

HELLER INDUSTRIES, INC.

Heller Reflow Oven Specifications		
Model	1707EXL(Air)	1707EXL (Nitrogen)
Electric Supply		
Power Input (3 Phase) Standard	208/240 volts	208/240 volts
Breaker Size	100 amps @ 480v	100 amps @ 480v
kW	10-12 Continuous*	10-12 Continuous*
Typical Run Current	20 - 25 amps @ 480v	20 - 25 amps @ 480v
Optional Power Inputs Available	380/400/440/415/480 VAC	380/400/440/415/480 VAC
Frequency	50/60 Hz	50/60 Hz
Sequential Zone Turn On	S	S
Single Phase Operation	Not Available	Not Available
Dimensions		
Overall Length	134" (340 cm)	134" (340 cm)
Overall Width	54" (137 cm)	54" (137 cm)
Overall Height	63" (160 cm)	63" (160 cm)
Typical Net Weight	3000 lbs. (1360 kg)	3000 lbs. (1360 kg)
Typical Shipping Weight (Domestic)	3500 lbs. (1587 kg)	3500 lbs. (1587 kg)
Typical Shipping Weight (Export)	4000 lbs. (1814 kg)	4000 lbs. (1814 kg)
Computer Control		
AMD or Intel Based Computer	S	S
Recipe Storage	> 500	> 500
Flat Screen Monitor	S	S
Windows Operating System	Windows XP®	Windows XP®
Monitor mount	S	S
Auto Start Software	S	S
Data Logging	S	S
Password Protection	S	S
LAN Networking	O	O
Inert Atmosphere		
Minimum PPM Oxygen	-	10-25 PPM
Nitrogen Cooling	-	S
Waterless Cooling w/ Flux Separation System	-	O
Nitrogen On/Off Valve	-	O
Oxygen Monitoring System	-	O
Nitrogen Standby System	-	O
Sample Port in Reflow	-	S
Typical Nitrogen Consumption*	-	700 - 900 SCFH **
Additional Features		
KIC / ECD Profiling Software	S	S
Signal Light Tower	S	S
Powered Hood Lift	S	S
Five (5) Thermocouple Profiling	S	S
30" Heater Modules	O	O
Redundant Alarm Sensors	O	O
Independent Alarm Scanner	O	O
KIC Profiler / ECD Profiler	O	O
Center Board Support	O	O
Board Drop Sensor	O	O
Board Counter	O	O
Bar Code Reader	O	O
Custom Paint & Decal	O	O
Battery Backup for Conveyor and PC	O	O
GEM/SECS Interfacing	O	O
Custom Engineering and Software	Available	Available

* Varies depending on Options included with the oven

** Tested at 500 PPM. Varies with PCB size and oven configuration

Specifications Continue on Reverse

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Heller Reflow Oven Specifications (Continued)

Model	1707EXL (Air)	1707EXL (Nitrogen)
Mesh Belt Conveyor		
Height From Floor	35.5" \pm 2.0" (90 cm \pm 5 cm)	35.5" \pm 2.0" (90 cm \pm 5 cm)
Maximum PCB Width	22" (55.8 cm)	10" (25 cm) 15" (38 cm) 18" (46 cm)
** Requires 30" Heater Modules	26" (66 cm)**	22" (55.8 cm) 26" (66 cm)**
Space Required Between PCB's	0.0" (0.0 cm)	0.0" (0.0 cm)
Conveyor Length On-Load	18" (46 cm) *	6" (15 cm) *
Conveyor Length Off-Load	18" (46 cm) *	6" (15 cm) *
Heated Tunnel Length	72" (183 cm)	72" (183 cm)
Process Clearance Above Mesh Belt	2.3" (5.8 cm)	2.3" (5.8 cm)
Mesh Belt Pitch	0.5" (1.27 cm)	0.5" (1.27 cm)
Maximum Conveyor Speed	74"/Min (188 cm/min.)	74"/Min (188 cm/min.)
Conveyor Direction Left to Right	S	S
Conveyor Direction Right to Left	O	O
Conveyor Speed Control Type	Closed Loop	Closed Loop
Edge Hold Conveyor System Option		
Height from Floor – Standard	37.0" \pm 2.0" (94 cm \pm 5 cm)	37.0" \pm 2.0" (94 cm \pm 5 cm)
Height from Floor – Optional	32.6" +3.9" / - .4" (83 cm + 10 cm / -1 cm)	32.6" +3.9" / - .4" (83 cm + 10 cm / -1 cm)
Clearance Above Conveyor Pins	1.15" (2.9 cm)	1.15" (2.9 cm)
Clearance Below Conveyor Pins	1.15" (2.9 cm)	1.15" (2.9 cm)
Length of PCB Support Pins	.187" (4.75 mm)	.187" (4.75 mm)
3 mm long support pins	O	O
Minimum/Maximum Board Width	2.0" – 20" (5 – 50.8 cm)	2.0" - 20" (5 –50.8 cm)
** Requires 30" Heater Modules	24" (61 cm)**	24" (61 cm)**
Edge Hold Rail Heaters	Not Required	Not Required
Power Width Adjustment	S	S
Computer Controlled Width Adjust	O	O
Auto Lubrication System	S	S
Forced Convection Zones		
Top	7	7
Bottom	7	7
Heater Type	Instant response open coil	Instant response open coil
Heater Material	Nichrome	Nichrome
Profile Change Time	5 – 15 minutes	5 - 15 minutes
Temperature Control		
Accuracy of Temperature Controller	\pm .1°C	\pm .1°C
Cross-Belt Temperature Tolerance	\pm 3.0°C	\pm 3.0°C
Heater Wattage Per Zone	6000 w	6000 w
Temperature Range Standard	25-350°C	25-350°C
High Temperature Up to 400°C	O	O
High Temperature Up to 450°C	O	O
Insulation Type	Calcium Silicate	Calcium Silicate
UV Cure	O	O
Cooling Systems		
Number of Cooling Zones Standard	1	1
Additional Cooling Zones(External)	O	O
Water Cooling	-	O
Waterless Cooling	-	O

Notes: S = Standard, O = Optional. * A 12" (30 cm) Conveyor extension is an available option
 A continuous program of product improvement may result in changes to specification and performance.
 The right is reserved to institute these improvements without notice or liability.

Specifications continue on reverse.

HELLER

INDUSTRIES, Inc.

At the leading edge of electronic assembly

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