

**L&L MANUFACTURING CO., INC.**

# 3 SERIES

# ECONOMY KILNS

## **CONE 10! UL LISTED!**

2350°F—Cone 10  
hot enough to fire stoneware.

- **LIMITED WARRANTY**
- **UNIQUE NEW DETACHABLE INSTRUMENT PANEL AND KILN SITTER ASSEMBLY**
- **NEW INFINITELY VARIABLE INPUT SWITCHES** provide for accurate control of kiln temperatures. Soaking is easy. Perfect firing is now standard.
- **NEWLY ENGINEERED STEEL HINGES** are extra strong.
- **SOLID STAINLESS STEEL CASE**
- **STURDY, WELDED ALUMIZED STEEL STAND**
- **FOR OVER FORTY-EIGHT YEARS** L & L Manufacturing Co., Inc. has made the best electric kilns, leading in their field.

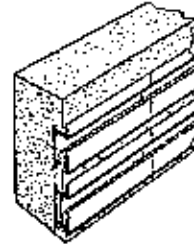


**L&L MANUFACTURING CO., INC. • 142 Conchester Road • Twin Oaks, Pa. 19014**  
**Mailing Address: Box 2090 Boothwyn, Pa. 19061**  
**215-485-6530 • Fax 215-485-1520**

## DYNA-GLOW ELEMENT HOLDERS A UNIQUE AND IMPORTANT FEATURE

1. Dyna-Glow element holders require a minimum of fire-brick insulation to be cut out for their installation. This means the J Series Econo Kiln is more efficiently insulated than any other kiln of this type of manufacture. Outside temperatures, and electrical costs are thus significantly reduced.
2. Any number of element replacements will in no way affect the element holders or brick walls unlike similar kilns of other makes which hold their elements in with the troublesome pinning method. Pinning problems are eliminated and full firing space is always insured.
3. Dyna-Glow element holders keep the elements securely and protectively in place so that the elements can not accidentally come out and cause damage to themselves, the kiln or your ware. Yet, replacement is simple.
4. Dyna-Glow element holders reflect the infra-red heat instantly into the kiln and therefore operate at a lower temperature relative to the internal kiln temperature. This results in better, more accurate firing, lower electrical cost and longer element life.
5. Dyna-Glow element holders have a hard, smooth surface. This allows the elements to expand and contract freely. No loose particles will fall in the kiln and ruin the ware and the elements will last longer.

BRICK WALL



BUILT INTO HOLDER

### WHAT DYNA-GLOW ELEMENT HOLDERS MEAN TO YOU

- |                               |   |
|-------------------------------|---|
| 1. Lesser electrical cost     | 4. Better heat distribution             |
| 2. Cleaner kiln               | 5. Longer element life                  |
| 3. Easier element replacement | 6. Years added to the life of your kiln |

**SOLID STAINLESS STEEL CASE**, strengthens construction, prevents rust.

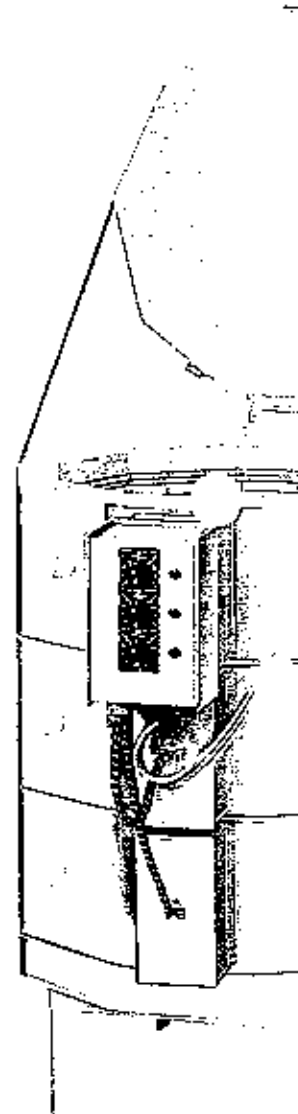
**PEEPHOLES** for ventilation plus sighting of cones as double safety factor. Plugs supplied for each peephole at no extra charge.

