



AURORA™

THE POWER OF LEGACY & INNOVATION

REFLOW IN A NEW LIGHT

Aurora is leading the way to the factory of the future by seeing reflow in a new light. Aurora, the newest reflow oven platform, from BTU is designed based on years of expertise and leadership from the makers of the industry's best performing reflow ovens. As the latest in a long line of world-class thermal systems, Aurora has quality and innovation in its DNA.



SMT Reflow



Curing



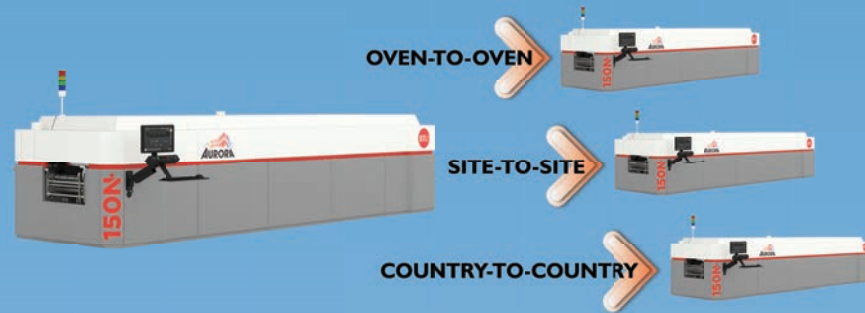
Semi Pack

Aurora systems feature a modern, fully updated user interface, integrated Aqua Scrub™ flux management technology, innovative Smart Power energy savings software, and advanced process control technologies. Aurora's combination of superior thermal performance, process flexibility, and vision for the future sets the new standard for reflow ovens today - and for tomorrow.

SUPERIOR THERMAL UNIFORMITY

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

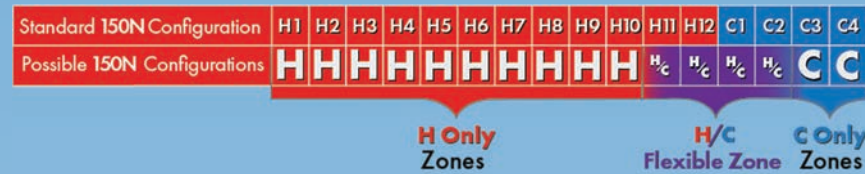
- Side-to-side recirculation enhances temperature uniformity
- Guaranteed process repeatability, system-to-system, site-to-site, country-to-country
- Unmatched convection efficiency reduces zone temperature set-points.



CONFIGURABLE HEATING AND COOLING ZONES

The Aurora has a first of its kind feature whereby customers can configure additional heating and cooling zones at the time of order – allowing for slower cooling ramp rates, or more throughput for lighter products. This allows customers to solve critical process or productivity issues within the same footprint of the original Aurora design.

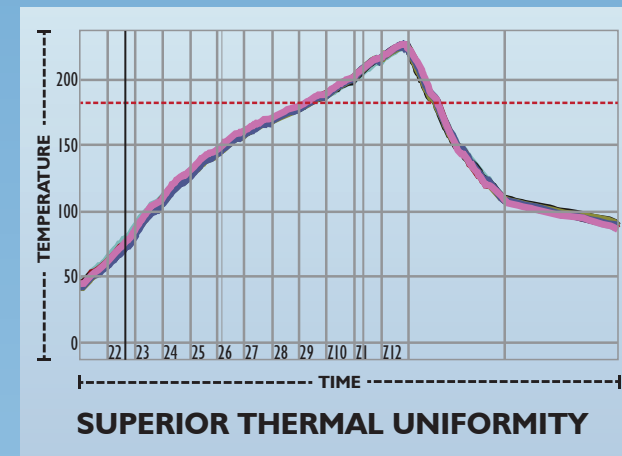
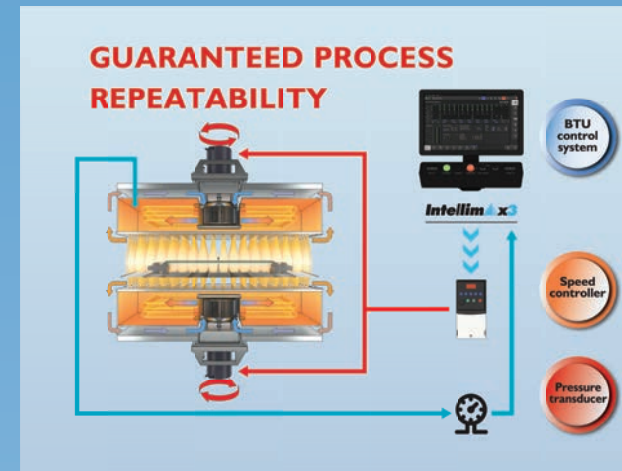
- Convert heating to cooling zones and vice versa
- Configured at time of order in two zone increments



