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PA-31/4-06

## “We fire Paragon kilns daily. Quite frankly, they rock!”

—Jonathan Kaplan

“Paragon kilns have consistently proved and demonstrated their dependability over many years for us,” said Jonathan Kaplan of Ceramic Design Group in Steamboat Springs, Colorado.

“Paragon has ‘raised the bar’ with their current Viking electronic kilns,” Jonathan said. “The craftsmanship of the brick work is unparalleled. The brickwork is tight, and the top row of brick is blank, with the elements placed in lower channels to eliminate that thin section of brick that has been prone to break.

“The redesigned electrical system, using mercury relays and well-designed wiring in a large, well-ventilated and accessible switch box, is totally user friendly.

“Paragon’s new Sentry electronic controller provides a high degree of sophistica-



Jonathan Kaplan in his studio. Photo by Ken Proper Exposure.

tion, yet is totally easy to program. The controller is remarkably flexible and has many built-in options that make firing easy and consistent.”

## “Our Paragon kilns are truly workhorses.”

—Judith Conway



Judith Finn Conway and Kevin O'Toole with their Paragon Pearl-18 glass kiln. “Our Paragon kilns are essential to the successful operation of Vitrum Studio,” said Judith.

“Our Paragon kilns are essential to the successful operation of Vitrum Studio, our kiln-formed glass studio in the Washington, DC area,” said Judith Conway. “We could not do our job without them. As one of the region’s largest glass teaching facilities, our arsenal of 16 Paragon kilns is always at the ready.

“During our busy spring and fall semesters, we fire, on average, eight kilns full of fused and cast glass projects every day,” said Judith. “Our Paragon GL-24s and GL-64 are truly workhorses and can handle any firing program we design, with absolute accuracy and dependable results, time after time. We also have a number of smaller Paragon kilns in use everyday for test firings and smaller projects.”

# How to Choose a Kiln

## See Kiln Selection Chart, page 23

This section applies to ceramics, pottery, stoneware, china painting, and enameling. For glass, see page 14. For an in-depth guide to selecting a kiln, see "Build a Kiln" at [www.paragonweb.com](http://www.paragonweb.com).

## Temperature

Be sure the kiln you order is rated hot enough for the ware you intend to fire. The higher the kiln's temperature rating, the more types of ware you can fire. See Specifications, pages 24-27, for kiln temperature ratings.

- 2350°F Porcelain and stoneware
- 2300° - 2000°F Low-fire ceramics
- 1400°-1700°F China painting, glass fusing, glass slumping, enameling, bead annealing

## Kiln Size

The larger the kiln, usually the lower the cost per cubic foot of interior space. The 8-sided kilns (page 7), which average 3 cubic feet, are the most popular hobby size, because the cost per cubic foot is low, and 8-sided kilns are large enough to fire most greenware, including Christmas trees.

The most popular sizes for dolls are 6- or 7-sided kilns (page 6) and the 8-sided S-1613-3 or TnF-1613-3 (page 7). Doll kilns average 1.2 cubic feet.

Before purchasing a 10- or 12-sided kiln, visit a studio that has the kiln on display. Reach down inside the kiln to be sure you are tall enough to load it. If you have difficulty loading a studio kiln, consider the shorter S-, SnF- or TnF-23-3 and the TnF-27-3 (pg 8-9).

## House or Apartment?

You can own a kiln even if you live in an apartment. You will probably want a portable, 120 volt model.

Your kiln will need a well-ventilated, covered area, away from flammable materials. If you fire the kiln in a garage, remove cans of paint and gasoline, lawn mower, etc.

## Electrical

- 120 volt
- \_\_\_\_\_ Other voltage
- 240 volt
- Single phase
- 208 volt
- Three phase

220 volts is not an actual voltage reading in the U.S.A. It is a label used for appliances that can be used on either 208 or 240 volts.

Will you need a new circuit for your kiln? Have only a licensed electrician install it. Use copper wiring, not aluminum.

208 volt wiring is becoming common in commercial areas, strip malls and schools. 208 volt and 240 volt circuits use the same wall outlets, so you can't tell them apart visually. Call your power company or electrician if you are not sure about your voltage or phase. If you fire a 240 volt kiln on a 208 volt circuit, it will fire slowly and may never reach maximum

temperature. Some schools have both 240v and 208v, so always check the voltage.

Incidentally, 240 volt kilns do not necessarily fire hotter or faster than 120 volt kilns.

## Round or Square

On a per cubic foot basis, the "round" kilns (6-, 7-, 8-, 10- and 12-sided) are less expensive than the square, because they are easier to build. Ceramists usually buy the round models. Schools and potters sometimes buy the large square kilns, because they are especially durable and slow-cooling.

## Top- or Front-Loading

Front-loading kilns are preferred for enameling, where pieces are removed from the kiln at 1450° F. This would be difficult with a top-loading kiln since the heat rises when you open the lid. Ceramists use the small front loaders for glaze testing and small pieces.

The front-loading Dragon and Iguana kilns (pages 10-11) are easier to load than top-loading kilns. They are ideal choices for those with back problems.

## Insulating Firebrick Wall Thickness

Most ceramic kiln walls are either 2½" or 3" thick. Kilns with 3" walls and lid take slightly less energy to fire due to the extra insulation. However, their main advantage is that they reach a higher temperature than their 2½" counterparts. They also cool more slowly, important when firing heavy pieces prone to cracking, and for special glaze effects. To fire stoneware or porcelain, buy a 3" wall kiln. Model numbers of most Paragon 3" wall kilns end in "-3".

The Dragon and Super Dragon walls are 4 - 4 ½" thick (pg 10). The extra wall thickness yields energy savings for the production potter.

## Manual or Automatic

If you prefer a manual, switch-operated kiln, don't worry. We'll continue making them even though the automatic kilns are more popular. We have the widest kiln selection in the industry.

Automatic kilns are gaining in popularity, because they are much easier to fire. Paragon kilns come in either digital automatic or SnF-series automatic with cone shut-off. Please turn the page for details.

## Recommended Accessories Kiln Furniture

When estimating the price of a ceramic kiln, include the cost of furniture (the shelves and posts stacked inside the kiln). With furniture, you can stack multiple layers of ware.

Without it, you could fire only the ware that fits on the kiln bottom.

## Orton Vent Master

Especially recommended for garage and basement studios. Vents fumes out of the firing room and improves firing results. (See page 20.)

## AOP Outlet

An outlet on the switchbox of some digital models enables the controller to turn off the kiln vent. (See page 21.)

## Deluxe Stand with Casters

Recommended if you will move the kiln out of the way when not in use. (See page 21.)

## Firing Safety Glasses

Use our firing safety glasses when looking into the peephole of a hot kiln. We consider them a must for all kiln owners. (See page 22.)

## Ordering Check List

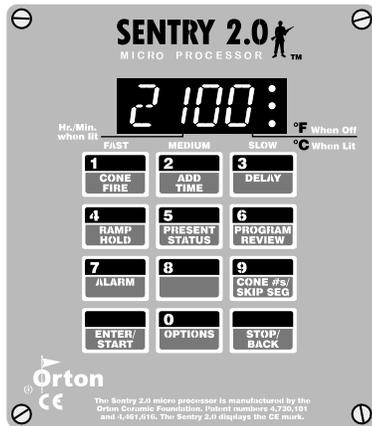
- Is your dealer knowledgeable about firing? Unless you are a kiln expert, this can be as important as the price of the kiln.
- Can the dealer perform warranty repair? If not, you may have to do any warranty work yourself or send the kiln to the factory. Especially if you buy the kiln over the Internet, find out how the dealer handles warranty.
- If comparison shopping, have you asked about the cost of crating? (Paragon kilns are crated at no extra charge. Crates for most kilns are sturdy wood.) Are you paying extra for the stand or the Limit Timer?
- Do you have a covered, well-ventilated location for the kiln, protected from the weather? Is the area free of flammable materials?
- Is the kiln room large enough? You will need 12" of additional clearance on all sides of the kiln during operation. We do not recommend small enclosed rooms such as closets, which can overheat.
- Will the kiln fit through the doorway? Measure to be sure. (Passage clearance needed for large kilns is listed on pages 24 - 27.)
- Are you sure about voltage and electrical phase? 240 and 208 volt outlets cause confusion because they look the same. Check with your power company if in doubt.
- Will you need special wiring? Figure this into your budget.
- Larger kilns: Will you need help unloading the kiln upon delivery? Package handling companies off-load and uncrate for a small fee. Otherwise make sure you have enough people to help unload the kiln. Ask if a forklift or truck with lift gate is available.
- When your kiln is delivered and you sign for it, add the notation "Subject to inspection" next to your signature.

*Many thanks to Steven Drollinger for his ideas in this check list and for other suggestions in the catalog.*

# Sentry 12- and 3-Key Controllers

Paragon digital kilns are powered by the 12-key Sentry micro processor or the smaller 3-key Sentry Xpress. These micro processors are the result of intensive effort between Paragon Industries, L.P. and Orton Ceramic Foundation. These user-friendly controllers add convenience and accuracy to your firings.

Owning a Sentry is like hiring an assistant to watch your kiln. Nevertheless, please remember that you should monitor the kiln occasionally during firing, especially near the expected shut-off. (We do not warrant against over-fires. Please see Warranty, page 27.)



## Sentry 12-Key 2.0

- **Temperature Display** throughout firing and cooling in your choice of °F or °C
- **Stop/Back Key** goes back one step with each key press during programming. Use this feature to correct programming errors.
- **Add Time Key** adds five minutes to a temperature hold with each key press during firing. Helpful for glass with holds.
- **Program Review** lets you check the program you are about to fire.
- **Audible Temperature Alarm** to remind yourself to close a vented lid or to check the kiln near firing completion.
- **30 Month Warranty**
- **Thermocouple Selection** The Sentry 2.0 can operate types K, S or R thermocouples.
- **Error Messages** report mechanical problems such as a disconnected thermocouple, bad voltage, temperature deviation.
- **Program Safety Lock** for the program in active memory. Gives you peace of mind.
- **Delay Fire** Set the time that the firing is to start. The kiln will turn on at that time.
- **LED Lights** show when the relays are powered.
- **Quick Release Molex Connectors** permit fast removal of the controller. The

controller is very reliable. Nevertheless, replacing the Sentry 2.0 or Sentry Xpress takes only minutes. Remove 4 screws.

The Sentry 2.0 can be installed on all existing Paragon 12-key digital kilns. It uses the same size faceplate as the earlier DTC 100 - 1000 series. Upgrade a switch-operated kiln with the wall-mount version. (See page 21.)

## Thermocouples

The thermocouple senses temperature inside the kiln. The standard thermocouple on most Paragon kilns equipped with the Sentry 2.0 is the Type-K. It is hermetically sealed in a metal sheath for long life.

Though a precision instrument, the thermocouple wears with use, resulting in a gradual shift in temperature readout. (This wear occurs mostly above 2000°F.) If you fire pottery, consider the deluxe Type-S (page 21), noted for its extreme longevity.

