- 5" of Multi-Layered Insulation
- Welded Steel **Powder-Coated** Case
- Hard Ceramic **Element Holders** protect brick and make element changes fast and easy
- Dynamic Zone **Control keeps** temperatures uniform throughout kiln
- Separated **Control Panel** protects components



optional NEMA1 Panel

- Protected Thermocouples
- Manual Vent for guicker cooldown
- For Heavy Production, Industry and Institutions
- Customize to meet your exact needs. Every kiln is built to order

Easy-Load Kilns are made for production ceramics, high-volumn school programs, and industrial use



505 Sharptown Road • Swedesboro, NJ 08085 Phone: 856.294.0077 • Fax: 856.294.0070

KILNS BUILT TO LAST

Bulletin No: EL-0222

Unique L&L Features with Lasting Benefits

CONE 10 TEMPERATURE RATING

Cone 10, 2350°F, 1290°C.

EASY TO LOAD

Front-loading design makes these kilns very easy to load and unload.

EXTRA INSULATION ON ALL SURFACES

3" K23 firebrick with 2" backup insulation on sides, door and back. 3" K23 firebrick with 2" dense calcium silicate on bottom. 4.5" high-strength K25 Firebrick arch brick with backup insulation on top arch.

PATENTED CERAMIC ELEMENT HOLDERS

Protect brick from loading damage, keep elements from falling out of grooves, make changing elements easy, and optimize heat transfer to load. Kiln lasts longer! No pins. **(hotkilns.com/ceramic-holders)**



HEAVY-DUTY LARGE ELEMENTS Heavy-duty. Elements evenly divided into 3 zones (2 on EL2424-H).

DOOR ELEMENTS

Elements are located in the door for even heating of the entire chamber. Door elements are zoned with rest of kiln.



HEAVY-DUTY WELDED CASE

Solid welded heavy gauge (1/8") thick steel case. Powder coated attractive hammertone blue provides superior corrosion resistance.

WELDED SEPARATE STAND

Stand is made of welded square tubing. This attaches to the kiln with large pins. Feet include leveling pads with holes for anchor bolts.





HEAVY-DUTY DOOR

Heavy-duty door hinges to the left. Door opens all the way to 180° so that the door opening is completely unobstructed. Right handed hinge is optional. See page 6.



ADJUSTABLE HINGE

Hinge is fully adjustable with slots and multiple heavy-duty bolts.



DOOR PLUG & GASKET

Brick door has an inset stepped brick plug and fiberglass tadpole gasket for tightness of door seal.



ARCHED ROOF FOR STRENGTH

The arch is made of 4.5" of extra-strong 2500°F K25 arch brick.



SOLID CERAMIC PEEPHOLE PLUGS



Non-fragile solid ceramic with heatlocked head. 1" diameter full-view non-tapered. Two or three in the door for easy viewing.

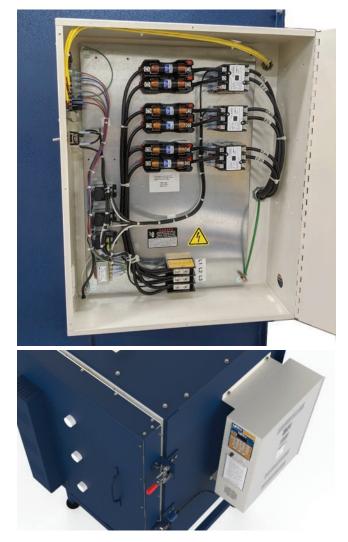
DOOR SHUT OFF SWITCH

Limit switch shuts power off when door is opened.



