



**SKUTT**  
GLASS KILNS



# How to select the right Skutt kiln for you

**Your Skutt kiln should be with you for quite some time, therefore it is important to select the model that will meet your needs now, and in the future. To help in your selection process, we have constructed a series of questions that should help you narrow your search to the models which will work best for you.**

## Which models will fit in the area you have chosen to locate the kiln?

Skutt kilns require 18" of clearance on all sides from combustible walls. Check the outside dimensions of the models that interest you to determine if the kilns will fit in the area you have chosen to place it.

## Which models will fit the pieces you wish to fire?

Next, you need to find out if the chamber of the kiln will be large enough to fire the pieces you produce. The 3 things to consider when choosing the necessary chamber size are:

- ☛ What are the dimensions of the largest piece you will want to fuse or slump?
- ☛ Do you want to be able to fuse on multiple levels in one firing?
- ☛ How do you feel your needs will grow in the next 5 years?

## Which design style best suits your needs?

There are three basic design styles to choose from: Top Loaders, Front Loaders, and Clam shell. All three have their advantages. Top loaders are cylindrical in shape and have lids that open from the top. Front Loaders have a rectangular or square shape and are hinged on the side to open like a door. Clam shell designs are hinged on the back of a square design and open like a clam.

## Which models will work on your power supply?

The next step is to find a kiln that will operate on the electrical service of your building. Ordering a kiln that does not match your electrical service can be very frustrating and expensive to correct.

Some models require an electrician to install the wire from the circuit breaker panel to the wall receptacle as well as the receptacle. It is also wise to have the electrician verify voltage, amperage and phase when he visits on-site to estimate the job.

**Voltage** – One of the common misconceptions regarding voltage is that "220" is an actual voltage reading in the USA. Rather, it is used as a generic term for appliances that can run on either 208V or 240V systems. As a general rule 208V is common in schools and businesses and 240V is common in residential areas however exceptions are quite common. The GM10F and GP706 run on standard 110V household outlets.

**Amperage** – Most buildings have a limited amperage available without having the power company upgrade service. In some cases it will be necessary to install a dedicated breaker to run the kiln. Your circuit box or fuse panel must have room for the breaker or fuse that corresponds to the model you choose.

**Phase** – Kilns can be wired for single-phase or 3-phase power supplies. Single-phase power supplies have two current carrying wires and a ground wire and are common in residential and industrial areas. 3-phase power supplies utilize 3 current-carrying wires and a ground wire and are usually only found in businesses and institutions. There are exceptions, and some buildings have both supplies available. All 110V outlets are single phase.

## What accessories and options do you want?

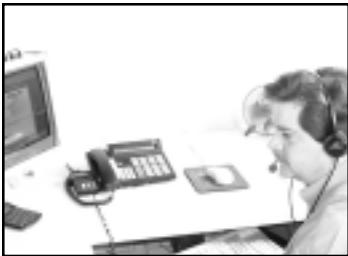
With these questions answered you should now be able to make a well informed decision on the particular model of kiln that will fit your needs. All that is left now is picking the accessory items that you want. Descriptions of all accessories can be found on the back page of this catalog.

# A revolution in kilns



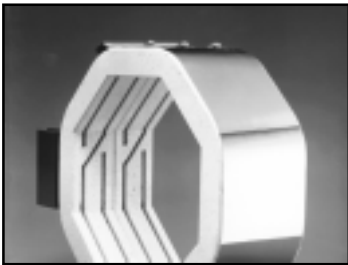
## a reputation for quality

When founders R.W. and Neil Skutt introduced the first multi-side electric kiln back in 1953, the industry was revolutionized. To this day, we remain the industry standard and the Skutt name has earned an unparalleled reputation for quality and customer satisfaction. Skutt uses only the highest quality Kanthal A-1 elements, electrical components, bricks, hardware and stainless steel. Every switch is tested individually before it is installed, and every kiln is tested and thoroughly inspected before it is shipped. The result is a kiln that can withstand many firings.



