design moves the cooling media away from the process chamber, where it can be easily accessed for maintenance.

- 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

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



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

Parts Identification Software

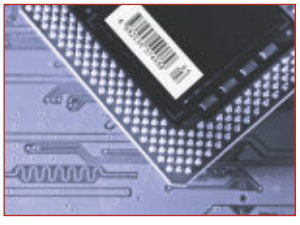
To enhance uptime the Pyramax is supported by BTU's 24-hour, 7-Day Worldwide customer support, electronic user documentation, and Parts Identification Software which allows customers to identify parts without the use of a cumbersome paper manual.

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
- Light Tower
- Dynamic Gas Idle
- Smart Product Tracking (SMEMA)
- WINCON Control Software
- Electronic Over-Temperature Safety System

Options

- 24 in Processing Capability
- 400°C Maximum Temperature
- Belt and Rail Conveyors
- Fine Mesh Conveyor Belts
- 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*

Model	Pyramax 75A	Pyramax 100A	Pyramax 100N
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, 2 top / 2 bottom (optional)
Overall System Length	127in 3226mm	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

Model	Pyramax 125A	Pyramax 125N	Pyramax 150A z12	Pyramax 150N z12
Atmosphere	Air	Air or Nitrogen	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	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	2-18 in 51-457 mm
Heated Length	125 in 3175 mm	125 in 3175 mm	150 in 3810 mm	150 in 3810 mm
Heated Zones (Top/Bottom)	10 top / 10 bottom	10 top / 10 bottom	12 top / 12 bottom	12 top / 12 bottom
Cooling Length	48 in 1219 mm	46 in 1168 mm	48 in 1219 mm	46 in 1168 mm
Cooling Zones (Top/Bottom)	2 top (bottom optional)	2 top / 2 bottom (optional)	2 top (bottom optional)	2 top / 2 bottom
Overall System Length	230 in 5844 mm	230 in 5844 mm	255 in 6474 mm	255 in 6474 mm
Overall System Height	60 in 1524 mm	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	60 in 1524 mm
Voltage Range	208-480 VAC	208-480 VAC	208-480 VAC	208-480 VAC

* All specifications are subject to change without notice

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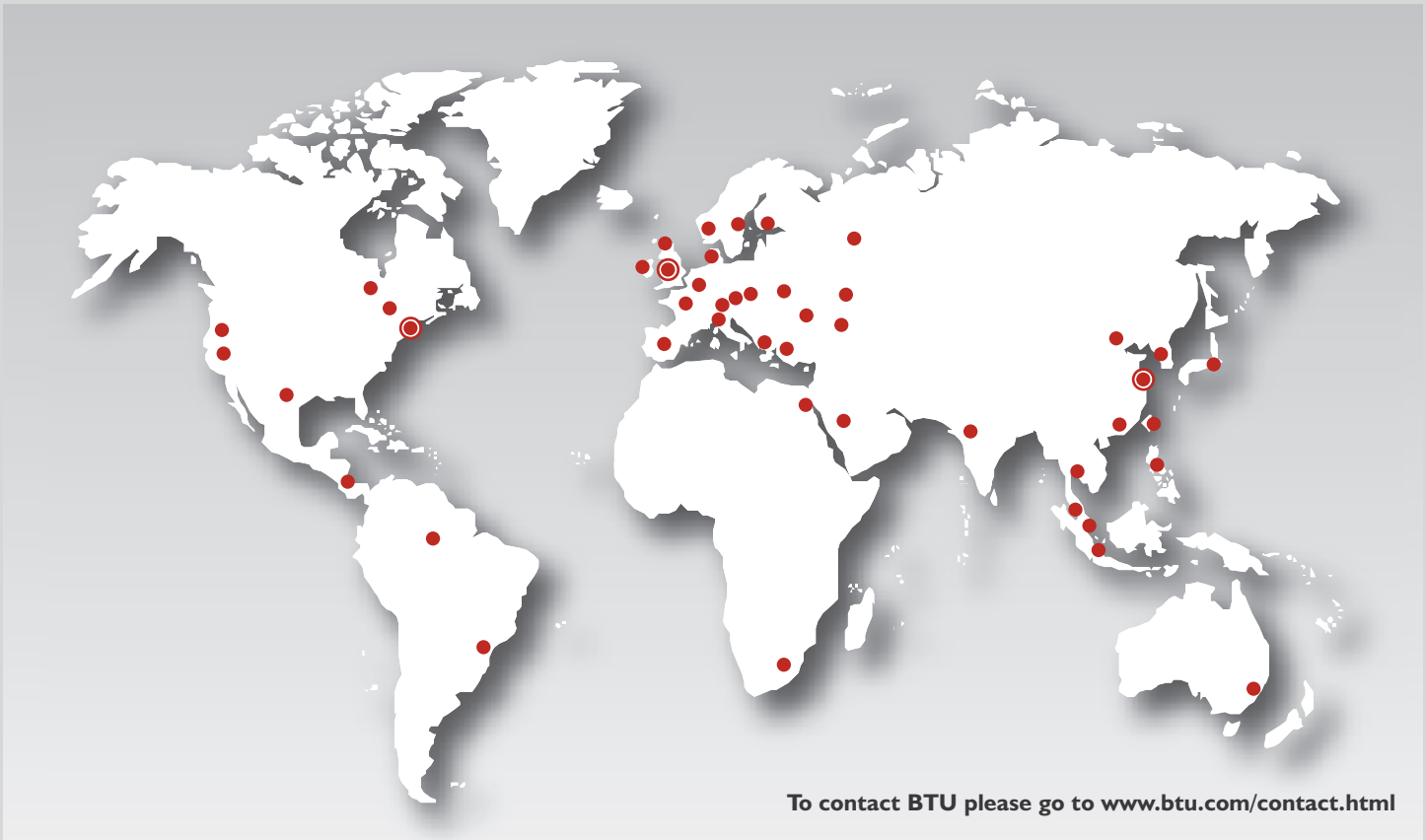

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Customer Support

- 24-Hour, 7-Day Worldwide Customer Support
- PBET Certified Training
- Regional Locations with Replacement Parts In-Stock
- Global Field Offices
- Process Engineering Support and Training
- Electronic User Documentation

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14 Armstrong Mall
Southwood Summit Centre
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