

Kilns Built To Last



L&L Kilns
hotkilns.com

Toll Free: 888.683.7472

L&L Kiln Mfg, Inc.

505 Sharptown Road, Swedesboro, NJ 08085

Ph: 856.294.0077 Fx: 856.294.0070 E: sales@hotkilns.com

Why L&L Kilns Are Right For You, Whoever You Are.



K-12 Schools

Durable L&L Kilns will save your school money and time. Our kilns are made for easy maintenance with no special training required. School-Master kilns are specifically designed for K-12 schools - especially with our new One-Touch® Intuitive Kiln Control and Five-Year Limited Warranty. Also see Renaissance Front-Loaders and the Easy-Fire kilns.



Universities

An important part of University-level ceramics involves many users loading and working with kilns. That's why you need an L&L! We recommend our Easy-Fire Series, eQuad-Pro, DaVinci Series and Easy-Load Front-Loaders.



Hobby Potters

Get all the features you want at an affordable price with L&L – a better warranty, ceramic element holders, sturdier stands, easily serviced control panels, and much more. Our best kilns for hobby potters are the Liberty Belle and Easy-Fire Series.



Sculptors

L&L makes a number of kilns that are well suited for professional sculptors. See the economical pull-apart option for Jupiter Kilns. Also consider our Bell-Lift and Front-Loading kilns.



Ceramic Artists

L&L's DynaTrol is configurable for just about every firing cycle imaginable. You get the ability to do anything from bisqueing pots to firing crystalline glaze. Our Dynamic Zone Control ensures even firing, vibrant colors and less warping. See the Easy-Fire Series, JH Series, Jupiter Series, Hercules Front-Loader and DaVinci Series.



Production Potters

Production pottery is hard on kilns. Constant loading and unloading takes a toll on the soft firebrick grooves typical kilns have. Hard ceramic element holders keep your operation running smoothly. See our eQuad-Pro, DaVinci Series, Bell-Lift kilns, and Easy-Load Front-Loading Kilns.



Contemporary Studios

Consider our School-Master Series. They are simple to operate, feature a Five-Year Limited Warranty and are perfect for this simple application. Protect your investment with a kiln that is built to last.



Industry

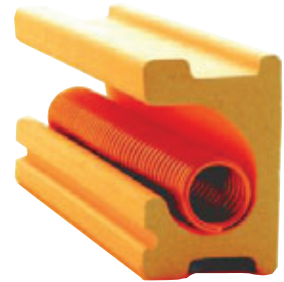
Of all the craft kilns on the market, L&L's are the most "industrialized" with ceramic element holders, heavy-duty ceramic terminals, carefully engineered electrical systems, remotely mounted controls, and many configurations and sizes. We also share the resources of our sister company, L&L Special Furnace Co Inc (www.hotfurnace.com), whose clients include NASA, Rolls Royce and 3M. See our Front-Loading kilns, DaVinci Series, Jupiter custom kilns, and Bell-Lift kilns. Be sure to call us with your special needs.

DynaGlow Element Holders

An Exclusive L&L Feature

Hard Ceramic Element Holders are the Key to L&L's Durability

The smooth, hard surface of the inside ceramic channel allows the elements to expand and contract freely, unrestricted by pins. This prevents catastrophic element failure. Elements don't droop out of broken firebrick channels. The dense ceramic DynaGlow holders also extend element life because they do not insulate the hot elements from the kiln interior.



Don't Let This Happen To You ▼

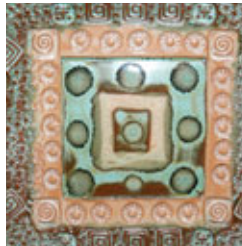


Here's What L&L Customers Say



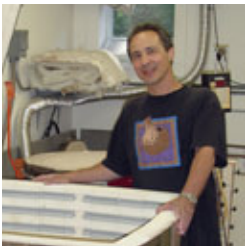
Bill Campbell

"I make a living out of my five L&L kilns. I really beat them up, firing them at least three times a week to Cone Ten. They take a real beating and keep on going."



Diane Emerson

"I switched to L&L because of the deterioration of the element channels in my last kiln. I load larger tiles and I need the extra durability on the face of the firebrick."



Frank Giorgini

"My original L&L (J2927) has provided outstanding service and reliability through the firing of countless pots, tiles, udu drums, sculptures and two New York City MTA Subway projects. It's still in service right next to my new kiln."



Index to Catalog

Index.....	Page 1
Product Selection Chart	Pages 2
Features and Benefits of L&L Kilns	Pages 3-4
Zone Control - Advanced Uniformity	Page 5
DynaTrol - Dynamic Zone Control.....	Page 6
One-Touch™ - Intuitive Kiln Control.....	Page 7
Easy-Fire Kilns with Dynamic Zone Control	Pages 8-13
School Master K-12 School Kilns with One-Touch™ Control	Pages 14-15
Jupiter Customizable Kilns with Dynamic Zone Control	Pages 16-27
eQuad-Pro Production Kilns with Dynamic Zone Control	Pages 28-29
JH Series Crystalline Glaze Kilns Kilns with Dynamic Zone Control.....	Pages 30-31
Hercules Medium-Sized Front-Loading Kilns with Dynamic Zone Control.....	Pages 32-33
Easy-Load Large Front-Loading Kilns with Dynamic Zone Control	Pages 34-35
DaVinci Square and Rectangular Production Kilns with Dynamic Zone Control.....	Pages 36-45
Bell-Lift Option for DaVinci X3200 & T3400 kilns.....	Pages 46-47
DaVinci TB644745-D 100 Cubic Foot Bell-Lift Kiln.....	Pages 48-49
Jupiter Manual Customizable Kilns with Kiln Sitter and Manual Zone Control.....	Pages 50-61
Dura-Fire Manual Kilns with Kiln Sitter and Hi-Medium-Low Control	Pages 62-63
Corona PMC & Glass Kilns.....	Page 64
Chameleon Glass Kilns	Page 65-66
Doll/Test Kilns with Three Control Options (One-Touch™, DynaTrol or Kiln Sitter)	Page 67-68
Liberty-Belle Hobby Kilns with One-Touch™ Control	Pages 69-70
Vent-Sure Vent	Pages 71-72

Toll Free: 888.683.7472

505 Sharptown Road, Swedesboro, NJ 08085

Phone: 856-294-0077 Fax: 856-294-0070 Email: sales@hotkilns.com Web: hotkilns.com

Rev: 1-1-12

L&L KILN PRODUCT SELECTION CHART

MODEL / SERIES ▶	EASY-FIRE Automatic (Top Loading)	SCHOOLMASTER Automatic (Top Loading)	JUPIETER-JD Automatic (Full-Apart Sculpture)	JUPIETER-JD Automatic (Custom Top Loading)	QUAD PRO Automatic (Top Loading)	JH SERIES Automatic (Crystalline Glaze)	HERCULES Automatic (Front Loading)	EASY-LOAD Automatic (Front Loading)	DAVINCI Automatic (Ball-Lit)	DAVINCI Automatic (Top Loading)	JUPIETER Manual (Custom Top Loading)	DURA-FIRE Manual (Top Loading)	DOLL / TEST Manual & Automatic (Top Loading)	LIBERTY-BELLE Automatic (Top Loading)
Intended Use & Customer Type	Schools, Institutions, Serious hobby potters	K-12 Schools, Contemporary Studies	Sculpture	Potters, Institutions & Industry making a wide variety of work with a need to customize their kiln.	Production Studios, Universities, Large High School Programs, Production Potters	Crystalline Glazing & High Fire applications	Industry, Production Studios, Universities	Industry, Production Studios, Universities, Sculpture	Production Studios, Universities, Large High School Programs, The Manufacturing	Production Studios, Universities, Large High School Programs, The Manufacturing	Manual kiln lovers who want manual zone control and custom size choice.	People who want the latest in old-fashion technology.	Hobbyist, Professional test kiln. Minimal electrical needs.	Hobbyist potters. Home use, probably dryer outlet.
Basic Kiln Description	Ideal kiln for schools & studios. Sections plug into floor mounted panel.	Ideal kiln for schools & studios. Sections plug into floor mounted panel.	Kiln pulls apart. Sections plug into floor mounted panel.	Customizable top loading kiln.	Heavy-duty, high-powered top loading production kiln.	Cone 12 test heat-up and crystalline glaze loading kiln.	Medium-sized industrial grade front-loading kiln.	Large industrial grade front-loading kiln.	Premium square or rectangular top loading kiln.	Kiln lifts up on gentry style lift for easy loading and access all around.	Customizable top loading kiln.	Durable top loading kiln. Excellent for difficult environments.	Small top loading kiln. Plugs into 30 amp dryer outlet.	Small top loading kiln. Plugs into 30 amp dryer outlet.
Price Range	High value for inclusive features	Low	Inexpensive way to do sculpture	Moderate	Moderate	Premium	Moderate	Premium	Premium	Premium	Moderate	Low to Moderate	Low to Moderate	Low to Moderate
Temperature Range	Cone 10, 2350°F, 1200°C (Cone 5 for 1-ph, 681T)	Cone 6, 2380°F, 1250°C (Cone 5 for 208 volt/1-ph, SM217-3)	Cone 10, 2350°F, 1200°C (Cone 5 for JD23 & JD2918)	Cone 10, 2350°F, 1200°C (Cone 5 for JD23 & JD2918)	Cone 10, 2350°F, 1200°C	Cone 12, 2400°F, 1315°C	Cone 10, 2350°F, 1200°C	Cone 10, 2350°F, 1200°C	Cone 10, 2350°F, 1200°C	Cone 10, 2350°F, 1200°C	Cone 5 for JD23 & JD2918	Cone 10, 2350°F, 1200°C (Cone 5 for D28T)	Depends on model - up to Cone 10, 2350°F, 1200°C	Cone 10, 2350°F, 1200°C
Sizes	10 sizes: D: 18", 23", 28" H: 18", 27", 36", 45"	3 sizes: D: 29" x 28" H: 27"	20 sizes: D: 18", 23", 29" H: 18", 27", 36", 45"	20 sizes: D: 18", 23", 29" H: 18", 27", 36", 45"	2 sizes: D: 18", 23", 29" H: 18", 27", 36", 45"	4 sizes: D: 18", 23", 29" H: 18", 27", 36", 45"	2 sizes: 25"W x 26"D x 24"H (8 B3) 25"W x 26"D x 27"H (9 B3)	4 standard sizes: Cube: 6" to 25", 30.5" Up to 30" Sq x 45" H	20 sizes: Sq: 22", 26.5", 30.5" Rect: 30.5" x 43" H: 18", 27", 36", 45"	6 sizes: Rect: 30.5" x 43" H: 18", 27", 36", 45"	11 sizes: D: 17", 23", 29" H: 18", 27", 36", 45"	6 sizes: D: 17", 23", 29" H: 18", 27", 36", 45"	1 size: 11"D x 6"H	1 size: 16.5" D x 18" H
Shape	8, 10, & 12 sided polygon	10 & 12 sided polygon	8, 10, & 12 sided polygon	8, 10, & 12 sided polygon	12 sided polygon	8, 10, & 12 sided polygon	Rect. Front-Loading Box, Arched Roof	Rect. Front-Loading Box, Arched Roof	Square, Rectangular	Square, Rectangular	8, 10 & 12 sided polygon	8, 10 & 12 sided polygon	6 sided polygon	8 sided polygon
Hinge	Spring-assisted hinge. Full support when open.	Spring-assisted hinge. Full support when open.	None. Lid lifts off (extra handles included)	Simple hinge with chains on 8 sided, spring hinge on 10 & 12 sided.	Spring-assisted hinge. Full support when open.	Simple hinge with chains on 8 sided, spring hinge on 10 & 12 sided.	Heavy-Duty hinge, door swings to the left. Right side opening door is optional.	Heavy-Duty hinge, door swings to the left. Right side opening door is optional.	None. Ball lifting mechanism instead	Welded angle-iron base w/ plate of aluminumized steel	Simple hinge with chains on 8 sided, spring hinge on 10 & 12 sided.	Simple hinge with chains on 8 sided, spring hinge on 10 & 12 sided.	Simple stainless steel hinge with door chains	Simple stainless steel hinge with door chains
Stand	Solid 14 gauge aluminumized steel	Solid 14 gauge aluminumized steel	Solid 14 gauge aluminumized steel	Solid 14 gauge aluminumized steel	Solid 14 gauge aluminumized steel	Solid 14 gauge aluminumized steel	Integrated welded stand	Integrated welded stand	Welded angle-iron base w/ plate of aluminumized steel	Welded angle-iron base w/ plate of aluminumized steel	Solid 14 gauge aluminumized steel	Solid 14 gauge aluminumized steel	Solid 14 gauge aluminumized steel	Solid 14 gauge aluminumized steel
Insulation	8, 10-side, 2.5", 3" 12-side, 3" only	10-side, 2.5", 3" 12-side, 3" only	2.5" or 3"	2.5" or 3"	3"	K23 Fibretek, 2.5" on sides & bottom, 3" on lid.	3" plus 2" mineral wool back up	3" plus 2" mineral wool back up	3"	3"	8, 10-side, 2.5", 3" 12-side, 3" only	8, 10-side, 2.5", 3" 12-side, 3" only	2.5"	3" (with 2.5" optional)
Elements	4 or 6 elements	6 elements	2 per section on 8 & 10 sided, 3 per section on 12 sided.	2 per section on 8 & 10 sided, 3 per section on 12 sided.	208 or 240 volt, 1 or 3-ph, 480 volt/3-ph, optional on 12 sided kilns	4 or 6 elements, quad-wrapped system	Varies with size, 480 volt/3-ph, optional on bottom	Varies with size, 480 volt/3-ph, optional on bottom	208 or 240 volt, 1 or 3-ph, 480 volt/3-ph, optional.	208 or 240 volt, 1 or 3-ph, 480 volt/3-ph, optional.	2 per section on 8 & 10 sided, 3 per section on 12 sided.	4 or 6 elements	3 elements	4 elements
Voltage	208 or 240 volt, 1-ph, only for 18" H 1 & 3-ph, for 27" H	208 or 240 volt, 1 or 3-ph.	208 or 240 volt, 1 or 3-ph, 480 volt/3-ph, optional on 12 sided kilns	208 or 240 volt, 1 or 3-ph, 480 volt/3-ph, optional on 12 sided kilns	208 or 240 volt, 1 or 3-ph.	208 or 240 volt, 1 or 3-ph.	208 or 240 volt, 1 or 3-ph, 480 volt/3-ph, optional.	208 or 240 volt, 1 or 3-ph, 480 volt/3-ph, optional.	208 or 240 volt, 1 or 3-ph, 480 volt/3-ph, optional.	208 or 240 volt, 1 or 3-ph, 480 volt/3-ph, optional.	208 or 240 volt, 1-ph, only	208 or 240 volt, 1-ph, only	120 volt/3-ph, standard, 208 or 240 volt, 1-ph, high powered version available	208 or 240 volt, 1-ph, only
Temperature Control	DynaTrol (4 Presets, 6 User Programs)	One-Touch (2 Presets, 4 User Programs)	DynaTrol (4 Presets, 6 User Programs)	DynaTrol (4 Presets, 6 User Programs)	DynaTrol (4 Presets, 6 User Programs)	DynaTrol (4 Presets, 6 User Programs)	DynaTrol (4 Presets, 6 User Programs)	DynaTrol (4 Presets, 6 User Programs)	DynaTrol (4 Presets, 6 User Programs)	DynaTrol (4 Presets, 6 User Programs)	Orion Sitter/Timer, H-Med/Time Switch	Orion Sitter/Timer, H-Med/Time Switch	Orion Sitter/Timer, One-Touch, or DynaTrol	One-Touch (2 Presets, 4 User Programs)
Zone Control	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	One Infinite switch per zone	One H-Med-Low switch per zone	No	No
Thermocouple	8 ga Type K with protection tube. Type S optional. One per zone	8 ga Type K with protection tube. One per kiln	8 ga Type K with protection tube. Type S optional. One per zone	8 ga Type K with protection tube. Type S optional. One per zone	8 ga Type K with protection tube. Type S optional. One per zone	Type S with alumina protection tube.	8 ga Type K with protection tube. Type S optional. One per zone	8 ga Type K with protection tube. Type S optional. One per zone	8 ga Type K with protection tube. Type S optional. One per zone	8 ga Type K with protection tube. Type S optional. One per zone	None. Optional multi-zone pyrometer with thermocouples	None. Optional multi-zone pyrometer with thermocouples	Exposed 8 Ga Type K w/ Barflet, 6 Ga Type K w/ Protection tube w/ DynaTrol (Manual/None, Optional Pyrometer w/ Thermocouple)	Exposed 6 Ga Type K
Control Box	Piggy-Backed onto element box	Mounted to kiln	Floor standing control panel, sections plug into	Offset control panel, sections plug into	Piggy-Backed onto element box	Offset control panel, sections plug into (p69r-backed on the e235-JH)	Separate control box on left, DynaTrol in panel	Separate control box on left, DynaTrol in panel	Floor standing box, sections plug into, hand-held DynaTrol	Floor standing box, sections plug into, hand-held DynaTrol	Mounted to kiln	Piggy-Backed onto element box	Mounted to kiln	Mounted to kiln
Control Fuse	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	Yes (with automatic)	Yes
Branch Fusing of Circuit	No	No	No (up to JD230) Yes (JD256 and above)	No (up to JD230) Yes (JD256 and above)	Yes	No (JD18-JH & e235-JH) Yes (JD230-JH & JD287-JH)	Yes	Yes	Yes	Yes	No (up to JD230) Yes (JD230 and above)	No	No	No
Peepholes	One per section	One per section	One per section	One per section	One per section	One per section	Two or Three per kiln	Three per kiln	One per section	One per section	One per section	One per section	One	Two
Vent	Optional Vent-Sure	Optional Vent-Sure	Optional Vent-Sure	Optional Vent-Sure	Optional Vent-Sure	Optional Vent-Sure	Optional Vent-Sure	Optional Vent-Sure	Optional Vent-Sure	Optional Vent-Sure	Optional Vent-Sure	Optional Vent-Sure	No	Optional Vent-Sure
UL489 Listing	c-MET-us	Pending	c-MET-us	c-MET-us	Pending	no listing	MET-us	MET-us	c-MET-us	c-MET-us	c-MET-us	no listing	no listing	Pending
Warranty	3 year	5 year	3 year	3 year	3 year	3 year	3 year	3 year	3 year	3 year	3 year	3 year	3 year	3 year

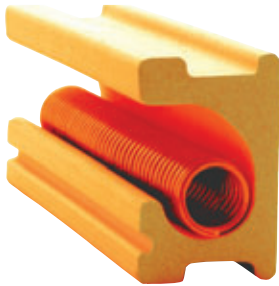
* All models use L&L Dyna-Glow hard ceramic element holders.
 * All models use Sectional Construction except Front-Loading Kilns.
 * Additional Door Shut-off Switch also included on all Front-Loading Kilns.
 NOTE: The Easy-Fire XT Models will not be listed until they are in production (summer 2010).

Features & Benefits of L&L Kilns

L&L Kilns are unique. It just starts with the easy maintainability of the kiln.

Dyna-Glow holders enhance uniformity

L&L kilns naturally fire evenly top to bottom. The whole Dyna-Glow ceramic element holder glows with radiant heat. (See hotkilns.com/zone-control.html for test data comparing an Easy-Fire e23T to a competitive model).



Dyna-Glow holders protect elements

Reliability, durability and element life are enhanced by Dyna-Glow element holders. The smooth, hard surface of the inside channel allows the elements to expand and contract freely - unrestricted by pins - preventing catastrophic element failure. Elements won't droop out of broken firebrick channels. Also the dense ceramic Dyna-Glow holders extend element life because they do not insulate the hot elements from the kiln interior.

Holder Prevents Rim Damage

Hard ceramic holders support the brick inside the element grooves, creating a strong structure and preventing damage to the rim.



Quick-change elements

With L&L's Dyna-Glow element holders in your kiln, changing elements takes minutes, not hours. You don't need to worry about breaking brick, installing clumsy pins, or crimping element connectors. Anyone can do it with a screwdriver and a wrench.



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.

Sectional construction makes repair work easy

All top-loading L&L kilns are sectional. Even the large 35 cubic foot standard DaVinci kiln is easy to move, set up, and repair.

Protected thermocouples last longer

Our standard thermocouple is shielded from corrosion by a ceramic protection tube. We use the finest "special limit" aerospace-grade heavy-gauge thermocouple wire. The protection tube also prevents black dust from the thermocouple end from discoloring your work.

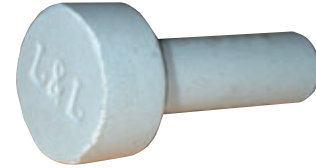


Maximum corrosion resistance

Stainless, aluminized, and galvanealed steel are used where needed. Hardware and screws are pure stainless steel.

Solid peephole plugs

Our solid straight plugs are strong. They do not slip out like tapered, fragile slip-cast plugs.



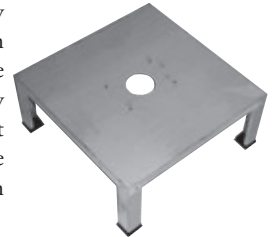
Lid brick is secured

Stainless "U" brackets secure the firebrick to the edge metal. The lid brick support does not rely on friction.



Full-support stands

L&L provides an engineered full-support 14 gauge (about 2 millimeters thick) aluminized steel stand. They are stronger than hollow frame stands and they provide important support in the center of the kiln bottom.



Proprietary Brick Coating

L&L's proprietary reflective brick coating protects the surface of the firebrick and keeps dusting down inside the kiln.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

Features & Benefits of L&L Kilns

Performance • Durability • Support • Serviceability • Safety

Our “Easy-Open, Easy-Load” lid is feather-lite yet opens wide for loading

The whole kiln supports the lid (not just one section). Our positive safety pin secures the lid so it can't accidentally fall while loading the kiln. No support bars get in the way of loading when the lid is fully tilted back.



normally vent two kilns with one vent using our optional vent doubler. Even if the vent duct leaks, fumes will get *pulled* into the duct, not *pushed* into your room. Our Vent-Sure motors keep on working because they are mounted away from the kiln heat and floor dust. Motor vibration is isolated from your work.

Easy-to-use 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. Various instructional videos are available at www.youtube.com/LLKilns.

Web & Phone support for kilns

One customer recently said: “I am truly impressed with your web site, it is more than informative and your products are well designed. The fact that all the information, including repair manuals, are listed, speaks well of your dedication to customer service.”

Safe, fast delivery

L&L's flow manufacturing system allows us to ship built-to-order kilns quickly. Typical delivery for an Easy-Fire, School-Master kiln or Liberty-Belle kiln is about two weeks. Parts normally ship within 24 hours (often the same day). Our advanced packaging guarantees your kiln arrives in great shape.

Responsive engineering since 1945

We pride ourselves on flexibility, technical depth, and the ability to listen to customers. L&L makes more models, kiln configurations, and options than anyone. L&L kilns and custom furnaces are in continuous use by NASA, Fermi Lab, Kodak, 3M, Corning, General Motors, General Electric as well as countless art schools, universities, schools, and pottery studios worldwide. More and more people recognize the unique value of L&L kilns.

Each Kiln Series has its own special features

Each series of L&L kilns has its own special features and even, in some cases like the JH Series, its own applications. Read through the specification sheets and our product selection guides and price list to see what fits your exact needs. And don't forget - we and our fine distribution network are here to help you make the right choice. Call us!

The DynaTrol is easy and powerful

Artists have four choices of Easy-Fire programs plus six of their own. The important Delay, Preheat, and Alarm options are organized into a One-Touch “Easy Options” section on the control face.



Zone control dynamically adjusts kiln

Zone control dynamically adjusts the kiln firing - maintaining evenness over time and with different loads. You can replace one element at a time without worrying about an imbalance.

Uniform even without zone control

Even on the School-Master kilns, where we do use graded elements, L&L kilns are so fundamentally uniform because of the element holders that the differential in the graded elements is much less than in competing kilns.

The One-Touch™ Control is designed for K-12 schools & hobbyists

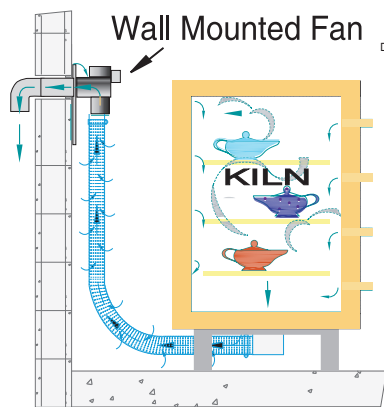


Proprietary One-Touch™ Intuitive Kiln Control is designed for busy school teachers - One touch and you are ready to

fire the bisque and glaze programs typically used in schools (also easy to adjust simple parameters like cone, delay, hold, heat-up and cool-down rates).

Vent-Sure is safe, strong and adaptable

Our powerful 148 CFM downdraft Vent-Sure adapts to long installation runs. In fact you can



Mercury-free

All L&L kilns use mercury-free relays.

On-off Switch

All L&L kilns include an industrial-grade on-off switch.

UL499 listing

Many L&L kilns, including Easy-Fire, Jupiter and DaVinci kilns, as well as our Vent-Sure vent, are c-MET-us listed to UL499 standards. Our Renaissance and Easy-Load Front-Loading kilns are MET-us listed to UL499 standards.

Support from experienced people

The staff at L&L has worked as a team for many years to ensure customer satisfaction. We support our distributors with extensive technical information so they can effectively support you.



Modern Automatic Zone Control Technology Allows Dynamic Adjustment of Electric Kilns to Ensure Uniform Firings.

Zone control in ceramic electric kilns has been around for quite a few years. However, only since zone control became automated within the past few years has it become more popular.

The typical ceramic top-loading electric kiln, based on designs that are now almost a half-century old, has always had a problem with temperature uniformity, especially from top to bottom. Typically the center or the top of the kiln fires the hottest, while the bottom fires colder. This differential can be up to a whole cone or more.

There are a number of techniques that are used to counteract this effect. One of the oldest, used in batch kilns from time immemorial, is to learn the firing characteristics of a kiln and load the kiln accordingly. You can load certain pieces in the cold spots that won't be as affected by the temperature differences or perhaps load heavier pieces in the center that would absorb more heat. This has the obvious disadvantage of constraining the artist or productive output of the kiln. For instance, it would be difficult to uniformly fire 100 coffee mugs with the same glaze in a conventional polygonal electric kiln.

Another technique used in many electric kilns today is to grade the power output of the elements so more power goes towards the top and the bottom of the kiln. This can produce a very even kiln if done right. The problem with this method, however, is that the power output of the elements changes with age and so the heating characteristics of the kiln may become less uniform. It can become a big problem if one element gets ruined by glaze, for instance, and has to be changed. You may have to change all the elements in the kiln. Also this method may not accommodate changes in the loading patterns. (Interestingly when we designed the School-Master kilns, which have graded elements for uniformity, we only had to vary the ohms slightly and then only on the top to achieve perfect results - which indicates that the basic kiln design is extremely uniform.)

Another method of evening out temperatures in an electric top-loading kiln is to use a downdraft vent. This system pulls a small amount of air down from the top of the kiln

and out the bottom. It counteracts the natural tendency of the heat to rise. Our tests have shown about a ½ cone uniformity improvement using this technology.

The other method of dealing with uniformity issues is by using zone control. This is a technology that L&L has used in its industrial division at great expense to achieve critical results for important processes like firing million-dollar loads of ceramic-based superconducting wire (We have built special kilns with up to 24 separate heating zones). In addition, L&L has had a long history of utilizing manual zone control on its top-loading electric pottery kilns. The use of manually controlled infinitely adjustable switches allows control of manual kilns zone by zone. This system, especially when used in conjunction with a multi-thermocouple pyro-meter system, allows potters to see which zone is getting hotter and make adjustments while firing. This, however, can be a tedious process.