## Two Firing Modes

The Sentry 2.0 operates in two modes: ceramic Cone-Fire, and custom-firing Ramp-Hold. The Sentry 2.0 on ceramic kilns comes with both Cone-Fire and Ramp-Hold. The Sentry 2.0 on enameling, jewelry, heat treating and glass kilns comes with Ramp-Hold mode only.

## Ceramic Cone-Fire Mode

Cone-Fire fires to pyrometric cones. Among the exciting features:

- **Slow Cooling** Adjustable cooling rate. Cool slowly to achieve dramatic shifts in glaze color and crystalline development. Try this with iron reds. Enjoy the richer look of gas firing.
- **Customized Speeds** Alter the standard Cone-Fire Slow, Medium and Fast firing speeds with the Options key.
- **Skip Segment** skips past Pre-Heat and Hold during firing.
- **Pre-Heat** maintains a drying, or candling, temperature of 200°F for the period you specify at the beginning of firing.
- **Cone Table** Enter a cone number. This feature shows temperature for that cone.
- **Hold** soaks the ware at the end of a Cone-Fire. This produces higher gloss and richer, deeper colors in some glazes.

## Ramp-Hold Custom Programming

Ramp-Hold allows you to infinitely adjust each part of the firing cycle. Vary the firing to obtain different effects from the same glaze.

Ramp-Hold programs are divided into segments. Each segment has a target temperature, firing rate, and, if desired, a temperature hold.

- **Skip Segment**
- **Program Storage** of one 18-segment and three 10-segment programs, even when the kiln is unplugged.

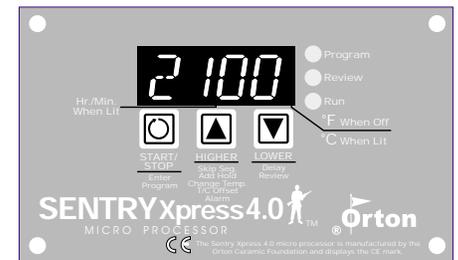
- **Present Status** shows which segment the kiln has reached during firing.
- **Controlled Cooling** For deeper colors, especially iron reds, experiment with slow cooling.
- **Hold** is available in every segment.

## AOP Vent

The "Auxiliary Output" is available on most Paragon kilns that have the Sentry 2.0. The AOP is a relay-powered electrical receptacle mounted to the kiln. You can plug an Orton Vent Master into the AOP to control when the vent operates during firing. (See page 21 for vent, page 21 for AOP.)

## Three-Zone Firing

Standard digital kilns are single zone; 3-zone is a factory-installed option on most models. Three zone is faster and more accurate than on previous 3-zone controllers because of the Sentry's time-temperature algorithm. This eliminates the temperature lag adjustment.



## Sentry Xpress 3-Key

This powerful little gem is packed with features. On ceramic kilns, the controller includes Cone-Fire and 8-segment Ramp-Hold modes. On glass and jewelry kilns, it includes Single Speed and 8-segment Ramp-Hold modes. (Note: Ramp-Hold and Cone-Fire on the Sentry Xpress do not include some of the advanced features of the Sentry 2.0.)

- **Add Hold Time** during firing.
- **Change Target Temperature** of the current segment during firing.
- **Audible Temperature Alarm**
- **Skip Segment** during Ramp-Hold firing.
- **Hold** maintains the target temperature.
- **Storage Memory** Ramp-Hold mode can store 4 custom programs.
- **Program Review** lets you check the program you are about to fire.
- **Temperature Display** throughout firing and cooling in your choice of °F or °C
- **Error Messages**
- **12 Month Warranty**
- **LED Lights** show whether you are in program, review, or firing mode.
- **Quick Release Molex Connectors**
- **Thermocouple Offset**
- **Delay Fire**

# S-Series Manual Kilns

**S**-series manual-fire kilns operate without electronics or timers. They use infinite control switches to adjust heat output. These switches have been proven reliable over many years of kiln production.

The infinite control switch cycles on and off through a bi-metallic timer. The higher the switch setting, the longer the heating elements stay on during each cycle. When the switch is turned to High, the elements stay on continuously.

For most firings, the switches are set on LOW to begin with, then turned up to higher settings. Adjusting the switches can control heat distribution in the 8-, 10- and 12-sided S-series (though not the 7-sided). If a section of kiln is firing too hot, turn the switch for that section to a lower setting than the other switches. This is especially effective near the end of the firing.

A Dawson Kiln Sitter® with Limit Timer comes standard on S-series. The Kiln Sitter shuts off the kiln at the end of firing; the Limit Timer is a safety back-up. (See below.)



# SnF-Series Non-Digital Automatic

## SnF-Series

**S**nF-series automatic kilns use switch-timers to change the heat settings. A Dawson Kiln Sitter with Limit Timer shuts the kiln off at the end of the firing.

The top switch of an SnF kiln is an infinite control. The switch cycles on and off. The higher the switch setting, the longer the heating elements stay on during each cycle. This switch controls the heat output during the first stage of firing.

The second switch (and third, if the kiln has one) is a switch-timer. When you set the second (and third) switches, you are adjusting timers, the same way you would set an egg timer. As the kiln fires and the timers run out of time, the second (and then the third) switches turn on, thereby delivering power to the elements.

At the beginning of firing, the only elements that turn on are the ones wired to the top switch. When the time you set on the second switch elapses, stage two firing begins. The time adjusted on the second switch determines the firing time of the first stage. The third switch (if the kiln has one) is a timer that adjusts firing time on the second stage of firing. As timers run out of

time, more elements are powered, raising the temperature.

The SnF kilns are easy to fire. Basic switch settings are printed right on the front of the switch box. The SnF kilns have proven, since 1987, to be very reliable.

## Dawson Kiln Sitter® with Limit Timer

**U**ntil Paragon popularized electronic controllers, the Dawson Kiln Sitter was the mainstay in automatic kiln shut-off. The Kiln Sitter is dependable and accurate when fired properly.

A small pyrometric cone placed inside the kiln, bend to indicate when ware is fired to maturity. They are rated by number.)

The cone, mounted in the Kiln Sitter, supports a rod. When the cone bends, the rod moves downward, releasing a trigger in the Kiln Sitter. The trigger drops a weight, which shuts off the power to the kiln.

The Limit Timer is a safety backup clock timer. It is designed to shut off the kiln should the Kiln Sitter malfunction.

As you gain experience firing the kiln, you will know how long a firing should take. Set the Limit Timer to the length of firing, plus 20 or 30 minutes. When the Limit



The pyrometric cone mounted in the Kiln Sitter before firing.



When the cone bends, a rod lowers, which drops the Kiln Sitter weight. This shuts off the kiln.

# Home Artist Kiln

*A 120 volt digital kiln for ceramics, decals, china paint, gold, raku*

The portable Home Artist kiln sets up in minutes. It plugs into a standard household outlet and features a collapsible luggage carrier for easy moving. Take it with you on vacation or to seminars.

The kiln fires rapidly up to 2000°F. It uses space-age ceramic fiber insulation, noted for energy efficiency. It is large enough to fire 10" china plates. The digital controller fires to pyrometric cones with 3-key simplicity. For raku fir-

ing, purchase the optional lid safety switch.

Own a unique kiln. The Home Artist is protected by patent no. D484,897.

- Sentry Xpress 3-key controller
- Energy-efficient ceramic fiber firing chamber heats rapidly.
- Stainless steel jacket is vented for lower surface temperature.
- Safety on/off switch
- Fall-Away lid vent
- Light enough to take anywhere.



- Telescoping luggage carrier with wheels for easy moving; collapses for convenient storage.
- The 120 volt Home Artist weighs only 40 lbs.

## Home Artist Furniture Kit

- 2 - C-10R 10" Round Shelves
  - 1" wide Square Posts, 3 each of - 1", 3", 6" lengths
  - 3 Triangular Bell Stills, 1 each of - 3x3, 6x3, 10x3
  - 6 - 06 Self-Supporting Orton Cones
  - 1 lb. Bag Kiln Wash; 1 Haik Brush
- Shipping Weight: 12 lbs.



## Home Artist 3 Key Digital Automatic Cylindrical Firing Chamber: 12" wide x 12" deep



5-15R  
1 3/8" dia.

The Home Artist kiln uses a 120 volt 5-15R wall receptacle.

# 7-Sided Kilns

*Dolls, ceramics, china paint*

The economical 7-sided 66-series are the ideal size for dolls, jewelry, and china, yet still large enough for 14" plates and most ceramic pieces.

Available in 2 1/2" or 3" thick walls and 3 control systems: S, SnF and TnF-series. See pages 4 & 5 for details on control systems.

- Lock-in lid support with a positive catch holds the lid open.
- Two wide-view tapered peepholes
- Ventilated, louvered switch box for cool operation of electrical system
- Two hand lifts
- Heavy duty rock-solid kiln stand
- Full-formed, galvanized steel base strengthens the kiln.
- Fall-away two stage Prop-R-Vent for easy venting

- Special dust-free refractory coating on the lid, peepholes and top rim of firebricks for extra durability
- Pilot light on S & SnF models
- Dropped, recessed brick grooves protect the elements for long life.

## Furniture Kits

### S-66, SnF-66, TnF-66

- 2 C-13 Shelves 1 C-13H 1/2 Shelf
  - 1" wide Square Posts, 3 each of - 1/2", 1", 2", 3", 4", 6" lengths
  - 1 lb. Bag Kiln Wash
- Shipping Weight: 23 lbs.

### S-66-3, SnF-66-3, TnF-66-3

- 2 C-14 Shelves 1 C-14H 1/2 Shelf
  - 1" wide Square Posts, 3 each of - 1/2", 1", 2", 3", 4", 6" lengths
  - 1 lb. Bag Kiln Wash
- Shipping Weight: 20 lbs.



## TnF-66

Digital Automatic  
7-sided Firing Chamber:  
14 1/2" wide x 13 1/4" deep



6-20R  
1 3/8" dia.

## SnF-66

Infinite Control  
7-sided Firing Chamber:  
14 1/2" wide x 13 1/4" deep



# 6-Sided 120 v Kilns

*Small and powerful for dolls, porcelain, stoneware, ceramics, china paint*

## Xpress-1193 Digital Automatic 6-sided Firing Chamber: 11" wide x 9" deep



5-20R  
1 3/8" dia.

The S-11-9-3 & Xpress-1193 use a 120 volt 5-20R wall receptacle.



## S-11-9-3

Infinite Control  
6-sided Firing Chamber:  
11" wide x 9" deep



The 3"-wall S-11-9-3 & Xpress-1193 fire on a 120 volt, 20 amp outlet. With a temperature rating of 2300°F, they are ideal for porcelain dolls and jewelry. They can also ship by UPS.

