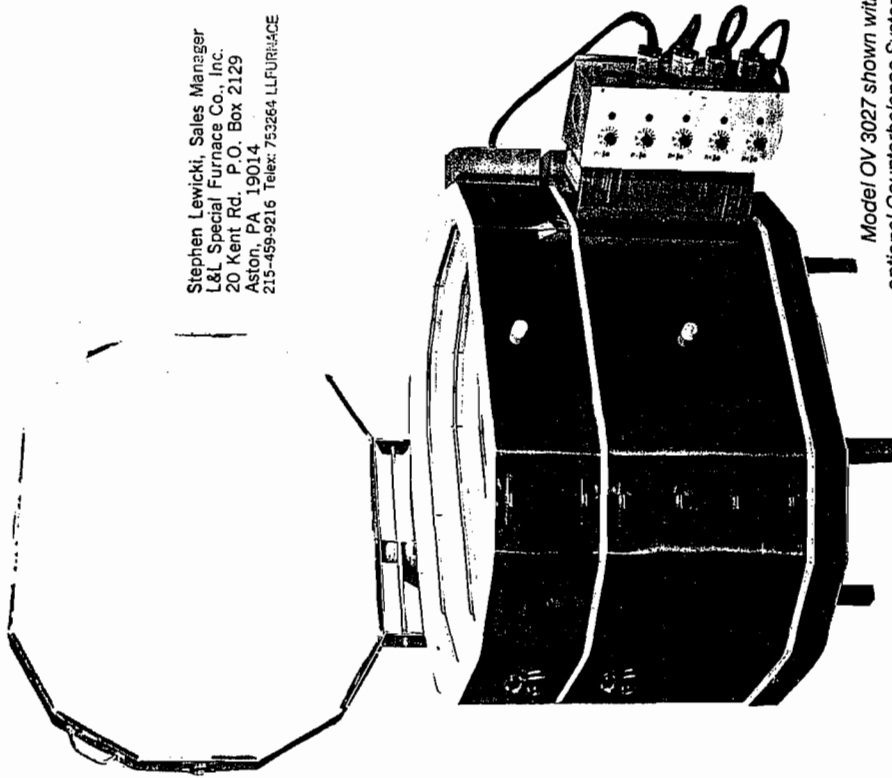


# L&L MANUFACTURING COMPANY, INC.

142 CONCHESTER ROAD, BOX 938, CHESTER, PA 19016  
 PHONE: (215)-485-6334 or 485-6530 TELEEX: 753264

Stephen Lewicki, Sales Manager  
 L&L Special Furnace Co., Inc.  
 20 Kent Rd., P.O. Box 2129  
 Aston, PA 19014  
 215-459-9216 Telex: 753264 LLLFURHAGE



Model OV 3027 shown with optional Counterbalance System, and Bottom Element with Zone Control.

