

The KilnMaster™ Automatic Kiln Line

Electronic precision and convenience with our KilnMaster Controller

Since we introduced Skutt KilnMaster® automatic kilns, we have found them growing in popularity among a wide variety of users.

Artists enjoy the freedom to design and experiment with their own firing schedules.

Teachers appreciate the ability to program a delay so they can schedule their firings at convenient times. No more waiting around to turn up switches.

Production studios have come to rely on the highly precise, repeatable firings that are a result of top-quality controls.

Whether you're firing 50 pencil holders for your 3rd grade art class, or a custom tile entryway for Trump Tower, you can benefit from a Skutt automatic kiln, or wall-mounted KilnMaster Controller.

NEW!
All KilnMaster Kilns now include new features:
EASIER TO READ DISPLAY
NEW SAFETY FEATURES
IMPROVED DIAGNOSTICS
NEW PROGRAMMING OPTIONS
& MUCH, MUCH MORE

To find out more about the great new features visit:
www.skutt.com/features/controller.html

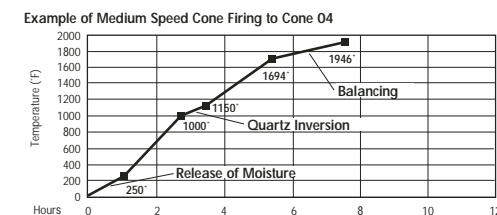
PRECISION FIRING

We give you two ways to achieve precise firings time after time.

■ Every clay body and glaze has a "Cone" value associated with it. With the **Cone Fire Mode** just enter that cone value, choose a speed based on the projects size and thickness, and choose a hold time if desired to "soak" the kiln at the peak temperature. Press START and walk away with the confidence of knowing that your kiln is running a sophisticated firing program designed by experts.

You can even set it up to automatically Pre-heat larger pieces before it begins the program.

Cone Fire Mode
Lets you fire by simply entering the desired Cone number.
Firing speeds
Choose from Slow, Medium or Fast heating.



■ **Ramp/Hold mode** lets you design your own firing programs of up to eight segments. Each segment can include temperature rate, end temperature and holding time. You can store up to six profiles for easy recall. These capabilities are essential for potters, glass fusers, enamellists and jewelers. For example, it is

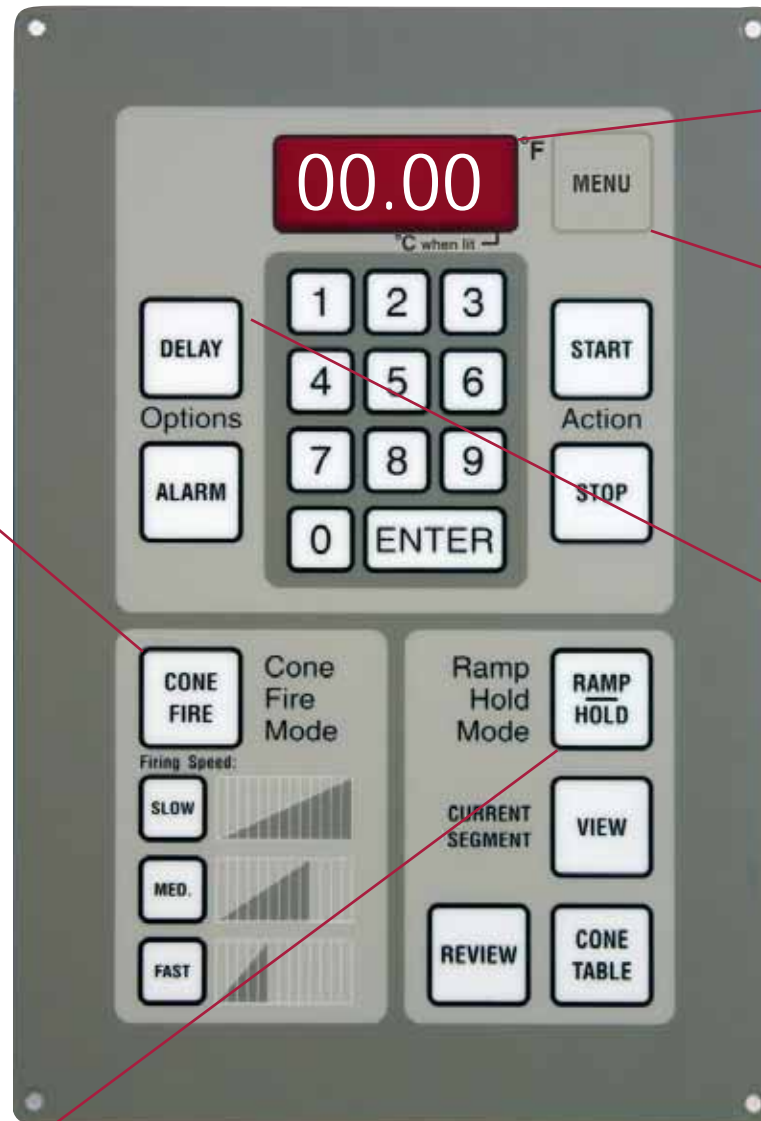
Ramp/Hold Mode
Lets you select up to eight segments of temperature change and hold.
View Current Segment
Shows you what Ramp/Hold segment the kiln is currently in.