## 2 year warranty

Every Skutt kiln comes with a 2 year warranty that covers the repair or replacement of any defective part on the kiln. Our trained kiln technicians are available 5 days a week from 7:30 AM to 5:00PM to help diagnose any problem you may have with the kiln. Most all of our customers will never need warranty service however it is nice to know that someone will be there to help you if you need it. Our mission statement reads simply "Helping our customers create great things by supplying excellent products and personal service."



## modular design

Skutt kilns are designed with a unique modular construction. Larger kilns are constructed in multiple sections that are buckled together. Lids and slabs are easily removed and can be reversed for double the life. Control boxes are hinged for easy access to wiring and also can be easily removed and sent in for repair if needed. All of these features add up to a kiln that is easy to setup, move and repair.

## unique design features

### GAS SHOCKS

The GM22CS is equipped with Gas shocks that make opening the kiln nearly effortless. The shocks are positioned so they are conveniently out of the way to give you clear access to the kiln's chamber when loading the kiln.



### HANGING ELEMENTS

A removable fiber lid gives you full access to the elements when it is time for replacement. The elements hang over refractory rods which insures that no debris will fall into your project during the firing.



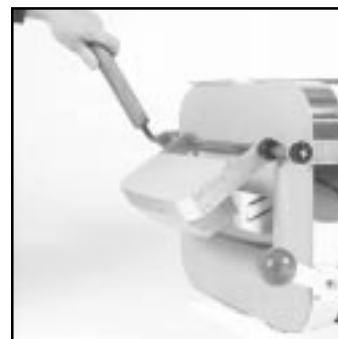
### GLASSMASTER CONTROLLER

The GlassMaster Controller offers innovative features that were designed using the input of Glass artist all over the country. The user interface makes programming easy for beginners while still providing all the features needed by glass professionals.



### INSULATED BEAD DOOR

The handle on the GM10F's optional bead door is counter balanced and positioned to allow the bead artist to open the door without exposing their hands to the heat of the kiln. The handle is made of wood and is cooler to the touch than metal handles.



## Designed by Glass Artists

The GlassMaster controller is the product of years of research. We asked artists and glass manufactures all over the country what features they would like to see in a controller. The result is a controller that's extremely easy to program and offers the flexibility of a wide array of innovative features.

## Ease of Programming

The key layout on the GlassMaster is designed to be easy to understand and efficient. Multifunction keys allow you to load and review saved programs with a minimum amount of key strokes.

Adjustments can be made even during the firing without interruption. Beginners and professionals alike will appreciate the logical design of the layout.

## Innovative Features

There are two programming modes available on the GlassMaster.

The **Glass Fire Mode** allows you to access factory installed programs designed for general fusing, slumping, and tack fusing. While the type of glass, the thickness, and the techniques may vary with each project there are some general heating and annealing principals that are common.

The Glass Fire Mode allows you to choose from 3 different firing speeds and since you control the point at which the kiln goes into the annealing phase this easy programming mode can be used quite often.

The **Ramp Hold Mode** allows you to design and store your own programs for specialized projects. You can use up to 16 segments which consist of a temperature, a heating or cooling rate, and a hold time if one is desired. You can store up to 6 of your programs for easy recall.

The **Add Time, Add Temp, and Anneal** features allow you to control the final segment of the heating phase so the kiln begins annealing when you want it to.

The **View** key allows you to check the current segment. The display constantly displays the temperature and hold times throughout the firing.

# GlassMaster control features.

### LED Display

**MENU** allows access to advanced programming features.

If an error is made the programmer can press **BACK** to input the correct data.

The **Anneal** key is pressed when the glass has attained the desired heatwork and the artist wishes to begin the annealing process.

**Add Time** key adds time to the final heating segment in increments of 5 minutes during the firing.

**Add Temp** adds 5 degrees F of heat to the final heating segment.

The **View** key will display the current segment of the firing program.