## Introducing the **NEW** Extra Large OVAL KILN that reaches **CONE 10!**

BULLETIN NO. OV-5-187

### SPECIFICATIONS FOR THE OV SERIES OVAL KILNS

MODEL NUMBER	GENERAL DESCRIPTION	FIRING CHAMBER DIMENSIONS			CUBIC CAPACITY IN (CU FT)	EXTERIOR DIMENSIONS INCLUDES COUNTERBALANCE			ZONE/ INFINITELY VARIABLE INPUT CONTROLS	POWER RATING			POWER SUPPLY REQUIRED	TOTAL SHIPPING WEIGHT
		W	D	H		W	D	H		K.W.	AMPS AT 240 VOLTS	AMPS AT 208 VOLTS		
OV2018	1 - 18" Section	30"	20"	18"	5.33	42"	47"	61"	2	7.6	31.8	36.6	60 Amps	200 lbs
OV2027	1 - 18" Section 1 - 9" Section	30"	20"	27"	8.0	42"	47"	76"	3	11.4	47.7	54.9	60 Amps	255 lbs
OV2036	1 - 18" Section 1 - 9" Section	30"	20"	36"	12.0	42"	47"	85"	4	15.2	63.6	73.2	100 Amps	310 lbs
OVX2009	9" Extension for later addition	30"	20"	9"	2.67	42"	47"	9"	1	3.8	15.9	18.3		55 lbs
OVR2000	4-1/2" Ring with no elements	30"	20"	4-1/2"	1.33	42"	47"	4-1/2"						30 lbs
OVH2000	Optional Hearth (bottom) complete with Dyna-Glow element holders, elements Also includes infinitely variable input switch in control panel when ordered with kiln.								1	1.27	5.3	6.1		45 lbs
OV2527	1 - 18" Section 1 - 9" Section	38"	25"	27"	12.8	50"	52"	76"	3	15.8	67.5	76.2	100 Amps	335 lbs
OV2536	1 - 18" Section 2 - 9" Sections	38"	25"	36"	17.1	50"	52"	85"	4	21.0	88.2	102.0	100 Amps-240V 150 Amps-208V	415 lbs
OV2545	1 - 18" Section 3 - 9" Sections	38"	25"	45"	21.34	50"	52"	94"	5	26.3	110.3	127.0	200 Amps	495 lbs
OVX2509	9" Extension for later addition	38"	25"	9"	4.27	50"	52"	9"	1	5.3	22.05	25.4		80 lbs
OVR2500	4-1/2" Ring with no elements	38"	25"	4-1/2"	2.13	50"	52"	4-1/2"						45 lbs
OVH2000	Optional hearth (bottom) complete with Dyna-Glow element holders, elements and including infinitely variable input control in instrument panel when ordered with kiln.								1	1.8	7.35	8.48		65 lbs
OV3027	1 - 18" Section 1 - 9" Section	42"	30-1/2"	27"	16.9	54"	58"	76"	3	20.2	88.8	90	100 Amps	415 lbs
OV3036	1 - 18" Section 2 - 9" Sections	42"	30-1/2"	36"	22.52	54"	58"	85"	4	26.9	118.4	120.0	200 Amps	530 lbs
OV3045	1 - 18" Section 3 - 9" Sections	42"	30-1/2"	45"	28.15	54"	58"	94"	5	33.6	148.0	150.0	200 Amps	645 lbs
OVX3009	9" Extension for later addition	42"	30-1/2"	9"	5.63	54"	58"	9"	1	6.7	29.6	30.0		115 lbs
OVR3000	4-1/2" Ring with no elements	42"	30-1/2"	4-1/2"	2.81	54"	58"	4-1/2"						70 lbs
OVH3000	Optional hearth (bottom) complete with Dyna-Glow element holders, elements and including infinitely variable input control in instrument panel when ordered with kiln.								1	2.23	9.87	10.0		79 lbs

MAKE CERTAIN THAT VOLTAGE IS ORDERED CORRECTLY - IT IS EXPENSIVE TO CHANGE LATER.  
 IF YOU WISH TO ADD MORE SECTIONS LATER IT IS WISE TO ORDER EXTRA INPUT CIRCUITS.  
 SEE SEPARATE PRICE SHEET FOR DETAILS.

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.  
 KILNS MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN.

## MODEL OV HIGH FIRE OVAL KILN SERIES

L&L Manufacturing Company, Inc. introduces a line of highly refined High Fire Oval Kilns. These are developed to a high degree of perfection and may be used by schools, institutions and professional ceramists with confidence that the finest of firing results may be experienced.

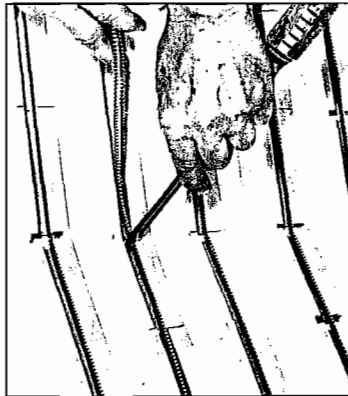
### OUTLINE OF FEATURES:

- True Cone 10 Operation (2350°F - 1285°C) Enough power to do the job!
- Dyna-Glow Element Holders provide easier maintenance and more efficient firing of the kiln
- Separate Instrument Panel with plug-in to panel operation of kiln sections
- Heavy Duty Lifting Handles on Each Section
- 3 Inch Insulating Firebrick - with reflective ceramic coating
- Multi-Zone Infinite Control System for accurate gradient temperatures
- Optional Lid Counterbalance System - Unique in the Industry! (Patent Pending)
- Optional Hearth Element Zone with Infinitely Variable Input Control and Fused Circuits
- Optional Program Control with Six Independent Programs
- Expandable to 36" and 45" heights - yet still easy to load!
- Optional Pyrometer System with multi thermocouple zone indication
- L&L has 40 years experience making industrial, commercial and hobby kilns.

### DYNA-GLOW ELEMENT HOLDERS

The design of the Glow element holders and the fact that they are made from high fired, dense cordierite ceramic, makes element replacement easy without damage to the soft insulating fire brick grooves which occurs in competitors' kilns. In L&L kilns it is never necessary to "pin" elements in place because of the unique design of the Dyna Glow element holder. The heating elements are securely supported in the Dyna-Glow element holders and do not escape from them. In competitive makes, element damage often occurs when the element

escapes from soft insulating firebrick grooves. Other advantages are cleanliness, longer element life and much better heat distribution. Elements are of long life low watt density design.