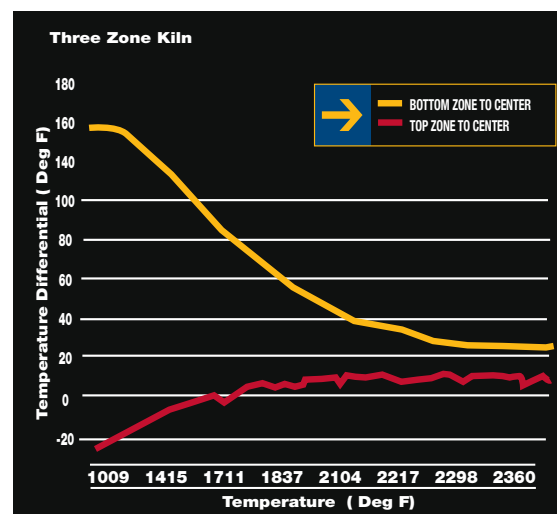
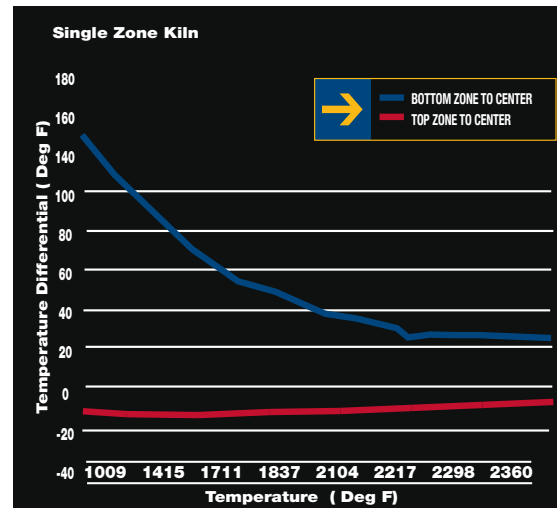
In the past few years newer electronic controls designed just for electric kilns have begun to incorporate true automatic multi-zone operation. These controls typically use three separate thermocouple inputs and three relay outputs for the power control. Each zone of the kiln is independently controlled on a separate control loop – sophistication typically only available in controllers costing much more money.

The great advantage of automatic zone control technology is that it allows dynamic adjustment of the kiln to accommodate changing elements and different loads. Typical uniformity is within ½ a cone or better. Another nice feature of zone control is that you can bias zones. For instance, if the top of the kiln fires cooler, you can subtract a few degrees from the top zone thermocouple reading to make that zone fire to

a higher temperature.

The downside of zone control is that it can slow down the kiln by turning off power to hotter zones. However, this technology has matured over the past few years. The new controls include the ability to turn zone control off during all but the last segment of the program to speed up firing. The key to good functioning now is to ensure that there is enough power in the kiln to compensate for the effects of the zone control.

Zone control is an excellent technical answer to the age-old difficulty of batch kiln uniformity problems.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

24-Key Control with 4 Preset Ceramic Programs and 6 User Defined Programs

FEATURES

Four “Easy-Fire” Preset Firing Profiles: Make it easy to fire ceramics with Slow Bisque, Fast Bisque, Slow Glaze and Fast Glaze. All have time proven profiles for the vast majority of ceramic firing. Just enter cone number and optional delay time, soaktime, candling time and alarm. A cool-down segment can be added to an Easy-Fire program.

Six User-Defined “Vary-Fire” Profiles: This allows you to have 6 separate repeatable stored programs with up to 8 segments (cooling or heating ramps, temperature setpoint and an optional hold time per segment). The DynaTrol allows you to soak at a low temperature for a long time (i.e. you can have an automatic drying period) and then automatically ramp up to your high fire at different rates. You can ramp slowly through critical periods or soak at end point temperatures for more consistent maturing of work. It also allows for a controlled cool-down to avoid heat shock. You can link two of these profiles to make one 16 segment program.

Delay Start by up to 99 hours, 99 minutes: Allows you to plan end of firing conveniently.

Candle (low temp soak) for up to 99 hours, 99 minutes: To dry ware.

Soak at Final Set Point for up to 99 hours, 99 minutes: Soaking can dramatically improve firing results.

Thermocouple Offset: Allows you to individually bias thermocouples to adjust for thermocouple drift or kiln uniformity adjustments.

Cone Offset: Allows you to match the “Easy-Fire” cone set points to your real firing experience.

Program Review: See the entire program before or while running it.

Segment Review: Lets you review the segment you are on. Also shows you what your current set point is during the program as it is changing.

Audible Temperature Alarm: Can alert you at any point in program.

Change of Program During Firing: Make adjustments as needed.

Last Temperature Reached: Shown at end of Easy-Fire program. Also the final rate of rise is stored for diagnostics.

Thermocouple Burnout Protection: Kiln will shut down automatically if all thermocouples burn out. Kiln continues to fire if one or two thermocouples burn out.

Digital Indication: See temperature in either degrees F or C. You can scroll through all three thermocouple readings to see what each zone is doing. 14 segment display for clear messages.

Electronic Control Matches Pyrometric Cone Performance: This feature adjusts the final temperature reached in an Easy-Fire profile based on the speed of the actual firing. It results in accurate automatic control of heat-work in ceramic firing.



Number of Zones is Programmable: You can easily change the control from a three zone to a two or even single zone control. This is useful on L&L's unique sectional kilns where you can remove or add sections.

Filtering & Noise Control: Advanced electrical noise filtering.

Diagnostics: A number of diagnostic and troubleshooting systems are built into the control.

Adjustable Cycle Time: Adjustable from 200 milliseconds to 60 seconds.

Selectable Thermocouple Type: Type K and Type S are selectable.

Monitor DynaTrol from a Computer: KISS Software package, 25 foot cable and RS485/232 converter that plugs into a Windows based computer. Monitor up to 10 kilns. Download profiles, chart/graph actual firing, monitor kiln temperatures all in Windows. See hotkilns.com/kiss.pdf for more information.



Four-Key Control that Redefines Simplicity • Perfect for Schools & Hobbyists

One-Touch™

Intuitive Kiln Control

The new One-Touch™ Intuitive Kiln Control was designed for busy school teachers, contemporary studios, and hobbyists. One touch and you are ready to fire the bisque and glaze programs. No programming is necessary, simple adjustments are easy, yet sophisticated programming is possible.



Simplicity without Compromise

1) One-Touch: Press one of two buttons marked **BISQUE** and **GLAZE**.

- You will then see either **bISC** or **GLA**
- Press **ENTER** and the kiln fires a slow Cone 04 Bisque or a 06 Glaze.
- You can add a Delay time to the program by pressing the **DOWN** arrow when you see **FIRE** and before you press **ENTER**
- Press the **REVIEW** button to review the program. You can do this when you see the **FIRE** display or while firing

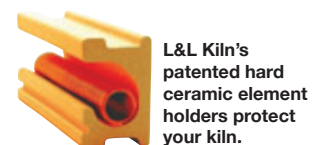
2) Simple: It is easy to change simple parameters to customize your program. When the user presses **BISQUE** or **GLAZE** and the holds the button for 5 seconds then a series of options will appear:

- **CndL** Candle at a low temperature to dry out the work – expressed in hours and minutes
- **COnE** Choose the cone that the program fires to
- **HLd** Add a soak time at the end of the firing
- **COOL** Cool the kiln – Fast, Medium or Slow for special effects or thick work
- **HEAT** Speed of firing – Fast, Medium or Slow
- **rStr** Restore the original default settings
- The **UP** and **DOWN** button will allow adjustment of these values
- The internal program ramps are transparent to the user

3) Advanced: Press **CUSTOM** and you have four regular Ramp/Soak programs open for custom programming. Each program has eight segments with a ramp, set point and hold for each segment.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

8-Sided Kilns • 2.6 to 3.7 Cubic Feet • Cone 10 • 2-1/2" & 3" Brick

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Loading: Lid position, when open, rests at an angle away from the kiln. Chains are used to secure the lid in place when open.

Hinge: The hinge is not spring-loaded.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two or three 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 2-1/2" or 3" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 2 elements per 9" high section.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that is piggy-backed to the element connection box. A layer of insulation and this separation helps keep the controls cool. The control panel and element box are hinged for easy access and maintenance. Control box can be easily removed for servicing. On/off switch and control fuse are included.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics.

Zone Control: Two or three zones with separate thermocouples.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Power Cord/Plug: 50 Amp NEMA 6-50 six foot cord included for one phase, 50 Amp NEMA 15-50 six foot cord included for three phase.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. In addition a web videos show how to assemble the kiln and how to fire it. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum or 1/4" pyrocoil metallic sheathed (see hotkilns.com/tc.pdf).

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)



The Easy-Fire kiln meets the needs of teachers, institutions, camps, hobbyists, potters and others who need an easy to operate, easy to set up, easy to maintain, easy to understand, and easy to buy kiln. It has L&L's robust and time-proven technology like ceramic element holders, industrial-grade element terminals, ceramic thermocouple protection tubes, heavy-duty elements, corrosion resistant materials, removable control panel and zone control with four "Easy-Fire" programs.

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

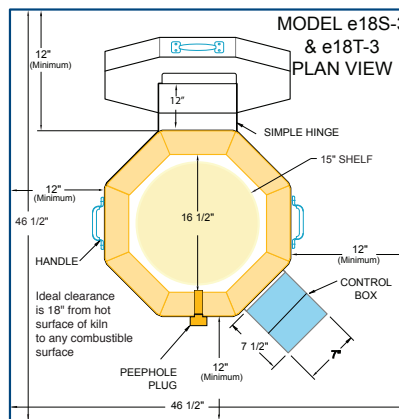
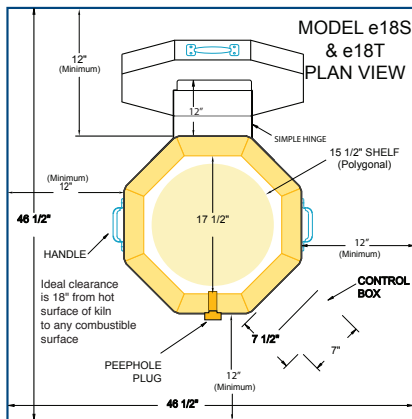
Model Number	Inside Dimensions	Cubic Feet	Brick Thick	Furniture Kit	Furn Kit Part No.	Outside Dimensions	Shipping Dimensions (w Kit)	Ship Wght Kiln Only	Ship Wght Kiln + Kit
e18S	17-1/2"D x 18"H	2.6	2-1/2"	(1) 15-1/2" full, (4) half	H-E-K18S/00	29" W x 31" H x 30" D	36" W x 55" H x 36" D	190 lbs	245 lbs
e18S-3	16-1/2"D x 18"H	2.5	3"	(1) 15" full, (4) half	H-E-K18S/30	29" W x 31" H x 30" D	36" W x 55" H x 36" D	220 lbs	255 lbs
e18T	17-1/2"D x 27"H	3.9	2-1/2"	(2) 15-1/2" full, (4) half	H-E-K18T/00	29" W x 40" H x 30" D	36" W x 60" H x 36" D	230 lbs	305 lbs
e18T-3	16-1/2"D x 27"H	3.7	3"	(2) 15" full, (4) half	H-E-K18T/30	29" W x 40" H x 30" D	36" W x 60" H x 36" D	255 lbs	325 lbs

Minimum Space Requirements: 46-1/2" wide by 46-1/2" deep.

Furniture / Accessory Kit: Shelves as listed above. Each kit also includes a post kit with six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts as well as heat-resistant gloves and 5 pounds of cone 10 kiln wash.

Moving and installation: This comes assembled but can be quickly disassembled and reassembled to move through any door or up stairs. It comes packed in a skidded carton with secure foam-in-place packaging.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.



Furniture kit for a e18S kiln.



Furniture kit for a e18T kiln.

ELECTRICAL SPECIFICATIONS

Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size
e18S-240	K-E-18SX/31	240/1P	5,737	23.9	10 ga	30 Amps
e18S-208	K-E-18SX/21	208/1P	4,980	23.9	10 ga	30 Amps
e18S-3-240	K-E-18S3/31	240/1P	5,737	23.9	10 ga	30 Amps
e18S-3-208	K-E-18S3/21	208/1P	4,980	23.9	10 ga	30 Amps
e18T-240	K-E-18TX/31	240/1P	8,400	35.0	6 ga	50 Amps
e18T-240-3P	K-E-18TX/32	240/3P	8,400	20.2	10 ga	30 Amps
e18T-208	K-E-18TX/21	208/1P	8,400	40.4	6 ga	60 Amps
e18T-208-3P	K-E-18TX/22	208/3P	8,400	23.3	10 ga	30 Amps
e18T-3-240	K-E-18T3/31	240/1P	8,400	35.0	6 ga	50 Amps
e18T-3-240-3P	K-E-18T3/32	240/3P	8,400	20.2	10 ga	30 Amps
e18T-3-208	K-E-18T3/21	208/1P	8,400	40.4	6 ga	60 Amps
e18T-3-208-3P	K-E-18T3/22	208/3P	8,400	23.3	10 ga	30 Amps

UL Listing: All models are c-MET-us listed to UL499 standard.

Power connection: A six foot cord with a 50 amp NEMA 6-50 for single phase units or a 15-50 plug for 3 phase units is included. (No neutral is necessary). May be direct wired.

10-Sided Kilns • 4.4 to 7.0 Cubic Feet • Cone 10 • 2-1/2" & 3" Brick

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that loading is easy.

Hinge: Spring loaded for easy opening while still allowing lid to be supported without supports that get in the way of loading.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two or three 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 2-1/2" or 3" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 2 elements per 9" high section.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that is piggy-backed to the element connection box. A layer of insulation and this separation helps keep the controls cool. The control panel and element box are hinged for easy access and maintenance. Control box can be easily removed for servicing. On/off switch and control fuse are included.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics.

Zone Control: Two or three zones with separate thermocouples.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Power Cord/Plug: 50 Amp NEMA 6-50 six foot cord included for one phase, 50 Amp NEMA 15-50 six foot cord included for three phase.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. In addition web videos show how to assemble the kiln and how to fire it. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum or 1/4" pyrocoil metallic sheathed (see hotkilns.com/tc.pdf).

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)



The Easy-Fire kiln meets the needs of teachers, institutions, camps, hobbyists, potters and others who need an easy to operate, easy to set up, easy to maintain, easy to understand, and easy to buy kiln. It has L&L's robust and time-proven technology like ceramic element holders, industrial-grade element terminals, ceramic thermocouple protection tubes, heavy-duty elements, corrosion resistant materials, "Easy-Open, Easy-Load" spring hinge, removable control panel and zone control with four "Easy-Fire" programs.

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

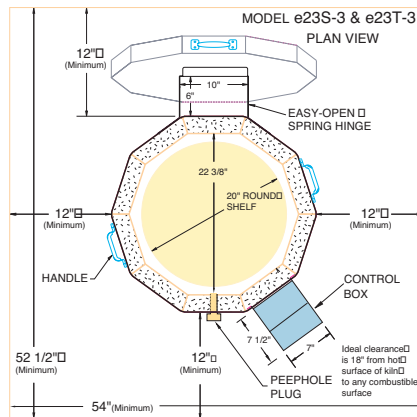
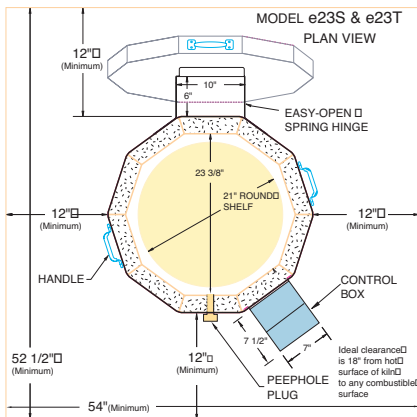
Model Number	Inside Dimensions	Cubic Feet	Brick Thick	Furniture Kit	Furn Kit Part No.	Outside Dimensions	Shipping Dimensions (w Kit)	Ship Wght Kiln Only	Ship Wght Kiln + Kit
e23S	23-3/8"D x 18"H	4.7	2-1/2"	(1) 21" full, (4) half	H-E-K23S/00	31" W x 32" H x 42" D	44" W x 55" H x 44" D	265 lbs	375 lbs
e23S-3	22-3/8"D x 18"H	4.4	3"	(1) 20" full, (4) half	H-E-K23S/30	31" W x 33" H x 42" D	44" W x 55" H x 44" D	305 lbs	400 lbs
e23T	23-3/8"D x 27"H	7.0	2-1/2"	(2) 21" full, (4) half	H-E-K23T/00	31" W x 41" H x 42" D	44" W x 60" H x 44" D	325 lbs	445 lbs
e23T-3	22-3/8"D x 27"H	6.7	3"	(2) 20" full, (4) half	H-E-K23T/30	31" W x 42" H x 42" D	44" W x 60" H x 44" D	360 lbs	480 lbs

Minimum Space Requirements: 54" wide by 52-1/2" deep.

Furniture / Accessory Kit: Shelves as listed above. Each kit also includes a post kit with six each 1/2", 1", 2", 4", 6" and 8" high 1-1/2" square cordierite posts as well as heat-resistant gloves and 5 pounds of cone 10 kiln wash.

Moving and installation: This comes assembled but can be quickly disassembled and reassembled to move through any door or up stairs. It comes packed in a skidded carton with secure foam-in-place packaging.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.



Furniture kit for a e23S kiln.



Furniture kit for a e23T kiln.

ELECTRICAL SPECIFICATIONS

Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size
e23S-240	K-E-23SX/31	240/1P	9,460	39.4	6 ga	50 Amps
e23S-208	K-E-23SX/21	208/1P	8,320	40.0	6 ga	50 Amps
e23S-3-240	K-E-23S3/31	240/1P	9,460	39.4	6 ga	50 Amps
e23S-3-208	K-E-23S3/21	208/1P	8,320	40.0	6 ga	50 Amps
e23T-240	K-E-23TX/31	240/1P	11,520	48.0	6 ga	60 Amps
e23T-240-3P	K-E-23TX/32	240/3P	11,520	27.7	8 ga	40 Amps
e23T-208	K-E-23TX/21	208/1P	9,980	48.0	6 ga	60 Amps
e23T-208-3P	K-E-23TX/22	208/3P	11,000	30.5	8 ga	40 Amps
e23T-3-240	K-E-23T3/31	240/1P	11,520	48.0	6 ga	60 Amps
e23T-3-240-3P	K-E-23T3/32	240/3P	11,520	27.7	8 ga	40 Amps
e23T-3-208	K-E-23T3/21	208/1P	9,980	48.0	6 ga	60 Amps
e23T-3-208-3P	K-E-23T3/22	208/3P	11,000	30.5	8 ga	40 Amps

UL Listing: All models are c-MET-us listed to UL499 standard.

Power connection: A six foot cord with a 50 amp NEMA 6-50 for single phase units or a 15-50 plug for 3 phase units is included. (No neutral is necessary). May be direct wired.

12-Sided Kilns • 6.8 or 10.2 Cubic Feet • Cone 10 • 3" Brick

FEATURES

- Temperature Rating:** See Specifications - depends on volts and phase
- Loading:** Lid position, when open, rests at an angle away from the kiln without lid supports so that loading is easy.
- Hinge:** Spring loaded for easy opening while still allowing lid to be supported without supports that get in the way of loading.
- Stand:** Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.
- Assembly:** Two or three 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.
- Construction:** Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.
- Insulation:** 3" K23 firebrick.
- Brick Coating:** Reflective coating protects brick and reduces dusting.
- Element Holders:** Hard ceramic element holders protect brick.
- Elements:** Heavy-duty. 2 elements per 9" high section.
- Element Connections:** Proprietary all-ceramic element connection block makes changing elements easy.
- Control Panel:** All controls and components are mounted in a separate control panel that is piggy-backed to the element connection box. A layer of insulation and this separation helps keep the controls cool. The control panel and element box are hinged for easy access and maintenance. Control box can be easily removed for servicing. On/off switch and control fuse are included.
- Control:** DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics.
- Zone Control:** Two or three zones with separate thermocouples.
- Peephole Plugs:** Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.
- Thermocouples:** Type K 8 gauge with ceramic protection tubes.
- Relays:** Mercury free relays.
- Power Cord/Plug:** 50 Amp NEMA 6-50 six foot cord included for one phase, 50 Amp NEMA 15-50 six foot cord included for three phase.
- Instructions:** Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. In addition a web videos show how to assemble the kiln and how to fire it. (<http://www.youtube.com/user/LLKilns#p/u>)
- Warranty:** Limited 3 year warranty. (See hotkilns.com/warranty.pdf).
- UL Listing:** c-MET-us listed to UL499 standards.



The Easy-Fire kiln meets the needs of teachers, institutions, camps, hobbyists, potters and others who need an easy to operate, easy to set up, easy to maintain, easy to understand, and easy to buy kiln. It has L&L's robust and time-proven technology like ceramic element holders, industrial-grade element terminals, ceramic thermocouple protection tubes, heavy-duty elements, corrosion resistant materials, "Easy-Open, Easy-Load" spring hinge, removable control panel and zone control with four "Easy-Fire" programs.

OPTIONS

- Furniture Kits:** See Dimension & Hearth Specifications.
- Thermocouple Options:** Type S platinum or 1/4" pyrocoil metallic sheathed (see hotkilns.com/tc.pdf).
- Vent System:** Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)



DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

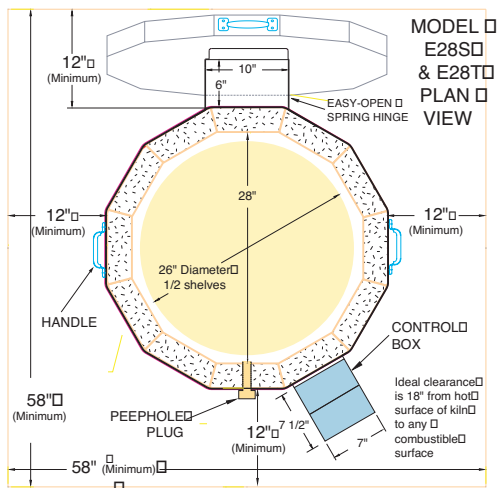
Model Number	Inside Dimensions	Cubic Feet	Brick Thick	Furniture Kit	Furn Kit Part No.	Outside Dimensions	Shipping Dimensions (w Kit)	Ship Wght Kiln Only	Ship Wght Kiln + Kit
e28S-3	28"D x 18"H	6.8	3"	(6) 25-1/2" half	H-E-K28S/00	37" W x 33" H x 48" D	48" W x 55" H x 44" D	370 lbs	495 lbs
e28T-3	28"D x 27"H	10.2	3"	(8) 25-1/2" half	H-E-K28T/00	37" W x 42" H x 48" D	48" W x 60" H x 44" D	460 lbs	610 lbs

Minimum Space Requirements: 58" wide by 58" deep.

Furniture / Accessory Kit: Shelves as listed above. Each kit also includes a post kit with six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts as well as heat-resistant gloves and 5 pounds of cone 10 kiln wash.

Moving and installation: This comes assembled but can be quickly disassembled and reassembled to move through any door or up stairs. It comes packed in a skidded carton with secure foam-in-place packaging.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.



Furniture kit for a e28S-3 kiln.



Furniture kit for a e28T-3 kiln.

ELECTRICAL SPECIFICATIONS

Model Number	Part Number	Volt/Phase	Watts	Max Cone	Amps	Wire Size	Fuse Size
e28S-3-240	K-E-28SX/31	240/1P	11,500	10	47.9	6 ga	60 Amps
e28S-3-208	K-E-28SX/21	208/1P	9,984	10	48.0	6 ga	60 Amps
e28T-3-240	K-E-28TX/31	240/1P	11,520	8	48.0	6 ga	60 Amps
e28T-3-240-3P	K-E-28TX/32	240/3P	16,620	10	40.0	6 ga	50 Amps
e28T-3-208	K-E-28TX/21	208/1P	9,980	5	48.0	6 ga	60 Amps
e28T-3-208-3P	K-E-28TX/22	208/3P	14,340	10	39.8	6 ga	50 Amps

UL Listing: All models are c-MET-us listed to UL499 standard.

Note about high fire: If you plan to fire regularly to higher temperatures like cone 6 and you only have single phase electric it is recommended to get a Jupiter JD2927-3. That model has higher watts and amperage.

Power connection: A six foot cord with a 50 amp NEMA 6-50 for single phase units or a 15-50 plug for 3 phase units is included. (No neutral is necessary). May be direct wired.

School-Master

K-12 School Kilns

One-Touch Intuitive Kiln Control • 6.7 to 10.2 Cubic Feet • Cone 6



FEATURES

Temperature Rating: All models rated for Cone 6 (2280°, 1248°C) except for the SM28T-3, 208V/1 phase which is rated for Cone 5.

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that the loading is easy and unobstructed.

Hinge: Spring loaded for “feather-lite” easy opening.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Three 9” high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 2-1/2” or 3” K23 firebrick depending on model.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Six heavy-duty graded elements.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a hinged control panel/element connection box. A layer of insulation and separation plate helps keep the controls cool. Control box can be easily removed for servicing. On/off switch and control fuse are included.

Control: One-Touch™ Intuitive Kiln Control easily fires the bisque and glaze programs typically used in schools. It is also easy to adjust simple parameters like cone, delay, hold, heat-up and cool-down rates. Also four custom ramp/hold programs with 8 segments each.

Relays: Mercury free relays.

Thermocouples: Type K 8 gauge with ceramic protection tubes prevent metallic dusting in kiln and result in longer thermocouple life.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1” diameter full-view non-tapered. One per section.

Power Cord/Plug: 50 Amp NEMA 6-50 six foot cord included for one phase; 50 Amp NEMA 15-50 six foot cord included for three phase.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list.

Warranty: Special Five-Year Limited Warranty. (See hotkilns.com/five-year-warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)



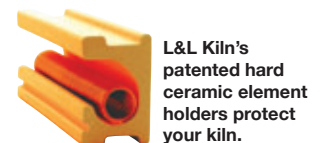
One-Touch™ Intuitive Kiln Control



The School-Master Kiln Series was designed in conjunction with the One-Touch™ Intuitive Kiln Control specifically with busy school teachers in mind. One touch and you are ready to fire the bisque and glaze programs most often used in K-12 schools. No programming is necessary, simple adjustments are easy (like cone level, heating and cooling speed, hold time and delay time), yet sophisticated programming is also possible. Together with features such as hard ceramic element holders, a protected thermocouple, and the most efficient spring hinge on the market (with full-access loading), the School-Master Kiln Series is the standard for the unique demands of the classroom.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

SCHOOL-MASTER K-12 SCHOOL KILNS

SCHOOL-MASTER K-12 SCHOOL KILNS

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Dimensions	Cubic Feet	Brick Thick	Furniture Kit	Furn. Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Wght Kiln Only	Ship Wght Kiln + Kit
SM23T	23-3/8"D x 27"H	7.0	2-1/2"	(2) 21" full, (4) 21" half	H-E-K23T/00	32" W x 40" H x 45" D	44" W x 61" H x 44" D	325 lbs	420 lbs
SM23T-3	22-3/8"D x 27"H	6.7	3"	(2) 20" full, (4) 20" half	H-E-K23T/30	32" W x 40" H x 45" D	44" W x 61" H x 44" D	360 lbs	455 lbs
SM28T-3	28"D x 27"H	10.2	3"	(8) 25-1/2" half	H-E-K28T/00	40" W x 41" H x 50" D	48" W x 61" H x 44" D	460 lbs	565 lbs

Minimum Space Requirements: Differs with each model. Refer to General Dimension Diagrams of the comparable Easy-Fire kilns.

Moving and installation: This comes assembled but can be quickly disassembled and reassembled to move through any door or up stairs. It comes packed in a skidded carton with secure foam-in-place packaging.

Furniture / Accessory Kit: Shelves are higher alumina shelves. Each post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: PDFs of all General Dimension drawings of the comparable e23T, e23T-3 and e28T-3 can be downloaded from each model page on our web site.



Furniture kit for a SM23T-3 kiln.



Furniture kit for a SM28T-3 kiln.

ELECTRICAL SPECIFICATIONS

Model Number	Part Number	Volt/Phase	Watts	Max Cone	Amps	Wire Size	Fuse Size
SM23T-240	K-S-2322/31	240/1P	11,520	6	48.0	6 ga	60 Amps
SM23T-240-3P	K-S-2322/32	240/3P	11,520	6	27.7	8 ga	40 Amps
SM23T-208	K-S-2322/21	208/1P	9,980	6	48.0	6 ga	60 Amps
SM23T-208-3P	K-S-2322/22	208/3P	11,000	6	30.5	8 ga	40 Amps
SM23T-3-240	K-S-2323/31	240/1P	11,520	6	48.0	6 ga	60 Amps
SM23T-3-240-3P	K-S-2323/32	240/3P	11,520	6	27.7	8 ga	40 Amps
SM23T-3-208	K-S-2323/21	208/1P	9,980	6	48.0	6 ga	60 Amps
SM23T-3-208-3P	K-S-2323/22	208/3P	11,000	6	30.5	8 ga	40 Amps
SM28T-3-240	K-S-2823/31	240/1P	11,520	6	48.0	6 ga	60 Amps
SM28T-3-240-3P	K-S-2823/32	240/3P	16,620	6	40.0	6 ga	60 Amps
SM28T-3-208	K-S-2823/21	208/1P	9,980	5	48.0	6 ga	60 Amps
SM28T-3-208-3P	K-S-2823/22	208/3P	14,340	6	39.8	6 ga	60 Amps

UL Listing: c-MET-us listed to UL499 standards.