- Large enough to fire a 10" plate
- S-11-9-3: Infinite control switch, Dawson Kiln Sitter & Limit Timer, pilot light
- Xpress-1193: 3-key digital controller
- Lock-in lid support
- Dust-free coated lid, peepholes & rim of firebrick for extra durability
- Heavy duty stand with mar-proof feet
- Full-formed galvanized steel base

- Wide-view tapered peephole
- Fall-away Prop-R-Vent
- Heavy duty elements
- Cold rolled stainless jacket
- Ships by convenient UPS

## Furniture Kit

### S-11-9-3 & Xpress-1193

- 1 C-10 Shelf 1 C-10H 1/2 Shelf
  - 1" wide Square Posts, 3 each of - 1", 2", 3" lengths
  - 1 lb. Bag Kiln Wash
- Shipping Weight: 10 lbs.

# 8-Sided Ceramic Kilns

## Porcelain, stoneware, ceramics, dolls

### 8-sided 82-Series

**8** 2-series Paragon kilns are large enough for most ceramic projects. Figured at cost per cubic foot, these are also our lowest priced hobby kilns.

The 82-series use the same circuit size as most of our studio kilns. Upgrade to a larger kiln later without having to install a new circuit.

We recommend the 3" extra-thick wall 82-series (model numbers ending in -3) for porcelain and stoneware.

The TnF-82 and TnF-82-3 now feature the easy-access drop down switch box. Merely remove two screws, and the box, hinged at the bottom, opens forward for quick maintenance. The TnF-82 and TnF-82-3 feature a top row of 2" high blank wall bricks. Since the brick is without element grooves, it is less susceptible to damage during loading than a grooved brick and easier to replace.

### 8-sided 1613-3 Series

The TnF-1613-3 and S-1613-3 extra-thick 3" wall kilns are designed for porcelain, so they easily fire ceramics, china paint, decals, gold, and glass casting. The size is ideal for teachers of china paint or dolls. The 8-sided, 16 1/2" wide and 13 1/4" deep interior is as tall as standard 7-sided kilns. The 1613-3 kilns are 43% larger than the 66-3's on page 6, yet cost only a few dollars more.

The TnF-1613-3 and S-1613-3 models plug into a common 30 amp, 240 volt outlet. They use 6400 watts of power, more watts per cubic foot than conventional kilns.

#### S-1613-3

**Infinite Control**  
8-sided Firing Chamber:  
16 1/2" wide x 13 1/4" deep



**6-30R**  
2" dia.

S-1613-3 & TnF-1613-3 use the 6-30R receptacle.

#### TnF-1613-3

**Digital Automatic**  
8-sided Firing Chamber:  
16 1/2" wide x 13 1/4" deep

**TnF-82-3**  
**Digital Automatic**  
8-sided Firing Chamber:  
16 1/2" wide x 22 1/4" deep



The switch box on the TnF-82 & TnF-82-3 opens forward for easy maintenance.

The extra wattage helps compensate for aging elements or low voltage. This extra power is ample for cone 10 and, if desired, rapid heating. Elements last longer, because the extra wattage and thicker 3" firebricks help the elements reach porcelain temperatures without strain.

### Features of 8-sided Kilns

- Long-life electrical system, heavy-duty wires
- TnF-82 & TnF-82-3: easy access switch box
- Tuned elements for even heat distribution
- Lock-in lid support with a positive catch
- Wide-view tapered peepholes
- Ventilated, louvered switch box keeps electrical system cool for long life
- Two hand lifts for convenient moving

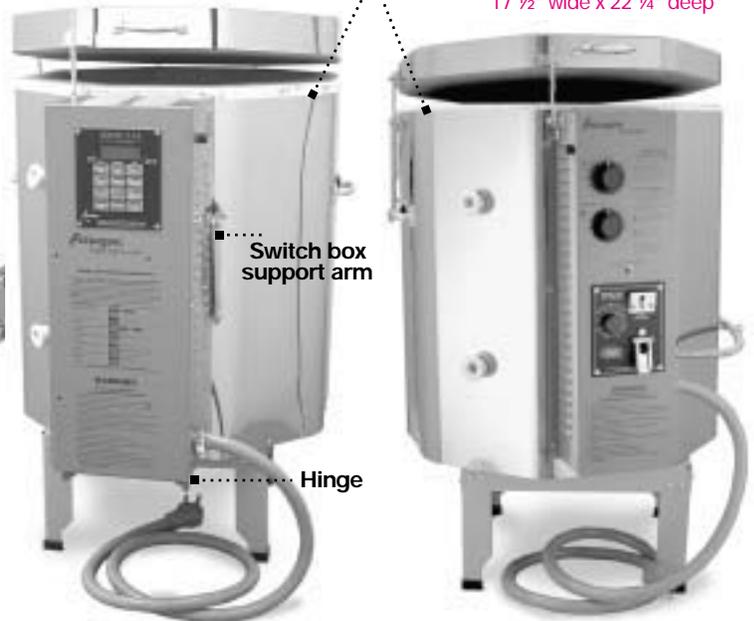


**6-50R**  
2" dia.

8-sided standard kilns use the 6-50R receptacle. Important: specify correct voltage!

2" durable blank bricks in top of walls

**SnF-82**  
**Non-Digital Automatic**  
8-sided Firing Chamber:  
17 1/2" wide x 22 1/4" deep



Switch box support arm

Hinge

- Ideal size for glass casting
- Rock-solid heavy duty kiln stand with mar-proof plastic feet
- Full-formed, galvanized steel base strengthens the kiln for long life
- Fall-away two stage Prop-R-Vent
- Special dust-free refractory coating on lid, peepholes and top rim of firebricks for extra durability
- Operating instructions on switch box
- Heavy gauge stainless steel case
- Pilot light on S & SnF models
- Full firing capacity: fire ware directly on the brick bottom
- Reversible brick bottom

### Furniture Kits

#### S-82, SnF-82, TnF-82

3 C-16 Shelves 1 C-16H 1/2 Shelf  
1" wide Square Posts, 4 of each - 1/2", 1", 2", 3", 4", 5", 6" lengths  
1 lb. Bag Kiln Wash  
*Shipping Weight: 45 lbs.*

#### S-82-3, SnF-82-3, TnF-82-3

3 C-18 Shelves 1 C-18H 1/2 Shelf  
1" wide Square Posts, 4 of each - 1/2", 1", 2", 3", 4", 5", 6" lengths  
1 lb. Bag Kiln Wash  
*Shipping Weight: 38 lbs.*

#### Janus-1613, S-1613-3, TnF-1613-3

2 C-18 Shelves 1C-18 1/2 Shelf  
1" Square Posts, 3 each - 1/2", 1", 2", 3", 4", 6"  
1 lb. Bag Kiln Wash  
*Shipping Weight: 28 lbs.*

# 10 & 12-Sided Production Kilns

*Real work horses for the most demanding, busy studios*



**TnF-23-3**  
**Digital Automatic**  
 10-sided Firing Chamber:  
 22 1/2" wide x 22 1/4" deep

**D**uring busy seasons when orders are back-logged, you will be grateful you own a dependable Paragon kiln. Studio owners call these kilns work horses.

Paragon studio kilns have withstood years of abuse even in harsh school environments. High school ceramics teachers fire these kilns unmercifully, without remorse. Yet the kilns keep going. People swear by them.

## 10- or 12-Sided?

Smart studio owners own both 10- and 12-sided kilns. Why purchase both sizes instead of buying only the biggest size you need? It is because some ware fires more efficiently in a 10-sided kiln. Example: 10- and 12-sided kilns both fire four 10" bowls per shelf. When you own both sizes of kilns, you can choose the most efficient kiln for each size of ware.

The 10-sided kiln is also a good choice for those who need short firing cycles. Since 10-sided kilns are smaller

than 12-sided, they can heat and cool faster.

The 10-sided shelves are lighter than the 12-sided, and easier to lift.

## Shorter Kilns for Easier Loading

If you have difficulty loading deep kilns, we recommend the 22 1/4" deep S-23-3 and TnF-23-3, our shortest 10-sided kilns. Another option is to remove the top 9"-high section of the S-99 to fire a smaller load. If you need extra firing capacity in a short kiln, consider the 12-sided TnF-27-3 (next page).

## 2" Blank Top Bricks

For easier maintenance, we use 2" high blank wall bricks in the top row of the TnF-27-3, TnF-28-3, TnF-24, TnF-24-3, S-23-3, SnF-23-3, and TnF-23-3. Since the brick is without element grooves, it is less susceptible to damage during loading than a grooved brick. It is also easy to replace. Most of our studio kilns are 2" taller than comparatively priced competitive models. So not only is the 2" blank top brick longer lasting, but you also get the 2" of kiln space at no extra charge.

## Tuned Elements

Most Paragon studio kilns have tuned elements. They distribute heat evenly throughout the firing chamber because they are hotter in the top and bottom sections and cooler in the center section. Thus, 3-zone control is usually unnecessary. Pay for the maintenance of only 1 thermocouple instead of 3. (Though Paragon also offers 3-zone if you really need it.) Your maintenance department will appreciate the reliability of a Paragon.

## 2 1/2" or 3" Walls

10-sided models come in 2 1/2" and 3" thick side-walls and lid. 12-sided kilns come in 3" walls only. The 2 1/2" firebricks yield 1" of extra interior width. The 3" firebricks have 20% more insulation for en-

**TnF-24-3**  
**Digital Automatic**  
 10-sided Firing Chamber:  
 22 1/2" wide x 29" deep

10 & 12-sided standard 240 volt kilns use the 6-50R receptacle. The Viking series (see page 13) and most 208 volt models are direct wired. Be sure to specify correct voltage!



**S-24**  
**Non-Digital Automatic**  
 10-sided Firing Chamber:  
 23 1/2" wide x 29" deep



**S-99**  
**Infinite Controls**  
 10-sided Firing Chamber:  
 23 1/2" wide x 27" deep



ergy savings and are stronger. For porcelain or stoneware, order any 10-sided 3" wall kiln rated to 2350°F.

## Lids and 3" Bottoms

All 10-sided studio kilns—even the 2 1/2" wall models—have a deluxe 3" thick reversible brick bottom for extra insulation and energy savings. 3" wall models and the S-99 have 3" thick lids. The S-24, SnF-24 and TnF-24 have 2 1/2" thick lids.

The switch box on the TnF-27-3 & TnF-28-3 opens forward for easy maintenance.



## Exclusive LiteLid

The massive lids are easy to lift with the exclusive, patented Paragon counter-balance LiteLid. (It is not installed on the S-99.) The LiteLid reduces the strain on the kiln body from the pressure of the lid. This lengthens the life of the firebrick walls. The LiteLid eliminates cumbersome pulleys and ropes. It allows the lid to expand during firing. Ask competitors if their lid spring has a truss and a floating lid.

## Easy-Access Digital Kiln Switch Box

Hinged at the bottom, the switch box on 8-, 10- and 12-sided TnF and Viking kilns opens forward for easy maintenance. Open the box in seconds by merely disconnecting the power and removing two screws. A folding support arm holds the box in the open position. There is plenty of working space around electrical components.

The Sentry controller is mounted at the top of the switch box within easy reach.

## Heavy Duty Kiln Stand

The 24" wide stand for 10- & 12-sided kilns supports the brick bottom with 4 1/2" wide framing across the top of each side. The stand is rock-steady with 16 gauge frame and heavy 12 gauge legs. Fire massive loads of ware with the assurance that the brick bottom is fully supported.