now easy to program crystal glaze pottery firings which require long, precise soaks.

The example below shows a typical Ramp/Hold profile for a Cone 10 crystal glaze firing.

Example of Programmed Ramp/Hold Crystal Glaze Firing to Cone 10

Segment	Rate	Temperature	Hold
1	200°/hr	800°	0
2	150°/hr	1250°	0
3	300°/hr	2100°	0
4	108°/hr	2345°	0
5	9999°/hr*	2050°	3.00



Digital Readout
Shows prompts, messages and temperature throughout firing and cooldown.
Touch Pad
Smooth surface pads are easily cleaned, have no moving parts.

■ The sealed touch pad, shown at left, is designed with single-function control buttons that

are grouped to make programming a snap. There are no special codes to memorize—just follow the prompts. Because the KilnMaster allows you to store programs, it is simple to recall your stored program and begin the firing. A real timesaver.

EASE OF PROGRAMMING

■ The KilnMaster frees your time for productive activities. There are no more switches to be turned up, no more junior cones to buy, store or place. No longer do you have to adjust

your schedule to the kiln. Simply program in a Delay so the kiln will finish firing when it's convenient for you to be there. You can set the temperature alarm to remind you to lower the lid. The

Delay Option
Lets you delay start of firing.
Alarm
You can set alarm to sound at any temperature.

CONVENIENCE

Temperature Scale Selector
Lets you work in degrees F or C.

controller can be programmed to display temperatures in Celsius or Fahrenheit. There is a built-in Cone Table for easy reference. To view the current firing segment, simply press View. If you forget which program is in memory, press Review to see the entire program, segment by segment.

DURABLE, INNOVATIVE DESIGN

■ Skutt designers worked for many years to develop an automatic kiln system that could meet our standards of quality and durability. To maintain our modular, sectional kiln construction, our control box features numbered lead wires and a patented hinge that make it easy to move or repair the kiln. The control box is well insulated to protect the circuitry from heat. If your kiln



is not performing properly, the KilnMaster will auto-matically give you an error message to explain the problem. It will also detect power failures, and resume the firing if power is out for a short period.

■ **New Software** on the KilnMaster Controller allows our technicians to diagnose most problems that can occur with your kiln over the phone. This is just one of the great new features of this new controller. For more information on this new board go to www.skutt.com/features/controller.html.

INSTRUCTIONAL DVD INCLUDED

■ Every KilnMaster kiln comes with an instructional video which will guide you from setting up your kiln all the way through programming your first firing.