Power connection: A six foot cord with a 50 amp NEMA 6-50 plug for single phase units or a 15-50 plug for 3 phase units is included. (No neutral is necessary). May be direct wired.

Jupiter (Auto)

JD1800 Series

17-1/2" Diameter Automatic Sectional Kilns • Cone 10 • 2-1/2" Brick

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that loading is easy. Chains are used to secure the lid in place when open.

Hinge: The hinge of the JD1800 series is not spring-loaded.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two to three 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 2-1/2" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 2 elements per 9" high section. Wired in series.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that mounts to the element connection boxes. Cords from sections plug into this panel. The control panel is hinged for easy access and maintenance. Control box can be easily removed for servicing. On/off switch and control fuse are included.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics.

Zone Control: Two or three zones with separate thermocouples.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

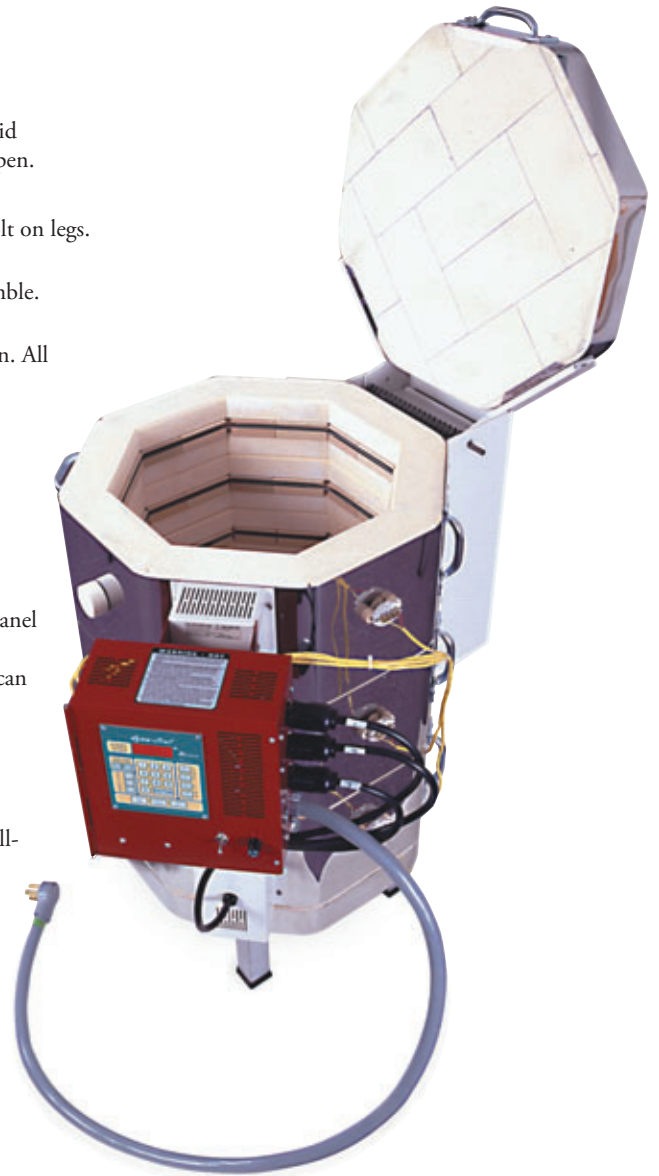
Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. Web videos show how to use the control. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.



A JD18X is shown with three sections.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum or 1/4" pyrocoil metallic sheathed (see hotkilns.com/tc.pdf).

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)

Orton Sitter/Timer Backup Control: For safety back-up or to use as final control device while still using the control for ramping.

120 Volt Control Power Option: Allows control circuit to be plugged into a protected UPS power supply.

Powered Bottom: Not available on the JD1800 series.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

JUPITER (AUTO) JD1800 Series Kilns

JUPITER (AUTO) JD1800 Series Kilns

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
JD18	18"	2.6	1 full, 4 half shelves	H-J-K180/00	28" W x 31" H x 39" D	36" W x 55" H x 36" D	200 lbs	245 lbs
JD18X	27"	3.9	2 full, 4 half shelves	H-J-K18X/00	28" W x 40" H x 39" D	36" W x 60" H x 36" D	245 lbs	295 lbs

Crosssection of Inside: 8 sided polygon, 17-1/2" in diameter.

Minimum Space Requirements: 48" wide x 48" deep.

Furniture/Shelves Kit: Shelves are 15-1/2" diameter full and half round cordierite shelves. Each post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all Dimensions and Weights: See hotkilns.com/jupiter-dimensions.pdf.



Furniture kit for a JD18



Furniture kit for a JD18X

ELECTRICAL SPECIFICATIONS

Standard Models						
Model Number	Part Number	Volt / Phase	Watts	Amps	Wire Size	Fuse Size
JD18-240	K-A-180H/31	240/1P	5,520	23.0	10 ga	30 a
JD18-240-3P	K-A-180H/32	240/3P	5,520	19.9	10 ga	30 a
JD18-208	K-A-180H/21	208/1P	5,520	26.5	10 ga	30 a
JD18-208-3P	K-A-180H/22	208/3P	5,520	23.0	10 ga	30 a
JD18X-240	K-A-18XH/31	240/1P	8,280	34.5	6 ga	50 a
JD18X-240-3P	K-A-18XH/32	240/3P	8,280	19.9	10 ga	30 a
JD18X-208	K-A-18XH/21	208/1P	8,280	39.8	6 ga	50 a
JD18X-208-3P	K-A-18XH/22	208/3P	8,280	23.0	10 ga	30 a

UL Listing: All the above models are c-MET-us listed.

Power Connection: Single phase models have a NEMA 6-50 plug. Three phase models have a NEMA 15-50 plug.

Jupiter (Auto)

JD1800-3 Series

16-1/2" Diameter Automatic Sectional Kilns • Cone 10 • 3" Brick

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that loading is easy. Chains are used to secure the lid in place when open.

Hinge: The hinge of the JD1800-3 series is not spring-loaded.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two to three 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 3" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 2 elements per 9" high section. Wired in series.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that mounts to the element connection boxes. Cords from sections plug into this panel. The control panel is hinged for easy access and maintenance. Control box can be easily removed for servicing. On/off switch and control fuse are included.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics.

Zone Control: Two or three zones with separate thermocouples.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. Web videos show how to use the control. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.



A JD18-3 is shown with two sections.



OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum or 1/4" pyrocoil metallic sheathed (see hotkilns.com/tc.pdf).

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)

Orton Sitter/Timer Backup Control: For safety back-up or to use as final control device while still using the control for ramping.

120 Volt Control Power Option: Allows control circuit to be plugged into a protected UPS power supply.

Powered Bottom: Not available on the JD1800-3 series.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
JD18-3	18"	2.5	1 full, 4 half shelves	H-J-K180/30	28" W x 32" H x 39" D	36" W x 55" H x 36" D	230 lbs	280 lbs
JD18X-3	27"	3.7	2 full, 4 half shelves	H-J-K18X/30	28" W x 41" H x 39" D	36" W x 60" H x 36" D	270 lbs	320 lbs

Crosssection of Inside: 8 sided polygon, 16-1/2" in diameter.

Minimum Space Requirements: 48" wide x 48" deep.

Furniture/Shelves Kit: Shelves are 15" diameter full and half round cordierite shelves. Each post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all Dimensions and Weights: See hotkilns.com/jupiter-dimensions.pdf.



Furniture kit for a JD18-3.



Furniture kit for a JD18X-3.

ELECTRICAL SPECIFICATIONS

Standard Models						
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size
JD18-3-240	K-A-180D/31	240/1P	5,520	23.0	10 ga	30 a
JD18-3-240-3P	K-A-180D/32	240/3P	5,520	19.9	10 ga	30 a
JD18-3-208	K-A-180D/21	208/1P	5,520	26.5	10 ga	30 a
JD18-3-208-3P	K-A-180D/22	208/3P	5,520	23.0	10 ga	30 a
JD18X-3-240	K-A-18XD/31	240/1P	8,280	34.5	6 ga	50 a
JD18X-3-240-3P	K-A-18XD/32	240/3P	8,280	19.9	10 ga	30 a
JD18X-3-208	K-A-18XD/21	208/1P	8,280	39.8	6 ga	50 a
JD18X-3-208-3P	K-A-18XD/22	208/3P	8,280	23.0	10 ga	30 a

UL Listing: All the above models are c-MET-us listed.

Power Connection: Single phase models have a NEMA 6-50 plug. Three phase models have a NEMA 15-50 plug.

Jupiter (Auto)

JD2300 Series

23" Diameter Automatic Sectional Kilns • Cone 10 • 2-1/2" Brick

FEATURES

Temperature Rating: All models are Cone 10, 2350°F, 1290°C, except the JD23V which is Cone 5).

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that loading is easy.

Hinge: Spring loaded for easy opening while still allowing lid to be supported without supports that get in the way of loading.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two to five 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 2-1/2" K23 firebrick

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 2 elements per 9" high section. Wired in series.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that mounts to the element connection boxes. Cords from sections plug into this panel. The control panel is hinged for easy access and maintenance. Control box can be easily removed for servicing. On/off switch and control fuse are included.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics.

Zone Control: Two zones with separate thermocouples on the JD23V. Three zones with separate thermocouples on all other models.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. Web videos show how to use the control. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.



A JD245V is shown with five sections.

JUPITER (AUTO) JD2300 Series Kilns

JUPITER (AUTO) JD2300 Series Kilns

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum or 1/4" pyrocoil metallic sheathed (see hotkilns.com/tc.pdf).

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)

Orton Sitter/Timer Backup Control: For safety back-up or to use as final control device while still using the control for ramping.

120 Volt Control Power Option: Allows control circuit to be plugged into a protected UPS power supply.

Extra Power: Extra wattage and amperage can be achieved through the use of Easy-Fire elements on Jupiter kilns at no extra charge.

Powered Bottom: Available on all JD2300 Series kilns. There is one extra element.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
JD23V	18"	4.7	1 full, 4 half shelves	H-J-K230/00	32" W x 31" H x 45" D	44" W x 55" H x 44" D	275 lbs	350 lbs
JD230V	27"	7.0	2 full, 4 half shelves	H-J-K23X/00	32" W x 40" H x 45" D	44" W x 60" H x 44" D	330 lbs	425 lbs
JD236V	36"	9.4	3 full, 4 half shelves	H-J-K236/00	32" W x 49" H x 45" D	44" W x 63" H x 44" D and 36" W x 20" H x 36" D	360 lbs	455 lbs
JD245V	45"	11.8	4 full, 4 half shelves	H-J-K245/00	32" W x 58" H x 45" D	44" W x 60" H x 44" D and 44" W x 38" H 44" D	445 lbs	560 lbs

Crosssection of Inside: 10 sided polygon, 22" in diameter.

Minimum Space Requirements: 54" wide x 52-1/2" deep.

Furniture/Shelves Kit: Shelves are 21" diameter full and half round cordierite shelves. Each post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all Dimensions and Weights: See hotkilns.com/jupiter-dimensions.pdf.



Furniture kit for a J23V.



Furniture kit for a J230V.



Furniture kit for a J236V.



Furniture kit for a J245V.

ELECTRICAL SPECIFICATIONS

Standard Models							Powered Bottom Models					
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size	Model Number	Part Number	Watts	Amps	Wire Size	Fuse Size
JD23V-240	K-A-230H/31	240/1P	7,036	29.3	8 ga	40 a	JD23V-PB-240	K-A-230P/31	8,800	36.6	6 ga	50 a
JD23V-240-3P	K-A-230H/32	240/3P	7,036	25.4	8 ga	40 a	JD23V-PB-240-3P	K-A-230P/32	8,800	25.4	8 ga	40 a
JD23V-208	K-A-230H/21	208/1P	6,096	29.3	8 ga	40 a	JD23V-PB-208	K-A-230P/21	7,620	36.6	6 ga	50 a
JD23V-208-3P	K-A-230H/22	208/3P	6,096	25.4	8 ga	40 a	JD23V-PB-208-3P	K-A-230P/22	7,620	25.4	8 ga	40 a
JD230V-240	K-A-231H/31	240/1P	10,554	44.0	6 ga	60 a	JD230V-PB-240	K-A-231P/31	12,300	51.3	4 ga	70 a
JD230V-240-3P	K-A-231H/32	240/3P	10,554	25.4	8 ga	40 a	JD230V-PB-240-3P	K-A-231P/32	12,300	31.7	6 ga	50 a
JD230V-208	K-A-231H/21	208/1P	9,144	44.0	6 ga	60 a	JD230V-PB-208	K-A-231P/21	10,700	51.3	4 ga	70 a
JD230V-208-3P	K-A-231H/22	208/3P	9,144	25.4	8 ga	40 a	JD230V-PB-208-3P	K-A-231P/22	10,700	31.7	6 ga	50 a
JD236V-240	K-A-236H/31	240/1P	14,072	58.6	3 ga	80 a	JD236V-PB-240	K-A-236P/31	15,800	65.9	2 ga	90 a
JD236V-240-3P	K-A-236H/32	240/3P	14,072	38.1	6 ga	50 a	JD236V-PB-240-3P	K-A-236P/32	15,800	44.4	6 ga	60 a
JD236V-208	K-A-236H/21	208/1P	12,192	58.6	3 ga	80 a	JD236V-PB-208	K-A-236P/21	13,700	65.9	2 ga	90 a
JD236V-208-3P	K-A-236H/22	208/3P	12,192	38.1	6 ga	50 a	JD236V-PB-208-3P	K-A-236P/22	13,700	44.4	6 ga	60 a
JD245V-240	K-A-245H/31	240/1P	17,590	73.3	1 ga	100 a	JD245V-PB-240	K-A-245P/31	19,400	80.6	1 ga	100 a
JD245V-240-3P	K-A-245H/32	240/3P	17,590	50.8	4 ga	70 a	JD245V-PB-240-3P	K-A-245P/32	19,400	50.8	4 ga	70 a
JD245V-208	K-A-245H/21	208/1P	15,240	73.3	1 ga	100 a	JD245V-PB-208	K-A-245P/21	16,800	80.6	1 ga	100 a
JD245V-208-3P	K-A-245H/22	208/3P	15,240	50.8	4 ga	70 a	JD245V-PB-208-3P	K-A-245P/22	16,800	50.8	4 ga	70 a

Extra Power: Extra wattage and amperage can be achieved through the use of Easy-Fire elements on Jupiter kilns at no extra charge.

Cone/Temperature Rating: Cone 10, 2350°F, 1290°C (except JD23V which is rated for Cone 5, 2165°F, 1185°C)

UL Listing: All the above models are c-MET-us listed.

Power Connection: Single phase models up to 48 amps have a NEMA 6-50 plug. Three phase models up to 48 amps have a NEMA 15-50 plug. All other models are direct wire to a fused disconnect switch.

Jupiter (Auto)

JD2300-3 Series

22" Diameter Automatic Sectional Kilns • Cone 10 • 3" Brick

FEATURES

Temperature Rating: All models are Cone 10, 2350°F, 1290°C, except the JD23V-3 which is Cone 5).

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that loading is easy.

Hinge: Spring loaded for easy opening while still allowing lid to be supported without supports that get in the way of loading.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two to five 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 3" K23 firebrick

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 2 elements per 9" high section. Wired in series.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that mounts to the element connection boxes. Cords from sections plug into this panel. The control panel is hinged for easy access and maintenance. Control box can be easily removed for servicing. On/off switch and control fuse are included.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics.

Zone Control: Two zones with separate thermocouples on the JD23V-3. Three zones with separate thermocouples on all other models.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. Web videos show how to use the control. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.



A JD230V-3 is shown with three sections.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum or 1/4" pyrocoil metallic sheathed (see hotkilns.com/tc.pdf).

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)

Orton Sitter/Timer Backup Control: For safety back-up or to use as final control device while still using the control for ramping.

120 Volt Control Power Option: Allows control circuit to be plugged into a protected UPS power supply.

Extra Power: Extra wattage and amperage can be achieved through the use of Easy-Fire elements on Jupiter kilns at no extra charge.

Powered Bottom: Available on all JD2300-3 Series kilns. There is one extra element.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
JD23V-3	18"	4.5	1 full, 4 half shelves	H-J-K230/30	32" W x 32" H x 45" D	44" W x 55" H x 44" D	315 lbs	340 lbs
JD230V-3	27"	6.7	2 full, 4 half shelves	H-J-K23X/30	32" W x 41" H x 45" D	44" W x 60" H x 44" D	385 lbs	470 lbs
JD236V-3	36"	8.9	3 full, 4 half shelves	H-J-K236/30	32" W x 50" H x 45" D	44" W x 63" H x 44" D and 36" W x 20" H x 36" D	460 lbs	545 lbs
JD245V-3	45"	11.1	4 full, 4 half shelves	H-J-K245/30	32" W x 59" H x 45" D	44" W x 60" H x 44" D and 44" W x 38" H x 44" D	540 lbs	650 lbs

Crosssection of Inside: 10 sided polygon, 22" in diameter.

Minimum Space Requirements: 54" wide x 52-1/2" deep.

Furniture/Shelves Kit: Shelves are 20" diameter full and half round cordierite shelves. Each post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all Dimensions and Weights: See hotkilns.com/jupiter-dimensions.pdf.



Furniture kit for a JD23V-3.



Furniture kit for a JD230V-3.



Furniture kit for a JD236V-3.



Furniture kit for a JD245V-3.

ELECTRICAL SPECIFICATIONS

Standard Models							Powered Bottom Models					
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size	Model Number	Part Number	Watts	Amps	Wire Size	Fuse Size
JD23V-3-240	K-A-230D/31	240/1P	7,036	29.3	8 ga	40 a	JD23V-3-PB-240	K-A-230B/31	8,800	36.6	6 ga	50 a
JD23V-3-240-3P	K-A-230D/32	240/3P	7,036	25.4	8 ga	40 a	JD23V-3-PB-240-3	K-A-230B/32	8,800	25.4	8 ga	40 a
JD23V-3-208	K-A-230D/21	208/1P	6,096	29.3	8 ga	40 a	JD23V-3-PB-208	K-A-230B/21	7,620	36.6	6 ga	50 a
JD23-3-208-3P	K-A-230D/22	208/3P	6,096	25.4	8 ga	40 a	JD23-3-PB-208-3	K-A-230B/22	7,620	25.4	8 ga	40 a
JD230V-3-240	K-A-231D/31	240/1P	10,554	44.0	6 ga	60 a	JD230V-3-PB-240	K-A-231B/31	12,300	51.3	4 ga	70 a
JD230V-3-240-3P	K-A-231D/32	240/3P	10,554	25.4	8 ga	40 a	JD230V-3-PB-240-3	K-A-231B/32	12,300	31.7	6 ga	50 a
JD230V-3-208	K-A-231D/21	208/1P	9,144	44.0	6 ga	60 a	JD230V-3-PB-208	K-A-231B/21	10,700	51.3	4 ga	70 a
JD230V-3-208-3P	K-A-231D/22	208/3P	9,144	25.4	8 ga	40 a	JD230V-3-PB-208-3	K-A-231B/22	10,700	31.7	6 ga	50 a
JD236V-3-240	K-A-236D/31	240/1P	14,072	58.6	3 ga	80 a	JD236V-3-PB-240	K-A-236B/31	15,800	65.9	2 ga	90 a
JD236V-3-240-3P	K-A-236D/32	240/3P	14,072	38.1	6 ga	50 a	JD236V-3-PB-240-3	K-A-236B/32	15,800	44.4	6 ga	60 a
JD236V-3-208	K-A-236D/21	208/1P	12,192	58.6	3 ga	80 a	JD236V-3-PB-208	K-A-236B/21	13,700	65.9	2 ga	90 a
JD236V-3-208-3P	K-A-236D/22	208/3P	12,192	38.1	6 ga	50 a	JD236V-3-PB-208-3	K-A-236B/22	13,700	44.4	6 ga	60 a
JD245V-3-240	K-A-245D/31	240/1P	17,590	73.3	1 ga	100 a	JD245V-3-PB-240	K-A-245B/31	19,400	80.6	1 ga	100 a
JD245V-3-240-3P	K-A-245D/32	240/3P	17,590	50.8	4 ga	70 a	JD245V-3-PB-240-3	K-A-245B/32	19,400	50.8	4 ga	70 a
JD245V-3-208	K-A-245D/21	208/1P	15,240	73.3	1 ga	100 a	JD245V-3-PB-208	K-A-245B/21	16,800	80.6	1 ga	100 a
JD245V-3-208-3P	K-A-245D/22	208/3P	15,240	50.8	4 ga	70 a	JD245V-3-PB-208-3	K-A-245B/22	16,800	50.8	4 ga	70 a

Extra Power: Extra wattage and amperage can be achieved through the use of Easy-Fire elements on Jupiter kilns at no extra charge.

Cone/Temperature Rating: Cone 10, 2350°F, 1290°C (except JD23V-3 which is rated for Cone 5, 2165°F, 1185°C)

UL Listing: All the above models are c-MET-us listed.

Power Connection: Single phase models up to 48 amps have a NEMA 6-50 plug. Three phase models up to 48 amps have a NEMA 15-50 plug. All other models are direct wire to a fused disconnect switch.

Jupiter (Auto)

JD2900 Series

29" Diameter Automatic Sectional Kilns • Cone 10 (most models) • 2-1/2" Brick

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C (except JD2918 which is Cone 5)

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that loading is easy.

Hinge: Spring loaded for easy opening while still allowing lid to be supported without supports that get in the way of loading.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two to five 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 2-1/2" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 3 elements per 9" high section.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that mounts to the element connection boxes. Cords from sections plug into this panel. The control panel is hinged for easy access and maintenance. Control box can be easily removed for servicing. On/off switch and control fuse are included.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics.

Zone Control: Two zones with separate thermocouples on the JD2918. Three zones with separate thermocouples on all other models.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. Web videos show how to use the control. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.



A JD2927 is shown with three sections.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum or 1/4" pyrocoil metallic sheathed (see hotkilns.com/tc.pdf).

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)

480 Volts: 480 volts/ 3 phase uses 277 volt elements in a "Wye" electrical configuration for a balanced circuit (see hotkilns.com/480.pdf). Available without a NEMA 1 Control Panel at a lower cost,

however this panel is required to maintain the c-MET-us listing.

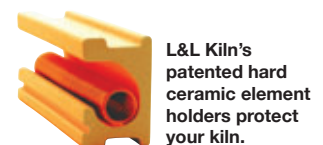
Orton Sitter/Timer Backup Control: For safety back-up or to use as final control device while still using the control for ramping.

120 Volt Control Power Option: Allows control circuit to be plugged into a protected UPS power supply.

Powered Bottom: Available on all JD2900 Series kilns. There are two extra elements.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

JUPITER (AUTO) JD2900 Series Kilns

JUPITER (AUTO) JD2900 Series Kilns

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
JD2918	18"	6.9	6 shelves	H-J-K290/00	40" W x 31" H x 50" D	48" W x 55" H x 44" D	335 lbs	440 lbs
JD2927	27"	10.3	8 shelves	H-J-K292/00	40" W x 40" H x 50" D	48" W x 60" H x 44" D	390 lbs	520 lbs
JD2936	36"	13.8	10 shelves	H-J-K293/00	40" W x 49" H x 50" D	48" W x 63" H x 44" D and 36" W x 20" H x 36" D	480 lbs	635 lbs
JD2945	45"	17.2	12 shelves	H-J-K294/00	40" W x 58" H x 50" D	48" W x 60" H x 44" D and 48" W x 38" H x 44" D	575 lbs	755 lbs

Crosssection of Inside: 12 sided polygon, 29" in diameter.

Minimum Space Requirements: 58" wide x 58" deep.

Furniture/Shelves Kit: Shelves are 25-1/2" diameter half round cordierite shelves. Each post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all Dimensions and Weights: See hotkilns.com/jupiter-dimensions.pdf.



Furniture kit for a JD2918



Furniture kit for a JD2927



Furniture kit for a JD2936



Furniture kit for a JD2945

ELECTRICAL SPECIFICATIONS

Standard Models							Powered Bottom Models					
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size	Model Number	Part Number	Watts	Amps	Wire Size	Fuse Size
JD2918-240	K-A-291H/31	240/1P	9,120	38.0	6 ga	50 a	JD2918-PB-240	K-A-291P/31	12,160	50.7	4 ga	70 a
JD2918-240-3P	K-A-291H/32	240/3P	9,120	32.9	6 ga	50 a	JD2918-PB-240-3P	K-A-291P/32	12,160	32.9	6 ga	50 a
JD2918-208	K-A-291H/21	208/1P	8,320	40.0	6 ga	50 a	JD2918-PB-208	K-A-291P/21	11,093	53.3	4 ga	70 a
JD2918-208-3P	K-A-291H/22	208/3P	8,320	34.6	6 ga	50 a	JD2918-PB-208-3P	K-A-291P/22	11,093	34.6	6 ga	50 a
JD2927-240	K-A-292H/31	240/1P	13,680	57.0	3 ga	80 a	JD2927-PB-240	K-A-292P/31	16,720	69.7	2 ga	90 a
JD2927-240-3P	K-A-292H/32	240/3P	13,680	32.9	6 ga	50 a	JD2927-PB-240-3P	K-A-292P/32	16,720	43.9	6 ga	60 a
JD2927-208	K-A-292H/21	208/1P	12,480	60.0	3 ga	80 a	JD2927-PB-208	K-A-292P/21	15,250	73.3	2 ga	90 a
JD2927-208-3P	K-A-292H/22	208/3P	12,480	34.6	6 ga	50 a	JD2927-PB-208-3P	K-A-292P/22	15,250	46.2	6 ga	60 a
JD2936-240	K-A-293H/31	240/1P	18,240	76.0	1 ga	100 a	JD2936-PB-240	K-A-293P/31	21,280	88.7	1/0	125 a
JD2936-240-3P	K-A-293H/32	240/3P	18,240	49.3	4 ga	70 a	JD2936-PB-240-3P	K-A-293P/32	21,280	60.3	3 ga	80 a
JD2936-208	K-A-293H/21	208/1P	16,640	80.0	1 ga	100 a	JD2936-PB-208	K-A-293P/21	19,413	93.3	1/0	125 a
JD2936-208-3P	K-A-293H/22	208/3P	16,640	52.0	4 ga	70 a	JD2936-PB-208-3P	K-A-293P/22	19,413	63.5	3 ga	80 a
JD2945-240	K-A-294H/31	240/1P	22,800	95.0	1/0	125 a	JD2945-PB-240	K-A-294P/31	25,840	107.7	2/0	150 a
JD2945-240-3P	K-A-294H/32	240/3P	22,800	65.8	2 ga	90 a	JD2945-PB-240-3P	K-A-294P/32	25,840	65.8	2 ga	90 a
JD2945-208	K-A-294H/21	208/1P	20,800	100.0	1/0	125 a	JD2945-PB-208	K-A-294P/21	23,573	113.3	2/0	150 a
JD2945-208-3P	K-A-294H/22	208/3P	20,800	69.3	2 ga	90 a	JD2945-PB-208-3P	K-A-294P/22	23,573	69.3	2 ga	90 a

Cone/Temperature Rating: Cone 10, 2350°F, 1290°C (except JD2918 which is rated for Cone 5, 2165°F, 1185°C)

UL Listing: All models are c-MET-us listed. 480 models are c-MET-us listed as long as a NEMA1 panel is used.

480 Volt Electrical Requirements: See hotkilns.com/480.html.

Power Connection: Direct hook up to fused disconnect switch.

Jupiter (Auto)

JD2900-3 Series

29" Diameter Automatic Sectional Kilns • Cone 10 (most models) • 3" Brick

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C (except JD2918-3 which is Cone 5).

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that loading is easy.

Hinge: Spring loaded for easy opening while still allowing lid to be supported without supports that get in the way of loading.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two to five 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 3" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 3 elements per 9" high section.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that mounts to the element connection boxes. Cords from sections plug into this panel. The control panel is hinged for easy access and maintenance. Control box can be easily removed for servicing. On/off switch and control fuse are included.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics.

Zone Control: Two zones with separate thermocouples on the JD2918-3. Three zones with separate thermocouples on all other models.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. Web videos show how to use the control. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum or 1/4" pyrocoil metallic sheathed (see hotkilns.com/tc.pdf).

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)

480 Volts: 480 volts/ 3 phase uses 277 volt elements in a "Wye" electrical configuration for a balanced circuit (see hotkilns.com/480.pdf). Available without a NEMA 1 Control Panel at a lower cost, however this panel is required to maintain the c-MET-us listing.

Orton Sitter/Timer Backup Control: For safety back-up or to use as

final control device while still using the control for ramping.

120 Volt Control Power Option: Allows control circuit to be plugged into a protected UPS power supply.

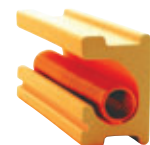
Powered Bottom: Available on all JD2900-3 Series kilns. There are two extra elements.