If you move your kiln out of the way when not in use, order an optional deluxe kiln stand with steel casters (page 21).



The TnF-28-3 is a profit center for the busy studio. Look how much low-fire greenware it can hold.

**TnF-27-3**  
Digital Automatic  
12-sided Firing Chamber:  
28" wide x 22 1/4" deep

## S, SnF & TnF-28-3 Kilns

The large 12-sided 28-3 series kilns are profit centers of the busy ceramic studio. They eat up stacks of low-fire ware. At a cost per cubic foot, the 28-3 Paragon kilns are the most economically priced standard kilns we make. They are rated to 2150°F, ideal for low-fire ware.

We have upgraded the TnF-28-3 to 48 amps. With beefier elements, it fires to temperature with less strain.

## Optional AOP Outlet

The AOP outlet is available on all TnF studio kiln switch boxes. With the AOP you can select when the Sentry controller turns on a 240 or 208 volt optional Orton Vent Master:

- Vent remains on during Pre-Heat, firing, and Slow Cooling, then turns off at 212°F.
- Vent remains on during Pre-Heat and firing, then turns off during Slow Cooling.
- Vent remains off during firing.
- Ramp-Hold: Select whether the vent remains on or off for each segment.

## The Easy-to-Load TnF-27-3 12-Sided Kiln

The TnF-27-3 is easier to load than the deeper studio kilns. It is only 22 1/4" deep, yet larger inside than the 29" deep 10-sided 24-series kilns. Rated to 2350°F, the TnF-27-3 fires porcelain and stoneware on a 240 volt, 50 amp circuit.

## Sectional TnF-24, TnF-24-3, TnF-27-3 & TnF-28-3

The TnF-27-3 and TnF-28-3 now feature sectional construction. (See photos above.) Separate the kiln bottom and sections to repair bricks, change elements, or to move the kiln down narrow stairwells or through the narrowest doorways. Twist-lock spring latches hold the assembled collars securely.

**TnF-28-3**  
Digital Automatic  
12-sided Firing Chamber:  
28" wide x 29" deep

## Galvanized Steel Base

Paragon studio kilns include a heavy galvanized steel base that protects the entire brick bottom. This is one more reason why you can rely on your Paragon kiln.

## Furniture Kits

### Janus-23, S-23-3, SnF-23-3, TnF-23-3

6 C-23H 1/2 Shelves  
1 1/2" wide Square Posts, 8 of each -  
1", 2", 3", 4", 5", 6" lengths  
1 lb. Bag Kiln Wash  
*Shipping Weight: 77 lbs.*

### S-24, SnF-24, TnF-24, S-99

8 C-22H 1/2 Shelves  
1 1/2" wide Square Posts, 8 of each -  
1", 2", 3", 4", 5", 6" lengths  
1 lb. Bag Kiln Wash  
*Shipping Weight: 105 lbs.*

### S-24-3, SnF-24-3, TnF-24-3, Viking-24

8 C-23H 1/2 Shelves  
1 1/2" wide Square Posts, 8 of each -  
1", 2", 3", 4", 5", 6" lengths  
1 lb. Bag Kiln Wash  
*Shipping Weight: 95 lbs.*

### S-28-3, SnF-28-3, TnF-28-3, Viking-28

8 C-24H 1/2 Shelves  
1 1/2" wide Square Posts, 8 of each -  
1", 2", 3", 4", 5", 6" lengths  
1 lb. Bag Kiln Wash  
*Shipping Weight: 172 lbs.*

### Janus-27, TnF-27-3

6 C-24H 1/2 Shelves  
1 1/2" wide Square Posts, 6 of each -  
1", 2", 3", 4", 5", 6" lengths  
1 lb. Bag Kiln Wash  
*Shipping Weight: 145 lbs.*

# Cone 10 Dragon, Super Dragon and Powerful, easy-to-load pottery kilns

**Super Dragon**  
Digital Automatic  
27" wide x 36" high  
x 27" deep



**Super Dragon Insulation:**  
**Walls, Roof, Floor:**  
4 ½" firebrick  
**Door:**  
3" firebrick plus 1"  
ceramic fiber = 4"

NEW!



**Dragon**  
Digital Automatic  
24" wide x 27" high x 24" deep



Lay a drying  
rack across  
stand supports.

Stand sold separately

**Dragon Insulation:**  
**Walls, Door, Roof:**  
3" firebrick plus 1"  
ceramic fiber = 4"  
**Floor:**  
4 ½" firebrick



## Easy to Load

Ceramists who struggle bending into top-loading kilns will enjoy the ease of Paragon's front-loading pottery kilns. The door swings open wide on a heavy steel rod with sealed bearings. Spring-loaded latches press the door tightly closed.

## Plenty of Power

The cone-10 Iguana, Super Dragon and Dragon front-loading kilns have power to spare. This results in long element life, because the elements do not "struggle" to reach high temperatures. Dropped, recessed grooves protect industrial-gauge elements for long life.

The elements are "tuned," which means hotter elements are placed in areas of the firing chamber that need more heat. This results in superior heat distribution.

## Extra Insulation Saves Energy and Slows Cooling

**Iguana:** 3" thick firebrick—½" thicker than standard.

**Dragon Walls, Door, Roof:**  
3" firebrick plus 1" ceramic fiber = 4"

**Dragon Floor:** 4 ½" firebrick

**Super Dragon Walls, Roof, Floor:** 4 ½" firebrick  
**Super Dragon Door:**  
3" firebrick plus 1" ceramic fiber = 4"

The inner door is recessed to help seal in the heat. Because these kilns store heat so efficiently, elements last longer.

The extra insulation not only saves energy but also cools the kiln slowly without having to turn the elements back on. This gives the microcrystalline structure and color of the glaze sufficient time for full development. Cool slowly to achieve dramatic shifts in glaze color such as iron reds and enjoy the richer look of gas firing.

## Stand Options

The Dragon and Iguana stands are priced separately from the kiln. Available stands:

### Dragon

24" tall stand without casters (shown above)

24" tall stand with casters

8" tall stand with casters

### Super Dragon

The stand is built into the kiln; no extra charge

### Iguana

22" tall stand without casters (shown above)

When ordering a Dragon or Iguana, specify whether the stand is to ship separate from the kiln or to ship pre-installed on the kiln as one unit.

## Digital Accuracy

The Sentry 2.0 digital controller is standard on Paragon front-loading pottery kilns. Results are repeatable from one firing to the next with astounding accuracy. (See page 4.)

The Type-K thermocouple, hermetically sealed for accuracy, is standard. But we recommend the optional Type-S for stoneware and porcelain.

## The Dragon & Super Dragon

The Dragon door is mounted to a ¾" heavy steel door hinge rod with sealed bearings. The Super Dragon has a floating door system with four spring door latches. The door hinge is fastened to a 2" tubular steel frame that extends from the floor to the top of the kiln. Other features:

- Long-lasting, industrial-grade mercury relays power the elements.
- A bank of built-in NEC/UL-compliant high-amperage fuses protects the kiln and circuit wiring.
- Two 1" non-tapered peepholes in the left side of the kiln
- 1" space between switch box and kiln keeps electrical components cooler for long life.

# Iguana

**Iguana**  
Digital Automatic  
18" wide x 22 1/2" high x 18" deep



6-50R  
2" dia.



Use this shelf to dry greenware during firing.

Stand sold separately

- Case temperature at cone 10: approximately 170°F (compared to 400-500°F for standard firebrick kilns)

## Iguana Features

- Cone 10, 2350°F
- Two tapered peepholes in the left side of the kiln for a wide view of the interior
- 1/2" heavy steel door hinge rod with sealed bearings
- Heavy duty tuned elements
- Dropped, recessed brick grooves protect the elements for long life.

## Extra Kiln Options

- Door elements
- Stainless steel finish
- Orton Master Vent, which mounts to the back of the kiln. Mounting holes are factory-punched in the steel case for easy installation should you decide to add a vent to your kiln later.

## Dragon / Super Dragon Furniture Kit

- 1 C-30 Shelf
- 4 - C30H 1/2 Shelf
- 1 1/2" wide Square Posts, 8 each of - 4", 6", 8" lengths
- 1 lb. Bag Kiln Wash
- Shipping Weight: 128 lbs.

## Iguana Furniture Kit

- 3 C-17 Full Shelves
- 1 - C-17H 1/2 Shelf
- 1" wide Square Posts, 4 each of - 1/2", 1", 2", 3", 4", 5", 6" lengths
- 1 lb. Bag Kiln Wash
- Shipping Weight: 50 lbs.

# Viking Cone 10 Kilns

*Easily reach stoneware temperatures*



Viking kilns are designed for extra heavy duty firing and high temperatures. They are similar to our standard studio kilns on pages 8-9, but with these additional features:



"Schools and craft centers fire their kilns almost every day," said ceramic consultant Jeff Zamek. "Though often abused and neglected by students and teachers, Paragon kilns do very well in the teaching environment. Paragon kilns just go on working forever."—Jeff Zamek, author of *What Every Potter Should Know*.

Vikings use heavy-duty mercury relays instead of our standard mechanical relays. Mercury relays outlast the standard relays by a wide margin and are quieter.

The Vikings have power to spare. They are 14,400 watt kilns and fire on a 70 amp, 240 volt circuit. The extra amperage increases element life, because the elements fire to higher temperatures without strain.

UL/CUL & NEC compliant high amperage fuses protect the kiln and circuit wiring. These fuses are

built into the kiln switch box.

As with our other studio kilns, the Viking switch box opens forward for easy maintenance. A support arm holds the box open, giving you access to the components inside.

For furniture kits, see page 9.

The Viking-24 and Viking-28 have 3"-thick firebrick walls. These bricks save energy with 20% more insulation than the standard 2 1/2" bricks.

The Vikings feature sectional construction. Separate the kiln bottom and sections to repair bricks, change elements, or to move the kiln down narrow stairwells or through the narrowest doorways. Twist-lock spring latches hold the assembled collars securely.

The top row of brick in the Vikings is 2" high and without element grooves. It is less susceptible to damage during loading than a grooved brick. The elements are "tuned," which means hotter elements are placed in areas of the firing chamber that need more heat. This results in superior heat distribution.



Viking switch boxes open forward for easy maintenance. Components have plenty of room.

## Exclusive LiteLid

The massive lids are easy to lift with the exclusive, patented Paragon counter-balance LiteLid, which reduces the strain on the kiln body from the pressure of the lid. This lengthens the life of the firebricks. The LiteLid eliminates cumbersome pulleys and ropes. It allows the lid to expand. Ask competitors if their lid spring has a truss and a floating lid.