SEPARATE PANEL WITH AIR SPACE

Separate control panel is mounted on the right side. 50 amp mechanical contactors with control relays, branch fusing, on/off switch and control fuse are included. The control panel is hinged for easy access. Direct electrical hook-up to terminal block. SSRs are optional - see page 6. (hotkilns.com/ easy-load-panel)

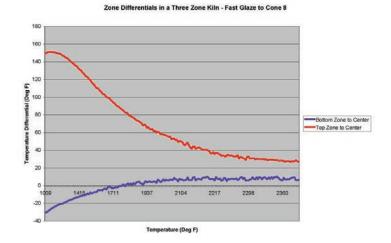


EASY MULTI-PROGRAM DYNATROL

The time-tested DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics. *Optional Genesis control (see page 8) features touch screen and free Wifi App for monitoring kiln.* (hotkilns.com/dynatrol)

DYNAMIC ZONE CONTROL

This is a *standard* feature with either a DynaTrol or touch-screen Genesis control. The control separately measures temperatures in the bottom, middle, and top of the kiln and automatically adjusts the heat of two or three zones during the firing. Kiln temperatures are automatically equalizes to within 1/2 cone or better. Zone control automatically compensates for many loading issues and element resistance changes. Additionally, L&L kilns are fundamentally uniform because the element holders radiate the heat more evenly. **(hotkilns.com/zonecontrol)**



MERCURY FREE RELAYS

Mercury free relays are standard. See Page 6 for optional electronic SSRs for extra long element life and quiet operation.

CERAMIC ELEMENT CONNECTIONS

Proprietary all-ceramic element connection block makes changing elements easy. (hotkilns.com/ceramic-terminal)



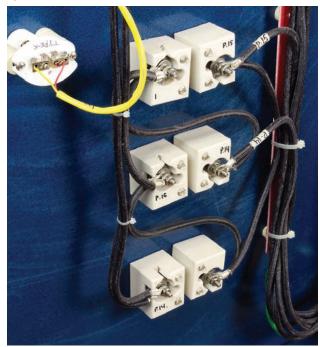
HEAVY-GAUGE TYPE K THERMOCOUPLES

Type K 8 gauge thermocouple is protected by a open ceramic protection tube. This allows the thermocouple to accurately read the kiln temperature but protects the delicate tip of the thermocouple from damage while loading. Also any metallic flakes from the thermocouple will tend to drop inside the tube where they can be vacuumed out during normal maintenance. (hotkilns.com/protectedthermocouples)



INDUSTRIAL QUALITY WIRING

150°F Wire is used for power wire and is neatly mounted away from the case with electrical board spacers. All wires are numbered.

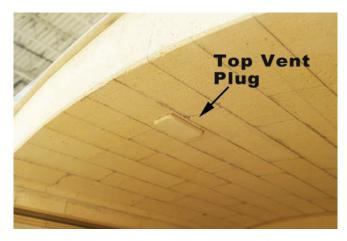


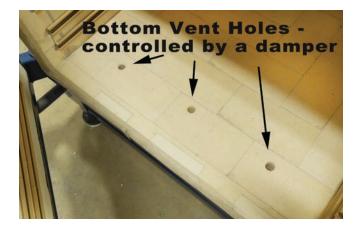
L&L KILNS ARE EASY TO TROUBLESHOOT

Open up any L&L kiln control panel and see how easy it is to check amps, element resistance, and voltage. No other kiln can be serviced as quickly, easily, or inexpensively as an L&L kiln.

MANUAL VENTING SYSTEM

A slide damper in the bottom of the kiln opens up three 1" diameter inlet holes. A brick plug on the top of the kiln can be pulled out. This system helps cool the kiln without opening the door. (It is not meant to replace a powered downdraft vent.)





2-YEAR COMMERCIAL LIMITED WARRANTY

See **hotkilns.com/commercial-warranty.** Email, web and phone support.

IN-DEPTH SUPPORT

Our website has thousands of pages of technical help - all easily searchable - plus we provide expert support with web, phone and email.

SUSTAINABLE MANUFACTURING

We use solar energy as our primary energy source.

