

# 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](http://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](http://hotkilns.com/tc.pdf)).

**Vent System:** Vent-Sure downdraft vent (see [hotkilns.com/vent.pdf](http://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](http://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.



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

Bulletin No: Spec-JD2900-4-10

## 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
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.