

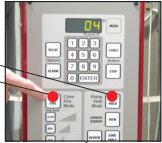
WE HELP YOU MAKE GREAT THINGS.



6441 SE JOHNSON CREEK BLVD., PORTLAND, OR 97206
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KILNMASTER CONTROL PANEL

- Ramp hold for specialized firing programs
- Cone Fire Mode (Preprogrammed firing modes)
- Diagnostics for Voltage and Amps



LID LATCH



LID BRACE AND ANCHOR



ENVIROVENT EXHAUST FAN/MOTOR

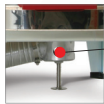
PEEP HOLE PLUG

KILN CAPACITIES

- KM 1627-3...18.5 cubic ft...100 Bowls
- KM1227-3.....9.9 cubic ft... 50 Bowls
- KM1218-3.....6.6 cubic ft... 42 Bowls
- KM1027.....7.0 cubic ft.... 38 Bowls**
- KM1018.....4.6 cubic ft....26 Bowls
- KM818.....2.6 cubic ft... 12 Bowls

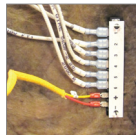


BOWL = 6" x 3"



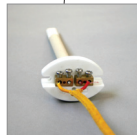
ENVIROVENT VENTING SYSTEM

Brings oxygen into and through the kiln for a better firing atmosphere. Spring-loaded venting cup provides enhanced stability and support.



FEEDER WIRES

Connects power to elements. Numbered for proper attachment.



THERMOCOUPLE

Sends temperature to controller.



3 PHASE PLUG



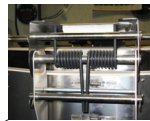
SINGLE PHASE PLUG



NEMA-RECEPTACLE GUIDE

ANATOMY OF A GREAT KILN: KM1027

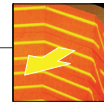
Airflow through three small holes in the lid and out through three small holes in the base.



SPRING-LOADED LID

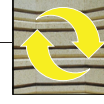
Featured in larger kilns where weight is a factor.

HEAT TRANSFERENCE



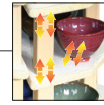
RADIATION

More elements in the wall for uniform heat radiation.



CONVECTION

from airflow through the chamber.



CONDUCTION

from touching items inside the kiln.

KILN ELEMENTS

Circle the kiln chamber.

POWER FLOW

SECTION LATCH

CHEST-HANDLE

SLAB BASE FLOOR

STAND

POWER CORD

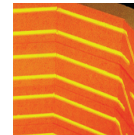


CERAMIC INSULATING BRICK

(above) weighs only 2 1/2 lbs.

SOLID HOUSE BRICK

(below) weighs 8 lbs.



IMPORTANT TEMPERATURES

- Water becomes steam: 212° F
- Chemically combined water driven off: 940° F
- Quartz inversion: 1058° F
- Organic/Carbon Burnout: 570°-1470° F
- Clay particles begin to fuse together: 1600° Sintering

TEMPERATURE EQUIVALENTS

CONE	°F	°C	COLOR FIRE	CLAY REACTION	GLAZES
10	2345	1285	white	stoneware & porcelain clays	high-fire glazes salt glazes
9	2300	1260			
8	2280	1249			
7	2262	1239			
6	2232	1222		mid-range stoneware & porcelain clays	mid-range glazes
5	2167	1186			
4	2124	1162			
3	2106	1152			
2	2088	1142			
1	2079	1137	yellow		
01	2046	1119			
02	2016	1102			
03	1987	1086			
04	1945	1063		low-fire red & white clays	low-fire glazes
05	1888	1031			
06	1828	998			
07	1789	976			
08	1728	942			
09	1688	920	orange		
010	1657	903			
011	1607	875		sintering occurs	
012	1582	861	cherry red		
013	1539	837			
014	1500	816			
015	1485	807			
016	1456	791		organic matter burns out	
017	1422	772			
018	1360	738	dull red		overglazes/china paints
019	1319	715			
020	1252	678			
021	1159	626			enamels
022	1112	600			
022	1087	586		dehydration begins	

*Temperatures listed above are accurate only when the kiln is fired at 100° F/hr during the last 200° F of the firing.
*Glass Techniques: Slumping, Fusing and Tacking. For more specific information on these techniques, visit www.skutt.com



SLOW - 12 hour Bisque or Glaze firing, Cone 04



MEDIUM - 7 1/2 hour Glaze firing, Cone 04

For custom firings such as zinc crystals and fusing glass, see www.skutt.com for details.

PYROMETRIC CONE

Designed to measure HEAT WORK = time+temperature

SHELF

POST