A JD2927-3 is shown with three sections.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
JD2918-3	18"	6.8	6 shelves	H-J-K290/00	40" W x 32" H x 50" D	48" W x 55" H x 44" D	380 lbs	480 lbs
JD2927-3	27"	10.2	8 shelves	H-J-K292/00	40" W x 41" H x 50" D	48" W x 60" H x 44" D	450 lbs	575 lbs
JD2936-3	36"	13.6	10 shelves	H-J-K293/00	40" W x 50" H x 50" D	48" W x 63" H x 44" D and 36" W x 20" H x 36" D	565 lbs	715 lbs
JD2945-3	45"	17	12 shelves	H-J-K294/00	40" W x 59" H x 50" D	48" W x 60" H x 44" D and 48" W x 38" H x 44" D	645 lbs	820 lbs

Crosssection of Inside: 12 sided polygon, 28" in diameter.

Minimum Space Requirements: 58" wide x 58" deep.

Furniture/Shelves Kit: Shelves are 25-1/2" diameter half round cordierite shelves. Each post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all Dimensions and Weights: See hotkilns.com/jupiter-dimensions.pdf.



Furniture kit for a JD2918-3.



Furniture kit for a JD2927-3.



Furniture kit for a JD2936-3.



Furniture kit for a JD2945-3.

ELECTRICAL SPECIFICATIONS

Standard Models							Powered Bottom Models					
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size	Model Number	Part Number	Watts	Amps	Wire Size	Fuse Size
JD2918-3-240	K-A-291D/31	240/1P	9,120	38.0	6 ga	50 a	JD2918-3-PB-240	K-A-291B/31	12,160	50.7	4 ga	70 a
JD2918-3-240-3P	K-A-291D/32	240/3P	9,120	32.9	6 ga	50 a	JD2918-3-PB-240-3P	K-A-291B/32	12,160	32.9	6 ga	50 a
JD2918-3-208	K-A-291D/21	208/1P	8,320	40.0	6 ga	50 a	JD2918-3-PB-208	K-A-291B/21	11,093	53.3	4 ga	70 a
JD2918-3-208-3P	K-A-291D/22	208/3P	8,320	34.6	6 ga	50 a	JD2918-3-PB-208-3P	K-A-291B/22	11,093	34.6	6 ga	50 a
JD2927-3-240	K-A-292D/31	240/1P	13,680	57.0	3 ga	80 a	JD2927-3-PB-240	K-A-292B/31	16,720	69.7	2 ga	90 a
JD2927-3-240-3P	K-A-292D/32	240/3P	13,680	32.9	6 ga	50 a	JD2927-3-PB-240-3P	K-A-292B/32	16,720	43.9	6 ga	60 a
JD2927-3-208	K-A-292D/21	208/1P	12,480	60.0	3 ga	80 a	JD2927-3-PB-208	K-A-292B/21	15,250	73.3	2 ga	90 a
JD2927-3-208-3P	K-A-292D/22	208/3P	12,480	34.6	6 ga	50 a	JD2927-3-PB-208-3P	K-A-292B/22	15,250	46.2	6 ga	60 a
JD2936-3-240	K-A-293D/31	240/1P	18,240	76.0	1 ga	100 a	JD2936-3-PB-240	K-A-293B/31	21,280	88.7	1/0	125 a
JD2936-3-240-3P	K-A-293D/32	240/3P	18,240	49.3	4 ga	70 a	JD2936-3-PB-240-3P	K-A-293B/32	21,280	60.3	3 ga	80 a
JD2936-3-208	K-A-293D/21	208/1P	16,640	80.0	1 ga	100 a	JD2936-3-PB-208	K-A-293B/21	19,413	93.3	1/0	125 a
JD2936-3-208-3P	K-A-293D/22	208/3P	16,640	52.0	4 ga	70 a	JD2936-3-PB-208-3P	K-A-293B/22	19,413	63.5	3 ga	80 a
JD2945-3-240	K-A-294D/31	240/1P	22,800	95.0	1/0	125 a	JD2945-3-PB-240	K-A-294B/31	25,840	107.7	2/0	150 a
JD2945-3-240-3P	K-A-294D/32	240/3P	22,800	65.8	2 ga	90 a	JD2945-3-PB-240-3P	K-A-294B/32	25,840	65.8	2 ga	90 a
JD2945-3-208	K-A-294D/21	208/1P	20,800	100.0	1/0	125 a	JD2945-3-PB-208	K-A-294B/21	23,573	113.3	2/0	150 a
JD2945-3-208-3P	K-A-294D/22	208/3P	20,800	69.3	2 ga	90 a	JD2945-3-PB-208-3P	K-A-294B/22	23,573	69.3	2 ga	90 a

Cone/Temperature Rating: Cone 10, 2350°F, 1290°C (except JD2918-3 which is rated for Cone 5, 2165°F, 1185°C)

UL Listing: All models are c-MET-us listed. 480 models are c-MET-us listed as long as a NEMA1 panel is used.

480 Volt Electrical Requirements: See hotkilns.com/480.html.

Power Connection: Direct hook up to fused disconnect switch.

eQuad-Pro Series

Production Kilns

10.2 & 13.6 Cubic Feet Production Kilns • Cone 10 • Quad-Element Design

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that the loading is easy and unobstructed.

Hinge: Spring loaded for “feather-lite” easy opening.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Three to four 9” high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 3” K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Quad Element Design: Super heavy-duty, thick elements with 4 wraps per 9” high section.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that is piggy-backed to the element connection box. This separation helps keep the controls cool. The control panel and element box are hinged for easy access and maintenance. Control box can be easily removed for servicing. On/off switch and control fuse are included.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics. Two programs can be combined for one 16 segment program.

Zone Control: Three zones with three separate thermocouples.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1” diameter full view non-tapered. One per section.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. In addition web videos show how to assemble the kiln and how to fire it. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: Pending

OPTIONS

KISS Software: This is to monitor and control the firing from your computer. It is particularly good for maintaining an accurate log of your firing cycles.

Thermocouple Options: Type S platinum or 1/4” pyrocl metallic sheathed (see hotkilns.com/tc.pdf).

Furniture Kits: See Dimension & Hearth Specifications.

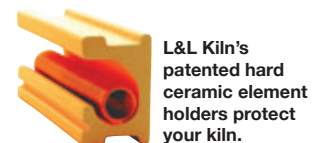
Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)



The eQuad-Pro Series Kilns were designed specifically to handle the rigorous demands of production firing. Utilizing a combination of L&L's time proven technology, such as element holders, ceramic terminal boards, and thermocouple protection tubes, along with the new advancements of the super heavy-duty quad element holder and element design, this kiln series provides what is sure to be the preferred “workhorse” for any production studio.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



Bulletin No:Spec-eQuad-Pro-4-10

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Dimensions	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
eQ2827-3	28" Diam x 27" H	10.2	(8) 25-1/2" half shelves	H-J-K292/00	40" W x 41" H x 50" D	48" W x 61" H x 48" D	480 lbs	585 lbs
eQ2836-3	28" Diam x 36" H	13.6	(10) 25-1/2" half shelves	H-J-K293/00	40" W x 50" H x 50" D	48" W x 72" H x 48" D	595 lbs	725 lbs

Note: Vent and Furniture kit add 15" height to shipping dimensions of the eQ2827-3 and must be placed on a separate skid for the eQ2836-3.

Minimum Space Requirements: Add 12" to outside dimensions.

Furniture/Shelves Kit: Shelves are higher alumina shelves. Each post kit includes six each 1/2", 1", 2", 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

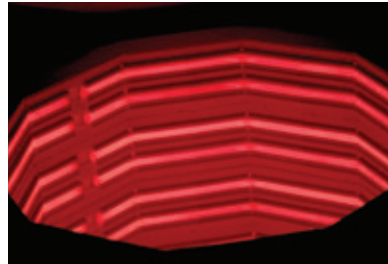
General Dimension Drawings: Pending.



Furniture kit for a eQ2827-3 kiln.



Furniture kit for a eQ2836-3 kiln.



Pictures of the Quad Element System

ELECTRICAL SPECIFICATIONS

Standard Models								
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size	Power Connection	Number of Zones
eQ2827-3-240	K-Q-2827/31	240/1P	14,950	62.3	3 ga	80 amps	Direct to Fused Disconnect	3
eQ2827-3-240-3P	K-Q-2827/32	240/3P	14,950	36.0	6 ga	50 amps	Direct to Fused Disconnect	3
eQ2827-3-208	K-Q-2827/21	208/1P	14,950	71.9	2 ga	90 amps	Direct to Fused Disconnect	3
eQ2827-3-208-3P	K-Q-2827/22	208/3P	14,950	41.5	6 ga	60 amps	Direct to Fused Disconnect	3
eQ2836-3-240	K-Q-2836/31	240/1P	19,000	79.2	1 ga	100 amps	Direct to Fused Disconnect	3
eQ2836-3-240-3P	K-Q-2836/32	240/3P	19,000	51.5	4 ga	70 amps	Direct to Fused Disconnect	3
eQ2836-3-208	K-Q-2836/21	208/1P	19,000	91.3	1/0	125 amps	Direct to Fused Disconnect	3
eQ2836-3-X-208	K-Q-283X/21	208/1P	16,640	80.0	1 ga	100 amps	Direct to Fused Disconnect	3
eQ2836-3-208-3P	K-Q-2836/22	208/3P	19,000	59.4	3 ga	80 amps	Direct to Fused Disconnect	3

UL Listing: Pending.

Power Connection: Direct hook up to a fused disconnect switch.

4 basic sizes (plus custom models) • Designed for Crystalline Glaze

FEATURES

Temperature Rating: Cone 12, 2400°F, 1315°C

Power Loading: These kilns come with approximately 25% more power than a regular kiln of similar size.

Loading: Lid position, when open, rests at an angle away from the kiln.

Hinge: Spring loaded for easy opening while still allowing lid to be supported without supports that get in the way of loading. (The JD18-JH lid is not spring loaded. It is instead supported by chains.)

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two or three 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 2-1/2" K25 firebrick. on side and bottom, 3" K25 on top

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Quad Element Design: Super Heavy-duty, thick elements with 4 wraps per 9" high section.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel. Mounting and type of panel vary with model number. The control panel and element box are hinged for easy access and maintenance. Control box can be easily removed for servicing. On/off switch and control fuse are included.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics. Two programs can be combined for one 16 segment program.

Zone Control: Two or three zone (one zone per kiln section) Each zone has a separate thermocouple.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Thermocouples: Type S with alumina protection tubes.

Relays: Mercury free relays.

Power Cord/Plug: See specifications.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. Web videos show how to use the control. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).



The JH kilns were designed specifically for firing crystalline glaze.

They feature special 2500°F firebrick for extra high cone 12 firing, extra power for fast heat up, super heavy-duty elements to hold up to the special rigors of crystalline firing, minimal insulation to allow for fast cool down, and type S thermocouples for long life.

OPTIONS

KISS Software: This is to monitor and control the firing from your computer. It is particularly good for maintaining an accurate log of your firing cycles. (See hotkilns.com/kiss)

Furniture Kits: See Dimension & Hearth Specifications.

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

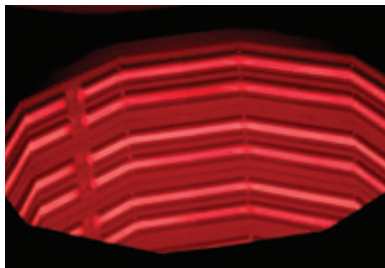
DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Dimensions	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
JD18-JH	17-1/2" Diam x 18" H	2.6	(1) 15-1/2" full, (4) half shelves	H-J-K180/00	28" W x 31-1/2" H x 39" D	36" W x 55" H x 36" D	205 lbs	250 lbs
e23S-JH	23-3/8" Diam x 18" H	4.7	(1) 21" full, (4) half shelves	H-J-K230/00	32" W x 31-1/2" H x 45" D	44" W x 55" H x 44" D	280 lbs	365 lbs
JD230-JH	23-3/8" Diam x 27" H	7.0	(2) 21" full, (4) half shelves	H-J-K23X/00	32" W x 40-1/2" H x 45" D	44" W x 60" H x 44" D	340 lbs	435 lbs
JD2927-JH	29" Diam x 27" H	10.3	(8) 25-1/2" half shelves	H-J-K292/00	40" W x 40-1/2" H x 50" D	48" W x 60" H x 44" D	595 lbs	715 lbs

Minimum Space Requirements: Refer to General Dimension Drawings for the corresponding Jupiter Automatic models

Furniture/Shelves Kit: Shelves are round high alumina shelves. Each post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: PDFs of all General Dimension drawings can be downloaded from each model page on our web site. The General Dimension will be similar to the base model (i.e. a JD18-JH will use the General Dimension Drawing of a JD18 with 2-1/2" brick). The only difference is that the 3" bottom will add an extra 1/2" to the height.



Pictures of the Quad Element System

ELECTRICAL SPECIFICATIONS

Standard Models								
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size	Power Connection	Number of Zones
JD18-JH-240	K-A-180J/31	240/1P	8,800	36.7	6 ga	60 amps	Cord with NEMA 6-50 Plug	2
JD18-JH-208	K-A-180J/21	208/1P	8,800	42.3	6 ga	60 amps	Cord with NEMA 6-50 Plug	2
e23S-JH-240	K-E-23SJ/31	240/1P	10,500	47.9	6 ga	60 amps	Cord with NEMA 6-50 Plug	2
e23S-JH-208	K-E-23SJ/21	208/1P	9,984	48.0	6 ga	60 amps	Cord with NEMA 6-50 Plug	2
JD230-JH-240	K-A-231J/31	240/1P	13,680	57.0	3 ga	80 amps	Direct to Fused Disconnect	3
JD230-JH-240-3P	K-A-231J/32	240/3P	13,680	32.9	6 ga	50 amps	Cord with NEMA 15-50 Plug	3
JD230-JH-208	K-A-231J/21	208/1P	12,480	60.0	3 ga	80 amps	Direct to Fused Disconnect	3
JD230-JH-208-3P	K-A-231J/22	208/3P	12,480	34.7	6 ga	50 amps	Cord with NEMA 15-50 Plug	3
JD2927-JH-240	K-A-292J/31	240/1P	18,039	75.2	1 ga	100 amps	Direct to Fused Disconnect	3
JD2927-JH-240-3P	K-A-292J/32	240/3P	18,039	43.5	6 ga	60 amps	Cord with NEMA 15-50 Plug	3
JD2927-JH-208	K-A-292J/21	208/1P	18,039	86.7	1/0 ga	125 amps	Direct to Fused Disconnect	3
JD2927-JH-208-3P	K-A-292J/22	208/3P	18,039	50.1	4 ga	70 amps	Direct to Fused Disconnect	3

UL Listing: Not listed to UL499 standards.

Hercules Medium-Sized Front-Loading Kilns

Mid-Sized Front-Loading Studio Kilns • Cone 10 • 3" Brick plus 2" Mineral Wool

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Loading: Front-loading.

Construction: Solid welded heavy gauge (1/8") thick steel case with welded stand. Feet include anchor points and leveling pads.

Case Finish: Powder coated attractive hammertone blue provides superior corrosion resistance.

Door: Heavy-duty door hinges to the left (special option allows it to be hinged on the right). Door opens all the way so that the door opening is completely unobstructed.

Door Plug & Gasket: Brick door has an inset stepped brick plug and fiberglass tadpole gasket around door for tightness of seal.

Insulation: 3" K23 firebrick with 2" mineral wool back up.

Brick Coating: Proprietary brick coating for less dusting and longer brick life.

Arched Roof for Strength: The arch is made of 4-1/2" of extra-strong 2500°F K25 arch brick.

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

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. Elements evenly divided into 2 or 3 zones. Elements are located in the door for even heating of the entire chamber.

Control Panel: Separate panel is mounted on the right side. 50 amp mechanical contactors with control relays. Branch fusing included. The control panel is hinged for easy access. An on/off switch and control fuse are included. Direct electrical hook-up to terminal block.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, Pre-Heat, Delay, Program & Segment Review, and Diagnostics.

Zone Control: Two or Three zone control for even heating is included.

Door Shut Off Switch is Standard: Shuts power off when door is opened.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: MET-us listed to UL499 standard.



The Hercules is the potter's dream come true. When you compare the many built-in durability and performance features to the competition you will appreciate its true value. And all of this extra value doesn't cost that much.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum thermocouples (see hotkilns.com/tcs.pdf) or 1/4" diameter pyrocoil metallic sheathed thermocouples (see hotkilns.com/tc-metallic.pdf).

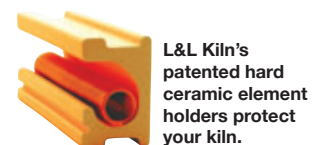
Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)

480 Volts: 480 volts/ 3 phase. Available without a NEMA 1 Control Panel at a lower cost, however this panel is required to maintain the c-MET-us listing.

Hinge on Right



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



Bulletin No: Spec-Hercules-1-11

Hercules Medium-Sized Front-Loading Kilns

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Dimensions	Cubic Feet	Hearth Dimensions	Furniture Kit	Outside Dimensions	Shipping Dimensions	Ship Weight Kiln (lbs)
EL2424-H	25" W x 26" D x 24" H	8.0	22" x 22"	(4) 11" x 22" shelves, 1 post kit	47" W x 43" D x 63" H	60" W x 57" D x 69" H	1075 lbs
EL2427-H	25" W x 26" D x 27" H	9.0	22" x 22"	(6) 11" x 22" shelves, 1 post kit	47" W x 43" D x 66" H	60" W x 57" D x 72" H	1200 lbs

Hearth Height: Approximately 30"

Moving and installation: These kilns will go through a standard 34-1/2" door that is at least 74" 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 or back.

Furniture/Shelves Kit: Furniture kit includes the shelves mentioned above. One post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. Furniture kit includes, heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See hotkilns.com/hercules.html



Furniture kit for a EL2424-H.

FEATURE DETAILS



Door Gasket for Superior Door Seal



Safety Door Switch



Door Elements for Even Heating



4-1/2" K25 Full Arch for Strength



Welded Stand can be removed



Thick Powder-Coated Steel Case



DynaTrol with Dynamic Zone Control



Thick 8 Gauge TC with Protection Tube

ELECTRICAL SPECIFICATIONS

Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size
EL2424-H-240	K-B2424/31	240/1P	15,000	63.0	3 ga	80 Amps
EL2424-H-240-3P	K-B2424/32	240/3P	15,000	55.0	4 ga	70 Amps
EL2424-H-208	K-B2424/21	208/1P	15,000	73.0	2 ga	90 Amps
EL2424-H-208-3P	K-B2424/22	208/3P	15,000	63.0	3 ga	80 Amps
EL2424-H-480-3P	K-B2424/62	480/3P	15,000	28.0	8 ga	40 Amps
EL2427-H-240	K-B2427/31	240/1P	16,500	68.8	2 ga	90 Amps
EL2427-H-240-3P	K-B2427/32	240/3P	16,500	39.6	6 ga	50 Amps
EL2427-H-208	K-B2427/21	208/1P	16,500	79.3	1 ga	100 Amps
EL2427-H-208-3P	K-B2427/22	208/3P	16,500	45.7	6 ga	60 Amps
EL2427-H-480-3P	K-B2427/62	480/3P	16,500	19.8	10 ga	25 Amps

UL Listing: All models are MET-us listed. 480 models are MET-us listed as long as a NEMA1 panel is used.

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

Easy-Load

Large Front-Loading Kilns

Large Front-Loading Studio Kilns • Cone 10 • 3" Brick plus 2" Mineral Wool

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Loading: Front-loading.

Construction: Solid welded heavy gauge (1/8") thick steel case with integrated welded stand. Feet include anchor points and leveling bolts.

Case Finish: Powder coated attractive hammertone blue provides superior corrosion resistance.

Door: Heavy-duty door hinges to the left (special option allows it to be hinged on the right). Door opens all the way so that the door opening is completely unobstructed.

Door Plug & Gasket: Brick door has an inset stepped brick plug and fiberglass tadpole gasket around door for tightness of seal.

Insulation: 3" K23 brick with 2" mineral wool back up.

Brick Coating: Reflective coating protects brick and reduces dusting.

Arched Roof for Strength: The arch is made of 4-1/2" of extra-strong 2500°F K25 arch brick.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. Three per kiln.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. Elements evenly divided into 3 zones. Elements on the door for even heating.

Control Panel: Separate panel is mounted on the right side. 50 amp mechanical contactors with control relays. Branch fusing included. The control panel is hinged for easy access. An on/off switch and control fuse are included. Direct electrical hook-up to terminal block.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, Pre-Heat, Delay, Program & Segment Review, and Diagnostics.

Zone Control: Three zone control for even heating is included.

Door Shut Off Switch is Standard: Shuts power off when door is opened.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: MET-us listed to UL499 standard.



Model EL3048



Model EL2448

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

KISS Software: Monitor and control with a computer. (See hotkilns.com/kiss)

Thermocouple Options: Type S platinum thermocouples (see hotkilns.com/tcs.pdf) or 1/4" diameter pyrocoil metallic sheathed thermocouples (see hotkilns.com/tc-metallic.pdf).

480 Volts: 480 volts/ 3 phase. Available without a NEMA 1 Control Panel at a lower cost, however this panel is required to maintain the c-MET-us listing.

Orton Sitter/Timer Backup Control: For safety back-up or to use as final control device while still using the control for ramping.

High Limit Control: Digital high limit control turns off power with separate backup safety contactors.

SSR Power Control: longer element life and more even and silent control

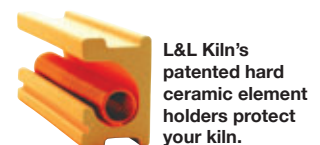
120 Volt Control Power Option: Allows control circuit to be plugged into a protected UPS power supply.

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)

Hinge on Right: special order increases production time.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kilns' patented hard ceramic element holders protect your kiln.

EASY-LOAD Large Front-Loading Kilns

EASY-LOAD Large Front-Loading Kilns

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Dimensions	Cubic Feet	Hearth Dimensions	Furniture Kit	Outside Dimensions	Shipping Dimensions	Ship Weight Kiln (lbs)
EL2436	25" W x 26" D x 36" H	12.0	22" x 22"	(8) 11" x 22" shelves, 2 post kits	47" W x 43" D x 74" H	60" W x 57" D x 80" H	1350 lbs
EL2448	25" W x 26" D x 48" H	16.0	22" x 22"	(10) 11" x 22" shelves, 2 post kits	47" W x 43" D x 74" H	60" W x 57" D x 80" H	1500 lbs
EL2848	31" W x 26" D x 48" H	20.0	28" x 22"	(12) 14" x 24" shelves, 2 post kits	53" W x 43" D x 75" H	66" W x 57" D x 82" H	1750 lbs
EL3048	31" W x 32" D x 48" H	25.0	28" x 28"	(12) 14" x 28" shelves, 2 post kits	53" W x 50" D x 75" H	66" W x 64" D x 82" H	2000 lbs

Hearth Height: Approximately 30" for EL2436 and 18" for all other models

Moving and installation: The EL2436 will go through a standard 34-1/2" door that is at least 76" high. The EL2448 and EL2848 will go through a door that is 34-1/2" wide by 86" high. The EL3048 will go through a door that is 40-1/2" wide by 86" 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 or back.

Furniture/Shelves Kit: Furniture kit includes the shelves mentioned above. One post kit includes six each 1/2", 1", 2", 4", 6" and 8" high 1-1/2" square cordierite posts. Furniture kit includes dark viewing glasses, heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com/easy-load.html to download PDF drawings.



Furniture kit for a EL3048.

ELECTRICAL SPECIFICATIONS

Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size
EL2436-240	K-B-2436/31	240/1P	19,000	80.0	1 ga	100 Amps
EL2436-240-3P	K-B-2436/32	240/3P	19,000	46.0	6 ga	60 Amps
EL2436-208	K-B-2436/21	208/1P	19,000	92.0	1/0	125 Amps
EL2436-208-3P	K-B-2436/22	208/3P	19,000	53.0	4 ga	70 Amps
EL2436-480-3P	K-B-2436/62	480/3P	19,000	24.0	10 ga	30 Amps
EL2448-240	K-B-2448/31	240/1P	24,200	101.0	1/0	125 Amps
EL2448-240-3P	K-B-2448/32	240/3P	24,200	59.0	3 ga	80 Amps
EL2448-208	K-B-2448/21	208/1P	24,200	117.0	2/0	150 Amps
EL2448-208-3P	K-B-2448/22	208/3P	24,200	68.0	2 ga	90 Amps
EL2448-480-3P	K-B-2448/62	480/3P	24,200	30.0	8 ga	40 Amps
EL2848-240	K-B-2848/31	240/1P	27,000	113.0	2/0	150 Amps
EL2848-240-3P	K-B-2848/32	240/3P	27,000	66.0	2 ga	90 Amps
EL2848-208	K-B-2848/21	208/1P	27,000	130.0	4/0	175 Amps
EL2848-208-3P	K-B-2848/22	208/3P	27,000	75.0	1 ga	100 Amps
EL2848-480-3P	K-B-2848/62	480/3P	27,000	33.0	6 ga	50 Amps
EL3048-240	K-B-3048/31	240/1P	31,500	132.0	4/0	175 Amps
EL3048-240-3P	K-B-3048/32	240/3P	31,500	76.0	1 ga	100 Amps
EL3048-208	K-B-3048/21	208/1P	31,500	152.0	250 MCM	200 Amps
EL3048-208-3P	K-B-3048/22	208/3P	31,500	88.0	1/0	125 Amps
EL3048-480-3P	K-B-3048/62	480/3P	31,500	39.0	6 ga	50 Amps

UL Listing: All models are MET-us listed to UL499 standards. 480 models are MET-us listed as long as a NEMA1 panel is used.

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

22" x 22" Square Sectional Kilns • Cone 10 • 3" Brick

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Lid, Hinge & Stand: Welded angle iron counterbalance system with springs. Safety latch included. Welded angle iron with leveling bolts.

Assembly: 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Loading/Adjustment feature: It is possible to lift top section(s) off of the X2336-D and X2345-D without disassembling kiln (see hotkilns.com/section.html).

Construction: Unique shallow side arches create super-strong sides and allow for plenty of space for air circulation around kiln shelves.

Insulation: 3" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Patented ceramic holders protect brick.

Elements: Heavy-duty. 3 elements per 9" high section.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: Floor mounted & separate. Sections plug into panel with 50 amp cords. 50 amp mechanical contactors with control relays. Branch fusing included. The control panel is hinged for easy access and is made of aluminized steel. An On/Off switch and control fuse are included. Direct electrical hook-up to terminal block.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics. Dynatrol is in a handheld case that plugs into control panel with a 6 foot cord.

Zone Control: Two or Three Zones with separate thermocouples.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. Web videos show how to use the control. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.



An XB2318-D is shown with two sections. The control panel is mounted on the right side of the kiln. The handheld DynaTrol can be mounted on the wall (a 4 foot cord is included).

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum or 1/4" pyrocoil sheathed (see hotkilns.com/tc.pdf).

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf).

Bell-Lift: Not available on the X2300-D Series kilns.

480 Volts: 480 volts/ 3 phase uses 277 volt elements in a "Wye" electrical configuration for a balanced circuit (see hotkilns.com/480.pdf). Available without a NEMA 1 Control Panel at a lower cost, however this panel is required to maintain the c-MET-us listing.

Orton Sitter/Timer Backup Control: For safety back-up or to use as final control device while still using the control for ramping.

120 Volt Control Power Option: Allows control circuit to be plugged into a protected UPS power supply.

Powered Bottom: Not available on the X2300-D Series kilns.

High Power Option: The X2327-D, X2336-D, & X2345-D can be ordered with extra power.



DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
XB2318-D	18"	5.0	4 shelves, 1 post kit	H-X-K318/00	40" W x 32" H x 42" D	1 crate: 44" W x 45" H x 44" D 1 crate: 44" W x 74" H x 44" D	600 lbs	646 lbs
X2327-D	27"	8.1	6 shelves, 1 post kit	H-X-K327/00	40" W x 41" H x 42" D	1 crate: 44" W x 54" H x 44" D 1 crate: 44" W x 84" H x 44" D	700 lbs	764 lbs
X2336-D	36"	10.8	8 shelves, 2 post kit	H-X-K336/00	40" W x 50" H x 42" D	1 crate: 44" W x 63" H x 44" D 1 crate: 44" W x 84" H x 44" D	775 lbs	867 lbs
X2345-D	45"	13.5	10 shelves, 2 post kits	H-X-K345/00	40" W x 59" H x 42" D	1 crate: 44" W x 48" H x 44" D 1 crate: 44" W x 36" H x 44" D 1 crate: 44" W x 84" H x 44" D	875 lbs	985 lbs

Crosssection of Inside: 22" wide by 22" deep.