**Viking-24**  
Digital Automatic  
10-sided Firing Chamber:  
22 1/2" wide x 29" deep



2" durable blank bricks in top ring

**Viking-28**  
Digital Automatic  
12-sided Firing Chamber:  
28" wide x 29" deep



Switch box support arm

Hinge

# Caldera Multi-Purpose Kilns

Glaze testing, glass fusing, pottery, silver clay, bead annealing

## Caldera-S Infinite Control

Firing Chamber:  
8" x 8" Opening x 6 3/4" deep

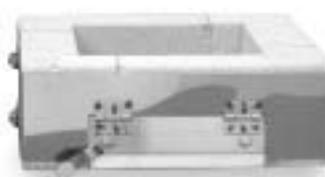
## Caldera Digital Automatic

Firing Chamber:  
8" x 8" Opening x 6 3/4" deep



## Caldera-BC Bead Collar

Firing Chamber:  
8" x 8" Opening x 4 1/2" deep



**F**ire silver clay, china, ceramics, and glass in Paragon's Caldera kilns. They make glass compatibility and glaze color tests fast and easy. They fire rapidly on 120 volts to 2350°F/1287°C. With a separate top and bottom, they are stackable and portable. The kiln is easy to carry to seminars. Take it with you on vacation.

They come in manual-fire and digital versions. The digital Caldera with the precision Sentry Xpress controller fires in either Ramp-Hold or Cone-Fire. Control both heating and cooling with simple 3-key operation.



The Caldera with bead collar. Note the bead mandrel rack, which comes with the collar.

Add 4 1/2" of height to the Caldera or Caldera-S with a collar. The Caldera-BC collar has a 7 1/2" x 2" door on the side for annealing glass beads. The Caldera-X is the same type of collar, but without the bead door.

- Caldera: Digital 3 key Sentry Xpress with Cone-Fire and 8 Segment Ramp-Hold; on/off safety switch
- Caldera-S: infinite control

switch, pyrometer, and safety pilot light

- 2 1/2" insulating refractory firebricks

- Dropped, recessed brick grooves protect the element for long life.
- Louvered switch box and heavy duty wiring for years of reliable service
- Rated to 2350°F/1287°C
- The Caldera-BC and Caldera-X collars have no heating elements, but even with a collar, the Caldera and Caldera-S still fire to 2000°F/1093°C.
- 120 volt 5-15R outlet, only 1680 watts
- 4 - 2" x 2" x 2" firebrick blocks, to be placed under the kiln during firing

### Caldera & Caldera-S Furniture Kit

- 1 C-7 Shelf
- 4 - 1" long, 1" wide Square Posts
- 1 lb. Bag Glass Separator
- Shipping Weight: 8 lbs.

# China Painting Kilns



## X-14-J Infinite Control

7-sided Firing Chamber:  
14 1/2" wide x 6 1/2" deep

## The Original X-14J

**W**e introduced the Paragon X-14J, a classic china painting kiln, in 1965. That kiln is so reliable that we still carry it. China painters all know friends who still fire the legendary X-14J. With the separate lid and bottom, the kiln is easy to carry to seminars. Take it with you on vacation.

The infinite control switch includes a safety pilot light. The X-14J fires to 1700°F on a common household outlet, making it ideal for apartments.

Inquire about the XX-4 collar, which gives the X-14J 6 1/2" of extra depth. The XX-4 collar requires a separate 120 volt, 5-15R circuit. The XX-4 collar raises maximum temperature to 2000°F to expand the range of your creativity.



**14-9SSP  
Digital Automatic**  
7-sided Firing Chamber:  
14 1/2" wide x 9" deep



14-9INF, 14-9SSP, & 14-9PAK use the 5-20R.

## 14-9INF, 14-9SSP & 14-9PAK

The 14-9 series china painting kilns are 2" deeper than the X-14J and of single-piece construction complete with hinged lid. The 14-9 comes in three versions:

- 1) 14-9INF with infinite control switch
- 2) 14-9SSP with the Sentry Xpress electronic controller
- 3) 14-9PAK with the analog "set point" controller: turn a pointer knob to the desired temperature printed on the switch box. Press the "on" button. The heating elements remain powered until the kiln reaches temperature. Then the kiln shuts off.

The 14-9 series fire to 1700°F on a 120 volt, 20 amp, 5-20R outlet. The lid comes with a lock-in lid support for easy loading and the Prop-R-Vent for two stage venting of china paint fumes. All china painting kilns come with a heavy duty stand complete with mar-proof plastic feet.

### 14-9 Series, X-14J, X-14S

- 1 C-13 Shelf 1 C-13H 1/2 Shelf
- 1" wide Square Posts, 3 each - 1", 2", 3" lengths
- 1 lb. Bag Kiln Wash
- Shipping Weight: 15 lb.

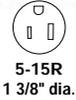
# Portable E- & Q-Series

Enameling, china painting, ceramics, silver, glaze testing, glass



## Q-11A

**Infinite Control**  
Firing Chamber: 6" deep,  
6" wide, 6 1/4" high



Standard and Xpress versions of Q11A, E-9AX, & E-10A use 5-15R.

**Xpress-Q-11A**  
**Digital Automatic**  
Firing Chamber: 6" deep,  
6" wide, 6 1/4" high

**Xpress-E-9A**  
**Digital Automatic**  
Firing Chamber: 9" deep,  
8 1/2" wide, 4 1/2" high

**E-10A**  
**Infinite Control**  
Firing Chamber: 9" deep,  
8 1/2" wide, 8 3/4" high

**C**reate breathtaking jewelry or small keepsakes using almost any medium you can imagine in the portable E- and Q-series: enameling, silver clay, china painting, glass, and low-fire ceramics.

The Xpress-Q-11A and switch-operated Q-11A, which fire to 2350°F, can fire all of the above plus stoneware, porcelain, and small glass castings—all on a common 120 volt outlet.

The Xpress E and Q series feature a 3-key digital controller mounted in the kiln base to save table top space. The front control panel is tilted for easy operation of the Sentry Xpress controller.

If you are having difficulty choosing a kiln, buy a small E- or Q-series and experiment with many different techniques. Then buy a larger kiln later. After you buy a larger kiln, you can use your E- or Q-series indefinitely for testing glazes.

For instance, the digital Xpress-series can slow the cooling to achieve dramatic shifts in glaze color. Try this with iron reds. Enjoy the richer look of gas firing.

*"I am 70 years old. I have quite a few china painter friends and have been teaching a long time. Every single one of my students and friends has a Paragon Q-11A. I always let my gals see how wonderful that kiln is. You can plug it in anywhere and fire it quickly."*

Dorothy Trent  
Chandler, Arizona

Except for the E-14A and Xpress-E-14A, both manual and Xpress E- and Q-series kilns ship by UPS. Enjoy lower shipping cost and faster service. (The E-14A and Xpress E-14A still ship by truck line.) Specially designed cartons and foam padding assure that the kilns will arrive safely.

Heating elements, exposed in dropped, recessed insulating firebrick grooves, are easy to replace. Unlatch and open the door with one hand.



Xpress-E-14A & E-14A use the 6-20R.

**Xpress-E-14A**  
**Digital Automatic**  
Firing Chamber: 13 1/2" deep,  
13" wide, 8 3/4" high

No extra stand is needed. The built-in base stays cool even during extended holds.

The E-series infinite control models include a 1/2" thermocouple hole stamped in the back of the steel case. (The firebrick behind the steel hole is left undrilled since thermocouple thickness varies.)

### Q-11A & Xpress-Q-11 Furniture Kit

- 1 C-2 Shelf
- 4 - 2" long 1" wide Square Posts
- 1 lb. Bag Kiln Wash Shipping Weight: 2 lbs.

# J-14 Ceramic Fiber Kilns

Jewelry, china paint, Enameling

**T**he J-14 is made of energy-efficient ceramic fiber for fast heating and cooling. It comes in four versions:

- J-14-1: Infinite control, 120 volt
- TnF-J-14-1: Digital, 120 volt
- J-14-2: Infinite control, 240 volt
- TnF-J-14-2: Digital, 240 volt

All J-14 kilns use the same size firing chamber. Maximum temperature is 1700° F.

J-14-1 and J-14-2 infinite control models include a built-in thermocouple. An attachment block is mounted on the back of the furnace for easy hookup to a pyrometer or portable TnF 2 controller (page 21).

The firing chamber is a one-piece ceramic fiber shell with embedded elements. For greater thermal efficiency, the space between the steel case and the ceramic fiber shell is filled with extra ceramic fiber insulation.

The J-14 comes with a vent hole and steel cover in the top and door. The door seals tightly with a heavy spring latch. The controls, located in the base, stay cool for long life. No extra stand is needed.



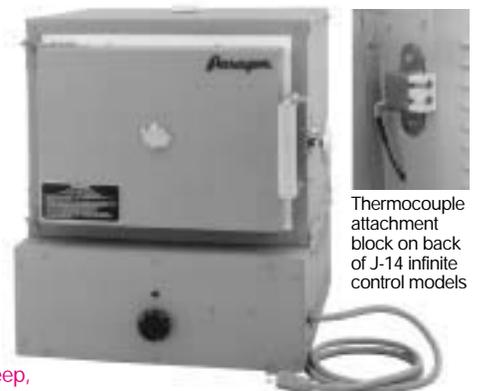
J-14-1 and TnF-J-14-1 use the 5-20R.



J-14-2 and TnF-J-14-2 use the 6-20R.

**J-14-1**  
**Infinite Control**  
Firing Chamber: 13" deep,  
13" wide, 9" high

**TnF-J-14-1**  
**Digital Automatic**  
Firing Chamber: 13" deep,  
13" wide, 9" high



Thermocouple attachment block on back of J-14 infinite control models

# Glass Kilns

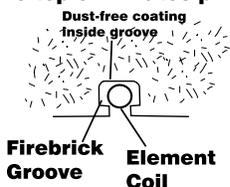
Used glass dates back more than 3,000 years to Egypt. For centuries it was a lost art. In 1985, Paragon joined other glass pioneers in reawakening this exciting art by introducing our first glass kilns.

Paragon glass fusing kilns on pages 14 - 20 simplify the process of firing glass. Most of them heat from above, spreading the heat evenly over the glass surface.

## New Glass Kiln Lid and Roof Element Groove

The heating elements in the lid or roof of most of our glass kilns use pinless element grooves. Since the element coils are wider than the groove opening, the elements stay in place without pins.

**The element groove in the top eliminates pins.**



## Styles of Glass Kilns

### QuikFire

High speed, good for experimenting with new designs; glass jewelry, small projects.

### Blue Bird

A large bead-annealing kiln. Great for classes.

### Fusion-Series Top-Loading Kilns

This is a very popular basic, economical general-purpose glass kiln. (pg 15)

### F-Series Lamp Working

Anneal large glass figurines; also good for small glass fused projects. (pg 15)

### Ovation-10 Oval Kiln

An economically priced large glass fusing and slumping kiln. An excellent profit center. (pg 16)

### Pearl-Series Clamshell Kilns

The firing chamber lifts out of the way for easy loading. (pg 17)

### GL-Series Front-Loading Kilns

A heavy-duty deluxe series very popular for fusing, slumping, raking, embossing. (Pg 18)

### Janus Multi-Purpose

Fire glass and pottery in a single kiln. (Pg 19)

### Vulcan Crucible Kiln

Specially designed for melting glass. It also fires hot enough for pottery. (Pg 19)

### Table-Top Front Loaders

The SC-series (pg 20) and E- and Q-series (pg 13) are portable and popular for glass fusing, slumping, enameling, and silver clay.