**WELDED ALL STEEL STAND** provides sturdy support of kiln.

**BOTTOM IS EASILY REVERSIBLE** in case of mishap with work.

**VERSATILITY OF SIZE:** All J Series Econo Kilns are sectionalized. Thus you can increase or decrease the size by adding or removing a section. Save on electric bills for small loads yet have ample firing capacity.

# L&L MANUFACT



## J SERIES

## PYROMETER AND PYROMETER SYSTEMS

Pyrometer system contains a pyrometer, a thermocouple selector switch and one thermocouple for each section (from one to five).

A thermocouple is placed in each section of the kiln, and by simply turning the selector switch you instantly know the temperature in each section of the kiln. If there is any imbalance in temperature in any section you can easily balance out heat with the infinitely variable input switches to get perfect results.

### EACH EXTENSION IS FULLY CONTROLLABLE.

Each has elements, infinitely variable input control and pilot light. We do not sell blank extension sections because proper control is not possible with them.

**NEWLY ENGINEERED LID ASSEMBLY** prevents accidental brick damage.

**NEWLY ENGINEERED HINGES** are extra strong providing firm support of lid.

**DETACHABLE INSTRUMENT PANEL MOUNTED ON BRACKETS AWAY FROM KILN.** If desired, panel may be sent to factory for repairs. Switches and other components operate more coolly and so last longer.

**FIREBRICK FACE HARDENED WITH SPECIAL FORMULA** to prevent natural dust of firebrick from ruining your ware.

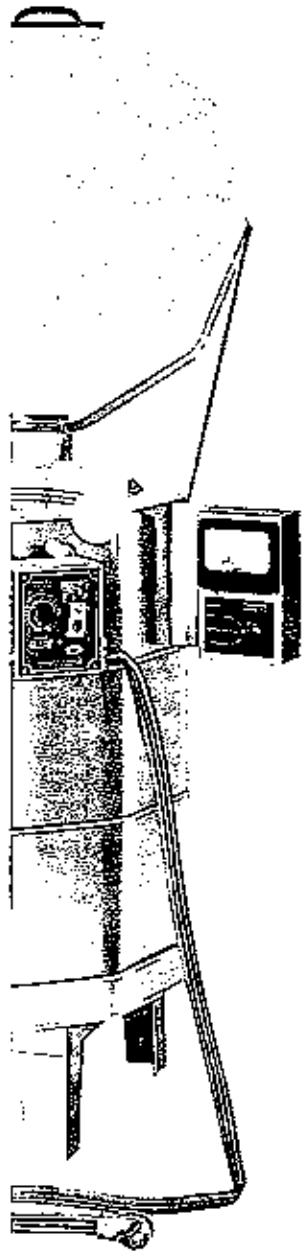
**PILOT LIGHT FOR EACH SWITCH** no more guesswork!

**INFINITELY VARIABLE INPUT CONTROLS**

### COMPLETE CONTROL

Combine the infinitely variable input control with individual pilot lights, unique element holders and the unique pyrometer system and you get control never before possible! Control the heat curve to accommodate all types of ceramic firing such as bisque, decorating, decal application, metallics, glaze, china painting, and stoneware. Tailor the firing characteristics to obtain the best possible work. Get perfectly even temperatures throughout all zones with this unique indicating and adjusting combination. In addition, because element holders provide a greater surface for the element heat to radiate from, they diffuse the heat making for more even firing.

# URING CO., INC.



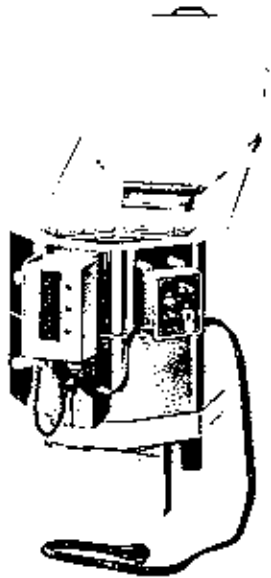
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## ECONO KILNS

