

Mark III Series Reflow System

Advanced Technology for Demanding Processes

Now with
**NEW Flux Collection System
and Enhanced Cooling!**



HELLER
INDUSTRIES
THE TECHNOLOGY LEADER

THE TECHNOLOGY LEADER

Heller Industries was founded in 1960 and pioneered convection reflow soldering in the 1980's. Over the years, Heller has partnered with its customers to continually refine the systems to satisfy advanced applications requirements. By embracing challenge and change, Heller has earned the position of World Leader in Reflow Technology.

Benefits of Partnering with the World Leader

In addition to getting the best oven technology, working with the industry leader carries many other important benefits:

- **Partnership:** By working closely with our customers, we provide the kind of V.I.P. service and support that has come to symbolize Heller Industries.
- **Corporate Strength and Longevity:** Nearly 50 years in the electronics industry gives us a solid corporate and management base that ensures stability and continued support.
- **Direct Access to Upper Management:** Our upper management staff is continually traveling to meet our customers to gain their feedback and input. *We find that by listening we can better serve our clientele.*
- **Distributed "Lean" Manufacturing:** With factories in China, Korea and Malaysia, we can provide "local" sourcing and utilize a "copy exactly" paradigm that ensures Six Sigma performance oven-to-oven and factory-to-factory.



Heller China



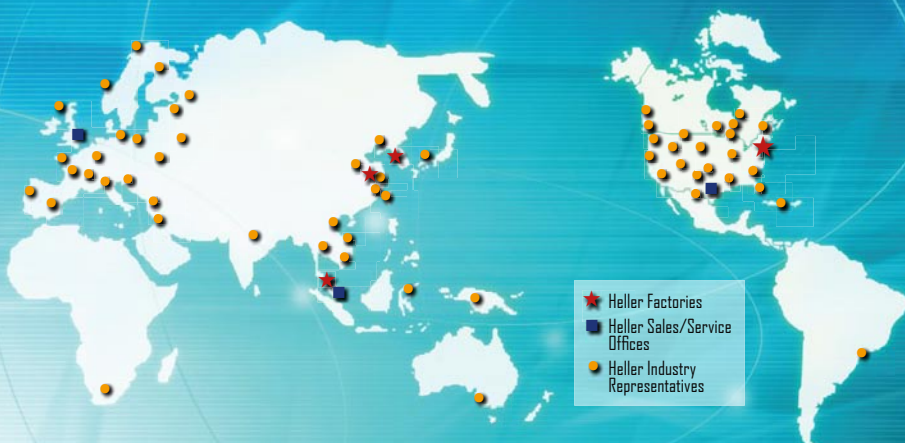
Heller Korea



Heller USA

We welcome you to visit any of our three Centers for Excellence. In addition to a world class manufacturing environment, operators and engineers can attend "Heller University" to learn about lead-free processing, troubleshooting and advanced applications solutions.

Combining our unmatched engineering expertise with a business model that focuses on regional manufacturing and strategic support centers, Heller provides a "local" presence that goes beyond simple manufacturing. Localized engineering, service, spares, process support and training facilities separate Heller from the competition and make us the obvious choice for reflow soldering solutions worldwide.



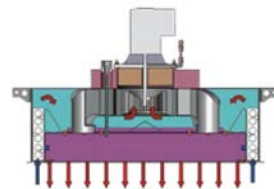
Mark III

ADVANCED TECHNOLOGY FOR DEMANDING PROCESSES

The latest breakthroughs associated with the Mark III reflow system now provide you with an even lower cost-of-ownership. Heller's new heating and cooling advances deliver up to 40% reduction in nitrogen and electrical consumption. This makes the MKIII system not only the premier reflow soldering system but the best overall value in the industry!

Enhanced Heater Modules

Enhanced heater modules "blanket" the PCB with heat for the lowest Delta Ts on the toughest boards! Additionally, the Uniform Gas Management system eliminates "net flow" which results in nitrogen consumption reductions of up to 40%!



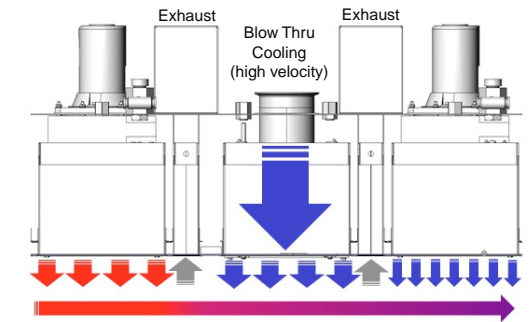
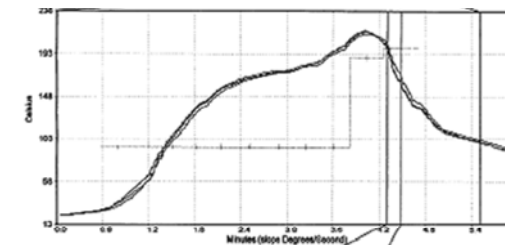
Ultra-Parallel Conveyor System

Four (4) lead screws ensures the tightest tolerances and parallelism — even on boards with 3mm clearance at the edges!



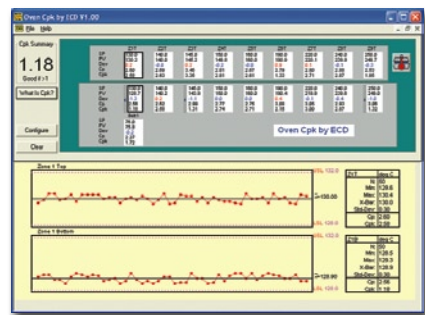
A Heller Exclusive!