**Ramp Hold** allows the professional to construct and store their own specialized firing programs.

The GlassMaster can be programmed in **Fahrenheit or Celsius.**

The **Review** key displays the program that is currently loaded.

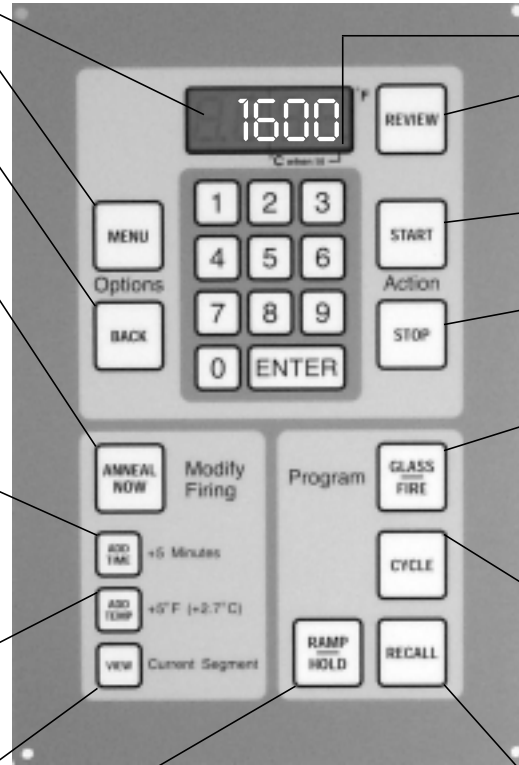
The **Start** key begins the program.

The **Stop** key will stop the program at any point in the firing.

The **Glass Fire** key accesses preset fusing, slumping, and tack fusing programs with choices of varying firing speeds.

The **Cycle** key is used in conjunction with the Glass Fire key to choose various options.

For quick access to stored Ramp Hold programs simply press the **Recall** key.



## Here is how it works!

In Glass Fire Mode all you need to do is match your project to the chart to determine the correct firing speed, choose whether you want to Full Fuse, Tack Fuse, or Slump, and press Start. It's that easy.

<b>FAST</b>	1/8" THICK - 18" DIAMETER OR SMALLER 1/4" THICK - 4" DIAMETER OR SMALLER 3/8" THICK - NOT RECOMMENDED
<b>MEDIUM</b>	1/8" THICK - 20" DIAMETER OR SMALLER 1/4" THICK - 8" DIAMETER OR SMALLER 3/8" THICK - 5" DIAMETER OR SMALLER
<b>SLOW</b>	1/8" THICK - 24" DIAMETER OR SMALLER 1/4" THICK - 18" DIAMETER OR SMALLER 3/8" THICK - 12" DIAMETER OR SMALLER 1/2" THICK - 8" DIAMETER OR SMALLER

Use Ramp and Hold Mode for projects that require more specialized fire programs. In this mode you choose the number of segments, enter the Rate, Temperature and Hold Time for each segment and press start.

<b>FULL FUSE - SLOW</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>
RATE (°F/HR)	300	300	300	600	600	9999	30	60
TEMPERATURE (°F)	250	500	750	1250	1480	1000	970	750
HOLD TIME (HR.MIN)	00.25	00.25	00.25	00.20	00.15	02.00	02.00	00.01

## GM22CS

The Clam shell design is the premier shape for fusing and shallow slumping. It provides easy access to the glass for loading and manipulating.

The top chamber of the kiln retains the heat when the kiln is opened and the bottom allows room for heat to flow under the shelf for uniform heating.

The kiln holds a 20" shelf with room enough for your fingers for easy placement.

The elements are hung on a refractory rod which helps extend life and prevent particles from falling into the glass. The fiber top is removable which makes changing elements easier than any kiln on the market.



The unit is controlled by a GlassMaster wallmounted controller.

