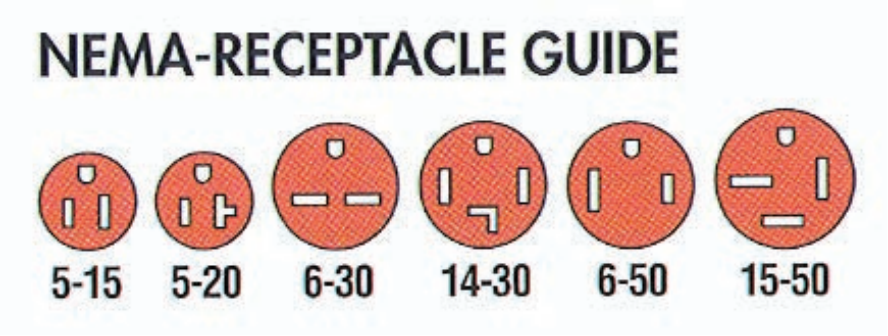
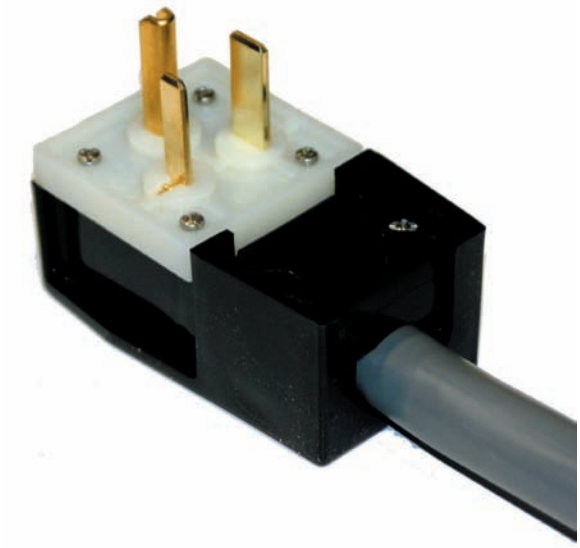
APPENDIX 5 — ELECTRICAL REQUIREMENTS



Most important to proper operation of your new kiln is to make sure it has enough of the correct power to operate. If this is done, your kiln will give you years of satisfying service; if not, your first firing could be disappointing or even disastrous for your kiln. The specification charts on the following pages show the recommended electrical specifications for each kiln model. If you are uncertain about your existing outlets, have them checked by an electrician. If you are installing a new receptacle, have the electrician follow this guide:

THREE-PHASE OPERATION

Only special order Models KM 1027 and KM 1227 will operate on a three-phase supply. However, any Skutt kiln can be properly powered via unbalanced connection to two of the three hot wires of a three-phase supply. Of course, the green safety ground connection provided in all Skutt power cords is also used. Three-phase Models KM 1027 and KM 1227 can be plugged directly into a three-phase (15-50R) wall receptacle.



VOLTAGE

As you can see from the chart, most Skutt models are available in either 208 or 240 volt versions. The exception is Model KM 714 which is universal, and will fire with 240V or 208V power.
The "120/208V" supply is increasingly encountered in schools and newly-built communities, because it's more efficient for heavy 120V loads. This affects Models KM 818, KM 818-30A, KM 1018, KM 1027 and KM 1227 because their elements receive the full 208 (or 240) applied volts. The 208V versions should never be fired on a 240V supply without first installing a full set of 240V elements. Otherwise, all components will be seriously overtaxed.

714 Wiring

Important: The wall outlets for Model KM 714 must be powered by 3-wire 120/240-208V solid neutral supply—as for an electric range. Only No. 10 wire is required for runs under 50 feet. 30 Amp fuses or circuit breakers only—no larger or smaller—are recommended. The U-shaped fourth blade of the 4W30 Amp grounding plug is for the pure green wire grounding of the kiln case. The blade opposite this U-shaped one takes the white solid neutral wire.

KILNMASTER KILNS AND WALL MOUNT CONTROLLERS							
Model	**PH**	**Volts**	**Amps**	**Watts**	**Copper Wire Size***	**Fuse or Breaker Size**	**NEMA Receptacle**
KM614	1	115	20	2300	10	30	(Canada) 5 – 30
KM614	1	115	20	2300	10	30	5 – 20
KM714	1	208-240	20	3600	10	30	14 – 30
KM818	1	240	27.8	6672	8	40	6 – 50
KM818	1	208	26.7	5554	8	40	6 – 50
KM818-30A	1	240	21.7	5208	10	30	6 – 30
KM818-30A	1	208	24	4992	10	30	6 – 30
KM1018	1	240	39.4	9456	6	50	6 – 50
KM1018	1	208	40	8320	6	50	6 – 50
KM1027	1	240	48	11520	6	60	6 – 50
KM1027	1	208	48	9984	6	60	6 – 50
KM1027	3	240	29.3	11520	8	40	15 – 50
KM1027	3	208	31.7	11000	8	40	15 – 50
KM1218	1	240	48	11520	6	60	6 – 50
KM1218	1	208	48	9984	6	60	6 – 50
KM1218	3	240	29.3	11520	8	40	15 – 50
KM1218	3	208	29.5	9984	8	40	15 – 50
KM1227	1	240	48	11520	6	60	6 – 50
KM1227	1	208	48	9984	6	60	6 – 50
KM1227	3	240	29.3	11520	8	40	15 – 50
KM1227	3	208	31.7	11000	8	40	15 – 50
KM-1	1	208- 240	Switching Capacity 48 AMPS				6 – 50
KM-1	3	208-240	Switching Capacity 40 AMPS				15 – 50

For each additional 50 feet use heavier wire, *numerically two numbers lower—for example, instead of #10, use #8. If you anticipate installing any larger kiln in the future, use the heavier wire. Electrical specifications listed above are suggested guidelines. Local electrical codes may vary.*

PK SPECIFICATIONS

Model	PH	Volts	Amps	Watts	Copper Wire Size*	NEMA Receptacle	Fuse or Breaker Size
KM1227PK	1	240	60	14400	4	Direct Wire	80
KM1227PK	1	208	69	14352	4	Direct Wire	90
KM1227PK	3	240	40	14300	6	Direct Wire	50
KM1227PK	3	208	46.7	14300	6	Direct Wire	60
KM1231PK	1	240	72	17280	2	Direct Wire	90
KM1231PK	1	208	80	16640	2	Direct Wire	100
KM1231PK	3	240	44.5	17300	6	Direct Wire	60
KM1231PK	3	208	51.5	17300	6	Direct Wire	65
KM1627PK-LF	1	240	68	16320	4	Direct Wire	85
KM1627PK-LF	1	208	69	14352	4	Direct Wire	90
KM1627PK-LF	3	240	46	16300	6	Direct Wire	60
KM1627PK-LF	3	208	47	14300	6	Direct Wire	60
KM1627PK	3	240	66	23600	4	Direct Wire	85
KM1627PK	3	208	76	23600	4	Direct Wire	95

For each additional 50 feet use heavier wire, *numerically two numbers lower—for example, instead of #10, use #8. If you anticipate installing any larger kiln in the future, use the heavier wire. Electrical specifications listed above are suggested guidelines. Local electrical codes may vary.*