AURORA 150N

Dimensions:	Inches	Millimeters
Conveyor width	24.4	620
Product clearance	3.15	80
Heating zone length (x12)	12.44	316
Cooling zone length (x4)	12.44	316
Total heated length	149.28	3792
Total cooling length	49.76	1264
Total system length	255.5	6490
Total system width	71.7	1820
Total system height (assumes 36" hearth line)	62.8	1595
Specifications		
Maximum temperature rating:	350°C	
Nominal operating temperature:	80-350°C	
Number of controlled heated zones:	12 top	12 bottom
Number of cooling zones:	4 top	3 bottom
Oven atmosphere:	N ₂	

COST OF OWNERSHIP PERFORMANCE INNOVATION



Fully accessible process chamber

MINIMIZED COST OF OWNERSHIP

In the Aurora reflow oven, maintenance access, oven contamination, input power and process gas usage have all been improved and optimized to deliver the absolute minimum in Cost of Ownership.

- Fully integrated Aqua Scrub flux management system with built-in waste removal
- Ease of access for maintenance and repair
- Smart Power and Energy Pilot software included in the control system
- Optimized gas flows

Aqua Scrub FULLY INTEGRATED ADVANCED FLUX MANAGEMENT SYSTEM

The Aqua Scrub is a proprietary flux management system which employs a water-based rinse agent to continuously scrub contaminants from the oven atmosphere. This fully automatic system works regardless of flux type, and enables a "hands-off" approach to oven maintenance.

ADVANCED CONVEYOR OPTIONS

- Up to 5 movable rails
- Dual lane, dual speed
- Dual center support engagement system
- Chain return path within rail for less power consumption
- Single platform to improve configurability and common parts
- Wider board capabilities
 - 620 mm (24.4") single lane
 - 305 mm (12") per lane/dual lane
- 80 mm total product clearance

WINCON 8

Aurora utilizes an updated SEMI E95 style interface to manage the industry's most powerful oven control system. The dynamic combination of Wincon 8 with the Aurora family of reflow ovens incorporates proprietary software developed to streamline thermal performance leading to shorter start-up cycles, decreased maintenance costs and lower down-time. Using light or dark mode and customizable email and/or SMS text notifications highlight the intuitive and user-friendly software updates.

CUSTOMER SERVICE AND WARRANTY

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 Aurora platform is supported by BTU's 24-hour, 7-Day Worldwide customer support, and electronic user documentation.

Wincon™ 8

THE INDUSTRY'S MOST POWERFUL OVEN CONTROL SYSTEM

EXCLUSIVE ENERGY SAVING SOFTWARE



- Reduces peak power usage allowing for lower connected load
- Optimizes power use automatically within an overall given %
- Allows for fastest start-up/response while total power is limited



- Automatically reduces reflow oven operating costs
- Takes advantage of idle time
- Quick recovery using SMEMA or remote sensor

RecipePro

POWERED BY VECO

- Automatic recipe generator
- Reduces oven set-up time
- Exclusive convection rate algorithm



- Redundant process monitor
- Enables product traceability when used with a bar-code reader
- Fully integrated with MES/factory communication

Global Strength

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



- ★ BTU Production and Engineering Facilities
- BTU Regional Locations
- BTU Representatives

- 24/7 Worldwide Customer Support
- Manufacturing and Engineering in the US and China
- Process Applications Laboratories in the US and China
- Multiple Global training locations



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