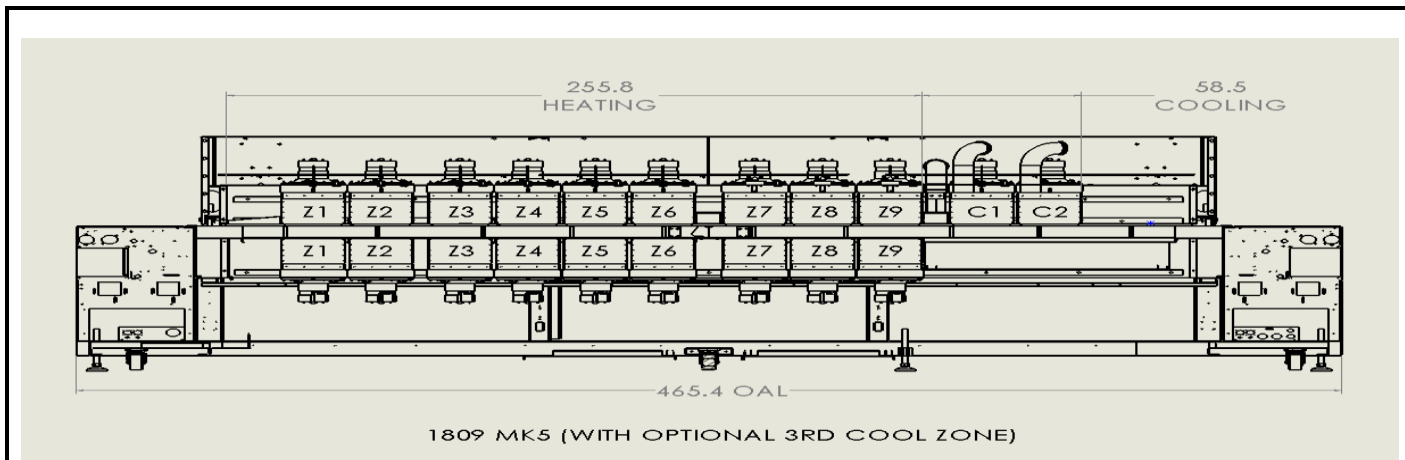


Heller Industries Model 1809 MK5



1809MK5 (Air)	1809MK5 (Nitrogen)
---------------	--------------------

Electric Supply

Power Input (3 Phase) Standard	480 volts	480 volts
Breaker Size	100 amps @ 480v	100 amps @ 480v
kW	8.5 - 16 Continuous	7.5 - 16 Continuous
Typical Run Current	25 - 35 amps @ 480v	25 - 35 amps @ 480v
Optional Power Inputs Available	208/240/380/400/415/440/480 VAC	208/240/380/400/415/440/480 VAC
Frequency	50/60 Hz	50/60 Hz
Sequential Zone Turn On	S	S

Dimensions

Overall Oven Dimensions	183" (465cm) L x 60" (152cm) W x 63" (160cm) H	183" (465cm) L x 60" (152cm) W x 63" (160cm) H
Typical Net Weight	4343 lbs. (1970 kg)	4550 lbs. (2060 kg)
Typical Shipping Weight	5335 lbs. (2420 kg)	5556 lbs. (2520 kg)
Typical Shipping Dimension	195" x 73" x 81"	495 x 185 x 205 cm

Computer Control

AMD or Intel Based Computer	S	S
Flat Screen Monitor w/Mount	S	S
Windows Operating System	Windows 10® Home	Windows 10® Home
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*
Waterless Cooling w/ Flux Separation System	-	O
Nitrogen On/Off Valve	-	O
Oxygen Monitoring System	-	O
Nitrogen Standby System	-	O
Typical Nitrogen Consumption	-	500 - 700 SCFH **

Additional Features

KIC Profiling Software	S	S
Signal Light Tower	S	S
Powered Hood Lift	S	S
Five (5) Thermocouple Profiling	S	S
Redundant Alarm Sensors	O	O
Intelligent Exhaust System	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

*May require additional hardware to achieve these levels ** Varies with PPM, PCB size and oven configuration

Heller Industries Model 1809 MK5

Mesh Belt Conveyor

Height From Floor	37.5" ± 2.4" (95 cm ± 6 cm)	37.5" ± 2.4" (95 cm ± 6 cm)
Maximum PCB Width	22" (56 cm)	22" (56 cm)
Space Required Between PCB's	0.0" (0.0 cm)	0.0" (0.0 cm)
Conveyor Length On-Load	18" (46 cm) *	3" (7.5 cm) *
Conveyor Length Off-Load	18" (46 cm) *	3" (7.5 cm) *
Heated Tunnel Length	101" (256 cm)	101" (256 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	Closed Loop	Closed Loop

Edge Hold Conveyor System Option

Height from Floor – Standard	38.6" ± 2.4" (98 cm ± 6 cm)	38.6" ± 2.4" (98 cm ± 6 cm)
Height from Floor – Optional	35.4" ± 2.4" (90 cm ± 6 cm)	35.4" ± 2.4" (90 cm ± 6 cm)
Clearance Above & 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" – 22" (5 – 56 cm) 24" (61cm) Optional**	2" – 22" (5 – 56 cm) 24" (61cm) Optional**
Power Width Adjustment	S	S
Computer Controlled Width Adjust	O	O
Auto Lubrication System	S	S

Forced Convection Zones

Top & Bottom	9	9
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	± .1°C	± .1°C
Cross-Belt Temperature Tolerance	± 2.0°C	± 2.0°C
Heater Wattage Per Zone	5400 w***	5400 w***
Temperature Range Standard	60-350°C	60-350°C
High Temperature Up to 450°C	O	O

Cooling Systems

Number of Cooling Zones Standard	2	2
Additional Cooling Zones	O	O
Water Cooling	-	O

Notes: S = Standard, O = Optional.

* A 12" (30 cm) Conveyor extension is an available option ** Need some SPL design *** 380V heater wattage 4400 W

Specifications continue on reverse.

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.

April 2018

HELLER

INDUSTRIES, Inc.

At the leading edge of electronic assembly

Heller Industries, Inc., 4 Vreeland Road, Florham Park, New Jersey 07932

• Tel (973) 377-6800 • Fax (973) 377-3862 • E-Mail: info@hellerindustries.com • Web Site: www.hellerindustries.com

West Coast Office: (512) 454-4057 • E-mail: kvirden@hellerindustries.com

Europe Office: +441-16-223-8107 • E-Mail: pmartin@hellerindustries.com

Korea Office: 82-31-769-0808 • E-Mail: hpark@hellerindustries.co.kr China Office: 86-21-6442-6180 • E-Mail: jwu@hellerindustries.com.cn