## Sentry Digital Controllers

Precision Sentry controllers simplify even complex firings (pg 4). Enjoy accurate repeat firings. If you have a Dignity controller, we can make kilns designed to use the controller you already own.

# QuikFire 6

*Zero to 1000°F in five minutes! Glass and ceramic jewelry, glaze testing*

The QuikFire 6 brings instant gratification to ceramics, glass fusing, enameling, silver, and china painting. Small glass pieces can be fired and cooled to room temperature in only 30 to 40 minutes. Small ceramic pieces take only 40 to 50 minutes. No more waiting to fill your larger kiln to test-fire a new technique or new glaze. Demonstrate the QuikFire at craft shows, and crowds will gather.

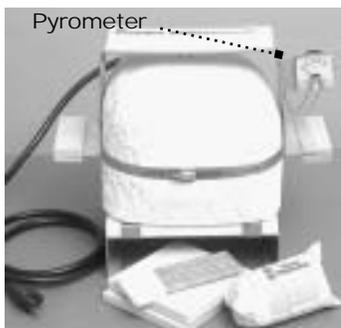
Experimenting with the QuikFire is fun. Instead of risking a good piece of greenware on an untried technique, you can fire throw-away clay scraps and view the results in minutes.

The QuikFire is a ceramic fiber shell with an embedded element. It measures 6" x 6" x 6" inside. The shell rests on a ceramic fiber base with steel stand. The QuikFire is rated to 2000°F. It fires on 120 volts and needs no other heating source. At only 1560 watts, it uses less power than many hair driers.

To see how your work is progressing, tilt the shell up an inch for several seconds. Read temperature at a glance with the built-in py-

*"Everyone loves the QuikFire. While your main work is firing, you can have fun with the QuikFire."*

**Dan Fenton, Fenton Glass Studio, Oakland, California**



rometer, which indicates when to start watching the ware inside the kiln.

You can make projects faster with two or more shelves. As the kiln is firing, prepare your next project on the spare shelf in the furniture kit. Remove the first shelf and insert the second.

See page 22 for "Sandi Scoville's Basic Glass Fusing Tape," a QuikFire glass fusing and slumping video. For European voltage, specify the QuikFire 6E.

### QuikFire 6 Furniture Kit

2 C-2 Shelves    One Haik Brush  
1 lb. Bag Glass Separator

## PCB-1 Power Control Box

Uses an infinite control switch to slow the QuikFire 6 and earlier QuikFire 2 kilns. Slower firing is necessary for large, thick pieces. Simplifies enameling and fusing decals to ceramics or glass. May be used for other kilns rated to 120 volts, 15 amps.



# Blue Bird NEW!

*Anneal glass beads and figurines*

The new Blue Bird is a dream kiln for the glass bead enthusiast. It safely anneals the glass to prevent breakage during cooling.

The kiln opens doorways of opportunity in beadmaking. The 2 3/4" tall, 10" wide double doors give a total of 20" width for inserting bead rods. This kiln is ideal for seminar teachers. It is like having two kilns instead of one.

The Blue Bird has a user-friendly 3-key Sentry Xpress digital controller. It automatically maintains the annealing temperature that you program. The controller is packed with features but is so easy to use that your child could program it.

The Blue Bird has a durable insulating firebrick roof and high-tech ceramic fiber insulation



**Blue Bird Digital Automatic Firing Chamber:** 5" deep, 20" wide, 5" high

in the walls and floor. The element is seated in pinless grooves in the roof. This is a true high performance kiln you will enjoy using often.

The rugged steel case is light weight, portable, with a slotted base and louvered switch box for long life of the electrical system. The Blue Bird plugs into a standard household outlet. It draws only 960 watts, less than many hair driers. The kiln ships by convenient UPS.

# Fusion-Series Glass Kilns

*Glass fusing and slumping*

**P**aragon's Fusion-series digital hot glass kilns are packed with exciting features. They come in 6-, 7-, 8- and 10-sided versions.

The digital Sentry Xpress 3-key controller comes standard on all Fusion-series kilns. Control both heating and cooling with simple 3-key operation. (See page 4.)

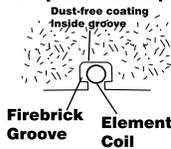
The Fusion-8 and Fusion-10 are 11" deep and include a heating element in the sidewalls. Enjoy enhanced heat control with fusing, slumping, and embossing.

The Fusion-series lid elements use a new element groove that eliminates element pins. Because the element coils are wider than the groove opening, the elements stay in place without pins.

The Fusion-8 and Fusion-10 fire on 240 volts. The Fusion-6 and Fusion-7 offer the convenience of 120 volt operation.

- Digital Sentry Xpress: 8 segments, 4 programs
- Heating elements in the top of all models
- Heating elements in the sidewalls of the Fusion-8 and Fusion-10
- ¼" heavy duty sheathed Type-K thermocouple
- 2 ½" insulating refractory firebrick in walls and bottom; 3" firebrick lid
- Lock-in lid support on 7-, 8- and 10-sided Fusion-series; chain lid support on the Fusion-6 (not shown)

**The element groove in the top eliminates pins.**



- Optional LiteLid lid spring on the Fusion-10
- Full-formed galvanized steel base
- Louvered switch box, heavy duty wiring
- Tapered peephole with plug for a wide view



5-15R  
1 3/8" dia.

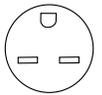


**Fusion-7**  
**Digital Automatic**  
7-sided Firing Chamber:  
14 ¼" wide x 6 ½" deep



6-20R  
1 3/8" dia.

**Fusion-8**  
**Digital Automatic**  
8-sided Firing Chamber:  
17 ½" wide x 11" deep



6-30R  
2" dia.

**Fusion-10**  
**Digital Automatic**  
10-sided Firing Chamber:  
23 ½" wide x 11" deep

"I've fired your kilns all over the country during my seminars. I never hear complaints about your kilns. They are reliable and last a hell of a long time."



Dan Fenton, Fenton Glass Studio, Oakland, California

# F-Series for Lamp Working

*Anneal large glass figurines*

**T**he F-Series lamp working kilns come in three sizes: the 120 volt F-120 and F-130 Elite; and the 240 volt F-240.

Raise the spring-loaded vertical-drop door to insert a glass figurine with a punty rod. Lower the door. The punty rod extends outside the firing chamber through the smaller door. This allows the glass to anneal safely.

Make figurines up to 5" tall in the F-120 and 11" tall in the F-130 Elite and F-240. Maintain the annealing temperature indefinitely with the Sentry Xpress 3-key controller.

Ease of operation will delight you. Never before has lamp work been so easy in this price range. Imagine the massive, award-winning figurines you will be able to make with these kilns.

The element is mounted in the top of the kiln, so in addition to annealing, you can also fuse and slump glass. For your safety we do not include sidewall elements, but you can order them with the F-240 if desired.

- Digital Sentry Xpress with 8 Segment Ramp-Hold, Skip Segment and Program Review



6-20R  
1 3/8" dia.

The F-240 uses the 6-20R.

**F-240**  
**Digital Automatic (Not Shown)**  
Firing Chamber: 18" deep,  
18" wide x 13" high

**F-120**  
**Digital Automatic (Not Shown)**  
Firing Chamber: 11" deep,  
10 ¾" wide x 7" high

## F-120 & F-130 Elite Furniture Kit

- 1 C-10S Shelf
- 4 - ½" long 1" wide Square Posts
- 1 lb. Bag Glass Separator
- Shipping Weight: 12 lbs.

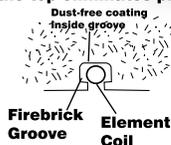
## F-240 Furniture Kit

- 1 C-17 Shelf
- 4 - ½" long 1" wide Square Posts
- 1 lb. Bag Glass Separator
- Shipping Weight: 13 lbs.

**NEW!**



**The element groove in the top eliminates pins.**



5-15R  
1 3/8" dia.

**F-130 Elite**  
**Digital Automatic**  
Firing Chamber: 11" deep,  
11" wide x 13" high

# Ovation-10 Glass Fusing Kiln

## Giant glass fusing and slumping oval kiln



**Ovation-10**  
Digital Automatic  
Firing Chamber: 22 1/2" deep,  
41" wide x 11 1/4" high

- Skip a segment during firing.
- Temperature hold
- Control the temperature and rate during both heating and cooling.
- Use Program Safety Lock to prevent anyone from tampering with the program in active memory.
- Temperature displays throughout firing and cooling in your choice of °F or °C
- Error Messages report mechanical problems such as a disconnected thermocouple, stuck relay or broken element.

### Ovation-10 Features

The Ovation-10 interior is 41" wide, 11 1/4" high, and 22.5" deep and includes a heating element in the sidewalls. Enjoy enhanced heat control with fusing, slumping, and embossing. The Fusion-10 fires on 240 volts.

- Maximum temperature: 1700°F
- 3"-thick firebricks in the walls, top and floor for solid construction and slow natural cooling
- Heating elements in top mounted in pinless grooves
- Heating elements in the lower sidewalls for superb heat distribution
- 1/4" heavy duty sheathed Type-K thermocouple
- Full-formed galvanized steel base for extra strength
- Louvered switch box, heavy duty wiring
- Two front tapered peepholes with plugs for a wide view

### The Ovation-10 Furniture Kit

- 1 - 20" x 20" x 5/8" Shelf
- 2 - 20" Round Half Shelves
- 12 - 1" Square x 1/2" High Posts
- 1 lb. Bag Glass Separator



**P**aragon's newest glass kiln is the glistening Ovation-10. It will inspire you to make glass. It is rugged, reliable, and designed to last. Enjoy fusing, slumping, pate de verre, and painting in this large production kiln.

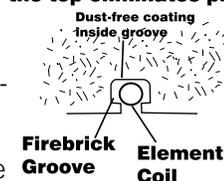
If you have been firing a smaller kiln, you will be amazed at the space inside the Ovation-10. Fire several large projects such as bowls or platters in one load.

Dual spring-assisted lid supports transfer the weight of the lid to a massive hinge assembly on the back of the kiln. This reduces the stress on the kiln wall resulting in the long life that Paragon kilns are famous for.

The Ovation-10 lid elements use an element groove that eliminates element pins. Because the element coils are wider than the groove opening, the elements stay in place without pins. The sidewall element coils are protected in dropped, recessed grooves.

The advanced digital Sentry 2.0 12-key controller is standard on the Ovation-10.