### FEATURES

- Wallmounted GlassMaster Controller
- Clam shell design
- Removable fiber lid
- Gas shocks
- Elements hung on refractory rods
- Encapsulated Type K thermocouple.
- Easily fits 20" shelf
- 8" reinforced stand
- Safety shutoff



### SPECIFICATIONS

MODEL	OPENING	DEPTH	CU/FT	PHASE	VOLTS	AMPS	WATTS
GM22CS	23.25" X 24.5"	13-1/2"	4.35	1	240	31.0	7450
	SHIP WT	TEMPERATURE	WIRE SIZE	BREAKER	RECEPTACLE		
	257	1800° F	8	40	6-50		

\*ALSO AVAILABLE IN 3 PHASE AND 208 CONFIGURATIONS.

## GM10F

While perfect for annealing torch work beads, this kiln is also an excellent fusing kiln for smaller projects.

The kiln comes standard with a side hinged door but can be ordered with the easy-to-operate bead door. Both doors come with wooden handles which are mounted away from the heat and allow you to open them without gloves.

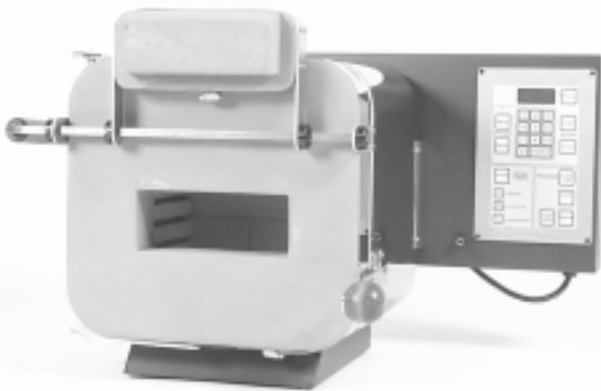


The GlassMaster controller is also standard on this unit. The accurate and stable temperature provided by the controller is perfect for annealing.

Extremely portable and works on standard household current.

### FEATURES:

- GlassMaster Controller
- Front loader design (door opens on the side)
- Optional bead door
- Works on standard household current
- Encapsulated Type K thermocouple
- Built-in stand
- Portable



### SPECIFICATIONS

MODEL	OPENING	DEPTH	CU/FT	PHASE	VOLTS	AMPS	WATTS
GM10F	10" X 9"	9"	.45	1	115	15	1725
	SHIP WT	TEMPERATURE	WIRE SIZE	BREAKER	RECEPTACLE		
	82	1800° F	12	20	5-15		

## 6 STUDIO SERIES

The top and side firing elements on the GM814, GM1014 and GM1414 make these units fire very evenly and allow for glass projects to heat at a uniform rate. With a 13.5" chamber height these kilns are much taller than other top firing kilns allowing for tall slumping and drop mold projects. They are equipped standard with the GlassMaster Controller which gives you the precision and versatility needed for complicated firing projects. The GP706 operates on standard household voltage and makes a wonderful beginner fusing kiln.



### GP706

#### FEATURES:

- Pyrometer
- Infinite switch
- Element in lid
- Works on standard household current
- Easily fits 13" shelf
- 8" stand
- Portable
- Porcelain peep plug



### GM814

#### FEATURES:

- GlassMaster Controller
- Lid and side fired elements
- Encapsulated Type K Thermocouple.
- Easily fits 16" shelf
- 8" stand
- Portable
- Porcelain peep plugs



### GM1014

#### FEATURES:

- GlassMaster Controller
- Lid and side fired elements
- Encapsulated Type K Thermocouple.
- Easily fits 22" shelf
- 8" stand
- Portable
- Porcelain peep plugs



### GM1414

#### FEATURES:

- GlassMaster Controller
- Lid and side fired elements
- Encapsulated Type K Thermocouple
- 8" stand
- Portable
- Oval design

#### SPECIFICATIONS

MODEL	OPENING	DEPTH	CU/FT	PHASE	VOLTS	AMPS	WATTS
GP706	15"	6.5"	.6	1	115	15	1690
	SHIP WT	TEMPERATURE			WIRE SIZE	BREAKER	RECEPTACLE
	66	1650° F			12	12	5-15