KILNMASTER
AUTOMATIC
KILN LINE

KILNMASTER
AUTOMATIC
KILN LINE



KM1227-3

- The KM1227-3 is Skutt's ultimate low fire production kiln. The 10 cubic foot firing chamber makes it very popular with schools, contemporary studios and production bisque companies.
- When coupled with an EnviroVent, this kiln with its KilnMaster Controller gives precise repeatable firings time after time.
- Lid Lifter and 3-inch brick are standard on this model.

KM1218-3

- The KM1218-3 provides a big opening and big power, with 6.6 cubic feet capacity and a Cone 10 rating.
- The 28 inch diameter opening allows for large platters.
- Low profile design means easy loading and unloading.
- Lid Lifter and 3-inch brick are standard on this model.

Model	Phase	Volts	Amps	Watts	Cone	Temp	Cu. Ft.	Opening	Depth	Ship Wt.	Copper Wire Size	Breaker Size	NEMA Receptacle
KM1227-3	1	240	48.0	11520	8	2300	9.9	28.13	27	400	6	60	6-50
		208	48.0	9984	5	2185	9.9	28.13	27	400	6	60	6-50
	3	240	29.3	11520	8	2300	9.9	28.13	27	400	8	40	15-50
		208	31.7	11000	8	2300	9.9	28.13	27	400	8	40	15-50
KM1218-3	1	240	48.0	11520	10	2350	6.6	28.13	18	330	6	60	6-50
		208	48.0	9980	10	2350	6.6	28.13	18	330	6	60	6-50
	3	240	29.3	11520	10	2350	6.6	28.13	18	330	8	40	15-50
		208	29.5	9980	10	2350	6.6	28.13	18	330	8	40	15-50



KM1027

- The KM1027 is our most popular and versatile model. With its cone 10 power and 7 cubic-foot chamber capacity there are very few projects this kiln can't handle.
- An optional 3 brick upgrade makes this model a more efficient high fire kiln and raises the rating for 208 volt models to Cone 10. (Please note that with the added insulation, the chamber diameter is reduced by 1 .)

Model	Phase	Volts	Amps	Watts	Cone	Temp	Cu. Ft.	Opening	Depth	Ship Wt.	Copper Wire Size	Breaker Size	NEMA Receptacle
KM1027	1	240	48.0	11520	10	2350	7.0	23.38	27	290	6	60	6-50
		208	48.0	9984	6	2250	7.0	23.38	27	290	6	60	6-50
	3	240	29.3	11520	10	2350	7.0	23.38	27	290	8	40	15-50
		208	31.7	11000	10	2350	7.0	23.38	27	290	8	40	15-50
KM1027-3	1	240	48.0	11520	10	2350	6.4	22.38	27	320	6	60	6-50
		208	48.0	9984	10	2350	6.4	22.38	27	320	6	60	6-50
	3	240	29.3	11520	10	2350	6.4	22.38	27	320	8	40	15-50
		208	31.7	11000	10	2350	6.4	22.38	27	320	8	40	15-50
KM1018	1	240	39.4	9456	10	2350	4.6	23.38	18	250	6	50	6-50
		208	40.0	8320	10	2350	4.6	23.38	18	250	6	50	6-50
KM1018-3	1	240	39.4	9456	10	2350	4.2	22.38	18	275	6	50	6-50
		208	40.0	8320	10	2350	4.2	22.38	18	275	6	50	6-50

KM1018

- The KM1018 offers the wide capacity of a large kiln coupled with the easy loading height of a smaller kiln. Great for platters!
- It fires to porcelain and stoneware temperatures and has also become a popular glass fusing kiln.
- Optional 3 brick upgrade makes this model a more efficient high fire kiln. (Please note that with the added insulation, the chamber diameter is reduced by 1 .)



Make a great KilnMaster kiln even better with these upgrades



KM818

- The compact and versatile KM818 is a great home studio model.
- Cone 10 power makes it perfect for porcelain.
- 30-amp Cone 8 model available. (3 brick only)

KM714

- The KM714 provides big features in a small size.
- Excellent size for doll artists.
- Will run on 208 volt or 240 volt supply.
- Automatic controls make it versatile enough to fire just about any material.

