



J18 POWER REQUIREMENTS	
208 VOLTS	3 PHASE
50-60 HZ	5.5 KW
23.0 AMPS	30 A Class H FUSES
220 VOLTS	3 PHASE
50-60 HZ	5.5 KW
23.1 AMPS	30 A Class H FUSES
240 VOLTS	3 PHASE
50-60 HZ	5.5 KW
19.9 AMPS	30 A Class H FUSES

J18-R REQUIREMENTS	
208 VOLTS	3 PHASE
50-60 HZ	7.26 KW
23.0 AMPS	30 A Class H FUSES
220 VOLTS	3 PHASE
50-60 HZ	7.26 KW
21.8 AMPS	30 A Class H FUSES
240 VOLTS	3 PHASE
50-60 HZ	7.26 KW
19.9 AMPS	30 A Class H FUSES

J18-X REQUIREMENTS	
208 VOLTS	3 PHASE
50-60 HZ	8.3 KW
23.0 AMPS	30 A Class H FUSES
220 VOLTS	3 PHASE
50-60 HZ	8.3 KW
19.9 AMPS	30 A Class H FUSES
240 VOLTS	3 PHASE
50-60 HZ	8.3 KW
19.9 AMPS	30 A Class H FUSES

SAFETY SWITCH BY CUSTOMER
 Connect to 240 Volt, 2 Wire, Single Phase - or
 220 Volt, 2 Wire, Single Phase - or
 208 Volt, 2 Wire, Single Phase
 50 or 60 Cycles.
SEE POWER REQUIREMENTS TABLE ABOVE.

AS OF 8/25/98, REV B, BRANCH CIRCUIT FUSING IS NO LONGER PROVIDED, AND 3 PHASE UNITS HAVE 20 AMP PLUGS AND RECEPTACLES.

TO CONVERT TO AUTOMATIC CONTROL:

Contact Factory for information on adding 4P if not already included, and ordering and installing a separate Control System which plugs into 4P, and also has its own 115 Volt power cord.

NOTES:

All control & power wiring is No. 14 AWG, SEWF-2.
 Industrial & commercial applications may require the installation of a LOCKOUT/TAGOUT device to prevent the Kiln from operating during maintenance.

This Kiln is recommended to be wired & connected to an approved U. L. & NEC configured receptacle and properly fused according to the KW load specification listed on the Kiln Nameplate. L&L Kiln Mfg., Inc., also recommends fuses rather than circuit breakers to prevent nuisance tripping.

- MODEL J18 = ZONES 1 THRU 2
2 - 9" RINGS
- MODEL J18-R = ZONES 1 THRU 3
1 - 6 1/2" RING
2 - 9" RINGS
- MODEL J18-X = ZONES 1 THRU 3
3 - 9" RING

ELECTRICAL PARTS LIST

SYMBOL	QTY	DESCRIPTION	SHOP PART NO.	CUSTOMER PART NO.
1TB	1	POWER CONNECTION BOARD	E-TER-3X6175-A1	L-J-PBLG/02
1TAS	1	DAWSON KILN SITTER W/ TIMER	T-DAW-LT3240-A1	N-G-LT30/00
1TAS	1 (OPT)	50Hz DAWSON KILN SITTER W/ TIM	T-DAW-LT3240-A2	N-G-LT30/50
C (240)	1	POWER CONTACTOR	E-CNT-D02521-A1	L-G-RL30/30
C (208)	1	POWER CONTACTOR	E-CNT-D02521-A2	L-G-RL30/20
SM (240)	3	INPUT ZONE SWITCHES	E-INF-240XXX-A1	L-J-INF0/30
SM (208)	3	INPUT ZONE SWITCHES	E-INF-208XXX-A1	L-J-INF0/20
LT	3	INPUT ZONE PILOT LIGHTS	.	L-G-PILO/00
R	VARIABLES	SINGLE RECEPTACLE NEMA 6-20R	E-REC-S20250-A1	L-J-SR20/00
P	VARIABLES	45" PLUGS NEMA 6-20P	E-CRD-345020-A1	L-J-JC45/00
H (240)	4-6	240 Volt HEATING ELEMENTS	.	E-J-1800/30
H (208)	4-6	208 Volt HEATING ELEMENTS	.	E-J-1800/20
H (220)	4-6	220 Volt HEATING ELEMENTS	.	E-J-1800/40
4P (opt)	1	INSTRUMENT RECEPTACLE	E-CNE-S302RP-A1	L-G-JNFM/00

C	11/13/08	UPDATED LOGO, ADDRESS, TITLE BLOCK, & BORDER
B	8/25/98	CHG'D ZONE N.O.S TO TOP THRU BOT; REMOVED FUSES
A	8/25/97	WIRING CHANGES
0	2/24/97	ISSUED AS REV 0 - NO CHANGES FROM REV P
REV#	DATE	REVISION DESCRIPTION

Kilns
hotkilns.com

505 SHARPTOWN ROAD
SWEDESBORO, NJ 08085

PHONE: (856) 294-0077
FAX: (856) 294-0070

TITLE **ECONO KILN WIRING DIAGRAM**
MODELS J18, J18-R, & J18-X
 Complete with Dawson Kiln Sitter
 208 or 240 Volts / 3 Phase

DRAWN BY	J.E.M.	REV. CODE	C	DRAWING NO.	K028-102
DATE	1/22/97	SCALE	1 = 8		
CHK		APP			
JOB NO	STANDARD	SER NO		SHEET NO.	OF
FILE NAME	L:\NEW\KILN\SERIES		MADE FROM	J18-3, J18R-3 (Manual L&L Mfg, Dwg)	
	K028-100.dwg				