Heller's 10" (250mm) long heater modules are 2" (50mm) narrower than our competitors so we can provide more modules than anyone in the industry! More modules means more process control and a 17% lower liquid time for the tightest tolerances of all!



Fastest Cooling Rates

The new blow thru cooling module provides cool rates of >3 deg C/Sec — even on LGA 775! That rate meets even the most demanding Lead-Free Profile requirements!



Process Control

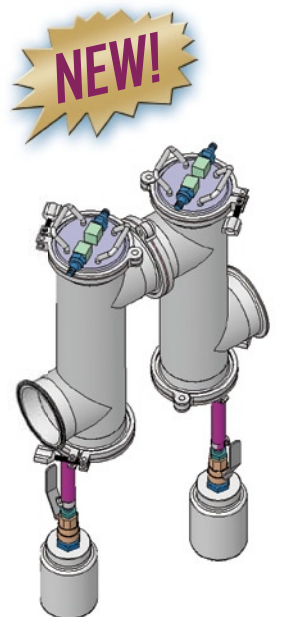
Powered by ECD, this innovative software package provides three levels of process control from Oven CpK, to Process CpK and Product Traceability, this software ensures that all parameters are optimized and SPC reporting is fast and easy.

New Frame

More than simply beautiful, this new frame utilizes twice the insulation. This modification alone, reduces heat loss and saves up to 40% on electricity costs!

New "Cool Pipe" Flux System Virtually Eliminates Maintenance

Our new "Cool Pipe" flux collection system traps the flux in collection jars that can easily be removed and replaced **while the oven is running**—thus saving time consuming P.M. Additionally, our proprietary "Flux Free Grill System" limits flux residue on the cooling grills—the result is not only reduced maintenance time, but **recaptured production time**—thus giving the Heller system the highest production yields of any oven!



The World's Best Convection Reflow Oven



Recognized Leadership

Our focus on technology-driven solutions in partnership with our customers has been consistently recognized throughout the years by several industry agencies including three Vision Awards for new product innovation, two Market Leadership Awards, two Service Excellence Awards, several awards for vendor excellence and appointments to prominent positions on Industry committees and boards. Certainly these awards and appointments validate our market leadership; but they also confirm that Heller is at the forefront of the technology curve — constantly bringing new innovations to market faster and with greater impact than our competitors.



2008 Vision Award

Innovation for Your Benefit

Advancements like the invention of the first waterless / filterless flux separation system earned Heller the prestigious Vision Award for Innovation in reflow soldering. But more importantly, this development extended preventative maintenance intervals from weeks to months for our systems.



1700 Mark III Series

The best value in the market! Ideal for start-ups or medium volume production. Includes advanced features previously found on premium systems.

- 1707 Mark III



1800 Mark III Series

These workhorses provide consistent performance for high volume requirements while minimizing preventative maintenance and floorspace.

- 1809 Mark III
- 1809 Mark III (with optional 3rd cooling zone)
- 1812 Mark III



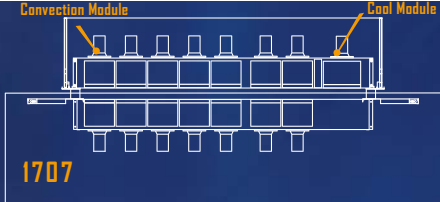
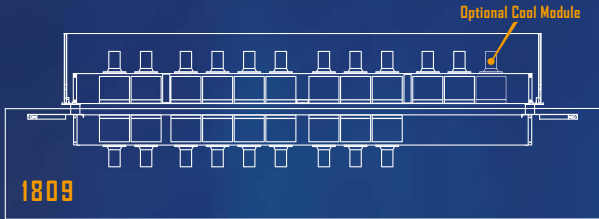

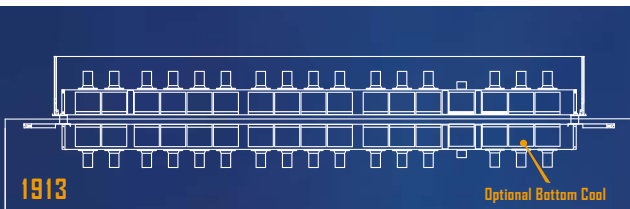
1900 Mark III Series

The ultimate high volume production solution with belt speeds up to 1.4m/min to accommodate the fastest pick-and-place systems. The 1913 MKIII delivers the highest levels of repeatability with the lowest delta Ts.

- 1913 Mark III Non-LGA
- 1913 Mark III LGA

Mark III

The Mark III Reflow System Series

MK III Models	Overall Length	# of Heated Zones	# of Cooling Zones
 <p>1707</p>	134" 340 cm	7 Top 7 Bottom	1 Bottom Cool optional
 <p>1809</p>	183" 465 cm	9 Top 9 Bottom	2 Top (std) 3 Top optional Bottom Cool optional
 <p>1812-S</p>	175" Air 207" Nitrogen 444 cm Air 508 cm Nitro	12 Top 11 Bottom	2 Bottom Cool optional
 <p>1913</p>	232" 589 cm	13 Top 13 Bottom	3 Top Air 4 Top Nitro Bottom Cool optional

HELLER INDUSTRIES

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