KM614-3

- Make yourself at home with the KM614-3, an economical test kiln with precision control.
- Runs on a 115 volt current with a 30 amp breaker, so it can be set up in nearly any house or apartment.
- Light weight makes it easy to move or take with you.

Model	Phase	Volts	Amps	Watts	Cone	Temp	Cu. Ft.	Opening	Depth	Ship Wt.	Copper Wr. Sz.	Breaker Size	NEMA Rcptcl.
KM818	1	240	27.8	6672	10	2350	2.6	17.5	18	145	8	40	6-50
		208	26.7	5554	10	2350	2.6	17.5	18	145	8	40	6-50
KM818-3	1	240	27.8	6672	10	2350	2.3	16.5	18	160	8	40	6-50
		208	26.7	5554	10	2350	2.3	16.5	18	160	8	40	6-50
KM818-3-30A	1	240	21.7	5208	8	2300	2.3	16.5	18	160	10	30	6-30
		208	24	4992	8	2300	2.3	16.5	18	160	10	30	6-30
KM714	1	240	20.0	3600	8	2300	1.4	14.38	13.5	95	10	30	14-30
		208	20.0	3600	8	2300	1.4	14.38	13.5	95	10	30	14-30
KM614-3	1	115	20.0	2300	6	2250	0.8	11	13.5	88	10	30	5-20 5-30 Canada

TYPE S THERMOCOUPLE



■ Type S are the most accurate thermocouples available and do not degrade under the harsh environment of Cone 6 and Cone 10 firings. This could be the last thermocouple you ever have to buy. (Requires special controller and thermocouple wire. Please consult with your distributor or Skutt on existing kiln upgrades.)

APM ELEMENTS



■ Kanthal APM elements are different from standard elements because they are manufactured from powdered material. This new technology provides improved dimensional stability at higher temperatures which results in significantly longer element life. If you are firing Crystal Glazes or consistently firing Cone 10 materials, these elements are highly recommended.

ENERGY-SAVING 3 BRICK



■ 3 brick provides better insulation and higher energy savings by increasing the brick thickness from the standard 2-1/2 size. This upgrade is recommended for high-fire models. 3 firebrick increases the temperature rating and slows cooling.

■ A model shown in chart with a "-3" designation means it comes standard on the model.

ZONE CONTROL



■ Zone control is a feature that allows the kiln to fire each section of the kiln independently. This is done by placing a thermocouple in each section of the kiln. The controller reads each thermocouple and cycles each section on or off if it varies too much from the desired program. It is a great way to even out the heat in the kiln when the load is not uniform. It is also great for firing glass. Zone control will not work well on kilns without a very high power to volume ratio, therefore it is only available as an upgrade on certain models. This feature is standard on the KM1627PK.

LID LIFTER



■ All 10- and 12-sided models now come standard with a Lid Lifter. The Lid Lifter makes opening your kiln lid safe and effortless. The Lid Lifter also comes standard with a 3 position lid prop and 2 position lid brace for added safety and convenience. Lid Lifter upgrade kits are also available to easily install on older 10- and 12-sided models.

Model	Type S Thermo	APM Elements	3" Brick	Zone Control	Lid Lifter
KM1627-3PK	✓	✓	■	■	∅
KM1627-3PK-LF	✓	✓	■	∅	∅
KM1231-3PK	✓	✓	■	✓	■
KM1227-3PK	✓	✓	■	✓	■
KM1227-3	✓	✓	■	✓	■
KM1218-3	✓	✓	■	∅	■
KM1027	✓	✓	✓	∅	■
KM1027-3	✓	✓	■	*	■
KM1018	✓	✓	✓	∅	■
KM1018-3	✓	✓	■	∅	■
KM818	✓	✓	✓	∅	∅
KM818-3	✓	✓	■	∅	∅
KM714	✓	✓	∅	∅	∅
KM614-3	✓	✓	■	∅	∅

■ Comes standard on this model. * Available for all KM1027-3 models except 208 single phase.

✓ Upgrade available.

∅ Upgrade not available.

Kiln accessories are listed on page 20-21.