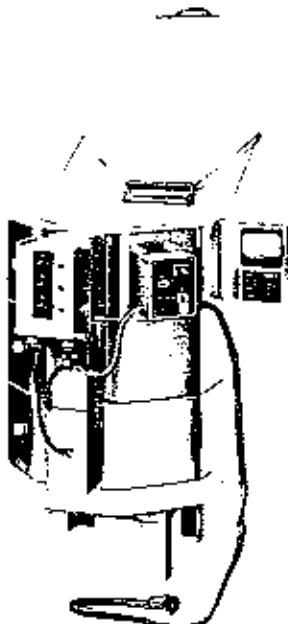
# OPTIONAL ECONO-TROL PROGRAM CONTROLLER



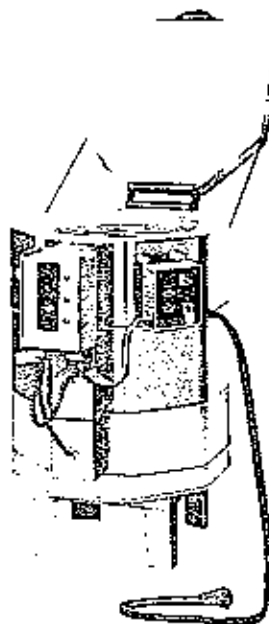
1. Wall mount type.
2. Delay start time of program up to 39 hours.
3. Select heat rise in degrees per hour. Can be very slow to very fast.
4. Set core valve of kiln shut-off.
5. Very accurate. Displays kiln temperature at all times.
6. See "Econo-Trol" literature for model & prices.
7. Most models plug into power receptacle, kiln plugs into control. Very easy to use.



J18



J18X



J18R

Model No.	Description	Firing Chamber Dimensions		Cubic Capacity	
		Opening	Depth	Cubic feet	Cubic inches
J 14	Basic Kiln	14 3/8 diameter	13 1/2"	1.4	2,420
JR 14	6 1/2" Extension for J 14 only	14 3/8 diameter	6 1/2"	.69	1,200
J 14-R	Model No. of J 14 complete with J 14 ext.	14 3/8 diameter	19 1/2"	2.09	3,620
J 18	Basic Kiln	17 1/2" Octagonal	18"	2.6	4,493
JR 18	6 1/2" Extension only for J 18	17 1/2" Octagonal	6 1/2"	.94	1,625
J 18-R	Model number of J 18 comp. with JR 18 extension	17 1/2" Octagonal	24 1/2"	3.54	6,118
JX 18	9" extension only for J18	17 1/2" Octagonal	9"	1.3	2,246
J18-X	Model number of J 18 comp. with JX 18 extension	17 1/2" Octagonal	27"		6,739
J 23	Basic Kiln	23 3/8 Diameter	18"	4.7	8,064
JR 23	9" extension only for J 23	23 3/8 Diameter	9"	2.35	4,032
J 230	Basic Kiln	23 3/8 Diameter	27"	7.05	12,091
J 236	Basic Kiln	23 3/8 Diameter	36"	9.4	16,128
J 245	Basic Kiln	23 3/8 Diameter	45"	11.75	20,160
JR 245 (same as JR 23)	Extension only for J 236. To convert J 236 into J 245	23 3/8 Diameter	9"	2.35	4,032