#### SPECIFICATIONS

MODEL	OPENING	DEPTH	CU/FT	PHASE	VOLTS	AMPS	WATTS
GM814	17.5"	13.5"	2	1	240	27.8	6660
	SHIP WT	TEMPERATURE			WIRE SIZE	BREAKER	RECEPTACLE
	130	1800° F			8	40	6-50

#### SPECIFICATIONS

MODEL	OPENING	DEPTH	CU/FT	PHASE	VOLTS	AMPS	WATTS
GM1014	23.5"	13.5"	3.5	1	240	34.0	8140
	SHIP WT	TEMPERATURE			WIRE SIZE	BREAKER	RECEPTACLE
	174	1800° F			6	50	6-50

#### SPECIFICATIONS

MODEL	OPENING	DEPTH	CU/FT	PHASE	VOLTS	AMPS	WATTS
GM1414	41.5" x 24.5"	13.5"	6.7	1	240/208*	34.7/40	8320
	SHIP WT	TEMPERATURE			WIRE SIZE	BREAKER	RECEPTACLE
	241	1800° F			6	50	6-50
MODEL	OPENING	DEPTH	CU/FT	PHASE	VOLTS	AMPS	WATTS
GM1414-3PH	41.5" x 24.5"	13.5"	6.7	3	240/208*	20/23.1	8320
	SHIP WT	TEMPERATURE			WIRE SIZE	BREAKER	RECEPTACLE
	241	1800° F			10	30	15-50

\*KILN MUST BE ORDERED SPECIFICALLY WITH THE VOLTAGE IT IS TO BE OPERATED ON.

This extremely versatile line of kilns allows for fusing on multiple layers. With Zone Control standard, these models fire each section independently to insure even firing from the top to bottom. With chamber depths of up to 27 inches these kilns are great for large drop molds, annealing tall sculptural pieces and fusing on multiple levels.



## GM818

**FEATURES:**

- GlassMaster Controller
- Zone control
- Side fired elements
- Encapsulated Type K Thermocouple.
- Easily fits 16" shelf
- 8" stand
- Portable
- Porcelain peep plugs

## GM1018

**FEATURES:**

- GlassMaster Controller
- Zone control
- Side fired elements
- Encapsulated Type K thermocouple.
- Easily fits 22" shelf
- 8" stand
- Portable
- Porcelain peep plugs

## GM1227

**FEATURES:**

- GlassMaster Controller
- Zone control
- Side fired elements
- Encapsulated Type K thermocouple.
- Easily fits 26" shelf
- 8" stand
- Portable
- Porcelain peep plugs

**SPECIFICATIONS**

MODEL	OPENING	DEPTH	CU/FT	PHASE	VOLTS	AMPS	WATTS
GM818	17.5"	18"	2.6	1	240	27.8	6660
	SHIP WT		TEMPERATURE		WIRE SIZE	BREAKER	RECEPTACLE
	147		1800° F		8	40	6-50

**SPECIFICATIONS**

MODEL	OPENING	DEPTH	CU/FT	PHASE	VOLTS	AMPS	WATTS
GM1018	23.5"	18"	4.6	1	240	39.4	9460
	SHIP WT		TEMPERATURE		WIRE SIZE	BREAKER	RECEPTACLE
	196		1800° F		6	50	6-50