Minimum Space Requirements: 54" wide by 54" deep, or 59" wide by 59" deep for the X2345-D.

Furniture/Shelves Kit: Shelves are 10" x 20" x 3/4" cordierite shelves. Each post kit includes six each, 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all dimensions and weights: See hotkilns.com/davinci-dimensions.pdf.



Furniture kit for an X2327-D

ELECTRICAL SPECIFICATIONS

Standard Models						
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size
XB2318-D-240	K-X-B238/31	240/1P	8,932	37.2	6 ga	50 a
XB2318-D-240-3P	K-X-B238/32	240/3P	8,932	32.2	8 ga	40 a
XB2318-D-208	K-X-B238/21	208/1P	8,932	42.9	6 ga	60 a
XB2318-D-208-3P	K-X-B238/22	208/3P	8,932	37.2	6 ga	50 a
X2327-D-240	K-X-2327/31	240/1P	11,704	48.8	6 ga	60 a
X2327-D-240-3P	K-X-2327/32	240/3P	11,704	28.2	8 ga	40 a
X2327-D-208	K-X-2327/21	208/1P	11,704	56.3	4 ga	70 a
X2327-D-208-3P	K-X-2327/22	208/3P	11,704	32.5	8 ga	40 a
X2336-D-240	K-X-2336/31	240/1P	15,604	65.0	3 ga	80 a
X2336-D-240-3P	K-X-2336/32	240/3P	15,604	42.2	6 ga	60 a
X2336-D-208	K-X-2336/21	208/1P	15,604	75.0	2 ga	90 a
X2336-D-208-3P	K-X-2336/22	208/3P	15,604	48.7	6 ga	60 a
X2345-D-240	K-X-2345/31	240/1P	19,505	81.3	1 ga	100 a
X2345-D-240-3P	K-X-2345/32	240/3P	19,505	56.3	4 ga	40 a
X2345-D-208	K-X-2345/21	208/1P	19,505	93.8	1/0	125 a
X2345-D-208-3P	K-X-2345/22	208/3P	19,505	65.0	3 ga	80 a

UL Listing: All models are c-MET-us listed. 480 models are c-MET-us listed as long as a NEMA1 panel is used.

480 Volt Electrical Requirements: See hotkilns.com/davinci-electric.pdf.

High Powered Option Electrical Requirements: This is available for the X2827-D, X2836-D, X2845-D. It increases KW ratings by about 20%. See hotkilns.com/davinci-electric.pdf.

26-1/2" x 26-1/2" Square Sectional Kilns • Cone 10 • 3" Brick

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Lid, Hinge & Stand: Welded angle iron counterbalance system with springs. Safety latch included. Welded angle iron with leveling bolts.

Assembly: 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Loading/Adjustment feature: It is possible to lift top section(s) off of the X2836-D and X2845-D without disassembling kiln (see hotkilns.com/section.html).

Construction: Unique shallow side arches create super-strong sides and allow for plenty of space for air circulation around kiln shelves.

Insulation: 3" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Patented ceramic holders protect brick.

Elements: Heavy-duty. 3 elements per 9" high section.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: Floor mounted & separate. Sections plug into panel with 50 amp cords. 50 amp mechanical contactors with control relays. Branch fusing included. The control panel is hinged for easy access and is made of aluminized steel. An On/Off switch and control fuse are included. Direct electrical hook-up to terminal block.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics.

Zone Control: Two or Three Zones with separate thermocouples.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. Web videos show how use the control. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.



An X2827-D is shown with three sections. The control panel is mounted on the right side of the kiln. The handheld DynaTrol can be mounted on the wall (a 4 foot cord is included).

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum or 1/4" pyrocoil sheathed (see hotkilns.com/tc.pdf).

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf).

Bell-Lift: Not available on the X2800-D Series kilns.

480 Volts: 480 volts/ 3 phase uses 277 volt elements in a "Wye" electrical configuration for a balanced circuit (see hotkilns.com/480.pdf). Available without a NEMA 1 Control Panel at a lower cost, however this panel is required to maintain the c-MET-us listing.

Orton Sitter/Timer Backup Control: For safety back-up or to use as final control device while still using the control for ramping.

120 Volt Control Power Option: Allows control circuit to be plugged into a protected UPS power supply.

Powered Bottom: Available on all X2800-D Series kilns.

High Power Option: The X2827-D, X2836-D, & X2845-D can be ordered with extra power.

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
XB2818-D	18"	7.8	4 shelves, 1 post kit	H-X-K818/00	45" W x 32" H x 43" D	1 crate: 48" W x 45" H x 44" D 1 crate: 48" W x 74" H x 44" D	725 lbs	795 lbs
X2827-D	27"	11.7	6 shelves, 1 post kit	H-X-K827/00	45" W x 41" H x 43" D	1 crate: 48" W x 54" H x 44" D 1 crate: 48" W x 84" H x 44" D	835 lbs	935 lbs
X2836-D	36"	15.6	8 shelves, 2 post kit	H-X-K836/00	45" W x 50" H x 43" D	1 crate: 48" W x 63" H x 44" D 1 crate: 48" W x 84" H x 44" D	935 lbs	1075 lbs
X2845-D	45"	19.5	10 shelves, 2 post kits	H-X-K845/00	45" W x 59" H x 43" D	1 crate: 48" W x 48" H x 44" D 1 crate: 48" W x 36" H x 44" D 1 crate: 48" W x 84" H x 44" D	1050 lbs	1220 lbs

Crosssection of Inside: 26-1/2" wide by 26-1/2" deep.

Minimum Space Requirements: 64" wide by 64" deep.

Furniture/Shelves Kit: Shelves are 11-1/2" x 23" x 3/4" cordierite shelves. Each post kit includes six each, 1/2", 1", 2", 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all dimensions and weights: See hotkilns.com/davinci-dimensions.pdf.



Furniture kit for an X2827-D

ELECTRICAL SPECIFICATIONS

Standard Models							Powered Bottom Models				
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size	Part Number	Watts	Amps	Wire Size	Fuse Size
XB2818-D-240	K-X-B288/31	240/1P	11,592	48.3	6 ga	60 a	K-X-281P/31	15,500	64.4	3 ga	80 a
XB2818-D-240-3P	K-X-B288/32	240/3P	11,592	41.8	6 ga	60 a	K-X-281P/32	15,500	41.8	6 ga	60 a
XB2818-D-208	K-X-B288/21	208/1P	11,592	55.7	4 ga	70 a	K-X-281P/21	15,500	74.3	2 ga	90 a
XB2818-D-208-3P	K-X-B288/22	208/3P	11,592	48.3	6 ga	60 a	K-X-281P/22	15,500	48.3	6 ga	60 a
X2827-D-240	K-X-2827/31	240/1P	14,930	62.2	3 ga	80 a	K-X-282P/31	18,300	76.1	2 ga	90 a
X2827-D-240-3P	K-X-2827/32	240/3P	14,930	35.9	6 ga	50 a	K-X-282P/32	18,300	47.9	4 ga	70 a
X2827-D-208	K-X-2827/21	208/1P	14,930	71.8	2 ga	90 a	K-X-282P/21	18,300	87.7	1 ga	100 a
X2827-D-208-3P	K-X-2827/22	208/3P	14,930	41.5	6 ga	60 a	K-X-282P/22	18,300	55.3	4 ga	70 a
X2836-D-240	K-X-2836/31	240/1P	19,907	83.0	1 ga	100 a	K-X-283P/31	23,200	96.8	1/0	125 a
X2836-D-240-3P	K-X-2836/32	240/3P	19,907	53.9	4 ga	70 a	K-X-283P/32	23,200	65.9	3 ga	80 a
X2836-D-208	K-X-2836/21	208/1P	19,907	95.7	1/0	125 a	K-X-283P/21	23,200	111.7	1/0	125 a
X2836-D-208-3P	K-X-2836/22	208/3P	19,907	62.2	6 ga	80 a	K-X-283P/22	23,200	76.0	2 ga	90 a
X2845-D-240	K-X-2845/31	240/1P	24,883	103.7	1/0	125 a	K-X-284P/31	28,200	117.5	2/0	150 a
X2845-D-240-3P	K-X-2845/32	240/3P	24,883	71.9	2 ga	90 a	K-X-284P/32	28,200	71.9	2 ga	90 a
X2845-D-208	K-X-2845/21	208/1P	24,883	119.6	2/0	150 a	K-X-284P/21	28,200	135.6	2/0	150 a
X2845-D-208-3P	K-X-2845/22	208/3P	24,883	82.9	1 ga	100 a	K-X-284P/22	28,200	82.9	1 ga	100 a

For Model Number Powered Bottom Model: Add a "PB" after the "D" (Example = X2827-D-PB-240-1).

UL Listing: All models are c-MET-us listed. 480 models are c-MET-us listed as long as a NEMA1 panel is used.

480 Volt Electrical Requirements: See hotkilns.com/davinci-electric.pdf.

High Powered Option Electrical Requirements: This is available for the X2827-D, X2836-D, X2845-D. It increases KW ratings by about 20%. See hotkilns.com/davinci-electric.pdf.

30-1/2" x 30-1/2" Square Sectional Kilns • Cone 10 • 3" Brick

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Lid, Hinge & Stand: Welded angle iron counterbalance system with springs. Safety latch included. Welded angle iron with leveling bolts.

Assembly: 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Loading/Adjustment feature: It is possible to lift top section(s) off of the X3236-D and X3245-D without disassembling kiln (see hotkilns.com/section.html).

Construction: Unique shallow side arches create super-strong sides and allow for plenty of space for air circulation around kiln shelves.

Insulation: 3" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Patented ceramic holders protect brick.

Elements: Heavy-duty. 3 elements per 9" high section.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: Floor mounted & separate. Sections plug into panel with 50 amp cords. 50 amp mechanical contactors with control relays. Branch fusing included. The control panel is hinged for easy access and is made of aluminized steel. An On/Off switch and control fuse are included. Direct electrical hook-up to terminal block.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics. Dynatrol is in a handheld case that plugs into control panel with a 6 foot cord.

Zone Control: Two or Three Zones with separate thermocouples.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. Web videos show how to use the control. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.



An X3236-D is shown with four sections. The control panel is mounted on the right side of the kiln. The handheld DynaTrol can be mounted on the wall (a 4 foot cord is included).

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum or 1/4" pyrocil sheathed (see hotkilns.com/tc.pdf).

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf).

Bell-Lift: Bell-lift system available (see hotkilns.com/lift.pdf).

480 Volts: 480 volts/ 3 phase uses 277 volt elements in a "Wye" electrical configuration for a balanced circuit (see hotkilns.com/480.pdf). Available without a NEMA 1 Control Panel at a lower cost, however this panel is required to

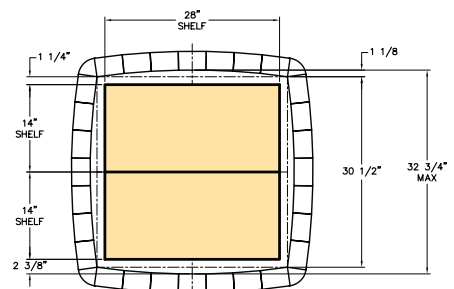
maintain the c-MET-us listing.

Orton Sitter/Timer Backup Control: For safety back-up or to use as final control device while still using the control for ramping.

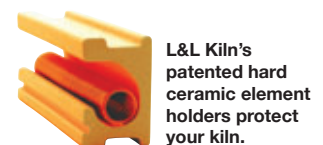
120 Volt Control Power Option: Allows control circuit to be plugged into a protected UPS power supply.

Powered Bottom: Available on all X3200-D Series kilns.

High Power Option: The X3227-D, X3236-D, & X3245-D can be ordered with extra power.



505 Sharptown Road • Swedesboro, NJ 08085
 Phone: 856.294.0077 • Fax: 856.294.0070
 Email: sales@hotkilns.com • Web: www.hotkilns.com



Bulletin No: Spec-X3200-D-4-10

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
XB3218-D	18"	10.0	4 shelves, 1 post kit	H-X-K218/00	49" W x 32" H x 49" D	1 crate: 54" W x 45" H x 48" D 1 crate: 48" W x 74" H x 44" D	880 lbs	982 lbs
X3227-D	27"	15.0	6 shelves, 1 post kit	H-X-K227/00	49" W x 41" H x 49" D	1 crate: 54" W x 54" H x 48" D 1 crate: 48" W x 84" H x 44" D	1000 lbs	1148 lbs
X3236-D	36"	20.0	8 shelves, 2 post kit	H-X-K236/00	49" W x 50" H x 49" D	1 crate: 54" W x 48" H x 63" D 1 crate: 48" W x 84" H x 44" D	1135lbs	1339 lbs
X3245-D	45"	25.0	10 shelves, 2 post kits	H-X-K245/00	49" W x 59" H x 49" D	1 crate: 54" W x 48" H x 48" D 1 crate: 54" W x 36" H x 48" D 1 crate: 48" W x 84" H x 44" D	1275 lbs	1525 lbs

Crosssection of Inside: 30-1/2" wide by 30-1/2" deep.

Minimum Space Requirements: 64" wide by 64" deep.

Furniture/Shelves Kit: Shelves are 14" x 28" x 3/4" cordierite shelves. Each post kit includes six each, 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all dimensions and weights: See hotkilns.com/davinci-dimensions.pdf.

Bell-Lift Dimensions: See hotkilns.com/lift.html.



Furniture kit for an X3227-D.

ELECTRICAL SPECIFICATIONS

Standard Models							Powered Bottom Models				
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size	Part Number	Watts	Amps	Wire Size	Fuse Size
XB3218-D-240	K-X-B328/31	240/1P	14,196	59.2	3 ga	80 a	K-X-321P/31	18,928	78.9	1 ga	100 a
XB3218-D-240-3P	K-X-B328/32	240/3P	14,196	51.2	4 ga	70 a	K-X-321P/32	18,928	51.2	4 ga	70 a
XB3218-D-208	K-X-B328/21	208/1P	14,196	68.3	2 ga	90 a	K-X-321P/21	18,928	91.0	1/0	125 a
XB3218-D-208-3P	K-X-B328/22	208/3P	14,196	59.1	3 ga	80 a	K-X-321P/22	18,928	59.1	3 ga	80 a
X3227-D-240	K-X-3227/31	240/1P	18,039	75.2	1 ga	100 a	K-X-322P/31	22,050	91.9	1/0	125 a
X3227-D-240-3P	K-X-3227/32	240/3P	18,039	43.4	6 ga	60 a	K-X-322P/32	22,050	57.9	3 ga	80 a
X3227-D-208	K-X-3227/21	208/1P	18,039	86.7	1/0	125 a	K-X-322P/21	22,050	106.0	1/0	125 a
X3227-D-208-3P	K-X-3227/22	208/3P	18,039	50.1	4 ga	70 a	K-X-322P/22	22,050	66.8	2 ga	90 a
X3236-D-240	K-X-3236/31	240/1P	24,412	101.7	1/0	125 a	K-X-323P/31	28,060	116.9	2/0	150 a
X3236-D-240-3P	K-X-3236/32	240/3P	24,412	65.1	3 ga	80 a	K-X-323P/32	28,060	79.6	1 ga	100 a
X3236-D-208	K-X-3236/21	208/1P	24,412	117.4	2/0	150 a	K-X-323P/21	28,060	134.9	2/0	150 a
X3236-D-208-3P	K-X-3236/22	208/3P	24,412	75.1	1 ga	100 a	K-X-323P/22	28,060	91.8	1/0	125 a
X3245-D-240	K-X3245/31	240/1P	30,515	127.2	4/0	175 a	K-X324P/31	34,074	142.0	4/0	175 a
X3245-D-240-3P	K-X3245/32	240/3P	30,515	86.8	1/0	125 a	K-X324P/32	34,074	86.8	1 ga	100 a
X3245-D-208	K-X3245/21	208/1P	30,515	146.7	250 mcm	200 a	K-X324P/21	34,074	163.8	250 mcm	200 a
X3245-D-208-3P	K-X3245/22	208/3P	30,515	100.2	1/0	125 a	K-X324P/22	34,074	100.2	1/0	125 a

For Model Number Powered Bottom Model: Add a "PB" after the "D" (Example = X3227-D-PB-240-1).

480 Volt Electrical Requirements: See hotkilns.com/davinci-electric.pdf.

High Powered Option Electrical Requirements: This is available for the X3227-D, X3236-D, X3245-D. It increases KW ratings by about 20%. See hotkilns.com/davinci-electric.pdf.

35-1/4" x 26-1/2" Rectangular Sectional Kilns • Cone 10 • 3" Brick

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Lid, Hinge & Stand: Welded angle iron counterbalance system with springs. Safety latch included. Welded angle iron with leveling bolts.

Assembly: 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Loading/Adjustment feature: It is possible to lift top section(s) off of the T2336-D and T2345-D without disassembling kiln (see hotkilns.com/section.html).

Construction: Unique shallow side arches create super-strong sides and allow for plenty of space for air circulation around kiln shelves.

Insulation: 3" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Patented 3000°F ceramic holders with silicon carbide protect brick.

Elements: Heavy-duty. 3 elements per 9" high section.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: Floor mounted & separate. Sections plug into panel with 50 amp cords. 50 amp mechanical contactors with control relays. Branch fusing included. The control panel is hinged for easy access and is made of aluminized steel. An On/Off switch and control fuse are included. Direct electrical hook-up to terminal block.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics. Dynatrol is in a handheld case that plugs into control panel with a 6 foot cord.

Zone Control: Two or Three Zones with separate thermocouples.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. Web videos show how to use the control. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum or 1/4" pyrocil sheathed (see hotkilns.com/tc.pdf).

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf).

Bell-Lift: Not available on the T2300-D Series kilns.

480 Volts: 480 volts/ 3 phase uses 277 volt elements in a "Wye" electrical configuration for a balanced circuit (see hotkilns.com/480.pdf). Available without a NEMA 1 Control Panel at a lower cost, however this panel is required to

maintain the c-MET-us listing.

Orton Sitter/Timer Backup Control:

For safety back-up or to use as final control device while still using the control for ramping.

120 Volt Control Power Option:

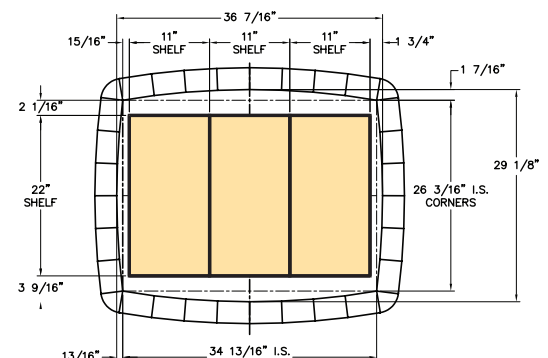
Allows control circuit to be plugged into a protected UPS power supply.

Powered Bottom: Available on all T2300-D Series kilns.

High Power Option: The T2327-D, T2336-D, & T2345-D can be ordered with extra power.



An T2327-D is shown with three sections. The control panel is mounted on the right side of the kiln. The handheld DynaTrol can be mounted on the wall (a 4 foot cord is included).



DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
TB2318-D	18"	9.7	6 shelves, 1 post kit	H-T-K418/00	54" W x 32" H x 43" D	1 crate: 62" W x 45" H x 48" D 1 crate: 50" W x 74" H x 44" D	900 lbs	994 lbs
T2327-D	27"	14.6	9 shelves, 1 post kit	H-T-K427/00	54" W x 41" H x 43" D	1 crate: 62" W x 54" H x 48" D 1 crate: 50" W x 84" H x 44" D	1035 lbs	1171 lbs
T2336-D	36"	19.4	12 shelves, 2 post kit	H-T-K436/00	54" W x 50" H x 43" D	1 crate: 62" W x 63" H x 48" D 1 crate: 50" W x 84" H x 44" D	1165 lbs	1353 lbs
T2345-D	45"	24.3	15 shelves, 2 post kits	H-T-K445/00	54" W x 59" H x 43" D	1 crate: 62" W x 48" H x 48" D 1 crate: 62" W x 36" H x 48" D 1 crate: 50" W x 84" H x 44" D	1300 lbs	1530 lbs

Crosssection of Inside: 34-3/4" wide by 26-1/4" deep.

Minimum Space Requirements: 77" wide by 64" deep.

Furniture/Shelves Kit: Shelves are 11" x 22" x 3/4" cordierite shelves. Each post kit includes six 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include, heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all dimensions and weights: See hotkilns.com/davinci-dimensions.pdf.

Bell-Lift Dimensions: See hotkilns.com/lift.html.



Furniture kit for an T2327-D

ELECTRICAL SPECIFICATIONS

Standard Models							Powered Bottom Models				
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size	Part Number	Watts	Amps	Wire Size	Fuse Size
TB2318-D-240	K-T-2318/31	240/1P	15,341	63.9	3 ga	80 a	K-T-231P/31	20,500	85.2	1 ga	100 a
TB2318-D-240-3P	K-T-2318/32	240/3P	15,341	55.4	4 ga	70 a	K-T-2318P/32	20,500	55.4	4 ga	70 a
TB2318-D-208	K-T-2318/21	208/1P	15,341	73.8	1 ga	100 a	K-T-231P/21	20,500	98.3	1/0	125 a
TB2318-D-208-3P	K-T-2318/22	208/3P	15,341	63.9	3 ga	80 a	K-T-231P/22	20,500	63.9	3 ga	80 a
T2327-D-240	K-T-2327/31	240/1P	19,510	81.3	1 ga	100 a	K-T-232P/31	23,840	99.4	1/0	125 a
T2327-D-240-3P	K-T-2327/32	240/3P	19,510	46.9	6 ga	60 a	K-T-232P/32	23,840	62.6	3 ga	80 a
T2327-D-208	K-T-2327/21	208/1P	19,510	93.8	1/0	125 a	K-T-232P/21	23,840	114.6	2/0	150 a
T2327-D-208-3P	K-T-2327/22	208/3P	19,510	54.1	4 ga	70 a	K-T-232P/22	23,840	72.2	2 ga	90 a
T2336-D-240	K-T-2336/31	240/1P	26,013	108.4	1/0	125 a	K-T-233P/31	30,400	126.5	2/0	150 a
T2336-D-240-3P	K-T-2336/32	240/3P	26,013	70.4	2 ga	90 a	K-T-233P/32	30,400	86.0	1 ga	100 a
T2336-D-208	K-T-2336/21	208/1P	26,013	125.1	2/0	150 a	K-T-233P/21	30,400	145.9	4/0	175 a
T2336-D-208-3P	K-T-2336/22	208/3P	26,013	81.2	1 ga	100 a	K-T-233P/22	30,400	99.3	1/0	125 a
T2345-D-240	K-T-2345/31	240/1P	32,517	135.4	4/0	175 a	K-T-234P/31	36,900	153.5	250 mcm	200 a
T2345-D-240-3P	K-T-2345/32	240/3P	32,517	93.9	1/0	125 a	K-T-234P/32	36,900	93.9	1/0	125 a
T2345-D-208	K-T-2345/21	208/1P	32,517	156.3	250 mcm	200 a	K-T-234P/21	36,900	177.2	250 mcm	200 a
T2345-D-208-3P	K-T-2345/22	208/3P	32,517	108.3	1/0	125 a	K-T-234P/22	36,900	108.3	1/0	125 a

For Model Number Powered Bottom Model: Add a "PB" after the "D" (Example = T2336-D-PB-240-1).

UL Listing: All models are c-MET-us listed. 480 models are c-MET-us listed as long as a NEMA1 panel is used.

480 Volt Electrical Requirements: See hotkilns.com/davinci-electric.pdf.

High Powered Option Electrical Requirements: This is available for the T2327-D, T2336-D, T2345-D. It increases KW ratings by about 20%. See hotkilns.com/davinci-electric.pdf.

43-1/2" x 30-1/2" Rectangular Sectional Kilns • Cone 10 • 3" Brick

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Lid, Hinge & Stand: Welded angle iron counterbalance system with springs. Safety latch included. Welded angle iron with leveling bolts.

Assembly: 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Loading/Adjustment feature: It is possible to lift top section(s) off of the T3436-D and T3445-D without disassembling kiln (see hotkilns.com/section.html).

Construction: Unique shallow side arches create super-strong sides and allow for plenty of space for air circulation around kiln shelves.

Insulation: 3" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Patented ceramic holders protect brick.

Elements: Heavy-duty. 3 elements per 9" high section.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: Floor mounted & separate. Sections plug into panel with 50 amp cords. 50 amp mechanical contactors with control relays. Branch fusing included. The control panel is hinged for easy access and is made of aluminized steel. An On/Off switch and control fuse are included. Direct electrical hook-up to terminal block.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics. Dynatrol is in a handheld case that plugs into control panel with a 6 foot cord.

Zone Control: Two or Three Zones with separate thermocouples.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. Web videos show how to use the control. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum or 1/4" pyroclil sheathed (see hotkilns.com/tc.pdf).

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf).

Bell-Lift: Bell-lift system available (see hotkilns.com/lift.pdf).

480 Volts: 480 volts/ 3 phase uses 277 volt elements in a "Wye" electrical configuration for a balanced circuit (see hotkilns.com/480.pdf). Available without a NEMA 1 Control Panel at a lower cost, however this panel is required to

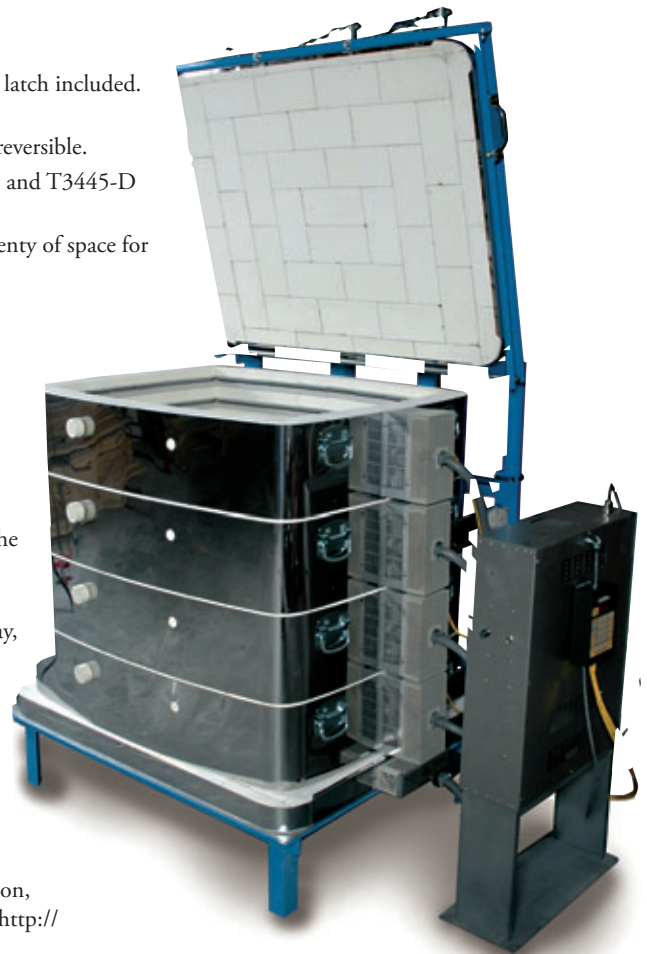
maintain the c-MET-us listing.

Orton Sitter/Timer Backup Control: For safety back-up or to use as final control device while still using the control for ramping.

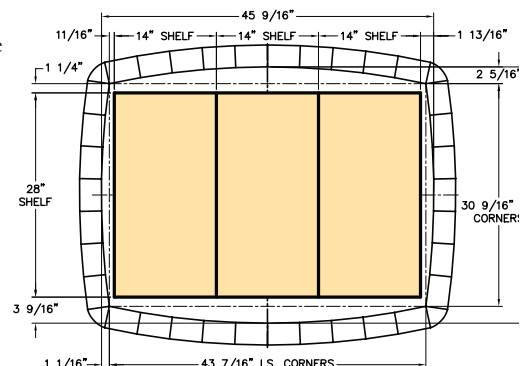
120 Volt Control Power Option: Allows control circuit to be plugged into a protected UPS power supply.

Powered Bottom: Available on all T3400-D Series kilns.

High Power Option: The T3427-D, T3436-D, & T3445-D can be ordered with extra power.



An T3436-D is shown with four sections. The control panel is mounted on the right side of the kiln. The handheld DynaTrol can be mounted on the wall (a 4 foot cord is included).



DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions	Ship Weight Kiln Only	Ship Weight Kiln + Kit
TB3418-D	18"	13.8	6 shelves, 2 post kit	H-T-K518/00	62" W x 32" H x 49" D	1 crate: 65" W x 45" H x 48" D 1 crate: 65" W x 74" H x 48" D	1065 lbs	1223 lbs
T3427-D	27"	20.7	9 shelves, 2 post kit	H-T-K527/00	62" W x 41" H x 49" D	1 crate: 65" W x 54" H x 48" D 1 crate: 65" W x 84" H x 48" D	1225 lbs	1452 lbs
T3436-D	36"	27.6	12 shelves, 2 post kit	H-T-K536/00	62" W x 50" H x 49" D	1 crate: 65" W x 63" H x 48" D 1 crate: 65" W x 84" H x 48" D	1475 lbs	1771 lbs
T3445-D	45"	34.5	15 shelves, 3 post kits	H-T-K545/00	62" W x 59" H x 49" D	1 crate: 65" W x 48" H x 48" D 1 crate: 65" W x 36" H x 48" D 1 crate: 65" W x 84" H x 48" D	1675 lbs	2050 lbs

Crosssection of Inside: 43-1/2" wide by 30-1/2" deep.

Minimum Space Requirements: 77" wide by 64" deep.

Furniture/Shelves Kit: Shelves are 14" x 28" x 3/4" cordierite shelves. Each post kit includes twelve to eighteen each, depending on kiln size, 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all dimensions and weights: See hotkilns.com/davinci-dimensions.pdf

Bell-Lift Dimensions: See hotkilns.com/lift.html



Furniture kit for an T3427-D

ELECTRICAL SPECIFICATIONS

Standard Models							Powered Bottom Models				
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size	Part Number	Watts	Amps	Wire Size	Fuse Size
TB3418-D-240	K-T-3418/31	240/1P	19,935	83.1	1 ga	100 a	K-T-341P/31	26,580	110.8	2/0	150 a
TB3418-D-240-3P	K-T-3418/32	240/3P	19,935	71.9	2 ga	90 a	K-T-341P/32	26,580	71.9	2 ga	90 a
TB3418-D-208	K-T-3418/21	208/1P	19,935	95.8	1/0	125 a	K-T-341P/21	26,580	127.8	2/0	150 a
TB3418-D-208-3P	K-T-3418/22	208/3P	19,935	83.0	1 ga	100 a	K-T-341P/22	26,580	83.0	1/0	125 a
T3427-D-240	K-T-3427/31	240/1P	24,936	103.9	1/0	125 a	K-T-342P/31	30,480	127.0	2/0	150 a
T3427-D-240-3P	K-T-3427/32	240/3P	24,936	60.0	3 ga	80 a	K-T-342P/32	30,480	80.0	1 ga	100 a
T3427-D-208	K-T-3427/21	208/1P	24,936	119.9	2/0	150 a	K-T-342P/21	30,480	146.5	4/0	175 a
T3427-D-208-3P	K-T-3427/22	208/3P	24,936	69.2	2 ga	90 a	K-T-342P/22	30,480	92.3	1/0	125 a
T3436-D-240	K-T-3436/31	240/1P	33,248	138.5	4/0	175 a	K-T-343P/31	38,790	161.6	250 mcm	200 a
T3436-D-240-3P	K-T-3436/32	240/3P	33,248	90.0	1/0	125 a	K-T-343P/32	38,790	110.0	2/0	150 a
T3436-D-208	K-T-3436/21	208/1P	33,248	159.9	250 mcm	200 a	K-T-343P/21	38,790	186.5	350 mcm	225 a
T3436-D-208-3P	K-T-3436/22	208/3P	33,248	103.8	1/0	125 a	K-T-343P/22	38,790	126.9	2/0	150 a
T3445-D-240	K-T-3445/31	240/1P	41,560	173.2	250 mcm	200 a	K-T-344P/31	47,100	196.3	350 mcm	225 a
T3445-D-240-3P	K-T-3445/32	240/3P	41,560	120.0	2/0	150 a	K-T-344P/32	47,100	120.0	2/0	150 a
T3445-D-208	K-T-3445/21	208/1P	41,560	199.8	350 mcm	225 a	K-T-344P/21	47,100	226.5	350 mcm	250 a
T3445-D-208-3P	K-T-3445/22	208/3P	41,560	138.4	4/0	175 a	K-T-344P/22	47,100	138.4	4/0	175 a

For Model Number Powered Bottom Model: Add a "PB" after the "D" (Example = T3436-D-PB-240-1)

UL Listing: All models are c-MET-us listed. 480 models are c-MET-us listed as long as a NEMA1 panel is used.

480 Volt Electrical Requirements: See hotkilns.com/davinci-electric.pdf

High Powered Option Electrical Requirements: This is available for the T3427-D, T3436-D, T3445-D. It increases KW ratings by about 20%. See hotkilns.com/davinci-electric.pdf.

Bell-Lift Kilns are ideal for sculpture, large format work and production loading

FEATURES

Availability: DaVinci X3200-D & T3400-D Kiln Series. Also a special version exists for much larger kilns (TB644754-D).

Application: A common complaint concerning top loading kilns, the larger ones in particular, is that it is difficult to load them. This is especially true for larger pieces, and in a production environment this labor intensive job can become very expensive over time. Moreover, some people simply aren't capable of doing this strenuous and heavy lifting. Front loading kilns are often desired because they seem to be easier to load, however, it is still a strain to put a heavy piece into the back of a front-loading kiln and these kilns are generally more expensive. Shuttle kilns or envelope kilns work well for loading but they are also very expensive. Bell-lift kilns are one good solution for this problem.

How it Works: The Bell-Lift accessory lifts the whole kiln up as a unit exposing the bottom of the kiln for loading from all four sides. The kiln sections and top are held together as one unit with a metal support frame. This unit is lifted up with a ratcheted hand winch mounted on the external frame. (Electric winches are available as an upgrade.) There are manual safety pins that lock the kiln in place when the kiln is fully raised.

Construction: This whole support frame is made from heavy duty welded parts that are easily assembled on site so that the system can be easily broken down for inexpensive common carrier shipping. (It is a two to three person job to assemble the kiln. Only simple tools, like wrenches are required).

DIMENSIONS

Height: A 18", 27" or 36" high kiln (interior) will be 105" high, and a 45" high kiln will be 123" high.

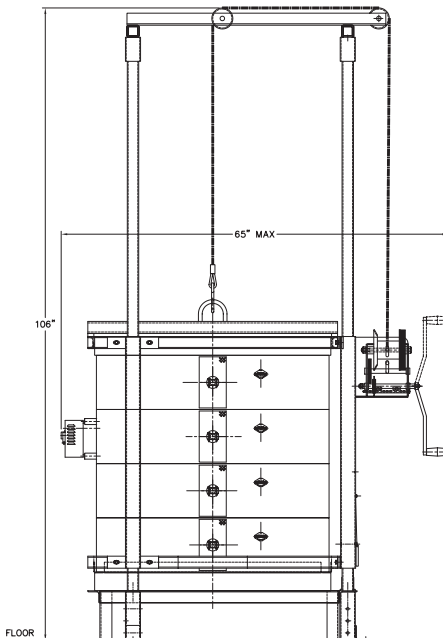
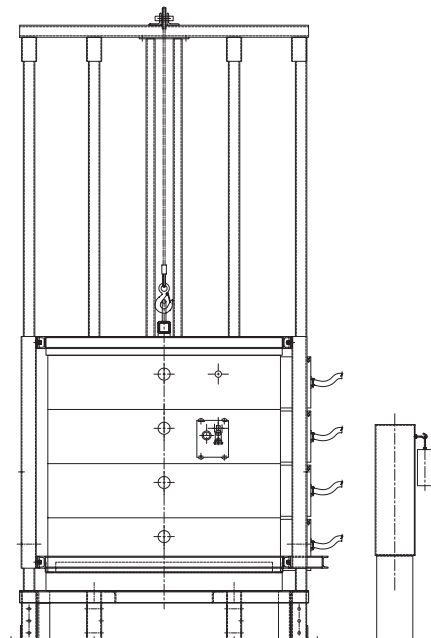
General Dimensions: See reverse side.



DAVINCI Bell-Lift Option

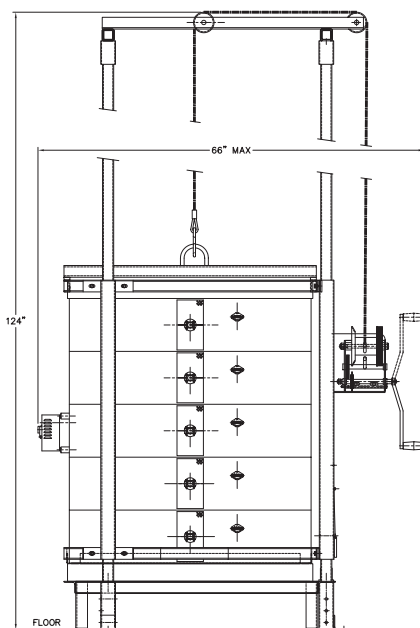
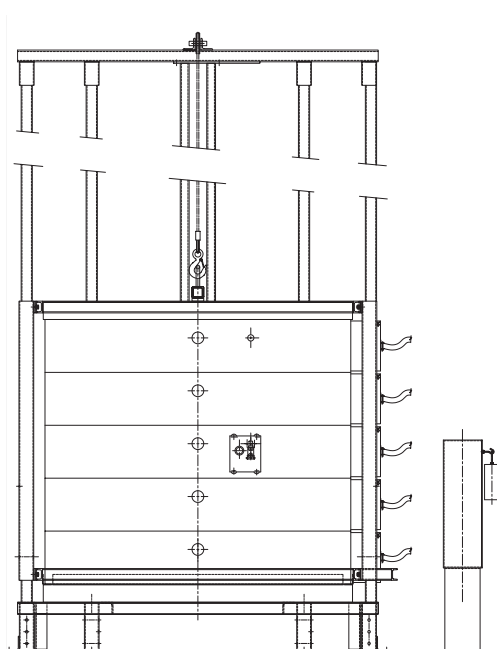
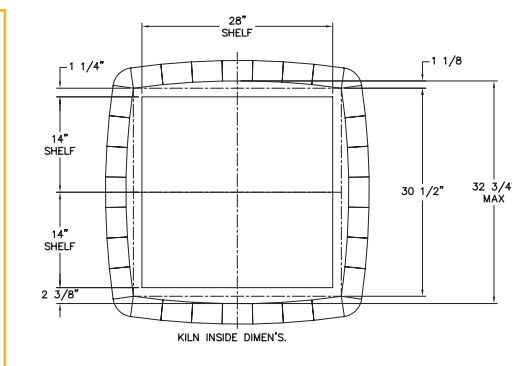
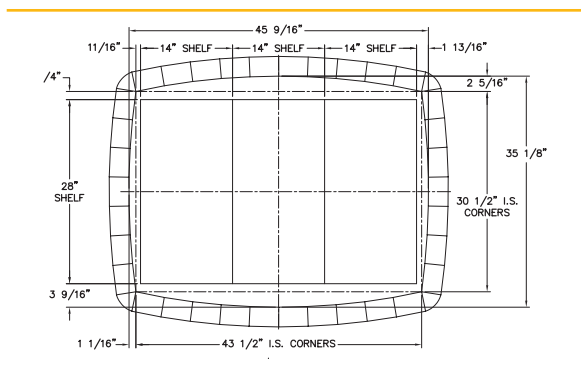
DAVINCI Bell-Lift Option





The kiln shown at the top is the X3236-D. The one below is the T3445-D. All the 45" high models have the height of this T3445-D. All the 36", 27" and 18" high models have the height of the X3236-D.

Contact the factory for complete General Dimension drawings.



100 Cubic Foot Industrial Bell-Lift Kiln

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Loading: The kiln lifts up with an electric winch. Safety latches hold the kiln in place while kiln is loaded.

Assembly: 9" high sections stack on top of each other. Frame easily bolts together. A forklift or overhead crane should be used in the assembly.

Kiln Construction: Unique shallow side arches create super-strong sides and allow for plenty of space for air circulation.

Insulation: 3" K23 firebrick on sides and top. 4" ceramic fiber module top (RCF or Non-RCF depending on maximum temperature required).

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Super high temperature ceramic with silicon carbide protect brick.

Elements: Heavy-duty. 3 elements per 9" high section.

Control Panel: Floor mounted NEMA 1 panel separate from kiln. Kiln sections attached to panel with 105°C cords. Mechanical contactors with control relays. Branch fusing. An On/Off switch and control fuse are included. Direct electrical hook-up to terminal block.

Control: DynaTrol with 4 Easy-Fire programs, 6 Vary-Fire programs, PreHeat, Delay, Program & Segment Review, and Diagnostics.

Zone Control: Three zone.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Thermocouples: Type K 8 gauge with ceramic protection tubes.

Relays: Mercury free relays.

Instructions: Complete instructions with control reference, troubleshooting, and parts list. Web videos show how use the control. There is also a video showing the bell-lift raising and lowering. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).



This kiln is remarkably easy to assembly and install for such a large kiln.

OPTIONS

Furniture Kits: Special order.

Thermocouple Options: Type S platinum or 1/4" pyrocoil metallic sheathed (see hotkilns.com/tc.pdf).

KISS Software: For computer monitoring and control. See hotkilns.com/kiss

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf).

Other Sizes and Configurations: The height can be changed in 9" increments. Other crosssections can be designed. A Shuttle-Bell where the kiln moves back and forth between two fixed bases can be designed.

Extra Insulation: Kiln can be designed with 3" of firebrick and 2" of backup mineral wool, 4-1/2" to 6" firebrick on the base and 6" of fiber on the top.



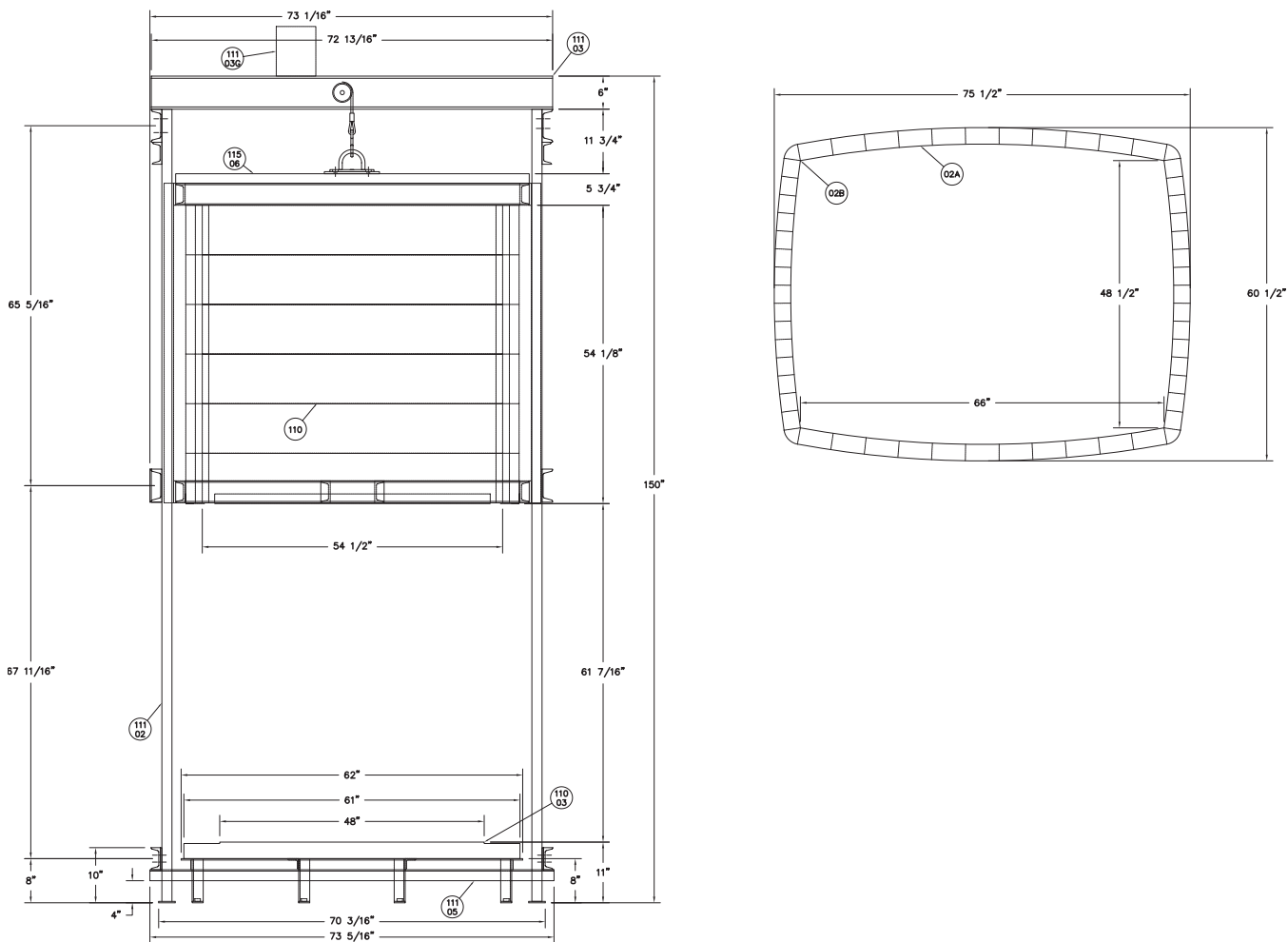
DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Cubic Feet	Inside Dimensions	Outside Dimensions	Shipping Dimensions	Ship Weight Kiln Only
TB644754	100	66" W x 47"D x 54"H	96" W x 74" D x 160" H	Ships on one flatbed trailer	4000 lbs

Minimum Space Requirements: 120" wide by 98" deep by 165" high.

Furniture/Shelves Kit: All special order.

General Dimension Drawings: See hotkilns.com/GD-TB644754.pdf



DAVINCI TB644754-D Bell-Lift

DAVINCI TB644754-D Bell-Lift

ELECTRICAL SPECIFICATIONS

Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size
TB644754-480-3P	K-T-6454/62	480/3P	87,840	106	2/0	150 Amps

UL Listing: Not listed to UL499 standards.

Power connection: Direct connection to a terminal block in the Contactor Panel.

Jupiter (Manual)

J1800 Series

17-1/2" Diameter Manual Sectional Kilns • Cone 10 • 2-1/2" Brick

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that loading is easy. Chains are used to secure the lid in place when open.

Hinge: The hinge of the J1800 series is not spring-loaded.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two to three 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 2-1/2" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 2 elements per 9" high section. Wired in series.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that mounts to the element connection boxes. Cords from sections plug into this panel. The control panel is hinged for easy access and maintenance. Control box can be easily removed for servicing.

Control: Orton Kiln Sitter/Timer is mounted in a separate box on the outside of the kiln. Each section is controlled with separate infinitely adjustable switches.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list.

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.



A J18 is shown with two sections.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf).

Tru-View Digital Pyrometer System: Multi-zone pyrometers let you control your manual zoned kiln with more accurate temperature readings and better control of temperature gradients. See separate specification sheet "Spec-Tru-View". (See hotkilns.com/spec-tru-view.pdf)

Powered Bottom: Not available on the J1800 series.



DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
J18	18"	2.6	1 full, 4 half shelves	H-J-K180/00	28" W x 31" H x 39" D	36" W x 55" H x 36" D	200 lbs	245 lbs
J18X	27"	3.9	2 full, 4 half shelves	H-J-K18X/00	28" W x 40" H x 39" D	36" W x 60" H x 36" D	245 lbs	295 lbs

Crosssection of Inside: 8 sided polygon, 17-1/2" in diameter.

Minimum Space Requirements: 48" wide x 48" deep.

Furniture/Shelves Kit: Shelves are 15-1/2" diameter full and half round cordierite shelves. Each post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all Dimensions and Weights: See hotkilns.com/jupiter-dimensions.pdf



Furniture kit for a J18.



Furniture kit for a J18X.

ELECTRICAL SPECIFICATIONS

Standard Models						
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size
J18-240	K-J-180H/31	240/1P	5,520	23.0	10 ga	30 a
J18-240-3P	K-J-180H/32	240/3P	5,520	19.9	10 ga	30 a
J18-208	K-J-180H/21	208/1P	5,520	26.5	10 ga	30 a
J18-208-3P	K-J-180H/22	208/3P	5,520	23.0	10 ga	30 a
J18X-240	K-J-18XH/31	240/1P	8,280	34.5	6 ga	50 a
J18X-240-3P	K-J-18XH/32	240/3P	8,280	19.9	10 ga	30 a
J18X-208	K-J-18XH/21	208/1P	8,280	39.8	6 ga	50 a
J18X-208-3P	K-J-18XH/22	208/3P	8,280	23.0	10 ga	30 a

UL Listing: All the above models are c-MET-us listed.

Power Connection: Single phase models have a NEMA 6-50 plug. Three phase models have a NEMA 15-50 plug.

Jupiter (Manual)

J1800-3 Series

16-1/2" Diameter Manual Sectional Kilns • Cone 10 • 3" Brick

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that loading is easy. Chains are used to secure the lid in place when open.

Hinge: The hinge of the J1800-3 series is not spring-loaded.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two to three 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 3" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 2 elements per 9" high section. Wired in series.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that mounts to the element connection boxes. Cords from sections plug into this panel. The control panel is hinged for easy access and maintenance. Control box can be easily removed for servicing.

Control: Orton Kiln Sitter/Timer is mounted in a separate box on the outside of the kiln. Each section is controlled with separate infinitely adjustable switches.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list.

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)

Tru-View Digital Pyrometer System: Multi-zone pyrometers let you control your manual zoned kiln with more accurate temperature readings and better control of temperature gradients. See separate specification sheet "Spec-Tru-View". (See hotkilns.com/spec-tru-view.pdf)

Powered Bottom: Not available on the J1800-3 series.



A J18-3 is shown with two sections.

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
J18-3	18"	2.5	1 full, 4 half shelves	H-J-K180/30	28" W x 32" H x 39" D	36" W x 55" H x 36" D	230 lbs	280 lbs
J18X-3	27"	3.7	2 full, 4 half shelves	H-J-K18X/30	28" W x 41" H x 39" D	36" W x 60" H x 36" D	270 lbs	320 lbs

Crosssection of Inside: 8 sided polygon, 16-1/2" in diameter.

Minimum Space Requirements: 48" wide x 48" deep.

Furniture/Shelves Kit: Shelves are 15" diameter full and half round cordierite shelves. Each post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all Dimensions and Weights: See hotkilns.com/jupiter-dimensions.pdf



Furniture kit for a J18-3.



Furniture kit for a J18X-3.

ELECTRICAL SPECIFICATIONS

Standard Models						
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size
J18-3-240	K-J-180D/31	240/1P	5,520	23.0	10 ga	30 a
J18-3-240-3P	K-J-180D/32	240/3P	5,520	19.9	10 ga	30 a
J18-3-208	K-J-180D/21	208/1P	5,520	26.5	10 ga	30 a
J18-3-208-3P	K-J-180D/22	208/3P	5,520	23.0	10 ga	30 a
J18X-3-240	K-J-18XD/31	240/1P	8,280	34.5	6 ga	50 a
J18X-3-240-3P	K-J-18XD/32	240/3P	8,280	19.9	10 ga	30 a
J18X-3-208	K-J-18XD/21	208/1P	8,280	39.8	6 ga	50 a
J18X-3-208-3P	K-J-18XD/22	208/3P	8,280	23.0	10 ga	30 a

UL Listing: All the above models are c-MET-us listed.

Power Connection: Single phase models have a NEMA 6-50 plug. Three phase models have a NEMA 15-50 plug.

Jupiter (Manual)

J2300 Series

23" Diameter Automatic Sectional Kilns • Cone 10 • 2-1/2" Brick

FEATURES

Temperature Rating: All models are Cone 10, 2350°F, 1290°C, except the J23V which is Cone 5).

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that loading is easy.

Hinge: Spring loaded for easy opening while still allowing lid to be supported without supports that get in the way of loading.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two to five 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 2-1/2" K23 firebrick

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 2 elements per 9" high section. Wired in series.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that mounts to the element connection boxes. Cords from sections plug into this panel. The control panel is hinged for easy access and maintenance. Control box can be easily removed for servicing.

Control: Orton Kiln Sitter/Timer is mounted in a separate box on the outside of the kiln. Each section is controlled with separate infinitely adjustable switches.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Relays: Mercury free relays.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list.

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.



This was the original L&L kiln that has lasted more than 40 years in production.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Vent System: Vent-Sure downdraft vent (See hotkilns.com/vent.pdf)

Tru-View Digital Pyrometer System: Multi-zone pyrometers let you control your manual zoned kiln with more accurate temperature readings and better control of temperature gradients. See separate specification sheet "Spec-Tru-View". (See hotkilns.com/spec-tru-view.pdf)

Powered Bottom: Available on all J2300 Series kilns. There is one extra element on the bottom.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
J23V	18"	4.7	1 full, 4 half shelves	H-J-K230/00	32" W x 31" H x 45" D	44" W x 55" H x 44" D	275 lbs	350 lbs
J230V	27"	7.0	2 full, 4 half shelves	H-J-K23X/00	32" W x 40" H x 45" D	44" W x 60" H x 44" D	330 lbs	425 lbs
J236V	36"	9.4	3 full, 4 half shelves	H-J-K236/00	32" W x 49" H x 45" D	44" W x 63" H x 44" D and 36" W x 20" H x 36" D	360 lbs	455 lbs
J245V	45"	11.8	4 full, 4 half shelves	H-J-K245/00	32" W x 58" H x 45" D	44" W x 60" H x 44" D and 44" W x 38" H x 44" D	445 lbs	560 lbs

Crosssection of Inside: 10 sided polygon, 22" in diameter.

Minimum Space Requirements: 54" wide x 52-1/2" deep.

Furniture/Shelves Kit: Shelves are 21" diameter full and half round cordierite shelves. Each post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all dimensions and weights: See hotkilns.com/jupiter-dimensions.pdf



Furniture kit for a J23V.



Furniture kit for a J230V.



Furniture kit for a J236V.



Furniture kit for a J245V.

ELECTRICAL SPECIFICATIONS

Standard Models							Powered Bottom Models					
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size	Model Number	Part Number	Watts	Amps	Wire Size	Fuse Size
J23V-240	K-J-230H/31	240/1P	7,036	29.3	8 ga	40 a	J23V-PB-240	K-J-230P/31	8,800	36.6	6 ga	50 a
J23V-240-3P	K-J-230H/32	240/3P	7,036	25.4	8 ga	40 a	J23V-PB-240-3P	K-J-230P/32	8,800	25.4	8 ga	40 a
J23V-208	K-J-230H/21	208/1P	6,096	29.3	8 ga	40 a	J23V-PB-208	K-J-230P/21	7,620	36.6	6 ga	50 a
J23V-208-3P	K-J-230H/22	208/3P	6,096	25.4	8 ga	40 a	J23V-PB-208-3P	K-J-230P/22	7,620	25.4	8 ga	40 a
J230V-240	K-J-231H/31	240/1P	10,554	44.0	6 ga	60 a	J230V-PB-240	K-J-231P/31	12,300	51.3	4 ga	70 a
J230V-240-3P	K-J-231H/32	240/3P	10,554	25.4	8 ga	40 a	J230V-PB-240-3P	K-J-231P/32	12,300	31.7	6 ga	50 a
J230V-208	K-J-231H/21	208/1P	9,144	44.0	6 ga	60 a	J230V-PB-208	K-J-231P/21	10,700	51.3	4 ga	70 a
J230V-208-3P	K-J-231H/22	208/3P	9,144	25.4	8 ga	40 a	J230V-PB-208-3P	K-J-231P/22	10,700	31.7	6 ga	50 a
J236V-240	K-J-236H/31	240/1P	14,072	58.6	3 ga	80 a	J236V-PB-240	K-J-236P/31	15,800	65.9	2 ga	90 a
J236V-240-3P	K-J-236H/32	240/3P	14,702	38.1	6 ga	50 a	J236V-PB-240-3P	K-J-236P/32	15,800	44.4	6 ga	60 a
J236V-208	K-J-236H/21	208/1P	12,192	58.6	3 ga	80 a	J236V-PB-208	K-J-236P/21	13,700	65.9	2 ga	90 a
J236V-208-3P	K-J-236H/22	208/3P	12,192	38.1	6 ga	50 a	J236V-PB-208-3P	K-J-236P/22	13,700	44.4	6 ga	60 a
J245V-240	K-J-245H/31	240/1P	17,590	73.3	1 ga	100 a	J245V-PB-240	K-J-245P/31	19,400	80.6	1 ga	100 a
J245V-240-3P	K-J-245H/32	240/3P	17,590	50.8	4 ga	70 a	J245V-PB-240-3P	K-J-245P/32	19,400	50.8	4 ga	70 a
J245V-208	K-J-245H/21	208/1P	15,240	73.3	1 ga	100 a	J245V-PB-208	K-J-245P/21	16,800	80.6	1 ga	100 a
J245V-208-3P	K-J-245H/22	208/3P	15,240	50.8	4 ga	70 a	J245V-PB-208-3P	K-J-245P/22	16,800	50.8	4 ga	70 a

Cone/Temperature Rating: Cone 10, 2350°F, 1290°C (except J23V which is rated for Cone 5, 2165°F, 1185°C)

UL Listing: All the above models are c-MET-us listed.