**The element groove in the top eliminates pins.**



### Features of the Sentry 2.0 12-key Controller on Paragon Glass Kilns

- Add Time Key adds five minutes to a temperature hold with each key press during firing.
- Set the temperature alarm to remind yourself to check the glass through a peephole near firing completion.
- Design programs with up to 18 segments (steps).
- Store 4 custom programs in memory.
- Stop/Back Key goes back one step with each key press during programming to correct errors.
- Program a delay start time to suit the convenience of your schedule.
- Program Review lets you check the program you are about to fire.
- 30 month warranty on the Sentry 2.0

# Pearl-Series Clamshells

Glass fusing and slumping with lift-away firing chamber for easy loading



**Pearl-18**  
Digital Automatic  
Firing Chamber: 18" deep,  
18" wide, 8 1/2" high



**Pearl-22**  
Digital Automatic  
Firing Chamber: 22" deep,  
22" wide, 13" high  
**Deluxe spring latch and handle**



**6-20R**  
1 3/8" dia.



**6-30R**  
2" dia.

The Pearl-series firing chamber lifts out of the way to give convenient access to the shelf area.

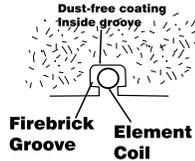
"You can compose directly on the kiln shelf, then close the kiln top," said glass artist Judith Conway, who uses the Pearl-18 in her Washington, DC studio. "There is no need to balance and carry a heavy kiln shelf from your work table over to your kiln, trying to load the shelf in the kiln while not disturbing the glass pieces in your design."

Air pistons in all Pearls assist in lifting the top. You can place the Pearl-18 and -22 on a table without an extra stand.

To keep them cool for long, trouble-free service, electrical components are mounted inside the base of the Pearl-18 and -22 and in a separate switch box on the Pearl-44.

For unsurpassed heat distribution, the Pearl-22 and -44 include sidewall elements. The lid elements use an element groove that eliminates element pins. Because the element coils are wider than the groove opening, the elements stay in place without pins. The sidewall element coils are protected in dropped, recessed grooves.

**The element groove in the top eliminates pins.**



All Pearls have firebrick sidewalls and bottom. The Pearl-18 and -22 have 3"-thick firebrick tops; the Pearl-44 has a 3"-thick ceramic fiber top.

The Pearl-18 uses the digital 3-key Sentry Xpress controller. The Pearl-22 and -44 use the 12-key Sentry 2.0. (See page 4 for details on controllers.)

For extra sturdy support, the Pearl-44 is made of heavy tubular steel. For long life, its sidewalls include expansion joints.

**NEW!**



**6-50R**  
2" dia.

**Fire a wide range of projects: Separate switches control top and side elements.**

## Glass Kiln Furniture Kits

### Fusion 6 & GF-6B

- 1 - C-10 - 10" Hexagon Shelf
- 4 - 1" wide Square Posts, 1/2" long
- 1 lb. Bag Glass Separator

### Fusion 7 & GF-7B

- 1 - C-13 - 13" Round Shelf
- 4 - 1" wide Square Posts, 1/2" long
- 1 lb. Bag Glass Separator

### Fusion 8 & GF-8B

- 1 - C-16 - 15 1/2" Octagon Shelf
- 4 - 1" wide Square Posts, 1/2" long
- 1 lb. Bag Glass Separator

### Fusion 10 & GF-10BD

- 1 - C-22 - 21" Round Shelf
- 4 - 1" wide Square Posts, 1/2" long
- 1 lb. Bag Glass Separator

### Pearl-18 & GL-18

- 1 - C-19 - 17" x 17" Shelf
- 4 - 1" wide Square Posts, 1/2" long
- 1 lb. Bag Glass Separator

### Pearl-22 & GL-22

- 1 - C-20 - 20" Square Shelf
- 4 - 1" wide Square Posts, 1/2" long
- 1 lb. Bag Glass Separator

### GL-24 Series

- 1 - C-30 - 22" Square Shelf
- 4 - 1" wide Square Posts, 1/2" long
- 1 lb. Bag Glass Separator

### Janus-24

- 2 - C-20H 1/2 Shelves, 1 C-20 Shelf
- 4 - 1" wide Square Posts, 1/2", 1", 2", 3", 4", 5", 6" long
- 1 lb. Bag Glass Separator

### GL-44AD, Pearl-44

- 2 - C-20 - 20" Square Shelves
- 8 - 1" wide Square Posts, 1/2" long
- 2 lb. Bag Glass Separator

### GL-64AD

- 3 - C-20 - 20" Square Shelves
- 12 - 1" wide Square Posts, 1/2" long
- 3 lb. Bag Glass Separator

# GL-Series Square Kilns

## GL-24ADTSD

### Digital Auto

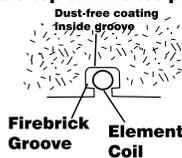
Firing Chamber:  
24" wide, 15" high,  
22 1/2" deep  
Shown with  
optional side & door ele-  
ments & door switch

Watch the red-hot glass through two tapered peepholes, drilled one above the other in the wall opposite the switch box. Peephole plugs are included.

## Optional Ceramic Fiber Top & Mercury Relays

The standard GL-series kiln comes with an insulating firebrick top with element grooves that eliminate element pins. The upgrade option is a ceramic fiber top with embedded heating elements. The fiber top helps keep the glass clean during firing. (It is available only for the GL-24 kilns.) Deluxe optional mercury relays are quieter and extremely long lasting.

The element groove in the top eliminates pins.



## Top, Side & Door Elements

The basic GL-series kiln comes with top-mounted heating elements for even glass expansion. Use side heat for taller projects such as drop-out vases sagged through a ring mold. Side elements, seated in dropped, recessed brick grooves, span the three walls in horizontal rows:

GL-18A and GL-18AD: 4 rows  
GL-24A and GL-24AD: 6 rows

Side and door elements offer unsurpassed heat distribution for difficult pieces. (The door with elements is always hinged on the right side.)

Manual-fire and digital GL-series with top and side/door elements use infinite control switches to



## GL-18ADTSD

### Digital Automatic

Firing Chamber: 18" wide  
13" high, 18" deep  
Shown with  
optional side & door ele-  
ments & door switch

balance the heat between top and side/door elements. Kilns with side/door elements are equipped with a door safety switch. When the door opens, the switch shuts off the elements while leaving the temperature controller on.

## Optional Kiln Stand

The heavy-duty GL-series stand raises your GL-18, GL-22 or GL-24 kiln to a convenient height. Begin operating your new kiln without having to find a table strong enough to support over 300 pounds. The table is 147 pounds of rock-solid construction.

**ST-8: without casters**  
30 1/4" square x 28 1/4" high, 147 lb.

**ST-8-1: with 2" steel casters**  
30 1/4" square x 30 3/4" high, 150 lb.



The GL-series interior is high enough to bend glass for curved windows or cabinet doors and to repair lamp shades. Make huge glass-fused platters. Crack the door to drag a rod across the softened glass or to emboss designs in the surface.

Paragon's beautifully crafted GL-series are made for years of rigorous firing, as artists all over America can attest. The insulating firebrick, wrapped in heavy-gauge steel, soak up heat for slow, even cooling.

The spring-pressure latch and a 1/2" recess around the edge of the door seal the door tight. The door remains rock-steady on a heavy hinge shaft. Four hand lifts aid moving. The base is open in the back and slotted to dissipate heat. The kilns are ideal for classrooms, because students are less apt to slam a kiln door than a lid.

# GL-44AD & GL-64AD Glass Kilns

**GL-64AD**  
Digital Automatic  
Firing Chamber: 22" wide  
64" long, 16" deep

The GL-44AD and GL-64AD digital kilns quickly pay for themselves by producing large glass panels, curved windows, lamp shades or production loads of small pieces.

### Interior Dimensions

	Width	Length	Depth
GL-44AD	22"	44"	16"
GL-64AD	22"	64"	16"

The 16" depth is ideal for glass sagging. Optional sidewall heat offers greater control of sagging and bending. The Sentry 12 key digital controller is standard (page 4).

The GL-64AD has eight peepholes along the front; the GL-44AD has six. When ordering the Orton KilnVent (page 20), be sure to specify whether you want peepholes. Optional casters require factory-welded mounting plates, so specify casters at the time of order.

The lid is easy to lift with Paragon's exclusive LiteLid spring counter-balance. The GL-44AD comes with two LiteLid assemblies; the GL-64AD comes with three. The lid is insulated with 1" ceramic fiber and 3" ceramic fiber board. Replaceable heating elements mount in pinless



lid fiber board grooves. 2 1/2" insulating firebrick lines the walls and bottom. A welded 2" tubular steel frame reinforces the kiln for long life. We are so confident in the GL-44AD and GL-64AD that we back them with a two-year warranty.

The GL-64AD brick bottom holds three 20" square shelves; the GL-44AD holds two. Cover shelves with fiber paper when large projects overlap shelves.

# Janus-Series Glass/Pottery Kilns

Fire glass, pottery, and glass casting in the same kiln

The Paragon Janus-series kilns can fire both pottery and glass. Heating elements are mounted in the top and sidewalls.

Select between glass and pottery with the flip of a switch. In glass mode, heat comes from the top elements and the middle sidewall element. In pottery mode, heat comes from only the sidewall elements.

In glass mode, fuse and sag large glass projects placed on a single shelf. In pottery mode, fire to cone 10 or fire several shelves of fused or cast glass. These are truly versatile kilns designed to give you years of enjoyment.

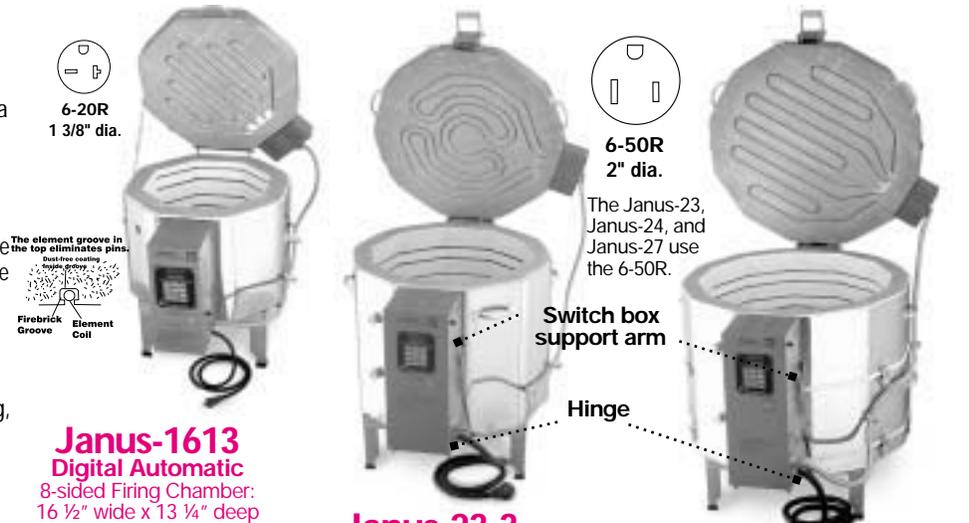
The elements in the lid/roof are mounted in a firebrick "ball" groove that eliminates element pins. The element coils are wider than the groove opening, so the elements stay in place without pins. The groove dissipates heat efficiently.

The 3"-thick lid on the Janus-23 and Janus-27 top-loading kilns are easy to lift with the exclusive, patented Paragon spring counter-balance. For easier maintenance, we use 2" high blank wall bricks in the top row of the Janus-23 and Janus-27. Since the brick is without element grooves, it is less susceptible to damage during loading.