• Complete labeling and safety instructions on each kiln

## Dawson Kiln and Operating Characteristics

Extra Dimensions with installed Sitters and Instrument Panels  W x H x D	Zones and Infinitely Variable Input Controls	ELECTRICAL DATA			POWER RATING						Automatic Control Temperature Control	
		Power Supplies Required 208 or 240 single phase No. 3 phase units available	Main Plug-in Cords and Type Plugs Supplied	Type Receptacle Required	240 V Total Amps	Single Watts	Phase K.W.	208 V Total Amps	Single Watts	Phase K.W.	Dawson Kiln Sitter Model No. P	Dawson Sitters Mode
24 1/2" x 26 1/2" x 31 1/2"	1	1 - 30 ampere Safety Switch	1 - 50 amp. Cord with Nema 6-50P Plug.	1 - Nema 6-50R	13.40	3236	3.24	15.0	3120	3.12	This automatic temperature and power cut-off control cuts off the power to the kiln upon the burning of a pyrometric cone selected for the desired temperature. The cone is placed on a solenoid device inside of the kiln and when so placed it allows electrical power to flow to the infinitely variable input controls. When the pyrometric cone softens at the temperature was designed for the Dawson Kiln Sitter is de-energized and the sitters shut off.	
26 1/2" x 6 1/2" x 23 1/2"	Requires installation of extra input control in instrument panel of J 14	1 - 30 ampere Safety Switch J 14 fuse 20 amps J 14 complete with JR 14 fuse 25 amps.			6.74	1618	1.62	7.5	1560	1.56		
24 1/2" x 33" x 31 1/2"	2	1 - 30 ampere Safety Switch. Fuse 25 amps.	1 - 50 amp. Cord with Nema 6-50P Plug.	1 - Nema 6-50R	20.25	4854	4.85	22.5	4680	4.68		
23 1/2" x 31 1/2" x 33 1/2"	2 Zones 1 extra input control	1 - 30 ampere Safety Switch. Fuse 30 amps.	1 - 50 amp. Cord with Nema 6-50P Plug.	1 - Nema 6-50 R	23.0	5520	5.52	26.54	5520	5.52		
23 1/2" x 6 1/2" x 26"	For JR 18 extension				7.25	1740	1.74	8.36	1740	1.74		
23 1/2" x 37 1/2" x 33 1/2"	3 Zones 3 input Controls	1 - 60 ampere Safety Switch. Fuse 40 amps.			30.25	7260	7.26	34.9	7260	7.26		
23 1/2" x 9" x 26"					11.5	2760	2.76	13.27	2760	2.76		
23 1/2" x 10 1/2" x 33 1/2"	3 Zones 3 input controls	1 - 60 ampere Safety Switch. Fuse 40 amps.	1 - 50 amp. Cord with Nema 6-50P Plug.	1 - Nema 6-50 R	34.5	8280	8.28	39.8	8280	8.28		
30" x 31 1/2" x 40"	2 Zones 1 extra input control for JR 23	1 - 60 ampere Safety Switch. Fuse 35 amps.	1 - 50 amp. Cord with Nema 6-50P Plug.	1 - Nema 6-50R	29.32	7037	7.0	29.32	6098	6.1		
30" x 9" x 31 1/2"					14.66	3518	3.5	14.66	3049	3.0		
30" x 40 1/2" x 40"	3 Zones 3 input controls	1 - 60 ampere Safety Switch. Fuse 50 amps.	1 - 50 amp. Cord with Nema 6-50P Plug.	1 - Nema 6-50R	43.98	10,555	10.6	43.98	9,148	9.15		
30" x 49 1/2" x 40"	4 Zones 5 input controls The extra control for later addition of JR 245	1 - 100 ampere Safety Switch Fuse 65 amperes	Direct Hookup to Power Supply		58.64	14,074	14.0	58.64	12,197	12.2		
30" x 58 1/2" x 40"	5 Zones 5 input controls	1 - 100 ampere Safety Switch Fuse 80 amperes	Direct Hookup to Power Supply		73.3	17,592	17.6	73.3	15,246	15.24		
30" x 9" x 31 1/2"					14.66	3518	3.5	14.66	3049	3.0		

- All kilns are completely ready for operation.
- All prices shown on price list/ordering form.
- We can supply the heavy duty sock
- 208 Volts available at no cost. This must be specified when ordering. Check with your electric company.

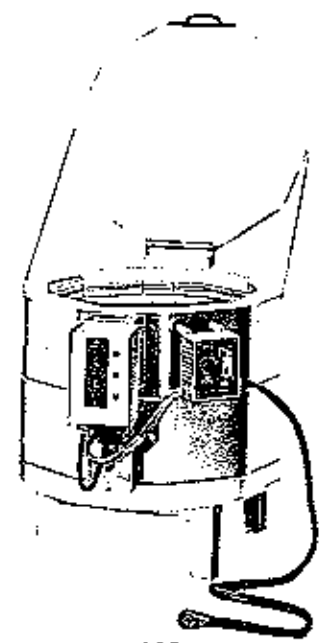
# We give you so much to choose

This control is the same as shown from other models except it is also equipped with a timer to shut off the power at the end of the firing period. When it will be available to set the time for the firing period.