**SPECIFICATIONS**

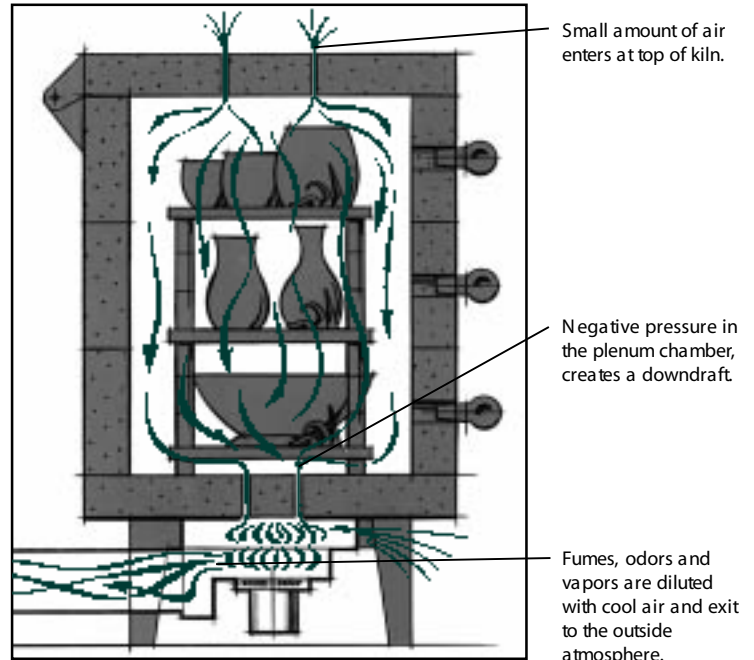
MODEL	OPENING	DEPTH	CU/FT	PHASE	VOLTS	AMPS	WATTS
GM1227	28"	27"	9.9	1	240	48	11520
	SHIP WT		TEMPERATURE		WIRE SIZE	BREAKER	RECEPTACLE
	351		1800° F		6	60	6-50

# Optional equipment to customize your kiln

## The EnviroVent: fresher room environment, consistent kiln environment

The Skutt EnviroVent is a truly effective kiln venting system. The EnviroVent fits Skutt 12, 10, and 8-sided kilns, as well as many other kiln brands. The EnviroVent pulls fumes from the kiln before they can enter the room. The EnviroVent is UL listed when installed with a Skutt kiln bearing the UL mark and meets standard building codes in most jurisdictions.

The EnviroVent is easy to install. The vent slides into the Skutt kiln stand and the kiln is simply placed on top of the vent. Small holes are drilled in the lid and the slab to provide a pathway for the airflow. These holes can be drilled at the factory when the kiln is ordered or easily drilled on location for upgrades. We even supply the drill bits. Flexible or rigid metal ducting is installed just as you would a household dryer.



## kiln shelves

Our Kiln Shelves and Posts are sold individually or as kits. A furniture kit is used to create shelf layers inside your kiln. Although the contents of shelf kits vary depending on the kiln model all shelf kits will contain a selection of shelves and 1 or more post assortment kits. All furniture kits are designed to fire up to 2350 F.



## pyrometer

A pyrometer will let you know what the temperature of the kiln chamber is throughout the entire firing. This is especially helpful to know when you are firing glass, heat treating metal or troubleshooting your kiln. The pyrometer comes complete with an MI Cable Type K thermocouple and all the mounting hardware needed.



## energy-saving 3" brick

While the cost of firing a kiln is much less than most people think, every penny helps. 3" Brick offers 1/2 more insulation than standard brick and therefore costs less to fire. Not available on some models.

## zone control

The Zone Control feature was designed for users who require tight uniformity of heat throughout the kiln. This feature incorporates thermocouples in each kiln section so each section can be monitored and controlled independently. This can be very helpful for applications where it is not possible to load the kiln evenly. The increased control can extend firing times in certain situations. Consult your distributor for more details.

## computer interface system

This system allows you to program, monitor and graph the firings of up to 10 GlassMaster controlled kilns using a PC. Installation is simple and quick. The system includes a CD with the software and all of the necessary hardware to connect your computer to the GM controller.

### REQUIREMENTS

- Microsoft Windows 95 or Microsoft Windows NT 3.51 or later
- 80386 or higher microprocessor
- VGA or higher-resolution screen supported by Microsoft Windows
- 4 MB of RAM
- 5 MB of disk space



**SKUTT**  
GLASS KILNS