COMPLETE VISUAL INSTRUCTIONS

No one has a better or more complete instruction manual. Our visual instructions address the needs of the artist, the installer, and the repair person. You get a fully illustrated operation and service manual. Many instructional videos are available. (hotkilns. com/videos)



SUPERIOR PACKAGING

Kilns are crated. You will need a forklift to unload. See hotkilns.com/easyload-checklist for ordering checklist.



MET UL499 LISTING

MET-us listed to UL499

standards assures highest safety standards. (hotkilns.com/met)

Options & Accessories

CONE 11 FURNITURE KITS



Shelves are high alumina cone 11 shelves. Each post kit includes six each 1/2", 1", 2", 4", 6" and 8" high square (1.5" x 1.5") cordierite posts. All furniture kits include one pair

heat-resistant gloves. (hotkilns.com/kiln-furniture)

POWERED BOTTOM

There are elements in the bottom. These operate off of the bottom zone thermocouple at an adjustable percentage of power.



APM ELEMENTS

Special sintered alloy provides the ultimate in element life. The special sintered alloy inhibits grain growth and resistance change in the elements. (hotkilns.com/apm)

ALL K25 INSULATION

Brick can all be made from K25 firebrick, which is slightly denser and withstands higher temperartures. Used in conjunction with APM elements and Type S thermocouple, the kiln can be rated to 2400°F.

RIGHT HANDED DOOR

Door is hinged in on the right. The control panel stays on the left hand side.



TYPE S THERMOCOUPLES

The best thermocouple for constant high fire applications. No thermocouple drift. Priced per thermocouple. (hotkilns.com/type-s)

PYROCIL SHEATHED THERMOCOUPLES

For greater sensitivity to temperature change. Use below 2200°F for sensitivity (glass is a good example). Priced per thermocouple. These are useful for sensitive industrial applications. (hotkilns.com/pyrocil-tc)

SOLID STATE RELAYS

Industrial Grade Solid State Relays are quiet and result in longer element life because the switching time is so fast the elements don't expand and contract as much. The whole system includes extra large heat sinks, special fast acting fuses, panel cooling fan and extra safety relays. (hotkilns.com/ssr)

Options & Accessories

HIGH LIMIT BACK UP CONTROL

Bartlett High Limit Control with latching relay acts as a back up to the main control. If the main control fails for any reason then this acts as a "back stop" and shuts the kiln down. **(hotkilns.com/high-limit)**

BACK UP CONTACTORS

Actuated by the High Limit Back Up Digital Control, back up contactors are completely redundant power contactors so that if one or more contactors fail in a closed position, then the kiln still cannot climb above the High Limit set point. (hotkilns.com/high-limit)

120 VOLT POWER SUPPLY

If there are problems with short power outages, voltage spikes, voltage drops, or excessive environmental line noise, this can cause unpredictable behavior in the electronic control. With this option the control is powered by a separate 120 volt line (with a standard 6 foot long cord) and that voltage is filtered though an EMI (Electrical Magnetic Interference) noise filter. **(hotkilns.com/noise)**

FLOOR STANDING NEMA 1 CONTROL PANEL

Industrial applications and 480 volt models typically get this option.



DOWNDRAFT VENT SYSTEM

Vent-Sure downdraft vent vents fumes from kiln out of room and away from kiln. (hotkilns.com/vent)

VENT-SURE FEATURES

- Downdraft venting pulls air down to bottom of kiln
- Improves temperature uniformity inside the kiln
- Powerful 130 CFM fan motor, typically mounted on wall, allows fumes to be under vacuum in your studio
- The strong fan motor helps overcome static pressure in long exhaust lines. The duct may be up to 60 feet in length, and include up to four 90° bends
- 120 volts with on/off switch on cord (240 volts available)
- 15 foot long flexible aluminum duct
- Bypass collection box mounted on kiln allows adjustment of venting.
- Fan motor, mounted away from the kilns, stays cool and no vibration is transmitted to the kiln



- The included Multi-Mounting Bracket allows you to mount the vent on the floor or, alternately, to mount the vent on a wall so that the output of the vent is pointing up.
- Three-year Limited Warranty
- c-MET-us Listed to UL499 standards for use on MET-us and c-MET-us listed L&LKilns