Power Connection: Single phase models up to 48 amps have a NEMA 6-50 plug. Three phase models up to 48 amps have a NEMA 15-50 plug. All other models are direct wire to a fused disconnect switch.

Jupiter (Manual)

J2300-3 Series

22" Diameter Manual Sectional Kilns • Cone 10 • 3" Brick

FEATURES

Temperature Rating: All models are Cone 10, 2350°F, 1290°C, except the J23V-3 which is Cone 5).

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that loading is easy.

Hinge: Spring loaded for easy opening while still allowing lid to be supported without supports that get in the way of loading.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two to five 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 3" K23 firebrick

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 2 elements per 9" high section. Wired in series.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that mounts to the element connection boxes. Cords from sections plug into this panel. The control panel is hinged for easy access and maintenance. Control box can be easily removed for servicing.

Control: Orton Kiln Sitter/Timer is mounted in a separate box on the outside of the kiln. Each section is controlled with separate infinitely adjustable switches.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Relays: Mercury free relays.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list.

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.



A J23V is shown with two sections.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Vent System: Vent-Sure downdraft vent (See hotkilns.com/vent.pdf)

Tru-View Digital Pyrometer System: Multi-zone pyrometers let you control your manual zoned kiln with more accurate temperature readings and better control of temperature gradients. See separate specification sheet "Spec-Tru-View". (See hotkilns.com/spec-tru-view.pdf)

Powered Bottom: Available on all J2300-3 Series kilns. There is one extra element on the bottom.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
J23V-3	18"	4.5	1 full, 4 half shelves	H-J-K230/30	32" W x 32" H x 45" D	44" W x 55" H x 44" D	315 lbs	340 lbs
J230V-3	27"	6.7	2 full, 4 half shelves	H-J-K23X/30	32" W x 41" H x 45" D	44" W x 60" H x 44" D	385 lbs	470 lbs
J236V-3	36"	8.9	3 full, 4 half shelves	H-J-K236/30	32" W x 50" H x 45" D	44" W x 63" H x 44" D and 36" W x 20" H x 36" D	460 lbs	545 lbs
J245V-3	45"	11.1	4 full, 4 half shelves	H-J-K245/30	32" W x 59" H x 45" D	44" W x 60" H x 44" D and 44" W x 38" H x 44" D	540 lbs	650 lbs

Crosssection of Inside: 10 sided polygon, 22" in diameter.

Minimum Space Requirements: 54" wide x 52-1/2" deep.

Furniture/Shelves Kit: Shelves are 20" diameter full and half round cordierite shelves. Each post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all Dimensions and Weights: See hotkilns.com/jupiter-dimensions.pdf



Furniture kit for a J23V-3.



Furniture kit for a J230V-3.



Furniture kit for a J236V-3.



Furniture kit for a J245V-3.

ELECTRICAL SPECIFICATIONS

Standard Models							Powered Bottom Models					
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size	Model Number	Part Number	Watts	Amps	Wire Size	Fuse Size
J23V-3-240	K-J-230D/31	240/1P	7,036	29.3	8 ga	40 a	J23V-3-PB-240	K-J-230B/31	8,800	36.6	6 ga	50 a
J23V-3-240-3	K-J-230D/32	240/3P	7,036	25.4	8 ga	40 a	J23V-3-PB-240-3	K-J-230B/32	8,800	25.4	8 ga	40 a
J23V-3-208	K-J-230D/21	208/1P	6,096	29.3	8 ga	40 a	J23V-3-PB-208	K-J-230B/21	7,620	36.6	6 ga	50 a
J23V-3-208-3	K-J-230D/22	208/3P	6,096	25.4	8 ga	40 a	J23V-3-PB-208-3	K-J-230B/22	7,620	25.4	8 ga	40 a
J230V-3-240	K-J-231D/31	240/1P	10,554	44.0	6 ga	60 a	J230V-3-PB-240	K-J-231B/31	12,300	51.3	4 ga	70 a
J230V-3-240-3	K-J-231D/32	240/3P	10,554	25.4	8 ga	40 a	J230V-3-PB-240-3	K-J-231B/32	12,300	31.7	6 ga	50 a
J230V-3-208	K-J-231D/21	208/1P	9,144	44.0	6 ga	60 a	J230V-3-PB-208	K-J-231B/21	10,700	51.3	4 ga	70 a
J230V-3-208-3	K-J-231D/22	208/3P	9,144	25.4	8 ga	40 a	J230V-3-PB-208-3	K-J-231B/22	10,700	31.7	6 ga	50 a
J236V-3-240	K-J-236D/31	240/1P	14,072	58.6	3 ga	80 a	J236V-3-PB-240	K-J-236B/31	15,800	65.9	2 ga	90 a
J236V-3-240-3	K-J-236D/32	240/3P	14,072	38.1	6 ga	50 a	J236V-3-PB-240-3	K-J-236B/32	15,800	44.4	6 ga	60 a
J236V-3-208	K-J-236D/21	208/1P	12,192	58.6	3 ga	80 a	J236V-3-PB-208	K-J-236B/21	13,700	65.9	2 ga	90 a
J236V-3-208-3	K-J-236D/22	208/3P	12,192	38.1	6 ga	50 a	J236V-3-PB-208-3	K-J-236B/22	13,700	44.4	6 ga	60 a
J245V-3-240	K-J-245D/31	240/1P	17,590	73.3	1 ga	100 a	J245V-3-PB-240	K-J-245B/31	19,400	80.6	1 ga	100 a
J245V-3-240-3	K-J-245D/32	240/3P	17,590	50.8	4 ga	70 a	J245V-3-PB-240-3	K-J-245B/32	19,400	50.8	4 ga	70 a
J245V-3-208	K-J-245D/21	208/1P	15,240	73.3	1 ga	100 a	J245V-3-PB-208	K-J-245B/21	16,800	80.6	1 ga	100 a
J245V-3-208-3	K-J-245D/22	208/3P	15,240	50.8	4 ga	70 a	J245V-3-PB-208-3	K-J-245B/22	16,800	50.8	4 ga	70 a

Cone/Temperature Rating: Cone 10, 2350°F, 1290°C (except J23V-3 which is rated for Cone 5, 2165°F, 1185°C)

UL Listing: All the above models are c-MET-us listed.

Power Connection: Single phase models up to 48 amps have a NEMA 6-50 plug. Three phase models up to 48 amps have a NEMA 15-50 plug. All other models are direct wire to a fused disconnect switch.

Jupiter (Manual)

J2900 Series

29" Diameter Manual Sectional Kilns • Cone 10 (most models) • 2-1/2" Brick

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C (except J2918 which is Cone 5)

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that loading is easy.

Hinge: Spring loaded for easy opening while still allowing lid to be supported without supports that get in the way of loading.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two to five 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 2-1/2" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 3 elements per 9" high section.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that mounts to the element connection boxes. Cords from sections plug into this panel. The control panel is hinged for easy access and maintenance. Control box can be easily removed for servicing.

Control: Orton Kiln Sitter/Timer is mounted in a separate box on the outside of the kiln. Each section is controlled with separate infinitely adjustable switches.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Relays: Mercury free relays.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list.

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.

OPTIONS

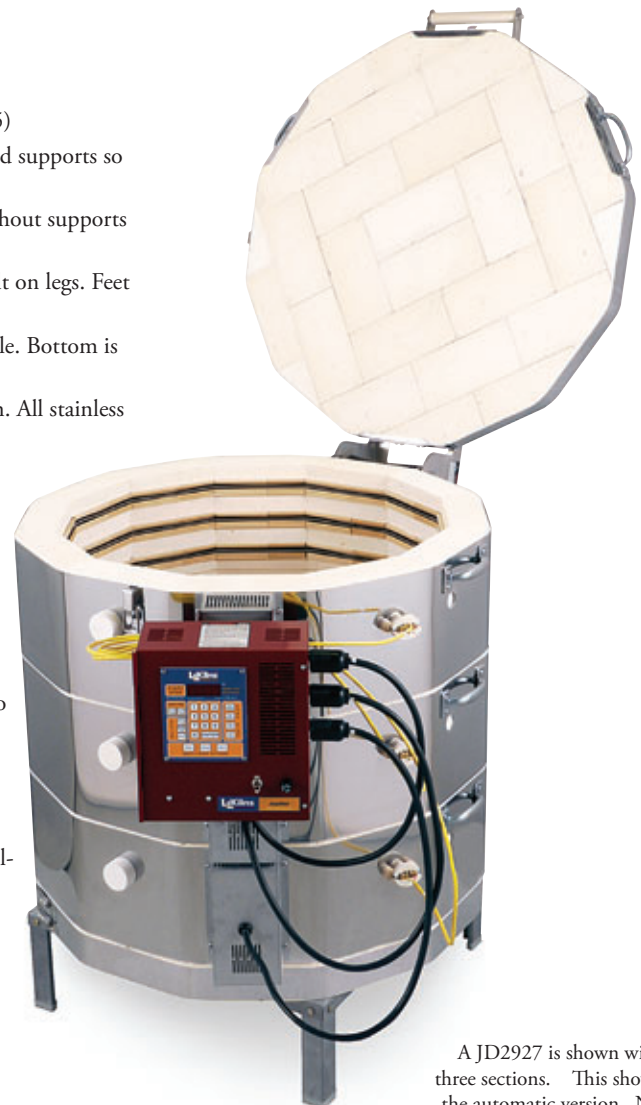
Furniture Kits: See Dimension & Hearth Specifications.

Vent System: Vent-Sure downdraft vent (See hotkilns.com/vent.pdf)

Tru-View Digital Pyrometer System: Multi-zone pyrometers let you control your manual zoned kiln with more accurate temperature readings and better control of temperature gradients. See separate specification sheet "Spec-Tru-View". (See hotkilns.com/spec-tru-view.pdf)

480 Volts: 480 volts/ 3 phase uses 277 volt elements in a "Wye" electrical configuration for a balanced circuit (see hotkilns.com/480.pdf). Available without a NEMA 1 Control Panel at a lower cost, however this panel is required to maintain the c-MET-us listing.

Powered Bottom: Available on all J2900 Series kilns. There are two extra elements on the bottom.



A JD2927 is shown with three sections. This shows the automatic version. No photo is available of the manual version at this time. However, see the photo on the J1800 series to see what the panel and Kiln Sitter mounting look like.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
J2918	18"	6.9	6 shelves	H-J-K290/00	40" W x 31" H x 50" D	48" W x 55" H x 44" D	335 lbs	440 lbs
J2927	27"	10.3	8 shelves	H-J-K292/00	40" W x 40" H x 50" D	48" W x 60" H x 44" D	390 lbs	520 lbs
J2936	36"	13.8	10 shelves	H-J-K293/00	40" W x 49" H x 50" D	48" W x 63" H x 44" D and 36" W x 20" H x 36" D	480 lbs	635 lbs
J2945	45"	17.2	12 shelves	H-J-K294/00	40" W x 58" H x 50" D	48" W x 60" H x 44" D and 48" W x 38" H x 44" D	575 lbs	755 lbs

Crosssection of Inside: 12 sided polygon, 29" in diameter.

Minimum Space Requirements: 58" wide x 58" deep.

Furniture/Shelves Kit: Shelves are 26" diameter half round cordierite shelves. Each post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all Dimensions and Weights: See hotkilns.com/jupiter-dimensions.pdf



Furniture kit for a J2918.



Furniture kit for a J2927.



Furniture kit for a J2936.



Furniture kit for a J2945.

ELECTRICAL SPECIFICATIONS

Standard Models							Powered Bottom Models					
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size	Model Number	Part Number	Watts	Amps	Wire Size	Fuse Size
J2918-240	K-J-291H/31	240/1P	9,120	38.0	6 ga	50 a	J2918-PB-240	K-J-291P/31	12,160	50.7	4 ga	70 a
J2918-240-3P	K-J-291H/32	240/3P	9,120	32.9	6 ga	50 a	J2918-PB-240-3P	K-J-291P/32	12,160	32.9	6 ga	50 a
J2918-208	K-J-291H/21	208/1P	8,320	40.0	6 ga	50 a	J2918-PB-208	K-J-291P/21	11,093	53.3	4 ga	70 a
J2918-208-3P	K-J-291H/22	208/3P	8,320	34.6	6 ga	50 a	J2918-PB-208-3P	K-J-291P/22	11,093	34.6	6 ga	50 a
J2927-240	K-J-292H/31	240/1P	13,680	57.0	3 ga	80 a	J2927-PB-240	K-J-292P/31	16,720	69.7	2 ga	90 a
J2927-240-3P	K-J-292H/32	240/3P	13,680	32.9	6 ga	50 a	J2927-PB-240-3P	K-J-292P/32	16,720	43.9	6 ga	60 a
J2927-208	K-J-292H/21	208/1P	12,480	60.0	3 ga	80 a	J2927-PB-208	K-J-292P/21	15,250	73.3	2 ga	90 a
J2927-208-3P	K-J-292H/22	208/3P	12,480	34.6	6 ga	50 a	J2927-PB-208-3P	K-J-292P/22	15,250	46.2	6 ga	60 a
J2936-240	K-J-293H/31	240/1P	18,240	76.0	1 ga	100 a	J2936-PB-240	K-J-293P/31	21,280	88.7	1/0	125 a
J2936-240-3P	K-J-293H/32	240/3P	18,240	49.3	4 ga	70 a	J2936-PB-240-3P	K-J-293P/32	21,280	60.3	3 ga	80 a
J2936-208	K-J-293H/21	208/1P	16,640	80.0	1 ga	100 a	J2936-PB-208	K-J-293P/21	19,413	93.3	1/0	125 a
J2936-208-3P	K-J-293H/22	208/3P	16,640	52.0	4 ga	70 a	J2936-PB-208-3P	K-J-293P/22	19,413	63.5	3 ga	80 a
J2945-240	K-J-294H/31	240/1P	22,800	95.0	1/0	125 a	J2945-PB-240	K-J-294P/31	25,840	107.7	2/0	150 a
J2945-240-3P	K-J-294H/32	240/3P	22,800	65.8	2 ga	90 a	J2945-PB-240-3P	K-J-294P/32	25,840	65.8	2 ga	90 a
J2945-208	K-J-294H/21	208/1P	20,800	100.0	1/0	125 a	J2945-PB-208	K-J-294P/21	23,573	113.3	2/0	150 a
J2945-208-3P	K-J-294H/22	208/3P	20,800	69.3	2 ga	90 a	J2945-PB-208-3P	K-J-294P/22	23,573	69.3	2 ga	90 a

Cone/Temperature Rating: Cone 10, 2350°F, 1290°C (except J2918 which is rated for Cone 5, 2165°F, 1185°C)

UL Listing: All models are c-MET-us listed. 480 models are c-MET-us listed as long as a NEMA1 panel is used.

480 Volt Electrical Requirements: See hotkilns.com/480.html.

Power Connection: Direct hook up to fused disconnect switch.

Jupiter (Manual)

J2900-3 Series

29" Diameter Manual Sectional Kilns • Cone 10 (most models) • 3" Brick

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C (except J2918-3 which is Cone 5)

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that loading is easy.

Hinge: Spring loaded for easy opening while still allowing lid to be supported without supports that get in the way of loading.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two to five 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 3" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 3 elements per 9" high section.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that mounts to the element connection boxes. Cords from sections plug into this panel. The control panel is hinged for easy access and maintenance. Control box can be easily removed for servicing.

Control: Orton Kiln Sitter/Timer is mounted in a separate box on the outside of the kiln. Each section is controlled with separate infinitely adjustable switches.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Relays: Mercury free relays.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list.

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Vent System: Vent-Sure downdraft vent (See hotkilns.com/vent.pdf)

Tru-View Digital Pyrometer System: Multi-zone pyrometers let you control your manual zoned kiln with more accurate temperature readings and better control of temperature gradients. See separate specification sheet "Spec-Tru-View". (See hotkilns.com/spec-tru-view.pdf)

480 Volts: 480 volts/ 3 phase uses 277 volt elements in a "Wye" electrical configuration for a balanced circuit (see hotkilns.com/480.pdf). Available without a NEMA 1 Control Panel at a lower cost, however this panel is required to maintain the c-MET-us listing.

Powered Bottom: Available on all J2900-3 Series kilns. There are two extra elements on the bottom.



A JD2927 is shown with three sections. This shows the automatic version. No photo is available of the manual version at this time. However, see the photo on the J1800 series to see what the panel and Kiln Sitter mounting look like.



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Height	Cubic Feet	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Weight Kiln Only	Ship Weight Kiln + Kit
J2918-3	18"	6.8	6 shelves	H-J-K290/00	40" W x 32" H x 50" D	48" W x 55" H x 44" D	380 lbs	480 lbs
J2927-3	27"	10.2	8 shelves	H-J-K292/00	40" W x 41" H x 50" D	48" W x 60" H x 44" D	450 lbs	575 lbs
J2936-3	36"	13.6	10 shelves	H-J-K293/00	40" W x 50" H x 50" D	48" W x 63" H x 44" D and 36" W x 20" H x 36" D	565 lbs	715 lbs
J2945-3	45"	17	12 shelves	H-J-K294/00	40" W x 59" H x 50" D	48" W x 60" H x 44" D and 48" W x 38" H x 44" D	645 lbs	820 lbs

Crosssection of Inside: 12 sided polygon, 28" in diameter.

Minimum Space Requirements: 58" wide x 58" deep.

Furniture/Shelves Kit: Shelves are 26" diameter half round cordierite shelves. Each post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves and 5 pounds of cone 10 kiln wash.

General Dimension Drawings: See each model page on hotkilns.com to download PDF drawings.

For all Dimensions and Weights: See hotkilns.com/jupiter-dimensions.pdf



Furniture kit for a J2918-3.



Furniture kit for a J2927-3.



Furniture kit for a J2936-3.



Furniture kit for a J2945-3.

ELECTRICAL SPECIFICATIONS

Standard Models							Powered Bottom Models					
Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size	Model Number	Part Number	Watts	Amps	Wire Size	Fuse Size
J2918-3-240	K-J-291D/31	240/1P	9,120	38.0	6 ga	50 a	J2918-3-PB-240	K-J-291B/31	12,160	50.7	4 ga	70 a
J2918-3-240-3P	K-J-291D/32	240/3P	9,120	32.9	6 ga	50 a	J2918-3-PB-240-3P	K-J-291B/32	12,160	32.9	6 ga	50 a
J2918-3-208	K-J-291D/21	208/1P	8,320	40.0	6 ga	50 a	J2918-3-PB-208	K-J-291B/21	11,093	53.3	4 ga	70 a
J2918-3-208-3P	K-J-291D/22	208/3P	8,320	34.6	6 ga	50 a	J2918-3-PB-208-3P	K-J-291B/22	11,093	34.6	6 ga	50 a
J2927-3-240	K-J-292D/31	240/1P	13,680	57.0	3 ga	80 a	J2927-3-PB-240	K-J-292B/31	16,720	69.7	2 ga	90 a
J2927-3-240-3P	K-J-292D/32	240/3P	13,680	32.9	6 ga	50 a	J2927-3-PB-240-3P	K-J-292B/32	16,720	43.9	6 ga	60 a
J2927-3-208	K-J-292D/21	208/1P	12,480	60.0	3 ga	80 a	J2927-3-PB-208	K-J-292B/21	15,250	73.3	2 ga	90 a
J2927-3-208-3P	K-J-292D/22	208/3P	12,480	34.6	6 ga	50 a	J2927-3-PB-208-3P	K-J-292B/22	15,250	46.2	6 ga	60 a
J2936-3-240	K-J-293D/31	240/1P	18,240	76.0	1 ga	100 a	J2936-3-PB-240	K-J-293B/31	21,280	88.7	1/0	125 a
J2936-3-240-3P	K-J-293D/32	240/3P	18,240	49.3	4 ga	70 a	J2936-3-PB-240-3P	K-J-293B/32	21,280	60.3	3 ga	80 a
J2936-3-208	K-J-293D/21	208/1P	16,640	80.0	1 ga	100 a	J2936-3-PB-208	K-J-293B/21	19,413	93.3	1/0	125 a
J2936-3-208-3P	K-J-293D/22	208/3P	16,640	52.0	4 ga	70 a	J2936-3-PB-208-3P	K-J-293B/22	19,413	63.5	3 ga	80 a
J2945-3-240	K-J-294D/31	240/1P	22,800	95.0	1/0	125 a	J2945-3-PB-240	K-J-294B/31	25,840	107.7	2/0	150 a
J2945-3-240-3P	K-J-294D/32	240/3P	22,800	65.8	2 ga	90 a	J2945-3-PB-240-3P	K-J-294B/32	25,840	65.8	2 ga	90 a
J2945-3-208	K-J-294D/21	208/1P	20,800	100.0	1/0	125 a	J2945-3-PB-208	K-J-294B/21	23,573	113.3	2/0	150 a
J2945-3-208-3P	K-J-294D/22	208/3P	20,800	69.3	2 ga	90 a	J2945-3-PB-208-3P	K-J-294B/22	23,573	69.3	2 ga	90 a

Cone/Temperature Rating: Cone 10, 2350°F, 1290°C (except JD2918-3 which is rated for Cone 5, 2165°F, 1185°C)

UL Listing: All models are c-MET-us listed. 480 models are c-MET-us listed as long as a NEMA1 panel is used.

480 Volt Electrical Requirements: See hotkilns.com/480.html.

Power Connection: Direct hook up to fused disconnect switch.

Simple Inexpensive Manual Top-Loading Kilns • 2.6 to 10.2 Cubic Feet

FEATURES

Temperature Rating: Most models are Cone 10, 2350°F, 1290°C, the exception is the D28T. See Specifications.

Loading: Lid position, when open, rests at an angle away from the kiln without lid supports so that loading is easy.

Hinge: Spring loaded for easy opening while still allowing lid to be supported without supports that get in the way of loading. (The D18S, D18T, D23S, & D23T lids are not spring loaded. They are instead supported by chains although the spring hinge is an option.)

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two or three 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 2-1/2" or 3" K23 firebrick. See Specifications.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 2 elements per 9" high section.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a separate control panel that is piggy-backed to the element connection box. A layer of insulation and this separation helps keep the switches cool. The control panel and element box are hinged for easy access and maintenance. Control box can be easily removed for servicing.

Control: Orton Kiln Sitter/Timer is mounted in a separate box on the outside of the kiln.

Switches: Each section is controlled with separate Hi-Medium-Low switches. These simple switches work by allowing either full voltage through both elements (High), full voltage through one element (Medium), or half voltage through both elements (Low).

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Power Cord/Plug: 50 Amp NEMA 6-50 six foot cord included.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. In addition web videos show how to assemble the kiln. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

OPTIONS

Spring Hinge: The spring loaded hinge is available for the D23S & D23T kilns.

Furniture Kits: See Dimension & Hearth Specifications.

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)



The simple, inexpensive, manual, top-loading Dura-Fire kiln meets the needs of potters and others who need an extremely durable yet inexpensive manual kiln. Everything about this kiln is designed for easy maintenance and rugged reliability. The elements used are the same heavy-duty elements used on L&L's Easy-Fire kilns. The high-medium-low turn-up switches extend element life by using low voltage for low heat and reducing the amount of switching to the elements. The elements, control panel, Dawson kiln sitter/timer are all incredibly easy and logical to work on.

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Dimensions	Cubic Feet	Brick Thick	Furniture Kit	Furn Kit Part No.	Outside Dimensions	Shipping Dimensions (w Kit)	Ship Wght Kiln Only	Ship Wght Kiln + Kit
D18S	17-1/2"D x 18"H	2.6	2-1/2"	(1) 15-1/2" full, (4) half	H-E-K18S/00	29" W x 31" H x 30" D	36" W x 55" H x 36" D	190 lbs	245 lbs
D18S-3	16-1/2"D x 18"H	2.5	3"	(1) 15" full, (4) half	H-E-K18S/30	29" W x 31" H x 30" D	36" W x 55" H x 36" D	220 lbs	255 lbs
D18T	17-1/2"D x 27"H	3.9	2-1/2"	(2) 15-1/2" full, (4) half	H-E-K18T/00	29" W x 40" H x 30" D	36" W x 60" H x 36" D	230 lbs	305 lbs
D18T-3	16-1/2"D x 27"H	3.7	3"	(2) 15" full, (4) half	H-E-K18T/30	29" W x 40" H x 30" D	36" W x 60" H x 36" D	255 lbs	325 lbs
D23S	23 3/8"D X 18"H	4.7	2-1/2"	(1) 21" full, (4) half	H-E-K23S/00	31" W x 32" H x 42" D	44" W x 55" H x 44" D	265 lbs	350 lbs
D23S-3	22 3/8"D X 18"H	4.5	3"	(1) 20" full, (4) half	H-E-K23S/30	31" W x 33" H x 42" D	44" W x 55" H x 44" D	305 lbs	400 lbs
D23T	23 3/8"D X 27"H	7.0	2-1/2"	(2) 21" full, (4) half	H-E-K23T/00	31" W x 41" H x 42" D	44" W x 60" H x 44" D	325 lbs	420 lbs
D23T-3	22 3/8"D X 27"H	6.7	3"	(2) 20" full, (4) half	H-E-K23T/30	31" W x 42" H x 42" D	44" W x 60" H x 44" D	360 lbs	455 lbs
D28S-3	28 "D X 18"H	6.8	3"	(6) 26" half	H-E-K28S/00	37" W x 33" H x 48" D	48" W x 55" H x 44" D	370 lbs	470 lbs
D28T-3	28 "D X 27"H	10.2	3"	(8) 26" half	H-E-K28T/00	37" W x 42" H x 48" D	48" W x 60" H x 44" D	460 lbs	565 lbs

Minimum Space Requirements: See corresponding Easy-Fire model for this information.

Furniture / Accessory Kit: Shelves as listed above. Each kit also includes a post kit with six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts as well as heat-resistant gloves and 5 pounds of cone 10 kiln wash.

Moving and installation: This comes assembled but can be quickly disassembled and reassembled to move through any door or up stairs. It comes packed in a skidded carton with secure foam-in-place packaging.

General Dimension Drawings: See hotkilns.com to download PDF drawings for equivalent Easy-Fire models.



Furniture kit for a D23T

ELECTRICAL SPECIFICATIONS

Model Number	Part Number	Brick Thick	Cone	Volts	Watts	Amps	Wire Size	Fuse Size
D18S-240	K-C-18SX/31	2-1/2"	10	240	6,380	26.6	8 ga	40 Amps
D18S-208	K-C-18SX/21	2-1/2"	10	208	5,540	26.6	8 ga	40 Amps
D18S-3-240	K-C-18S3/31	3"	10	240	6,380	26.6	8 ga	40 Amps
D18S-3-208	K-C-18S3/21	3"	10	208	5,540	26.6	8 ga	40 Amps
D18T-240	K-C-18TX/31	2-1/2"	10	240	9,570	40.0	6 ga	50 Amps
D18T-208	K-C-18TX/21	2-1/2"	10	208	8,310	39.8	6 ga	50 Amps
D18T-3-240	K-C-18T3/31	3"	10	240	9,570	40.0	6 ga	50 Amps
D18T-3-208	K-C-18T3/21	3"	10	208	8,310	39.8	6 ga	50 Amps
D23S-240	K-C-23SX/31	2-1/2"	10	240	9,460	39.4	6 ga	50 Amps
D23S-208	K-C-23SX/21	2-1/2"	10	208	8,320	40.0	6 ga	50 Amps
D23S-3-240	K-C-23S3/31	3"	10	240	9,460	39.4	6 ga	50 Amps
D23S-3-208	K-C-23S3/21	3"	10	208	8,320	40.0	6 ga	50 Amps
D23T-240	K-C-23TX/31	2-1/2"	10	240	11,520	48.0	6 ga	60 Amps
D23T-208	K-C-23TX/21	2-1/2"	10	208	9,980	48.0	6 ga	60 Amps
D23T-3-240	K-C-23T3/31	3"	10	240	11,520	48.0	6 ga	60 Amps
D23T-3-208	K-C-23T3/21	3"	10	208	9,980	48.0	6 ga	60 Amps
D28S-3-240	K-C-28SX/31	3"	10	240	11,500	47.9	6 ga	60 Amps
D28S-3-208	K-C-28SX/21	3"	10	208	9,980	48.0	6 ga	60 Amps
D28T-3-240	K-C-28TX/31	3"	8	240	11,520	48.0	6 ga	60 Amps
D28T-3-208	K-C-28TX/21	3"	5	208	9,980	48.0	6 ga	60 Amps

UL Listing: Not listed.