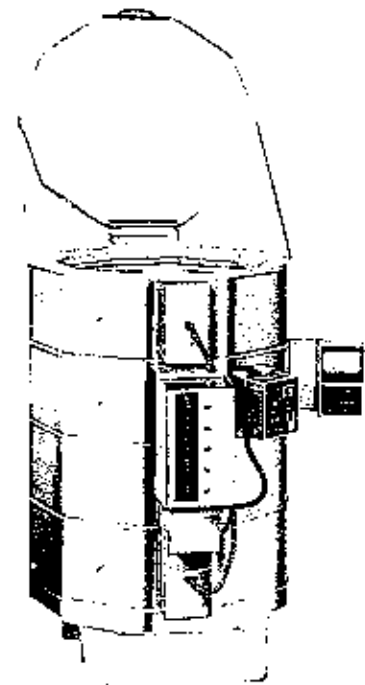
1-off w/als son Kitn with Timer 1No. LT3	Optional Pyrometric System Zone temperature indi- cation indicates zone input correction to at- tain even firing. Also serves as a check on action of Dawson Kiln Sitter.	Cone D5 (1915°F) Firing @ 3c Per K.W.H.			Shipping Weight
		Hours to Fire	K.W.H. Used	Cost of Firing	
Model P1 1 thermocouple		2½	19.	27c	90
					35
Model P2 with 2 thermocouples		2½	13.3	40c	115
Model P2 with 2 thermocouples		2½	15.1	45c	135
					45
Model P3 with 3 thermocouples		2½	19.9	60c	165
					50
Model P3 with 3 thermocouples		2½	22.7	68c	175
Model P2 with 2 thermocouples		2½	19.3	57c	210
					55
Model P3 with 3 thermocouples		2½	29.2	87c	255
Model P4 with 4 thermocouples		2½	38.5	1.15	300
Model P5 with 5 thermocouples		2½	48.4	1.45	345
					55

ets for the power cord if desired - see parts list for price.

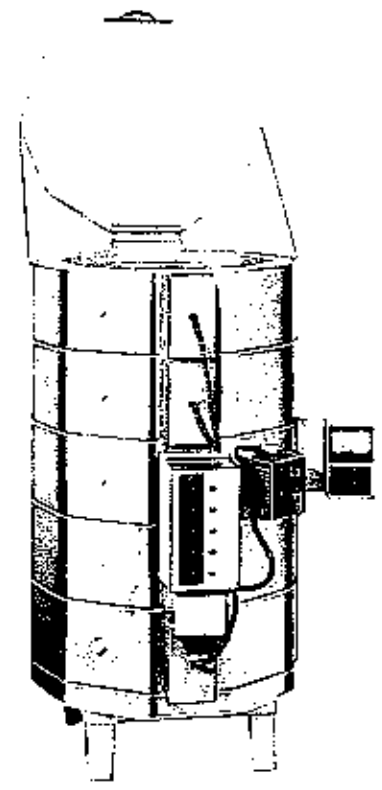
**Ask about our  
New Vent System  
for  
"J" Series**



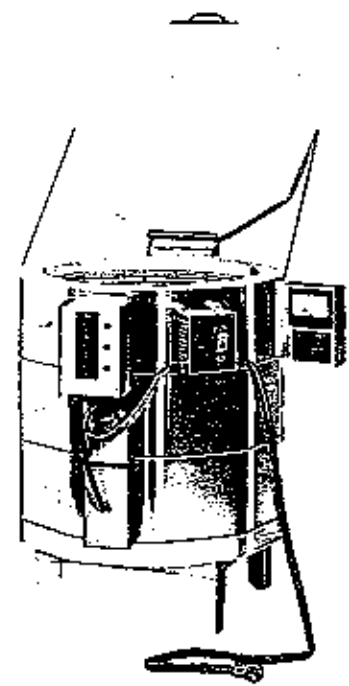
J23



J236



J245



J230