VENT CONTROL

Allows vent to be controlled with an event switch in the DynaTrol or Genesis. (For use with one kiln.) (hotkilns.com/vent-control)



Genesis Touch Screen Control with App

GENESIS TOUCH SCREEN CONTROL

The Genesis control includes a touch screen interface and WIFI connectivity added to the proven software of the DynaTrol. More programming options and memory. Free App available to monitor kiln via WiFi. (hotkilns.com/genesis)



GENESIS FEATURES

- Touch-screen intuitive technology for easy user interface.
- Easy-to-follow screen descriptions.
- Different user-interface levels, which can be set to match the user's firing knowledge.
- Graphical display of the firing process right at the controller. This means you can graph the firing in real time and compare the program with actual results.
- Glass programs included.
- Store up to 30 custom user programs.
- Up to 32 segments per program.
- Ability to make adjustments during a firing such as add segments, add temperature, and skip segments.
- Built in diagnostics testing
- Alarm
- Error Codes
- WiFi enabled for easy software updating.
- Included Phone App allows you to monitor kiln operation remotely (with no subscription fee).



The Genesis control fits right into the control box to replace the DynaTrol. That means you can upgrade anytime!



See a graph of your firing before you fire, while you fire and after you fire.

	En
Firing	Status
Glaze	Program
152°F	Temperature
157°F	Set Point
Ramp 1 of 3	Segment
0:00	Firing Time
12/30/19, 10:40 AM	Last Update

III

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This shows the view you get on your phone with the Kiln Aid Phone app. Simply download the Kiln Aid phone app from your Google Play Store or Apple App Store, add your kiln, and begin monitoring as your kiln progresses through a firing. See temperatures, where you are in a program cycle, what program you are firing and error notifications.

1

Dimension & Weight Specifications

Model Number	Inside Dimensions	Cu- bic	Hearth Dim	Furniture Kit	Outside Dimensions	Shipping Dimensions	Ship Weight	Ship Weight		
		Feet					Kiln (lbs)	Kiln, Vent, Kit		
EL2424-H	25" W x 25" D x 24" H	8.0	22" x 22"	(4) 11" x 22" shelves, 1 post kit	50" W x 43" D x 64" H	60" W x 57" D x 69" H	895 lbs	1040 lbs		
EL2427-H	25" W x 25" D x 27" H	9.0	22" x 22"	(6) 11" x 22" shelves, 1 post kit	50" W x 43" D x 69" H	60" W x 57" D x 72" H	1285 lbs	1360 lbs		
EL2436	25" W x 25" D x 36" H	12.0	22" x 22"	(8) 11" x 22" shelves, 2 post kits	50" W x 43" D x 78" H	60" W x 57" D x 80" H	1540 lbs	1665 lbs		
EL2448	25" W x 25" D x 48" H	16.0	22" x 22"	(10) 11" x 22" shelves, 2 post kits	50" W x 43" D x 80" H	60" W x 57" D x 82" H	1730 lbs	1880 lbs		
EL2848	31" W x 25" D x 48" H	20.0	28" x 22"	(12) 14" x 24" shelves, 2 post kits	56" W x 43" D x 80" H	66" W x 57" D x 82" H	1895 lbs	2140 lbs		
EL3048	31" W x 32" D x 48" H	25.0	28" x 28"	(12) 14" x 28" shelves, 2 post kits	56" W x 50" D x 80" H	66" W x 64" D x 82" H	2080 lbs	2345 lbs		
METRIC	METRIC DIMENSIONS (CM, LITERS & KG)									
EL2424-H	64 W x 64 D x 61 H	227	56 x 56	(4) 28 x 56 shelves, 1 post kit	127 W x 109 D x 163 H	122 W x 153 D x 183 H	406 KG	472 KG		
EL2427-H	64 W x 64 D x 67 H	255	56 x 56	(6) 28 x 56 shelves, 1 post kit	127 W x 109 D x 175 H	122 W x 153 D x 191 H	583 KG	617 KG		
EL2436	64 W x 64 D x 91 H	340	56 x 56	(8) 28 x 56 shelves, 2 post kit	127 W x 109 D x 198 H	122 W x 153 D x 196 H	699 KG	756 KG		
EL2448	64 W x 64 D x 121 H	454	56 x 56	(10) 28 x 56 shelves, 2 post kit	127 W x 109 D x 203 H	122 W x 153 D x 221 H	785 KG	853 KG		
EL2848	79 W x 64 D x 121 H	567	71 x 56	(12) 36 x 61 shelves, 2 post kit	142 W x 112 D x 203 H	153 W x 153 D x 221 H	860 KG	971 KG		
EL3048	79 W x 83 D x 121 H	708	71 x 71	(12) 36 x 71 shelves, 2 post kit	142 W x 127 D x 203 H	153 W x 166 D x 221 H	944 KG	1064 KG		

Hearth Height: Approximately 30" (76 cm) for the EL2424-H, EL2427-H and EL2436 and 20" (51 cm) for all other models.

Extra Skid: Models EL2436, EL2448, EL2848 and EL3048 get an extra skid when getting a vent and furniture kit. The extra skid is 42" (107 cm) wide by 48" (122 cm) deep by 36" (91 cm) High

Moving and installation:

- The EL2424-H and EL2427-H will go through a standard 34.5" (88 cm) door that is at least 74" (188 cm) high.
- The EL2436 will go through a standard 34.5" (88 cm) door that is at least 76" (193 cm) high.
- The EL2448 and EL2848 will go through a door that is 34.5" (88 cm) wide by 86" (218 cm) high.
- The EL3048 will go through a door that is 40.5" (103 cm) wide by 86" (218 cm) high.
- The kiln must be moved on a flat surface. The case is designed to be picked up by a forklift or pallet jack from the front, back or sides.

MORE: See each model page on *hotkilns.com* to download PDF General Dimension Drawings for more outside and inside dimensions, minimum space requirements, BTU ventilation requirements, and kiln weight. See the Shipping Tab on the model page for complete shipping dimension and shipping weight information.

Electrical Specifications (USA)

Model Number	Part Number	Volt/	Watts	Amps	Wire	Fuse
		Phase			Size	Size
EL2424-H-240	K-B-2424/31	240/1P	15,000	62.5	3 ga	80 Amps
EL2424-H-240-3P	K-B-2424/32	240/3P	15,000	54.1	4 ga	70 Amps
EL2424-H-208	K-B-2424/21	208/1P	15,000	72.1	1 ga	100 Amps
EL2424-H-208-3P	K-B-2424/22	208/3P	15,000	62.5	3 ga	80 Amps
EL2424-H-480-3P	K-B-2424/62	480/3P	15,000	27.1	8 ga	40 Amps
EL2427-H-240	K-B-2427/31	240/1P	16,500	68.8	2 ga	90 Amps
EL2427-H-240-3P	K-B-2427/32	240/3P	16,500	39.7	6 ga	50 Amps
EL2427-H-208	K-B-2427/21	208/1P	16,500	79.3	1 ga	100 Amps
EL2427-H-208-3P	K-B-2427/22	208/3P	16,500	45.8	6 ga	60 Amps
EL2427-H-480-3P	K-B-2427/62	480/3P	16,500	19.8	12 ga	25 Amps
EL2436-240	K-B-2436/31	240/1P	19,000	79.2	1 ga	100 Amps
EL2436-240-3P	K-B-2436/32	240/3P	19,000	45.7	6 ga	60 Amps
EL2436-208	K-B-2436/21	208/1P	19,000	91.3	1/0	125 Amps
EL2436-208-3P	K-B-2436/22	208/3P	19,000	52.7	4 ga	70 Amps
EL2436-480-3P	K-B-2436/62	480/3P	19,000	22.9	10 ga	30 Amps
EL2448-240	K-B-2448/31	240/1P	24,200	100.8	3/0	150 Amps
EL2448-240-3P	K-B-2448/32	240/3P	24,200	58.2	3 ga	80 Amps
EL2448-208	K-B-2448/21	208/1P	24,200	116.3	3/0	150 Amps
EL2448-208-3P	K-B-2448/22	208/3P	24,200	67.2	2 ga	90 Amps