Power connection: A 50 amp NEMA 6-50 six foot plug is included. (No neutral is necessary). May be direct wired. Single Phase only.

Corona PMC, Glass and Heat Treating Kilns

CORONA PMC, Glass and Heat Treating Kilns

CORONA PMC, Glass and Heat Treating Kilns



FEATURES

Temperature Rating: 1100°C, 2012°F

Loading: Front loading with horizontal plug door hinged on left. Spring-loaded latch.

Window: Quartz window is 2-1/2" (6.4 cm) wide by x 1" (2.5 cm) high. Centered in door.

Vent: .5" (1.3 cm) vent hole in top.

Construction: Base with control is integrated into the kiln. Powder-coated precision sheet metal. All controls and components are mounted in a control panel that slides into the ventilated case assembly. An air space keeps controls cool. The control box can be easily removed for servicing. An On/Off switch and control fuse are included. Rubber feet are included.

Insulation: 1-1/2" (3.8 cm) molded ceramic fiber with a 3/4" (1.9 cm) air space between the case and the insulation module. Door has an insulating plug that insets into the muffle opening for an excellent door seal.

Elements: Two elements, one on each side. Elements are molded into the machined ceramic fiber insulation module.

Control: Orton Autofire Express with five PMC (Precious Metal Clay) programs, 3 ACS (Art Clay) programs and 12 Custom Programs each with 8 segments. Each program has 8 segments with a ramp, soak and set point for each segment.

Thermocouple: Type K 14 gauge located in the center back.

Warranty: One year limited warranty.

SPECIFICATIONS

Model Number: CN868

Heat up time with no load: 15 minutes to 1600°F. 30 minutes to 1900°F.

Inside Dimensions: 7-3/4" (19.7 cm) wide by 8-1/4" (20.9 cm) deep by 5-3/4" (14.6 cm) high

Outside Dimensions: 13" (33 cm) Wide by 14" (35.6 cm) Deep by 14-3/4" (37.5 cm) High

Shipping Dimensions: 16" (40.6 cm) Wide by 16" (40.6 cm) Deep by 19" (48.3 cm) High

Kiln Weight: 30 lbs (13.6 Kg)

Shipping Weight: 35 lbs (15.9 Kg)

Electrical Specifications: 12 amps, 120 volts, 1440 watts

Power Cord/Plug: Included 6 foot cord with a 15 amp 5-15P plug



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



Bulletin No: Spec-CN-11-11

Chameleon

Tabletop Glass Kiln

Super-Safe Hobby Kiln for Glass, Low Fire Ceramics and PMC

FEATURES

Application: Great for most fired arts. Fuse glass, rake glass, china paint, low-fired ceramic bisque & glaze, PMC precious metal, and heat treat knives.

Temperature Rating: See Specifications. Either 2000°F (1100°C) at 120 volts or 2200°F (1200°C) at 208 to 240 volts.

Loading: Top-loading.

Base: Aluminized heavy gauge base and hinge. This is attached to the kiln.

Construction: Square kiln is wrapped with stainless steel.

Insulation: 2-1/2" K23 firebrick with 3" lid.

Door Plug: Brick lid has an inset plug.

Brick Coating: Proprietary brick coating included.

Element Holders: Hard Ceramic element holders prevent most dusting typically found when elements are pinned into firebrick tops. This is a unique feature perfected by L&L kilns.

Elements: One element on top.

Control Panel: The base is the control panel. 25 amp relay controls power to kiln. Control is mounted in base. An on/off circuit breaker that turns off all power to the kiln is included.

Control: Bartlett 3-button controller comes with four programs that can be easily modified. Also includes Delay, Program & Segment Review, and Diagnostics.

Door Shut Off Switch: Power switch shuts off power when the lid is opened.

Thermocouple: Exposed Type K 8 gauge.

Peephole Plug: One solid ceramic 1" diameter plug in the front.

Hearth Plate: A 12" x 12" hearth plate, along with four 1" high triangular ceramic posts, is included.

Instructions: Complete instruction manual with visual images included.

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

Plug: 120 volt model includes a 20 amp power cord. 208-240 volt model includes a 30 amp power cord.

OPTIONS

Voltage: 120 volt or 208-240 volt option.



The Chameleon kiln is perfect for home hobby and professional studio and school use.

Chameleon Tabletop Glass Kiln



505 Sharptown Road • Swedesboro, NJ 08085
Phone: 856.294.0077 • Fax: 856.294.0070
Email: sales@hotkilns.com • Web: www.hotkilns.com



L&L Kiln's patented hard ceramic element holders protect your kiln.

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Cubic Feet	Furniture Kit	Outside Dimensions	Shipping Dimensions	Ship Weight Kiln + Kit
CH12-6	0.69	1 shelf, 1 post kit	19" W x 19" H x 24-1/4" D	36" W x 34" H x 36" D	150 lbs
CH12-9	0.94	1 shelf, 1 post kit	19" W x 21-1/2" H x 24-1/4" D	36" W x 34" H x 36" D	160 lbs

Inside Dimensions: 13-1/2 x 13-1/2 interior (34.4cm): perfect for glass projects. 9" (22.9cm) depth (for 208-240 volt version) or 6-1/2" (16.5cm) depth (for 100-120 volt version) allows you to do low-fire ceramic projects in the same kiln!

Minimum Space Requirements: 43" wide by 48-1/4" deep.

Moving and installation: Can be picked up by two people with the four handles. This kiln can be installed on a table top because of the attached base that protects the table top.

Furniture / Accessory Kit: Comes with one 12" square shelf and four 1" triangular posts when the kiln is ordered.

General Dimension Drawing: Not available at this time.



Detail showing the top with hard ceramic element holders that prevent most dusting of the soft firebrick



ELECTRICAL SPECIFICATIONS

Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size
CH12-6	K-M-CHUS/11	120/1P	2,150	18.0	10 ga	20 Amps
CH12-9	K-M-CHUS/31	208-240/1P	2,850	13.0	10 ga	20 Amps

UL Listing: Not listed.

Power connection: A 20 Amp NEMA 5-20 six foot cord is included for the 120 volt model; a 30 Amp NEMA 14-30 six foot cord is included for the 208-240 models. Different cords are included for European models.

Small Multi-Purpose Kilns • 0.78 Cubic Foot • Cone 10

FEATURES

Temperature Rating: Most models are Cone 10, 2350°F, 1290°C, the exceptions are the DL11, the DL11-DB and the DL11-D. See Specifications.

Loading: Lid position, when open, rests at an angle away from the kiln. Chains are used to secure the lid in place when open.

Hinge: The hinge of the Doll/Test kiln is not spring-loaded.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: One 9" high section. Easy to assemble.

Construction: Stainless steel wrapped around brick with 3 clamps. All stainless screws.

Insulation: 2-1/2" K23 firebrick.

Brick Coating: Proprietary brick coating included.

Element Holders: Patented hard ceramic element holders protect brick.

Elements: Heavy-duty. 3 Elements.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a control panel/element control box. A layer of insulation and separation plate helps keep the controls cool. Control box can be easily removed for servicing. On/off switch and control fuse are included.

Control: One-Touch™ Intuitive Kiln Control easily fires the bisque and glaze programs typically used. It is also easy to adjust simple parameters like cone, delay, hold, heat-up, and cool-down rates. Also four custom ramp/hold programs with 8 segments each. (See optional controls below.)

Peephole Plugs: One non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered.

Thermocouples: Exposed Type K 8 gauge with ceramic protection tube.

Power Cord/Plug: Included. See Electrical Specifications.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. Web videos show how to use the control. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).



OPTIONS

DynaTrol Control: Dynatrol with 4 Easy-Fire programs, 6 Vary-Fire programs, Pre-Heat, Delay, Program & Segment Review, and Diagnostics.

Manual Orton Control: Orton AutoCone kiln sitter/timer with an infinite switch to on manual kilns. (Replaces automatic control).

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum or 1/4" pyrocoil metallic sheathed (see hotkilns.com/tc.pdf) for automatic models.

The Doll/Test kilns are meant for small ceramic work such as dolls, for testing glazes without firing a large load, and for other laboratory and home uses. It is available in either manual or automatic versions and in either 15 amp (Cone 5) or 18 amp (Cone 10) versions.

DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Inside Dimensions: 11" diameter by 9" high, 6 sides

Outside Dimensions: 19" wide by 19" high by 23" deep

Minimum Space Requirements: 43" wide by 47" deep.

Shipping Dimensions: 36" by 36" by 25" high (with or without Furniture Kit)

Shipping Weight: 110 pounds for kiln. 130 pounds for kiln with furniture kit.

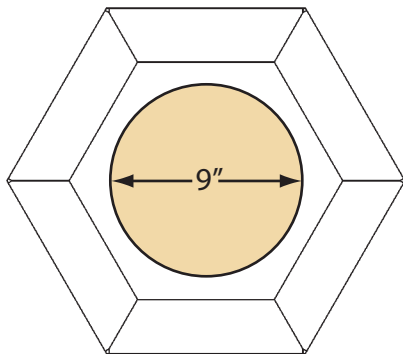
Moving and installation: This comes assembled but can be quickly disassembled and reassembled to move through any door or up stairs. It comes packed in a skidded carton with secure foam-in-place packaging.

Furniture / Accessory Kit: Two 9" full round shelf, one 9" half shelf, four each 1/2", 1", 1-1/2", 2", 2-1/2", and 3" triangular posts plus one pound of Cone 10 kiln wash. (P/N: H-L-/00)

General Dimension Drawings: Not available at this time.



Pictured is a furniture kit for a Doll kiln.



ELECTRICAL SPECIFICATIONS

Model Number	Part Number	Volt/Phase	Watts	Max Cone	Amps	Wire Size	Fuse Size
DL11	K-D-DL11/10	120/1P	1,800	5	15.0	14 ga	20 Amps
DLH11	K-D-DLH1/10	120/1P	2,160	10	18.0	14 ga	25 Amps
DL11-DB	K-D-DL1B/10	120/1P	1,800	5	15.0	14 ga	20 Amps
DL11-D	K-D-DL1D/10	120/1P	1,800	5	15.0	14 ga	20 Amps
DLH11-DB	K-D-DLHB/10	120/1P	2,160	10	18.0	14 ga	25 Amps
DLH11-D	K-D-DLHD/10	120/1P	2,160	10	18.0	14 ga	25 Amps
DLH11-DXB	K-D-DLHB/31	240/1P	2,800	10	11.7	12 ga	20 Amps
DLH11-DX	K-D-DLHD/31	240/1P	2,800	10	11.7	12 ga	20 Amps
DLH11-DXB	K-D-DLHB/21	208/1P	2,800	10	13.5	12 ga	20 Amps
DLH11-DX	K-D-DLHD/21	208/1P	2,800	10	13.5	12 ga	20 Amps

UL Listing: Not listed to UL499 standards.

Power connection: A 15 Amp NEMA 5-15 six foot cord is included for DL 120 volt models. A 20 Amp NEMA 5-20 six foot cord is included for DLH 120 volt models. A 30 Amp NEMA 14-30 six foot cord is included for DLH 208 volt and 240 volt models.

Portable Automatic Top-Loading Kilns • 2.5 or 2.6 Cubic Foot • Cone 10

FEATURES

Temperature Rating: Cone 10, 2350°F, 1290°C

Loading: Lid position, when open, rests at an angle away from the kiln. Chains are used to secure the lid in place when open.

Stand: Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

Assembly: Two 9" high sections stack on top of each other. Easy to assemble. Bottom is reversible.

Construction: Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

Insulation: 2-1/2" or 3" K23 firebrick.

Brick Coating: Reflective coating protects brick and reduces dusting.

Element Holders: Hard ceramic element holders protect brick.

Elements: Heavy-duty. 2 elements per 9" high section.

Element Connections: Proprietary all-ceramic element connection block makes changing elements easy.

Control Panel: All controls and components are mounted in a control panel/element connection box. A layer of insulation and separation plate helps keep the controls cool. Control box can be easily removed for servicing. On/off switch and control fuse are included.

Control: One-Touch™ Intuitive Kiln Control easily fires the bisque and glaze programs typically used. It is also easy to adjust simple parameters like cone, delay, hold, heat-up, and cool-down rates. Also four custom ramp/hold programs with 8 segments each.

Peephole Plugs: Non-fragile solid ceramic with heat-locked head. 1" diameter full-view non-tapered. One per section.

Thermocouples: Exposed Type K 8 gauge.

Relays: Mercury free relays.

Power Cord/Plug: 30 Amp NEMA 14-30 twelve foot cord included.

Instructions: Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. Web videos show how to use the control. (<http://www.youtube.com/user/LLKilns#p/u>)

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

UL Listing: c-MET-us listed to UL499 standards.

OPTIONS

Furniture Kits: See Dimension & Hearth Specifications.

Thermocouple Options: Type S platinum or 1/4" pyrocoil metallic sheathed (see hotkilns.com/tc.pdf).

Vent System: Vent-Sure downdraft vent (see hotkilns.com/vent.pdf)

Other Plugs: See page 2.



The Liberty-Belle Kiln meets the needs of serious craft hobbyists, potters, and others who need a simple, small automatic kiln ideal for home use or for a studio test kiln. Complete easy-to-follow visual instructions make this kiln ideal for the beginner yet powerful enough for the experienced users. It has L&L's time proven technology, like ceramic element holders, industrial-grade element terminals, heavy-duty elements, and corrosion resistant materials. This sectional kiln is easy to move and set up by the home user. The 12 foot long 30 amp cord makes it easy to plug into a dryer outlet.



DIMENSION, WEIGHT & FURNITURE KIT SPECIFICATIONS

Model Number	Inside Dimensions	Cubic Feet	Brick Thick	Furniture Kit	Furniture Kit Part No.	Outside Dimensions	Shipping Dimensions (with Kit)	Ship Wght Kiln Only	Ship Wght Kiln + Kit
LB18-240	17-1/2"D x 18"H	2.6	2-1/2"	5 Shelves, 1 Post Kit	H-L-KITL/00	29" W x 31" H x 30" D	36" W x 55" H x 36" D	200 lbs	240 lbs
LB18-208	17-1/2"D x 18"H	2.6	2-1/2"	5 Shelves, 1 Post Kit	H-L-KITL/00	29" W x 31" H x 30" D	36" W x 55" H x 36" D	200 lbs	240 lbs
LB18-3-240	16-1/2"D x 18"H	2.5	3"	5 Shelves, 1 Post Kit	H-L-KITL/30	29" W x 32" H x 30" D	36" W x 55" H x 36" D	215 lbs	250 lbs
LB18-3-208	16-1/2"D x 18"H	2.5	3"	5 Shelves, 1 Post Kit	H-L-KITL/30	29" W x 32" H x 30" D	36" W x 55" H x 36" D	215 lbs	250 lbs

Minimum Space Requirements: 46-1/2" wide by 46-1/2" deep.

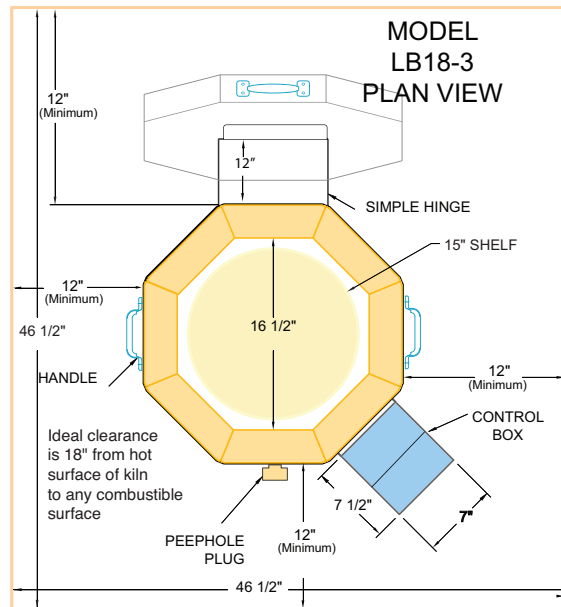
Moving and installation: This comes assembled but can be quickly disassembled and reassembled to move through any door or up stairs. It comes packed in a skidded carton with secure foam-in-place packaging.

Furniture / Accessory Kit: LB18-3 uses one 15" full round shelf, four 15" half shelves, four each 1", 2", 4", and 6" triangular posts plus one pound of Cone 10 kiln wash. (P/N: H-L-KIT/30). LB18 (2-1/2" brick version) is the same except with 15-1/2" shelves (P/N: H-L-KIT/00).

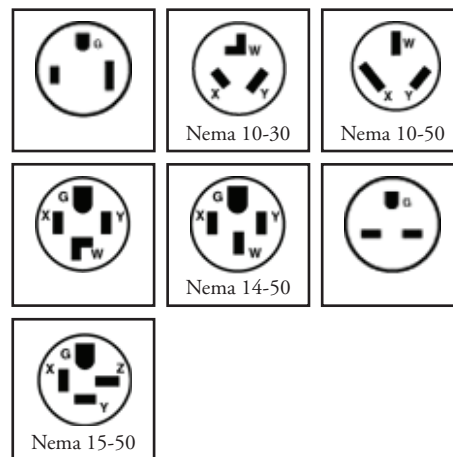
General Dimension Drawings: Not available at this time.



Pictured is a furniture kit for a LB18-3 kiln.



AVAILABLE PLUGS



Standard NEMA 14-30 plug can be changed by customer to NEMA 14-50 (hardware is included to do this). NEMA 6-30 plug, NEMA 15-50 or NEMA 6-50, NEMA 10-30 or NEMA 10-50 plug is available for an extra charge. A 6 foot NEMA 6-50 cord/plug is available for no charge. All plugs can be easily changed in the field if necessary.

ELECTRICAL SPECIFICATIONS

Model Number	Part Number	Volt/Phase	Watts	Amps	Wire Size	Fuse Size
LB18-240	K-L-1800/31	240/1P	5,737	23.9	10 ga	30 Amps
LB18-208	K-L-1800/21	208/1P	4,980	23.9	10 ga	30 Amps
LB18-3-240	K-L-1803/31	240/1P	5,737	23.9	10 ga	30 Amps
LB18-3-208	K-L-1803/21	208/1P	4,980	23.9	10 ga	30 Amps

UL Listing: c-MET-us listed to UL499 standards.

Power connection: A 30 amp NEMA 14-30 twelve foot plug is included. May be direct wired. Other plugs are optional. All models are single phase.

Energy, Time and Firing Costs: The kiln when empty can reach Cone 10 in about 2 hours and use about 12.5 KWH (this would cost about \$1.00 @ 8 cents per KWH. When fired with a heavy load of 55 pounds it took 23 KWH to go to Cone 6 on a Fast Glaze program - about \$1.84).

Downdraft Vent for L&L Kilns

FEATURES

Type of Vent: Downdraft - pulls air from the bottom of a kiln to ventilate fumes from the kiln under vacuum. Vents kiln fumes to the outside. The Vent-Sure downdraft ventilation system produces better firing by promoting higher temperature uniformity in the kiln - up to a 1/2 cone improvement.

Voltage and Amperage: 120 Volts at 1.37 Amps.

On/Off Switch and Cord: Switch on six foot cord.

Blower Mounting: Blower is normally mounted on the wall with discharge through a 4" round opening. (See Options below for optional Multi-mount bracket). This keeps the heat of the kiln away from the motor (for long motor life) and keeps the motor vibration away from the kiln (which can cause ware to move, damage to the kiln, and misfiring of cones on a kiln sitter). Although the vent motor normally discharges right through the wall it is mounted on, use of 4" duct can extend this distance 60 feet (horizontally or vertically) with up to four 90 degree bends.

Duct Work: 15 Feet of 3" flexible and expandable duct is included along with necessary hose clamps. Longer lengths or lengths of 3" stove pipe can be used as well.

Capacity: The blower vents up to 148 cfm (cubic feet per minute). This will handle up to a 20 cubic foot kiln (and usually larger) or even two separate kilns. More than one vent can be attached to larger kilns.

Vent Control: A vacuum bypass on the kiln bypass/collection box adjusts the amount of venting from the system.

Application: The Vent-Sure is designed to be used on almost all our kilns, as well as other brand kilns. You can order one of our Easy-Fire kiln stands with the bypass/collection box attached to the bottom or you can attach the bypass collection box directly to the side of the kiln. (See hotkilns.com/vent.pdf).

Warranty: Limited 3 year warranty. (See hotkilns.com/warranty.pdf).

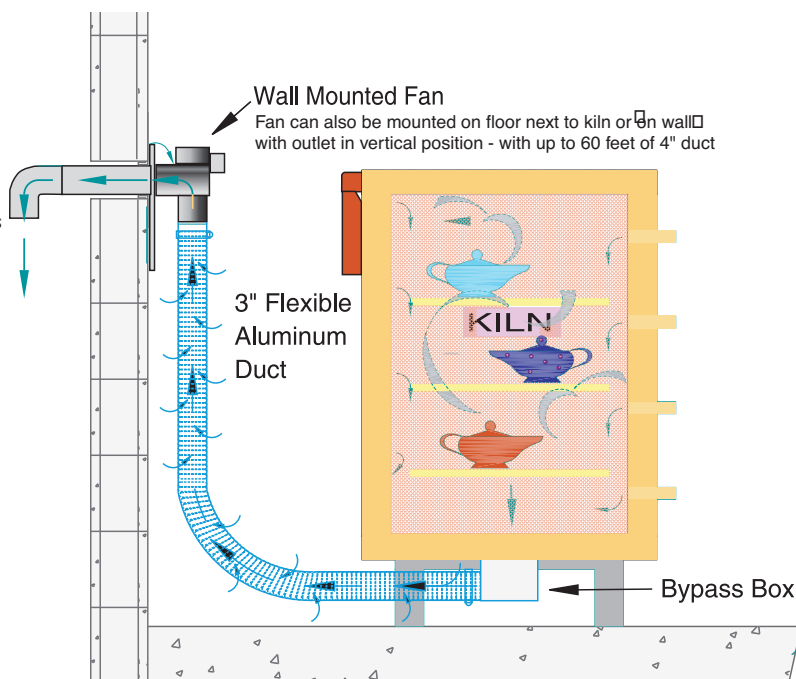
UL Listing: The Vent-Sure is c-MET-us listed to UL499 standards for use with Easy-Fire, Jupiter, JH Series, and DaVinci kilns. It is MET-us listed to UL499 standards for use with Hercules, Easy-Load, and Renaissance kilns.

OPTIONS

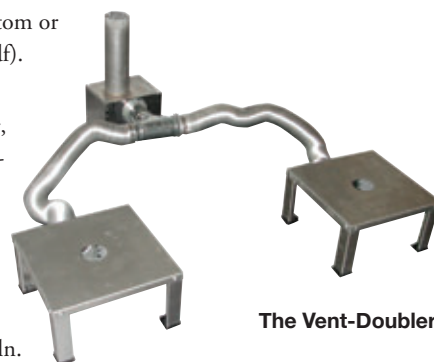
Vent Doubler: The Vent-Doubler allows you to connect two kilns to a Vent-Sure vent system. This can be added to an existing vent system or ordered with a new vent. In some cases you may be able to fire two kilns at once. The Vent-Sure has enough force to vent at least 20 cubic feet of kiln. The "T" duct fitting attaches to the inlet of the fan motor. There are two dampers on it to allow you to both control the flow and to shut off one or the other kiln. Flexible aluminum duct connects this "T" duct and the two fittings that attach to the kiln stands. M-V-VENT/DB

Multi-Mounting Bracket: An adapter to mount our motor on the floor is available for people who don't want to mount the motor on the wall. There is a 4" duct outlet that you can hook up to an existing wall opening. This can be used to mount motor on wall as well with output going into an existing ventilation system. M-V-BRKT/00

220-240 Volt Option: Motor is 220 volt. Plug to be specified.



The Vent-Sure pulls air out of the kiln and the room keeping fumes in the duct under vacuum so any leaks get pulled out instead of pushed into your room. The Vent-Sure is the worry-free, super-safe vent!



The Vent-Doubler



The Multi-Mounting Bracket

FREQUENTLY ASKED QUESTIONS

How do I know if the system is working?

The easiest way to test the operation of the vent system is to turn the unit on and to place a lit match directly over and level with one of the holes in the bottom of the kiln. The flame from the match should be gently pulled into the kiln as a result of the draft.

How hot does the duct get during the firing?

Due to the introduction of fresh air through the plenum of the vent system mixing with the hot gases being drawn from the kiln, the temperature of the duct is below 150°F. This will prevent burns from occurring in the event of the duct being touched.

How long can the duct be and with many bends?

Up to 60 feet of ducting containing four 90 degree bends may be safely used with no drop in static air flow at the duct exhaust point or a reduction in draw at the kiln. The ducting can be run either horizontally or vertically.

Do I need double wall duct when going through the roof?

You do not normally need double wall ducting when going through the roof since the pipe or duct does not reach high temperature. It is always advisable to check your local building codes for their requirements.

What type of duct do I use if I need more than 15 feet?

You can use more of the flexible aluminum dryer ducting or you can use galvanized furnace ducting. We recommend using 4" diameter galvanized duct.

Will the fumes coming through the vent damage my plants, the neighborhood pets or disturb the local environment?

No. The fumes and the gases coming from the kiln have been diluted with enough fresh air to make them safe for the environment. Do not, however, place the outlet of the vent below an open window.

Will using the vent cause my firing to take longer?

The vent system pulls only a very small amount of air out of the kiln, so very little heat is removed and firing times will change very little. For some kilns, a high firing may take a little longer. The insulation value and the number of air leaks in the kiln also determine the length of the firing. We have seen vents overpower smaller kilns - so it is important to adjust the amount of venting in some cases. On the other hand an example of an e23T seven cubic foot kiln firing an 85 pound load on Fast Glaze program to cone 8 took 7 hours and 4 minutes with a vent on and 6 hours and 24 minutes without a vent. The vent was on the whole time.

What does it cost to operate the vent system?

The vent system typically costs less than 1 cent/hour to operate (electricity costs). Vent systems save on heating and cooling costs when compared to hoods. Hoods remove massive amounts of air from the kiln room - air that may have been heated or cooled, depending on the time of year. Downdraft type vents remove 80% less air in the kiln room than a hood. (It does cost more to run the vent because it does take heat out of the kiln. For instance an e23T in the example above took 70 KW hours with a vent on and 62 KW hours without a vent. At 8 cents per KW hour that would be a cost of \$0.64. The vent was on the whole time).

Will the cold air entering the kiln damage the product?

The amount of air that is entering the kiln is so small that it does not cause problems with the ware. The top holes are placed toward the outside of the chamber area so that no air comes down directly onto ware that is placed near the top of the kiln. (L&L NOTE: This is fine but we do not normally recommend holes in the lid - a kiln is porous enough).

Will faster cooling crack the ware if I leave the vent on during the cooling Cycle?

No. Some kilns can cool an average of 4-1/2 hours faster with the use of the vent system. The cooling is faster but it is taking place at an even rate throughout the kiln avoiding uneven stresses being placed on the ware. Most ceramic ware can be cooled more quickly if the cooling takes place at an even rate. The rate of cooling increase will depend on the kiln size and the density of the load. The vent will remove more molecules of air and hence heat as the kiln cools. This is because the density of the air increases the lower in temperature you go. This is one reason why kiln vents are so efficient - they don't remove too much heat when you don't want them too at the higher temperatures).

What should I do if I still smell fumes?

You should check your duct work to make sure it is properly connected and that the joints are sealed. You can also check for extra air leaks around your kiln and repair these if necessary.

Note: These Frequently Asked Questions are provided courtesy of The Edward Orton Jr. Ceramic Foundation with some modification based on our Vent-Sure vent system and experience.



This shows several small kilns hooked up with one Vent-Sure using two Vent-Doublers. (Up to 20 cubic feet can be ventilated with one vent).

VENT-SURE Downdraft Vent

VENT-SURE Downdraft Vent

Focus on our Customers

5 Core Values; 65 Years of Kiln Experience

Durability • Value • Service • Choice • Technology

1. Design durable products that anyone can maintain.
2. Offer the best value combination of price and features.
3. Provide responsive and experienced support.
4. Make a wide choice of kilns available and clearly communicate what makes them different.
5. Embrace technology to advance all of the above.

These values have guided our family-owned company for 65 years and have forged a strong bond with our community of customers.



This photo was taken in 1960. The young fellow second from the left, Paul Littleton, has worked for L&L for almost as long as the company has been in business.

L&L Custom Kilns

Special Designs For Special Applications



Call Us Toll Free: 888.683.7472

Visit www.hotkilns.com To see our entire product line.



Distributed By: