INDUSTRIAL KILN CATALOG

Kilns Built To Last

L&L Kiln Mfg, Inc.
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L&L Makes Industrial-Grade Kilns

- L&L Kilns are used in a wide variety of industrial applications.
- L&L Kilns are the most “industrialized” of the “craft” kilns because of the hard ceramic element holders, heavy-duty element terminals, remotely mounted control panels and wide range of sizes and configurations.
- We custom design using our standard product line as a starting point.
- In addition, L&L Special Furnace Co., Inc., our sister company with whom we share technology and resources, is one of the premier high technology furnace designers in the world, making furnaces for customers like NASA, Rolls Royce, American Superconductor, and 3M.

Durability Means Cost Savings and Less Downtime

- Industrial applications can be hard on kilns. Constant loading and unloading can really take its toll on the soft firebrick grooves that typical kilns have. That’s when you need L&L’s hard element holders - they protect the delicate firebrick from loading damage.

Quick Delivery & Spare Parts

- Because of efficient just-in-time production system and large number of standard designs and components we can offer delivery times that will really surprise you.

Sophisticated but Easy-to-Use Controls

- The DynaTrol has six custom programs.
- Three zone control is standard for even firing.
- Get the KISS software system for an incredibly powerful data logging system - for a fourth the price or less you would expect to pay.
- We also have a three zone Eurotherm control for use with many of our kilns (as well as other industrial control solutions).

Save Money and Time On Repairs

- L&L kilns are designed to be easily, quickly and inexpensively repaired.
- Video and search-engine based 24/7 web support and phone and email support: get help when you need it.
- This means less downtime, less expense, more production.

- L&L kilns are used as ovens, furnaces, kilns and heaters in many industries including advanced ceramics, aerospace ceramics, piezo ceramics, optical glass, heating processes, melting, preheating for welding, annealing, stress-relieving, solution hardening, calcining, and steel heat treating.
- The wide range of standard designs and built-in heavy-duty durability features allow L&L to quickly configure many designs for highly economical production use.
- Special industrial controls are available from Eurotherm, Honeywell, Watlow and others.
- Call L&L to discuss your needs. We have years of experience to share.
DAVINCI TB644754-D 100 CU FT INDUSTRIAL BELL-LIFT KILN

hotkilns.com/tb644754

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

Minimum Space Requirements: 120” wide by 98” deep by 165” high. General Dimension Drawings: See hotkilns.com/GD-TB644754.pdf

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<th>Model Number</th>
<th>Cubic Feet</th>
<th>Inside Dimensions</th>
<th>Outside Dimensions</th>
<th>Shipping Dimensions</th>
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<td>TB644754</td>
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<td>66” W x 47”D x 54”H</td>
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UL Listing: Not listed to UL499 standards. Power connection: Direct connection to a terminal block in the Contactor Panel.
HERCULES MEDIUM FRONT-LOADING KILNS
hotkilns.com/hercules-kilns

This is a great value in medium-sized front-loading kilns. Elements in the door, gasketed plug door, arched roof, door shut-off switch - all are standard at an excellent price.

Hercules Feature Photos

- Door Gasket for Superior Door Seal
- 4-1/2” K25 Full Arch for Strength
- Door Elements for Even Heating
- Thick Powder-Coated Steel Case
- Welded Stand can be removed
- Safety Door Switch

Two Hercules kilns used for high tech ceramic coatings

Standard Features

- Adjustable door with plug seal and fiberglass gasket for tight seal
- Heavy 12 gauge welded powder-coated case with separate but attached stand with Leveling pads
- Extra-tough K25 2500°F 4-1/2” firebrick arch. Other insulation is 3” of K23 brick with 2” of mineral wool backup insulation.
- Elements on door, sides and back
- Door power safety shut-off switch
- Hard ceramic element holders
- 24-Key DynaTrol with Dynamic Zone Control (2 zones for EL2424-H and 3 zones for EL2427-H)
- Type K 8 gauge thermocouples with ceramic protection tubes
- Control panel mounted with air space between it and the case
- Branch fusing in control panel
- Solid peephole plugs with full 1” view (not tapered) in the door
- Proprietary reflective brick coating that protects brick and minimizes dusting
- MET-us listed to UL499 standards
- The kiln will fit through a 34-1/2” wide door without disassembly or removal of door
- Crated with interior support and air-cushion skids. Shipping arrangements by air-ride truck are made by factory. Fill out the installation checklist prior to ordering: hotkilns.com/front-load-checklist.

More:
- See hotkilns.com/spec-hercules for additional information like shipping dimensions, electrical ratings, fuse sizes and wire connection sizes. Direct wire. For controls see hotkilns.com/dynatrol and hotkilns.com/zone-control.

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<th>240/3</th>
<th>208/1</th>
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<th>Lbs</th>
<th>Lbs w/Kit</th>
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<td>63.0–80</td>
<td>55.0–70</td>
<td>73.0–90</td>
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Furniture Kit: Includes the shelves listed above plus the Large Square Post Kit, insulated gloves for unloading, and 5 lbs of Cone 10 kiln wash.

More: See hotkilns.com/spec-hercules for additional information like shipping dimensions, electrical ratings, fuse sizes and wire connection sizes. Direct wire. For controls see hotkilns.com/dynatrol and hotkilns.com/zone-control.
**EASY-LOAD LARGE FRONT-LOADING KILNS**

hotkilns.com/easy-load-kilns

**Standard Features**
- Sizes to 25 Cubic Feet
- Adjustable door with plug seal and fiberglass gasket for tight seal
- Massive hinge for stability of door
- Heavy 10 gauge welded powder-coated case with integrated stand
- Extra-tough K25 2500°F 4-1/2” firebrick arch. Other insulation is 3” of K23 brick with 2” of mineral wool backup insulation.
- Elements on door, sides and back for even firing
- Hard ceramic element holders
- 24-Key DynaTrol with Dynamic Zone Control (3 zones in every model)
- Type K 8 gauge thermocouples with ceramic protection tubes
- Control panel mounted with air space between it and the case
- Branch fusing in control cabinet
- Door power safety shut-off switch
- Three solid peephole plugs with full 1” view (not tapered) in the door
- Proprietary reflective brick coating that protects brick and minimizes dusting
- MET-us listed to UL499 standards
- All the kilns except the EL3048 will go through a 34-1/2” wide by 75” high door. The EL3048 needs a minimum door size of 40-1/2” wide by 76” high
- Crated with interior support and air-cushion skids. Shipping arrangements by air-ride truck are made by factory. Fill out the installation checklist prior to ordering: hotkilns.com/front-load-checklist.

**Voltage Options for Hercules & Easy-Load**

240 or 208, 1 phase or 3 phase are all standard options. KW does not change. No charge
220 volts single phase or 380 volts Wye or Delta (for non-USA installations) No charge
480 volts/3 phase (needs NEMA1 panel for MET-us listing)............................................ $650
NEMA 1 Control box (MET-us listed with this extra option for 480 volts).......................... $650

**Control Options for Hercules & Easy-Load**

- High Limit Back Up Digital Control (latching relay back up control system) .................. $550
- Back Up Contactors (actuated by the High Limit Back Up Digital Control)...................... $450
- 120 volt power supply with electrical noise filter for the automatic control ...................... $185
- Pyrocl metal type K thermocouples instead of 8 ga type K TC with ceramic protection tubes........................................................................................................ $185
  - No charge
- Type S platinum thermocouples (3 required for Easy-Load and Hercules EL2427-H, 2 for Hercules EL2424-H) price is per thermocouple.................................................. $185
- KISS Computer Software to monitor control with USB connector for computer ............... $575

**Hinge Mounting**

Hinge mounted on right and panel mounted on left
(Special order: allow extra production time)........................................................................ $850

**Model No.** | **Price** | **Furn Kit** | **Inside Dimensions** | **Cubic Feet** | **Hearth Size** | **Hearth in Furniture Kit** | **Hearth Height** | **240/1 Amp-Fuse** | **240/3 Amp-Fuse** | **208/1 Amp-Fuse** | **208/3 Amp-Fuse** | **480/3 Amp-Fuse** | **Lbs Kiln** | **Lbs w/Kit**
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
EL2436  | $12,500 | $735 | 25W x 25D x 36H | 12 | 22” x 22” | (8) 11” x 22” | 29” | 19.0 | 80.0–100 | 46.0–60 | 92.0–125 | 53.0–70 | 24.0–30 | 1350 | 1500
EL2448  | $15,250 | $840 | 25W x 25D x 48H | 16 | 22” x 22” | (10) 11” x 22” | 18” | 24.2 | 101.0–125 | 59.0–80 | 117.0–150 | 68.0–90 | 30.0–40 | 1500 | 1750
EL2848  | $16,375 | $1120 | 31W x 25D x 48H | 20 | 28” x 24” | (12) 14” x 24” | 18” | 27.0 | 113.0–150 | 66.0–90 | 130.0–175 | 75.0–100 | 33.0–50 | 1750 | 2000
EL3048  | $18,950 | $1175 | 31W x 31D x 48H | 25 | 28” x 28” | (12) 14” x 28” | 18” | 31.5 | 132.0–175 | 70.0–100 | 152.0–200 | 88.0–125 | 39.0–50 | 2000 | 2300

**Furniture Kit:** Includes the shelves listed above plus Two Large Square Post Kits, insulated gloves for unloading, and 5 lbs of Cone 10 kiln wash.

**More:** See hotkilns.com/spec-easy-load for additional information like shipping dimensions, electrical ratings, fuse sizes and wire connection sizes. Direct wire.
The ELC3648 Car Kiln works with a standard pallet jack for easy moving of the car and great sealing. We can make these in various sizes with a ceramic fiber module roof even though the above kiln is shown with an arched brick roof.
Custom polygonal kilns with 4-1/2” of firebrick are available by special quote. L&L can make almost any diameter and any height in multiples of 9” high sections. There are three elements per 9” high section. The base is made of welded angle-iron with leveling bolts. The bottom is typically 4-1/2” of K23 brick. These are typically cemented in sections and then held together with a stainless steel band. The top is typically made of 4” thick folded and formed ceramic fiber modules. Temperatures are limited to 2350°F (1285°C).

These kilns are used for making Superconducting wire.
## DAVIDIQUA ARECTANGULAR KILNS

hotkilns.com/davinci-kilns

### Standard Features

- Counterbalanced Lid with springs inside of tubes
- Welded angle-iron powder-coated stand and hinge system
- 3” brick with all brick construction (including lid)
- Strong arched sides with extra space added to interior dimensions for good air circulation
- Hard ceramic element holders
- Solid peephole plugs with full 1” view (not tapered)
- Proprietary reflective brick coating that protects brick and minimizes dusting
- Floor mounted control panel (except for X2300 series)
- Branch fusing in control panel
- 24-Key DynaTrol with Dynamic Zone Control (2 zones in 18” high models, 3 zone in all other models)
- Type K 8 gauge thermocouples with ceramic protection tubes
- c-MET-us listed to UL499 standards
- Three-year Limited Warranty
- Protected with wood crate and foam-in-place packaging for shipment by Common Carrier. Depending on the model there are either two or three crates.

### Furniture Kit:

- Includes the shelves listed above plus the one to three Large Square Post Kits (as indicated above), insulated gloves for unloading, and 5 lbs of Cone 10 kiln wash.

### More:

See various DaVinci specification sheets at hotkilns.com/spec-davinci for additional information like shipping dimensions, electrical ratings, fuse sizes and wire connection sizes. Direct wired. For controls see hotkilns.com/dynatrol and hotkilns.com/zone-control.

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### Model | Kiln | Power Bottom | Power High | Furn Kit | Quad Elem | Shelves in Furn Kit | Post Kits | Inside in W X D | Inside Height | Cubic Feet | External Dimensions | Stand KW | High KW | 240/1 Fuse | 240/3 Fuse | 208/1 Fuse | 208/3 Fuse | Lbs Kiln w/Kit |
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<td>$940</td>
<td>$675</td>
<td>(12) 23” x 11-1/2”</td>
<td>(2) 26-1/2” Square</td>
<td>36”</td>
<td>20.0</td>
<td>45W x 32H x 43D</td>
<td>24.4</td>
<td>28.4</td>
<td>125</td>
<td>80</td>
<td>125</td>
<td>70</td>
<td>1135</td>
<td>1340</td>
</tr>
</tbody>
</table>

This is L&L’s classic production kiln.
also great for Universities and high volume High School programs.
**DAVINICI OPTIONS**

**Voltage & Element Options**

- 240 or 208, 1 phase or 3 phase are all standard options. KW does not change. **No charge**
- 220 volts single phase or 380 volts Wye or Delta (for non-USA installations) **No charge**
- 480 volts/3 phase (sections are hard wired to power box with SO cord) *(needs NEMA1 panel for MET-us listing)* **$650**
- NEMA 1 Control box (MET-us listed with this extra option for 480 volts) **$650**
- Quad Element System *(watts & amps do not change - there are two doubled elements in four rows instead of the normal three)* **See grid**

**High Power Option**

- XB and TB elements, which have a higher KW rating, are available on the 27”, 36” and 45” high DaVinci kilns. **See High Power on grid**

**Control Options**

- High Limit Back Up Digital Control *(latching relay back up control system)* **$550**
- Back Up Contactors *(actuated by the High Limit Back Up Digital Control)* **$450**
- 120 volt power supply with noise filter **$185**
- Pyroclitic metallic type K TCs **No charge**
- Type S platinum thermocouples **$185 each** *(2 required for 18” kilns, 3 required for all other models)*
- KISS Computer Software to monitor control with USB Connector **$575**

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**BELL-LIFT OPTION**

**Bell-Lift Option for X3200 or T3400**

- Available on any X3200 series or T3400 series.
- Includes hand operate winch. Safety Latches are included. Specification sheet: [hotkilns.com/spec-bell-lift](http://hotkilns.com/spec-bell-lift)

**Bell-Lift Option** **$4675**
- Motorized Winch *(instead of hand winch)* **$800**

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*DAVINICI OPTIONS*

A DaVinci Kiln used for testing refractory materials. The uniformity of the kiln is critical.

*BELL-LIFT OPTION*

A Bell-Lift DaVinci Kiln with a special alloy retort for inert atmosphere processing of ceramic armour.
**EASY-FIRE KILNS**

**hotkilns.com/easy-fire-kilns**

### Standard Features
- Hard ceramic element holders
- 24-Key DynaTrol with Dynamic Zone Control (two zones for “S” models and three zones for “T” models)
- Type K 8-gauge thermocouples with ceramic protection tubes
- Piggy-back control panel with drop-down front panel for easy maintenance and troubleshooting
- Full support 14-gauge aluminized stand
- Solid peephole plugs with full 1” view (not tapered)
- Proprietary reflective brick coating that protects brick and minimizes dusting
- “Easy-Lift, Easy-Load” stainless steel spring hinge system with full-support when door is up and tilted back (there are no support bars to get in the way of loading) (Not available on e18S & e18T models)
- c-MET-us listed to UL499 standards
- Three-year Limited Warranty ([hotkilns.com/warranty](http://hotkilns.com/warranty))
- Packed in a skidded box protected with foam-in-place

### Voltage & Element Options

**240 or 208, 1 phase or 3 phase** are all standard...........No charge

220 volts single phase or 380 volts Wye or Delta (for non-USA installations) .................................................................No charge

**Quad Element System** (watts & amps do not change - elements doubled & more massive with Quad system)........See grid

### Control Options

- Pyrocol metal-sheathed thermocouples (instead of 8 ga TCs with ceramic protection tubes).................................No charge
- Type S platinum thermocouples (2 required for 18” High “S” models, 3 required for 27” High “T” models).............$185 each
- KISS Computer Software to monitor control with USB connector for computer ...............................................................$575

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**Model**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Kiln Price</th>
<th>Furn Kit</th>
<th>Quad Elem</th>
<th>No. Shelves</th>
<th>Brick</th>
<th>Inside Diam</th>
<th>Inside Height</th>
<th>Cubic Feet</th>
<th>Exterior Dimensions (in)</th>
<th>240/1 Kw-Amp-Fuse</th>
<th>240/3 Kw-Amp-Fuse</th>
<th>208/1 Kw-Amp-Fuse</th>
<th>208/3 Kw-Amp-Fuse</th>
<th>Lbs Kiln w/Kit</th>
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<tbody>
<tr>
<td>e18S</td>
<td>$1775</td>
<td>$300</td>
<td>15-1/2”(1F, 4H)</td>
<td>2-1/2”</td>
<td>17-1/2”</td>
<td>18”</td>
<td>2.6</td>
<td>29W x 31H x 30D</td>
<td>5.7-23.9-30</td>
<td>5.7-18.9-30</td>
<td>5.0-23.9-30</td>
<td>5.0-18.9-30</td>
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<td>e18S-3</td>
<td>$1825</td>
<td>$300</td>
<td>15”(1F, 4H)</td>
<td>3”</td>
<td>16-1/2”</td>
<td>18”</td>
<td>2.5</td>
<td>29W x 32H x 30D</td>
<td>5.7-23.9-30</td>
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<td>e18T</td>
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<td>$340</td>
<td>15-1/2”(2F, 4H)</td>
<td>2-1/2”</td>
<td>17-1/2”</td>
<td>27”</td>
<td>3.9</td>
<td>29W x 40H x 30D</td>
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<td>8.4-20.2-30</td>
<td>8.4-40.4-60</td>
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<td>15”(2F, 4H)</td>
<td>3”</td>
<td>16-1/2”</td>
<td>27”</td>
<td>3.7</td>
<td>29W x 41H x 30D</td>
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<td>e23S</td>
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<td>21”(1F, 4H)</td>
<td>2”</td>
<td>23-3/8”</td>
<td>18”</td>
<td>4.7</td>
<td>31W x 32H x 42D</td>
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<td>20”(1F, 4H)</td>
<td>3”</td>
<td>22-3/8”</td>
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<td>31W x 33H x 42D</td>
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<td>21”(2F, 4H)</td>
<td>2-1/2”</td>
<td>23-3/8”</td>
<td>27”</td>
<td>7.0</td>
<td>31W x 41H x 42D</td>
<td>11.5-48.0-60</td>
<td>11.5-27.7-40</td>
<td>10.0-48.0-60</td>
<td>11.0-30.5-40</td>
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<td>$3025</td>
<td>$420</td>
<td>20”(2F, 4H)</td>
<td>3”</td>
<td>22-3/8”</td>
<td>27”</td>
<td>6.7</td>
<td>31W x 42H x 42D</td>
<td>11.5-48.0-60</td>
<td>11.5-27.7-40</td>
<td>10.0-48.0-60</td>
<td>11.0-30.5-40</td>
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<td>$530</td>
<td>25-1/2”(6H)</td>
<td>3”</td>
<td>28”</td>
<td>18”</td>
<td>6.8</td>
<td>37W x 33H x 48D</td>
<td>11.5-47.9-60</td>
<td>11.5-37.9-50</td>
<td>10.0-48.0-60</td>
<td>10.0-38.0-50</td>
<td>370</td>
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<td>$645</td>
<td>25-1/2”(8H)</td>
<td>3”</td>
<td>28”</td>
<td>27”</td>
<td>10.2</td>
<td>37W x 42H x 48D</td>
<td>11.5-48.0-60</td>
<td>16.6-40.0-50</td>
<td>10.0-48.0-60</td>
<td>14.3-39.8-50</td>
<td>460</td>
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</table>

**Furniture Kit:** Includes the shelves listed above plus the Large Square Post Kit, insulated gloves for unloading, and 5 lbs of Cone 10 kiln wash. You can substitute two half shelves for one full shelf at no charge.

**Cone Rating:** All models are rated to Cone 10 except the e28T-3 which is rated to Cone 8 at 240V/1 Phase, Cone 5 at 208V/1 Phase, and Cone 10 for any 3 phase kiln. **Plugs on US Models only:** 6-50 on single phase and 15-50 on three phase **CE Listing:** CE Listed models are available.

**More:** See various Easy-Fire Specification Sheets at [hotkilns.com/spec-easy-fire](http://hotkilns.com/spec-easy-fire) for shipping dimensions, electrical ratings, fuse and wire sizes.
eQUAD-PRO KILNS WITH HEAVY DUTY “QUAD” ELEMENTS
hotkilns.com/equad-pro-kilns

Standard Features
- Cone 10 with extra power
- Quad element system (fours rows of super heavy gauge elements per 9” high section) hotkilns.com/quad
- Extra power with branch fusing for high production work
- 3” brick
- 24-Key DynaTrol with Dynamic Zone Control
- Hard ceramic element holders
- Type K 8 gauge thermocouples with ceramic protection tubes
- Full support 14 gauge aluminized steel stand
- Solid peephole plugs with full 1” view (not tapered)
- Proprietary reflective brick coating that protects brick and minimizes dusting
- “Easy-Lift, Easy-Load” stainless steel spring hinge system with full-support when door is up and tilted back (there are no support bars to get in the way of loading)
- Three-year Limited Warranty
- Packed in a skidded box protected with foam-in-place

Voltage Options
240 or 208, 1 phase or 3 phase ................................................................. No charge
220 volts single phase or 380 volts Wye or Delta (for non-USA installations) ................................................................. No charge

Control Options
Type S platinum thermocouples (3 required if you want to maintain the three zone capability) ........................................ $185 each
KISS Computer Software to monitor control with USB connector for computer ................................................................. $575

Model | Kiln No. | Furn Kit | No. of Shelves | Inside Diam | Inside Height | Cubic Feet | Exterior Dimensions | KW~Amp~Fuse | KW~Amp~Fuse | KW~Amp~Fuse | KW~Amp~Fuse | Lbs | Lbs
--- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | ---
eQ2327-3 | $3725 | $420 | 20” (2F, 4H) | 22-3/8” | 27” | 6.7 | 31W x 42H x 42D | 13.4~32.4~50 | 13.4~32.4~50 | 11.7~32.4~50 | 11.7~32.4~50 | 365 | 485
eQ2827-3 | $4300 | $645 | 25-1/2” (8H) | 28” | 27” | 10.2 | 37W x 42H x 48D | 15.0~71.9~90* | 15.0~71.9~90* | 15.0~41.5~60 | 15.0~41.5~60 | 480 | 585
eQ2836-3 | $5045 | $765 | 25-1/2” (10H) | 28” | 36” | 13.6 | 37W x 51H x 48D | 19.0~91.3~125* | 19.0~91.3~125* | 19.0~59.4~80 | 19.0~59.4~80 | 595 | 725

*Note: Special model eQ2836-X-208-1P is available with 16.6 KW, 208 Volt/1 Phase, 80 amps for a 100 amp fuse.

Furniture Kit: Includes the shelves listed above plus the Large Square Post Kit, insulated gloves for unloading, and 5 lbs of Cone 10 kiln wash. You can substitute two half shelves for one full shelf at no charge.

More: See hotkilns.com/spec-equad-pro for additional information like shipping dimensions, electrical ratings, fuse sizes and wire connection sizes. All models are direct wired with no cords. For controls see hotkilns.com/dynatrol and hotkilns.com/zone-control.
JUPITER SECTIONAL KILNS AND HEATERS

( hotkilns.com/jupiter-automatic-kilns )

Standard Features

- Hard ceramic element holders
- Automatic 24-Key DynaTrol with Dynamic Zone Control
- Kiln sections plug into separate control panel mounted on the element boxes
- Branch fusing on all models above 48 amps
- Type K 8 gauge thermocouples with ceramic protection tubes
- Full support 14 gauge aluminized steel stand
- Solid peephole plugs with full 1” view (not tapered)
- Proprietary reflective brick coating that protects brick and minimizes dusting
- “Easy-Lift, Easy-Load” stainless steel spring hinge system with full-support when door is up and tilted back (there are no support bars to get in the way of loading) is standard on all 12 and 10 sided models (29”, 28”, 22” and 23” diameter), Not available on the 8 sided (17-1/2” and 16-1/2” diameter models)
- 6-50 plug on JD18, JD18X, JD23, JD230 and JD230-EZ single phase models. 15-50 plug on JD18, JD18X, JD23, JD230 and JD230-EZ three phase models. All other models are direct wire.
- c-MET-us listed to UL499 standards
- Three-year Limited Warranty
- Packed in a skidded box protected with foam-in-place

Voltage & Element Options

240 or 208, 1 phase or 3 phase ................................................................. No charge
220 volts single phase or 380 volts Wye or Delta (for non-USA installations) ........................................ No charge
480 volts/3 phase ........................................................................................................................ $650
(needs NEMA1 panel for MET-us listing) (sections hard wired to power box)
NEMA 1 Control box for industrial use (MET-us listed with this extra option for 480 volts).............. $650
Quad Element System (watts & amps do not change from the standard models. For JD1800 & JD2300 elements are doubled & more massive with Quad system. For JD2900 - there are two doubled elements in four rows (instead of the normal three)) ........................................ See grid

Control Options

High Limit Back Up Digital Control (latching relay back up control system) ......................... $550
Back Up Contactors (actuated by the High Limit Back Up Digital Control, needs a large box) .... $450
120 volt power supply with electrical noise filter for the automatic control .................................. $185
Pyrocoll metallic type K thermocouples instead of 8 ga type K TCs with protection tubes... No charge
Type S platinum thermocouples (2 required for 18” kilns, 3 required for all other models)... $185 each
KISS Computer Software to monitor control with USB connector ............................................ $575

JUPITER KILNS ARE EASY-TO STACK AND DISASSEMBLE BECAUSE OF THE PLUG-IN SECTIONS
| Model No. | Kiln Price | Bottom Kit | Furn Kit | Quad Element | No. of Shelves Inside Inside | Inside Cone | Inside Cubic Feet | Cone Rating | 240/1 KW~Amp~Fuse | 240/3 KW~Amp~Fuse | 208/1 KW~Amp~Fuse | 208/3 KW~Amp~Fuse | Lbs Kiln w/Kit |
|----------|------------|------------|---------|--------------|-----------------------------|-------------|-------------------|-------------|-------------------|-------------------|-------------------|-------------------|-----------------|----------------|
| JD18     | $1795      | $300       | $175    | 15-1/2" (2F, 4H) | 17-1/2" 18" 2.6 10 | 5.5~23.0~30 | 5.5~19.9~30 | 5.5~26.5~30 | 5.5~23.0~30 | 200 245 |
| JD18X    | $2495      | $340       | $250    | 15-1/2" (2F, 4H) | 17-1/2" 27" 3.9 10 | 8.3~34.5~50 | 8.3~19.9~30 | 8.3~39.8~50 | 8.3~23.0~30 | 245 295 |
| JD23V    | $2365      | $450       | $340    | 21" (1F, 4H) | 23-3/8" 18" 4.7 5 | 7.0~29.3~40 | 7.0~25.4~40 | 6.1~29.3~40 | 6.1~25.4~40 | 275 350 |
| JD230V   | $2935      | $450       | $420    | 21" (2F, 4H) | 23-3/8" 27" 7.0 10 | 10.6~44.0~60 | 10.6~25.4~40 | 9.1~44.0~60 | 9.1~25.4~40 | 330 425 |
| JD236V   | $3535      | $450       | $490    | 21" (3F, 4H) | 23-3/8" 36" 9.4 10 | 14.1~58.6~80 | 14.1~38.1~50 | 12.2~58.6~80 | 12.2~38.1~50 | 360 455 |
| JD245V   | $4135      | $450       | $570    | 21" (4F, 4H) | 23-3/8" 45" 11.8 10 | 17.6~73.3~100 | 17.6~50.8~70 | 15.2~73.3~100 | 15.2~50.8~70 | 445 560 |
| JD18-3   | $1845      | $300       | $175    | 15" (1F, 4H) | 16-1/2" 18" 2.5 10 | 5.5~23.0~30 | 5.5~19.9~30 | 5.5~26.5~30 | 5.5~23.0~30 | 230 280 |
| JD18X-3  | $2600      | $340       | $250    | 15" (2F, 4H) | 16-1/2" 27" 3.7 10 | 8.3~34.5~50 | 8.3~19.9~30 | 8.3~39.8~50 | 8.3~23.0~30 | 270 320 |
| JD23V-3  | $2495      | $450       | $340    | 20" (1F, 4H) | 22-3/8" 18" 4.5 5 | 7.0~29.3~40 | 7.0~25.4~40 | 6.1~29.3~40 | 6.1~25.4~40 | 315 340 |
| JD230V-3 | $3065      | $450       | $420    | 20" (2F, 4H) | 22-3/8" 27" 6.7 10 | 10.6~44.0~60 | 10.6~25.4~40 | 9.1~44.0~60 | 9.1~25.4~40 | 385 470 |
| JD236V-3 | $3695      | $450       | $490    | 20" (3F, 4H) | 22-3/8" 36" 8.9 10 | 14.1~58.6~80 | 14.1~38.1~50 | 12.2~58.6~80 | 12.2~38.1~50 | 460 545 |
| JD245V-3 | $4365      | $450       | $570    | 20" (4F, 4H) | 22-3/8" 45" 11.1 10 | 17.6~73.3~100 | 17.6~50.8~70 | 15.2~73.3~100 | 15.2~50.8~70 | 540 650 |
| JD2918-3 | $3435      | $575       | $530    | 25-1/2" (6H) | 28" 18" 6.8 5 | 9.1~38.0~50 | 9.1~32.9~50 | 8.3~40.0~50 | 8.3~34.6~50 | 380 480 |
| JD2927-3 | $4295      | $575       | $645    | 25-1/2" (8H) | 28" 27" 10.2 10 | 13.7~57.0~80 | 13.7~32.9~50 | 12.5~60.0~80 | 12.5~34.6~50 | 450 575 |
| JD2936-3 | $5460      | $575       | $765    | 25-1/2" (10H) | 28" 36" 13.6 10 | 18.2~76.0~100 | 18.2~49.3~70 | 16.6~80.0~100 | 16.6~52.0~70 | 565 715 |
| JD2945-3 | $6475      | $575       | $885    | 25-1/2" (12H) | 28" 45" 17.0 10 | 22.8~95.0~125 | 22.8~65.8~90 | 20.8~100.0~125 | 20.8~69.3~90 | 645 820 |

**Note About EZ Models:** All the J2300 series are available with higher watts *EZ* elements (the same elements used in the e23T kilns) at no extra charge. See web and specification sheet for details. **Furniture Kit:** Includes the shelves listed above plus the Large Square Post Kit, insulated gloves for unloading, and 5 lbs of Cone 10 kiln wash. You can substitute two half shelves for one full shelf at no charge. **Cone Rating:** See above chart. **More:** See various Jupiter Automatic specification sheets at spec-jupiter-auto for additional information like shipping dimensions, electrical ratings, fuse sizes and wire connection sizes. For controls see hotkilns.com/dynatrol and hotkilns.com/zone-control.

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Jupiter kilns make great high temperature heaters and have become integral part of customer's own designs as shown above.

This shows a smaller kiln being fitted out with a photgraphy apparatus for recording high temperature effects.
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

PRICE: $815
VENT-SURE DOWNDRAFT KILN VENT SYSTEM

Vent-Sure Super-Safe Downdraft Kiln Vent System

Vent-Sure Downdraft Kiln Vent System ........................................................................................................ $440
(220-240 volt model available at no charge)

Vent Doubler (includes all the parts necessary to vent two kilns (up to 10 cubic feet each) with one vent ............... $140

Multi-position Mounting Bracket for mounting motor on floor or in vertical position on wall ...................... $25

Standard Features

- Downdraft venting pulls air down to bottom of kiln
- Improves temperature uniformity inside the kiln
- Powerful 130 CFM fan motor, typically mounted on wall, allows fumes to be under vacuum in your studio
- 120 volts with on/off switch on cord
- 15 foot long flexible aluminum duct
- Bypass collection box mounted on kiln allows adjustment of venting. Note that, because of the air restrictions, the vent doesn’t actually pull that much air out of the kiln - just enough
- The strong fan motor helps overcome static pressure in long exhaust lines
- Fan motor stays cool and there is no vibration transmitted to the kiln
- Three-year Limited Warranty
- c-MET-us Listed to UL499 standards for use on c-MET-us L&L Kilns (Easy-fire, School-Master, Jupiter, Davinci, Ergo-Lift). MET-us Listed to UL499 standards on Hercules, and Easy-Load kilns.

More information?

- Specifications: See hotkilns.com/spec-vent-sure
- Instructions: See hotkilns.com/vent-sure-instructions

EXCLUSIVE DYNA-GLOW HARD CERAMIC ELEMENT HOLDERS

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. The entire surface of the ceramic holders glow with radiant heat, promoting uniform kiln temperatures.

Don't Let This Happen To You ▼

There is a Better Way ▼
These four principles have guided our family-owned company and have forged a strong bond with our community of customers:

1. Design durable products that anyone can maintain.
2. Serve our customers with creative choices.
3. Provide responsive and experienced support.
4. Continuously innovate to improve our products.

Customer-Focused

More Information and Support at hotkilns.com

Prices in this catalog are subject to change without notice. Prices are always current on our web site. Find complete specifications, support videos, photos, parts, PDF Library, and thousands of pages of knowledgebase information easily using our sophisticated search feature.

Kilns Built To Last

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