EL2448-480-3P	K-B-2448/62	480/3P	24,200	29.1	8 ga	40 Amps
EL2848-240	K-B-2848/31	240/1P	27,000	112.5	3/0	150 Amps
EL2848-240-3P	K-B-2848/32	240/3P	27,000	65.0	2 ga	90 Amps
EL2848-208	K-B-2848/21	208/1P	27,000	129.8	4/0	175 Amps
EL2848-208-3P	K-B-2848/22	208/3P	27,000	74.9	1 ga	100 Amps
EL2848-480-3P	K-B-2848/62	480/3P	27,000	32.5	6 ga	50 Amps
EL3048-240	K-B-3048/31	240/1P	31,500	131.3	4/0	175 Amps
EL3048-240-3P	K-B-3048/32	240/3P	31,500	75.8	1 ga	100 Amps
EL3048-208	K-B-3048/21	208/1P	31,500	151.4	250 MCM	200 Amps
EL3048-208-3P	K-B-3048/22	208/3P	31,500	87.4	1 ga	110 Amps
EL3048-480-3P	K-B-3048/62	480/3P	31,500	37.9	6 ga	50 Amps

MET UL499 Listing: All models are MET-us listed to UL499 standards.

Power connection: All models are a direct connection to a terminal block in the control panel.

Electrical Specifications (World)

Model Number	Part Number	Volt/	Watts	Amps	Wire	Fuse
		Phase			Size	Size
EL2424-H-220	K-B-2424/41	220/1P	15,000	68.2	2 ga	90 Amps
EL2424-H-380-3PY	K-B-2424/52	380/3PY	15,000	34.1	6 ga	50 Amps
EL2424-H-400-3PY	K-B-2424/82	400/3PY	15,000	32.6	6 ga	50 Amps
EL2424-H-415-3PY	K-B-2424/72	415/3PY	15,000	31.3	8 ga	40 Amps
EL2427-H-220	K-B-2427/41	220/1P	16,500	75.0	1 ga	100 Amps
EL2427-H-380-3PY	K-B-2427/52	380/3PY	16,500	25.0	8 ga	40 Amps
EL2427-H-400-3PY	K-B-2427/82	400/3PY	16,500	23.9	10 ga	30 Amps
EL2427-H-415-3PY	K-B-2427/72	415/3PY	16,500	22.9	10 ga	30 Amps
EL2436-220	K-B-2436/41	220/1P	19,000	86.4	1 ga	110 Amps
EL2436-380-3PY	K-B-2436/52	380/3PY	19,000	28.8	8 ga	40 Amps
EL2436-400-3PY	K-B-2436/82	400/3PY	19,000	27.5	8 ga	40 Amps
EL2436-415-3PY	K-B-2436/72	415/3PY	19,000	26.4	8 ga	40 Amps
EL2448-220	K-B-2448/41	220/1P	24,200	110.0	3/0	150 Amps
EL2448-380-3PY	K-B-2448/52	380/3PY	24,200	36.7	6 ga	50 Amps
EL2448-400-3PY	K-B-2448/82	400/3PY	24,200	35.1	6 ga	50 Amps
EL2448-415-3PY	K-B-2448/72	415/3PY	24,200	33.6	6 ga	50 Amps
EL2848-220	K-B-2848/41	220/1P	27,000	122.7	4/0	175 Amps
EL2848-380-3PY	K-B-2848/52	380/3PY	27,000	40.9	6 ga	60 Amps
EL2848-400-3PY	K-B-2848/82	400/3PY	27,000	39.1	2 ga	90 Amps
EL2848-415-3PY	K-B-2848/72	415/3PY	27,000	37.5	2 ga	90 Amps
EL3048-220	K-B-3048/41	220/1P	31,500	143.2	250 MCM	200 Amps
EL3048-380-3PY	K-B-3048/52	380/3PY	31,500	47.7	6 ga	60 Amps
EL3048-400-3PY	K-B-3048/82	400/3PY	31,500	45.7	6 ga	60 Amps
EL3048-415-3PY	K-B-3048/72	415/3PY	31,500	43.8	6 ga	60 Amps