This picture shows how easy it is to change elements with DYNA-GLOW Element Holders.

**ASK ANYONE  
WHO HAS HAD  
AN L&L KILN -  
DYNA-GLOW  
ELEMENT HOLDERS  
SAVE YOU MONEY!**

**UNIQUE FUSED INSTRUMENT PANEL WITH CONTACTORS AND EXTRA COOL OPERATION**  
mounted away from the kiln surface for cooler operation. Panels may be purchased for later addition of sections if desired. Each infinitely variable zone input control is equipped with a power contactor and double fuse system as per proper electrical practices. This system allows the addition of program controls or other electronic controls without addition of other power contactors. Just the installation of a receptacle for plug-in of control.

### 3 INCH COATED FIREBRICK INSULATION

3" of high temperature firebrick is used to insulate the kiln. This is coated with a specially formulated reflective coating which improves the efficiency of the insulation and improves the longevity of the firebrick lining.

### KILN SITTER AND TIMER INCLUDED

This is standard. If kiln is ordered with the Partlow 6000 Program control this is the safety system.

### POWER AND INFINITE ZONE INPUT

The OV SERIES of ceramic kilns has been engineered for sufficient power to operate properly to Cone 10 in a normal amount of time. Infinite adjustment of the input to each zone provides control over any firing cycles desired for the various types of ceramic firing. This method also provides excellent control over the kiln gradients for accurate firing.

### OPTIONAL HEARTH ELEMENT ZONE

For those ceramists who require absolute control over the firing chamber gradients as in dense loads, crystal growth, etc., L&L offers an infinitely variably controlled hearth element zone at nominal cost.

### OPTIONAL PARTLOW 6000 DIGITAL PROGRAM CONTROL WITH 8 SEPARATE PROGRAMS

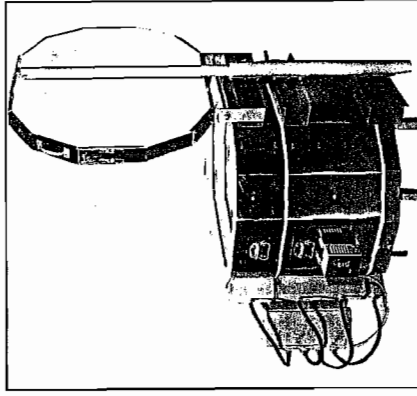
This program control features 8 independent profiles, each with 6 ramps and soaks. This very fine control system allows you to set up various time/temperature ceramic firing programs. It provides digital indication as well as many other state of the art features. A very advanced control at a reasonable price! Ask for separate bulletin on this control.

### OPTIONAL UNHEATED RING SECTION

Allows you to add extra 4-1/2" of height inexpensively.

**OPTIONAL LID COUNTERBALANCE SYSTEM**  
L&L design also introduces a unique lid counterbalance system (patent pending) with the following features:

- The lid is counterbalanced for very easy opening.
- The system is adjustable for later addition of sections for greater kiln height.
- The system is designed to support the lid independently thereby eliminating crushing of the soft firebrick at the hinge area as in competitive makes.
- When the lid is raised, one or more sections may be removed for easy loading of the kiln while the lid remains supported independently by the counterbalance structure.



This picture shows the unique counterbalance. You can temporarily remove sections for easy loading without removing the lid.

### EXPANDABLE DESIGN FOR LATER ADDITION OF KILN SECTIONS

An important design feature of the L&L Oval Kilns is the expandable design. Kiln sections may be added at any time to provide heights to 36" and 45". It may be wise to purchase the instrument panel with extra input zones when purchasing a 27" unit with the intention of subsequent expansion.

### ONE YEAR LIMITED WARRANTY

L&L Kilns are warranted on a full one year. See warranty for complete details.

# THE PROFESSIONAL CHOICE!

# OV SERIES OVAL KILN PRICE LIST

MODEL NUMBER	BASIC KILN PRICE INCLUDES LT3 SITTER AND EXTENSIONS	OPTIONAL HEARTH WITH ELEMENTS AND INPUT SWITCH (When Ordered with Kiln)	OPTIONAL LID COUNTER-BALANCE SYSTEM	OPTIONAL PYROMETER SYSTEM WITH MODEL NO AND PRICE	NUMBER OF THERMOCOUPLES IN PYROMETER	PACKING COST
OV2018	\$1,275.00	\$195.00	\$198.00	\$79.50 (P-2)	2 Thermocouples	\$30.00
OV2027	\$1,700.00	\$195.00	\$198.00	\$95.00 (P-3)	3 Thermocouples	\$38.50
OV2036	\$2,125.00	\$195.00	\$198.00	\$105.00 (P-4)	4 Thermocouples	\$47.00
OVX2009	<del>\$1225.00</del> 425.00					\$15.00 15.00
OVM2000	\$180.00 150.00					\$18.00 15.00
OVH2000		\$198.00				\$20.00
OV2527	\$1,995.00	\$225.00	\$198.00	\$95.00 (P-3)	3 Thermocouples	\$45.00
OV2536	\$2,525.00	\$225.00	\$198.00	\$105.00 (P-4)	4 Thermocouples	\$55.00
OV2545	\$3,055.00	\$225.00	\$198.00	\$115.00 (P-5)	5 Thermocouples	\$65.00
OV2509	\$530.00					\$20.00
OVR2500	\$195.00					\$20.00
OVH2000		\$225.00				\$30.00
OV3027	\$2,595.00	\$265.00	\$198.00	\$95.00 (P-3)	3 Thermocouples	\$57.50
OV3036	\$3,255.00	\$265.00	\$198.00	\$105.00 (P-4)	4 Thermocouples	\$69.50
OV3045	\$3,915.00	\$265.00	\$198.00	\$115.00 (P-5)	5 Thermocouples	\$80.00
OVX3009	\$660.00					\$25.00
OVR3000	\$225.00					\$25.00
OVH3000		\$265.00				\$30.00

**OPTIONAL PARTLOW 6000 PROGRAM CONTROL:** This includes it's own separate 120 volt power supply, separate thermocouple, metal control box, on/off switch and plug in control cord which plugs the instrument into the control panel of the kiln. The Partlow 6000 Digital program control features 8 independent programs with up to 6 segments of ramp and soak each. 3 year warranty. Ask for brochure. Price for complete system: \$595.00

**VOLTAGE:** Note that the OV SERIES Kilns are available in either 240 or 208 versions. BE SURE TO ORDER THE PROPER VOLTAGE! All new elements, contactors and input switches have to be installed if you order the voltage incorrectly. Please double check your voltage to avoid this extra cost. **Three phase wiring costs \$300 extra.**

**OPTIONAL PYROMETER SYSTEM:** This includes the number of thermocouples as mentioned in the above list - which is different for each model. It includes a full scale indicating pyrometer with Degrees Fahrenheit and Centegrade clearly marked on the front. It also includes a selector switch which allows you to switch between the various thermocouples to monitor each zone. In conjunction with the infinitely variable input switches this allows for the best possible control over the gradient accuracy of the kiln. This also checks on kiln sitter shut-off point.

**EXTRA CONTROL CIRCUITS FOR ADDITIONAL SECTIONS:** If you are planning to add sections later to your kiln, order the control panel with extra input circuits. These include the contactor and input switch necessary to control the new section. Add \$95.00 per each separate input zone.

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## L&L MANUFACTURING COMPANY, INC.



L & L Mfg. Co., Inc.

OV Series Kiln Addendum 6/1/88

Series OV 3000

Posts changed from (4) ea. to:  
(6) ea. 1/2" to 6" long posts (1 1/4" triangular)

26" x 14" shelves	\$35.00
22" x 14" shelves	26.00

Extra Large Posts

(4 ea.) 2", 4", 6", 8", 10", and 12"  
(1 5/8" x 1 5/8" square, hollow)

50.80



JANUARY 1, 1988 PRICE LIST

# OV SERIES OVAL KILN PRICE LIST

MODEL NUMBER	BASIC KILN PRICE INCLUDES LT3 SITTER AND EXTENSIONS	OPTIONAL HEARTH WITH ELEMENTS AND INPUT SWITCH (When Ordered with Kiln)	OPTIONAL LID COUNTER-BALANCE SYSTEM	OPTIONAL PYROMETER SYSTEM WITH MODEL NO AND PRICE	NUMBER OF THERMOCOUPLES IN PYROMETER	PACKING COST
OV2018	\$1,403.00	\$215.00	\$218.00	\$87.00 (P-2)	2 Thermocouples	\$33.00
OV2027	\$1,870.00	\$215.00	\$218.00	\$105.00 (P-3)	3 Thermocouples	\$42.00
OV2036	\$2,338.00	\$215.00	\$218.00	\$116.00 (P-4)	4 Thermocouples	\$52.00
OVX2009	\$468.00					\$17.00
OVR2000	\$165.00					\$17.00
OVH2000		\$215.00				\$22.00
OV2527	\$2,195.00	\$248.00	\$218.00	\$105.00 (P-3)	3 Thermocouples	\$50.00
OV2536	\$2,778.00	\$248.00	\$218.00	\$116.00 (P-4)	4 Thermocouples	\$61.00
OV2545	\$3,361.00	\$248.00	\$303.00	\$127.00 (P-5)	5 Thermocouples	\$72.00
OV2509	\$583.00					\$22.00
OVR2500	\$215.00					\$22.00
OVH2000		\$248.00				\$33.00
OV3027	\$2,855.00	\$292.00	\$218.00	\$105.00 (P-3)	3 Thermocouples	\$63.00
OV3036	\$3,581.00	\$292.00	\$218.00	\$116.00 (P-4)	4 Thermocouples	\$76.00
OV3045	\$4,307.00	\$292.00	\$303.00	\$127.00 (P-5)	5 Thermocouples	\$88.00
OVX3009	\$726.00					\$28.00
OVR3000	\$248.00					\$28.00
OVH3000		\$292.00				\$33.00

**OPTIONAL PARTLOW 6000 PROGRAM CONTROL:** This includes it's own separate 120 volt power supply, separate thermocouple, metal control box, on/off switch and plug in control cord which plugs the instrument into the control panel of the kiln. The Partlow 6000 Digital program control features 8 independent programs with up to 6 segments of ramp and soak each. 3 year warranty. Ask for brochure. **Price for complete system:\$695.00**

**VOLTAGE:** Note that the OV SERIES Kilns are available in either 240 or 208 versions. **BE SURE TO ORDER THE PROPER VOLTAGE!** All new elements, contactors and input switches have to be installed if you order the voltage incorrectly. Please double check your voltage to avoid this extra cost. **Three phase wiring costs \$300 extra.**

**OPTIONAL PYROMETER SYSTEM:** This includes the number of thermocouples as mentioned in the above list - which is different for each model. It includes a full scale indicating pyrometer with Degrees Fahrenheit and Centegrade clearly marked on the front. It also includes a selector switch which allows you to switch between the various thermocouples to monitor each zone. In conjunction with the infinitely variable input switches this allows for the best possible control over the gradient accuracy of the kiln. This also checks on kiln sitter shut-off point.

**EXTRA CONTROL CIRCUITS FOR ADDITIONAL SECTIONS:** If you are planning to add sections later to your kiln, order the control panel with extra input circuits. These include the contactor and input switch necessary to control the new section. **Add \$150.00 per each separate input zone.**

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**142 CONCHESTER ROAD, BOX 938, CHESTER, PA 19016**

## L&L MANUFACTURING COMPANY, INC.







Manufacturing Company, Inc.

ELECTRIC ECONO KILNS • DYNA KILNS • ENAMELING KILNS

142 Conchester Rd. • Chester P. O. Box 938  
Twin Oaks, Del. Co. Penna. 19016

Phones (215) HU 5-6334  
HU 5-6530

Recommended Kiln Furniture Kits  
for L & L Mfg. Co. OV Series  
Oval Kiln

Series OV 2000

(for 3 layers of shelves)

(6) - 15 1/2" half shelves	Price: \$134.70 + 10% = <u>\$148.40</u>
(3) - 8" x 16" shelves	Shipping weight: <u>55 Lbs.</u>
(4 ea) - 1/2" to 6" long posts (1 1/4" triangular)	Packing and handling (if shipped separately) <u>\$ 8.50</u>

Series OV 2500

(for 3 layers of shelves)

(6) - 21" half shelves	Price: \$220.20 + 10% = <u>\$242.00</u>
(3) - 22" x 14" shelves	Shipping weight: <u>104 Lbs</u>
(4 ea) 1/2" to 6" long posts (1 1/4" triangular)	Packing and handling (if shipped separately) <u>12.50</u>

Series OV 3000

(6) - 26" half shelves	Price: \$277.20 + 10% = <u>\$304.92</u>
(3) 26" x 14" shelves	Shipping weight: <u>174 Lbs</u>
(4 ea) 1/2" to 6" long posts (1 1/4" triangular)	Packing and handling (if shipped separately) <u>16.00</u>

Extra Large Posts

(4 ea) - 2", 4", 6", 8", 10", and 12" (1 5/8" x 1 5/8" square, hollow)	Price: <u>\$ 35.00</u>
	Shipping weight: <u>15 Lbs</u>
	Packing and handling (if shipped separately) <u>6.00</u>

