SKUTT CERAMIC PRODUCTS

KM Kiln Specification Sheet

Electrical requirements for Skutt Automatic Kilns and KilnMaster Controller

Model	Volts	Amps	Watts	Copper Wire Size*	Fuse or Breaker Size	NEMA Receptacle Configuration
KM-614-3	115	20	2300	10	30	(Canada) 5-30
KM-614-3	115	20	2300	10	30	5-20
KM-714	240-208	20	3600	10	30	14-30
KM-818	240	26.7	6400	8	40	6-50
KM-818	208	26.7	6400	8	40	6-50
KM-818-30A	240	21.7	5200	10	30	6-30
KM-818-30A	208	24.0	4900	10	30	6-30
KM-1018	240	38.5	9250	6	50	6-50
KM-1018	208	40	8320	6	50	6-50
KM-1027	240	48	11520	6	60	6-50
KM-1027	208	48	9984	6	60	6-50
KM-1027 3ph	240	29.3	11520	8	40	15-50**
KM-1027 3ph	208	31.3	11000	8	45	15-50**
KM-1227	240	48	11520	6	60	6-50
KM-1227	208	48	9984	6	60	6-50
KM-1227 3ph	240	29.3	11520	8	40	15-50**
KM-1227 3ph	208	31.7	11000	8	45	15-50**
KM-1	240-208	Switching Capacity			48	6-50
KM-1 3ph	240-208	Switching Capacity			40	15-50

**For runs longer than 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. **See special instructions and wiring diagram.*

Additional Power Notes

Three-phase operation. Only special order Model 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 installation. Three-phase Models KM-1027 and KM-1227 can be plugged directly into a three-phase (15-50R) wall receptacle.

208 versus 240 supplies. 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-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.

(continued)

KM KILN SPECIFICATION SHEET

Important! Connecting and testing Model KM-714. 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 (or No. 8 for runs over 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. See the photo below and refer to the wiring diagram in Appendix 5 for the 714 plug diagram.