MET UL499 Listing: All models are MET-us listed to UL499 standards. They are not listed to CSA standards.

Power connection: All models are a direct connection to a terminal block in the control panel.

EL2424-H

Temperature Rating: Cone 10 Volume: 8 Cubic Feet Inside Dim: 25" W x 25" D x 24" H Hearth Size: 22" x 22" Outside Dim: 50" W x 64" H x 43" D



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FURNITURE KIT FOR EL2424-H

Part Number: H-B-2424/00

Includes: Four 11" x 22" Rectangular Shelves (3/4" thick), Six Each 1/2", 1", 2", 4", 6", and 8" Square Posts, Heat Resistant Gloves.



EL2427-H

Temperature Rating: Cone 10 Volume: 9 Cubic Feet Inside Dim: 25" W x 25" D x 27" H Hearth Size: 22" x 22" Outside Dim: 50" W x 69" H x 43" D







FURNITURE KIT FOR EL2427-H

Part Number: H-B-2427/00

Includes: Six 11" x 22" Rectangular Shelves (3/4" thick), Six Each 1/2", 1", 2", 4", 6", and 8" Square Posts, Heat Resistant Gloves.

EL2436

Temperature Rating: Cone 10 Volume: 12 Cubic Feet Inside Dim: 25" W x 25" D x 36" H Hearth Size: 22" x 22" Outside Dim: 50" W x 78" H x 43" D



FURNITURE KIT FOR EL2436

Part Number: H-B-2436/00

Includes: Eight 11" x 22" Rectangular Shelves (3/4" thick), Twelve Each 1/2", 1", 2", 4", 6", and 8" Square Posts, Heat Resistant Gloves.

EL2448

Temperature Rating: Cone 10 Volume: 16 Cubic Feet Inside Dim: 25" W x 25" D x 48" H Hearth Size: 22" x 22" Outside Dim: 50" W x 80" H x 43" D





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sales@hotkilns.com

Resistant Gloves.

EL2848

Temperature Rating: Cone 10 Volume: 20 Cubic Feet Inside Dim: 31" W x 25" D x 48" H Hearth Size: 28" x 22" Outside Dim: 56" W x 80" H x 43" D







FURNITURE KIT FOR EL2848H

Part Number: H-B-2848/00

Includes: Twelve 14" x 24" Rectangular Shelves (3/4" thick), Twelve Each 1/2", 1", 2", 4", 6", and 8" Square Posts, Heat Resistant Gloves.

EL3048

Temperature Rating: Cone 10 Volume: 25 Cubic Feet Inside Dim: 31" W x 32.5" D x 48" H Hearth Size: 28" x 28" Outside Dim: 56" W x 80" H x 50" D







FURNITURE KIT FOR EL3048H

Part Number: H-B-3048/00

Includes: Twelve 14" x 28" Rectangular Shelves (3/4" thick), Twelve Each 1/2", 1", 2", 4", 6", and 8" Square Posts, Heat Resistant Gloves.

What Makes Easy-Load Kilns **Built to Last?**





505 Sharptown Road • Swedesboro, NJ 08085 Phone: 856.294.0077 • Fax: 856.294.0070

KILNS BUILT TO LAST

Bulletin No: EL-0222