The patented control box on the Janus-23 and Janus-27 opens forward for easy maintenance. A folding support arm holds the box in the open position.

The digital Sentry 2.0 includes two modes: Cone-Fire with programmed slow cooling and 18-Segment Ramp-Hold. Manufactured by the Orton Ceramic Foundation exclusively for Paragon.

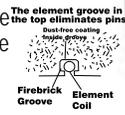
- Glass/pottery selection switch
- 3" insulating refractory firebrick walls
- Janus-24: Operate the door latch with one hand.
- Sidewall elements in dropped, recessed brick grooves are easy to replace.
- Tapered peepholes for a wide view



6-20R  
1 3/8" dia.

6-50R  
2" dia.

The Janus-23, Janus-24, and Janus-27 use the 6-50R.



The element groove in the top eliminates pins. Dust-free coating. Firebrick Groove. Element Coil.

Switch box support arm

Hinge

**Janus-1613**  
Digital Automatic  
8-sided Firing Chamber:  
16 1/2" wide x 13 1/4" deep

**Janus-23-3**  
Digital Automatic  
10-sided Firing Chamber:  
22 1/2" wide x 22 1/4" deep

**Janus-27**  
Digital Automatic  
12-sided Firing Chamber:  
28" wide x 22 1/4" deep

**Furniture Kits**  
Janus-1613: See page 9  
Janus-23 & 27: See page 11  
Janus-24: See page 18

The Janus-24 has elements in the top, sides, back and door.

**Janus-24**  
Digital Automatic  
Firing Chamber:  
24" wide, 15" high,  
22 1/2" deep



- A steel floor pan supports the entire brick bottom of each kiln.
- One year limited warranty
- Available in 240, 200, 208, or 380 volt, 50 or 60 hertz, single or 3 phase.

- Janus-24 and Janus-27: easy-access control box with folding support arm.
- Since Janus kilns are designed for porcelain, they also easily fire ceramics, china paint, decals, gold and, of course, glass. In the pottery mode, they are ideal for glass casting.

## The Vulcan

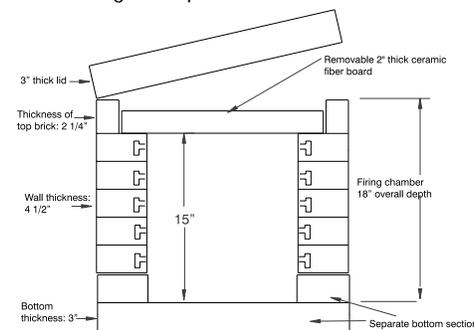
Deluxe glass crucible kiln

The Vulcan heats approximately 50 pounds of glass to a molten state. Mix custom glass colors. Make huge glass figurines, paperweights, blown vessels, stringers, and much more. Pull your own neon tubing. Make glass castings.

Sidewalls are 4 1/2" thick. The extra insulation and heavy 12 gauge elements are designed for the stress of very long heat soaks. The S-Type platinum thermocouple is standard on all Vulcan kilns. It far outlasts the K-Type thermocouple.

The Vulcan has a separate bottom section with a row of 2 1/2" high wall bricks, held in place with spring twist locks. Should a crucible crack during firing and leak glass onto the kiln bottom, merely replace the damaged bottom section.

The Vulcan comes with a 2" thick ceramic fiber board insert that fits into a recess at the top of the walls. Cut a hole in the center of the fiber board to match the top of a crucible. The fiber board holds heat inside the kiln when you open the lid. The Vulcan is 13 1/2" wide x 18" deep. The



fiber board in place reduces the firing chamber to 15" deep.

Program the digital controller for the exact consistency of glass melt that you desire. The hinged lid floats and has a lock-in lid support, which you can remove if you prefer to use the lid chain. You can also use the kiln for pottery, glass fusing, or glass casting. Comes with a one year warranty and heavy duty stand. (However, Vulcan elements are not warranted due to the long firing cycles of a crucible kiln.)

Furniture: Order the C10-R 10" round shelf and the correct 1 1/2" wide posts to support your crucibles.



A 2" thick ceramic fiber insert fits into a recess in the top of the kiln.

6-30R  
2" dia.



**Vulcan**  
Digital Automatic  
8-sided Firing Chamber:  
13 1/2" wide x 18" deep

# SC-Series Jewelry Kilns

*Silver clay, glass jewelry, enameling, glass beads*

The digital SC-series kilns fire silver clay, decals, china paint, enameling, and glass in minutes up to 2000°F. The light-weight, portable SC-series kilns are popular with seminar teachers because they fire so fast, plug into a 120 volt outlet, and are easy to sell.

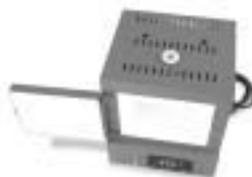
The SC-series door opens 180 degrees for easy loading. The kilns ship by UPS. The SC-2 and SC-3 are also available for Europe.

The SC-series are surprisingly affordable for digital kilns. They fire automatically at the rate and temperature you enter. A large, brightly lit display prompts for firing rate, temperature and hold time. (See Sentry Xpress controller, page 4.) Use the hold feature to automatically soak any type of clay silver or gold to its recommended time.

The high-tech energy efficient ceramic fiber firing chamber is wrapped in a steel inner case. The outer steel case remains cool due to the layer of air between it and the inner case. In addition, the case is slotted for air circulation. Electrical components, located in the base, stay cool for long life even at extended hold

times. This is one reason the SC-series kilns are so trouble-free. The long life of a Paragon SC-series kiln is legendary.

The fast firing element is embedded in the firing chamber shell. The SC-2 and SC-3 heat from the two sides and back. Both kilns include a top vent for lost wax casting, complete with a tapered plug. Each SC-series kiln includes a 1/4" thick ceramic fiber shelf.



The door on the SC-2 and SC-3 opens 180 degrees.

## Door Options

Order an SC-2 or SC-3 with an optional bead annealing door, glass window, or both. Watch the interior turn bright red through the glass window. It is 1" x 3" when ordered with the bead annealing door and 2" x 2" without the bead door. (Note: always wear firing safety glasses when viewing the kiln interior.) The glass view port is guaranteed up to 1700°F.

## SC-2 & SC-3 Door Options



Bead door



Bead door and 1" x 3" glass window



2" x 2" glass window

**SC-3**  
Digital Automatic  
Firing Chamber: 8" deep,  
7 3/4" wide, 7 3/4" high



SHIPS BY UPS



SHIPS BY UPS

**SC-2**  
Digital Automatic  
Firing Chamber: 7 3/4" deep,

5-15R  
1 3/8" dia.

SC-2 & SC-3 use 5-15R.

# Orton Vent Master

*Brighten colors while removing fumes*



The patented Orton Vent Master not only vents fumes but also improves firing results.

It pulls fresh oxygen into the kiln for brighter colors, especially noticeable with red and orange glazes and decals. Fire red and green glazes in the same load without glaze contamination. The Vent Master draws air from the kiln, dilutes it with room air, and pushes it outdoors through a vent hose.

The extra oxygen and increased air movement help burn carbon out of the clay, which helps

eliminate a host of firing problems: bloating, dark patches in the clay, porcelain mildew, pinholes, pitting, blisters, and bubbles.

The Vent Master removes fumes containing volatile metals, fluorides and sulphur oxides. You can fire even lusters, decals, metallics, and pate-de-verre glass without strong odor.

The flow of fresh air helps even out the temperature throughout the kiln. The vent also extends the life of the Kiln Sitter tube assembly, since fumes by-pass the tube.

You will enjoy the convenience of the Vent Master. Throughout the firing, keep the lid closed and peephole plugs inserted. You no longer need to remember to lower the hot lid from vented position.

The Vent Master increases firing time by about five minutes for firings up to cone 4; 12 minutes for firings from cone 4 to 10. It has little effect on maximum temperature. At 132 watts, electrical consumption of the Vent Master motor is only pennies per firing.

From the shut-off temperature down to 1000°F, the Vent Master has little effect on cooling time. From 1000°F to room temperature, it reduces cooling time by about two hours.

As with Paragon kilns, the Orton Vent Master can be made for any electrical system in the

world. Approved for use in the 1992 Uniform Mechanical Code. UL/CSA approved for UL Listed kilns. ETL Listed, CE Certified. Two year limited warranty.

Order a kiln with the Vent Master and we will drill all necessary holes at no extra charge. (Please note: kilns in stock will not be uncrated to drill the holes.) The holes are only 1/4".

The Vent Master requires a separate 120 volt wall plug unless your kiln is equipped with the AOP vent. (See next page.)

A 3' long 2" duct comes with each vent. The 2" duct runs between the collection cup and the blower motor. Use 4" aluminum dryer duct or 4" PVC pipe between the motor and the vent outlet. (Do not use vinyl dryer duct.)

Position the Vent Master next to the kiln and attach the collection cup to the bottom or side of the kiln. The collection cup fits under most top-loading kilns. (Note: The kiln stand must be at least 5" high to accommodate the collection cup.) Since the vent motor is away from the kiln, there is no vibration in the kiln, the motor is kept away from the heat of the kiln, and the fan is easy to clean. The Vent Master works with all Paragon kilns except the smallest tabletop models. The Vent Master can vent two kilns. For the second kiln, order the Vent Master Expansion Kit.

# Kiln Accessories



12-Key TouchnFire 2



3-Key TouchnFire 2

## TouchnFire 2 Portable Digital Controllers

Fire your manual workhorse kiln with a time-saving digital controller. The savings in time will pay for the controller. Works with kilns of any brand or age. (See page 4 for details on the Sentry.)

The wall-hanging TouchnFire 2, or TnF 2, is available with either the 3-key or 12-key controller. The TnF 2 plugs into the wall receptacle that your manual-fire kiln is now using. The kiln, in turn, plugs into a receptacle on the TnF 2. To install the thermocouple (which reads temperature), drill a 1/8" hole through the kiln's firebrick wall. After mounting the thermocouple to the kiln, you are ready to fire. You can continue to use a Kiln Sitter as an additional safety backup.

The price of the TnF 2 varies depending on your kiln's amperage. Each TnF 2 will operate on only one type of wall receptacle.

The TnF 2 comes with a drilled peephole plug, thermocouple and instructions.

### TnF 2

Warranty on 12-key TnF 2: 2 years on electrical components; 2 1/2 years on the 12-key Sentry controller.

Warranty on 3-key version: 2 years

Specify wall receptacle used by kiln: NEMA configuration number (i.e. 6-50R) and voltage. (The 3-key TnF 2 is limited to 120v 15 amp and 120v 20 amp.)

12-Key & 3-Key Versions: Specify whether you want Cone-Fire mode, which can be included at no extra charge. (TnF 2's are ordinarily shipped with Ramp-Hold mode only.)

Shipping Weight, both versions: 30 lb.

## Computer Interface Kit

Monitor your kiln from the convenience of a computer. Print graphs of firings. Maintain firing records. The Interface Kit connects the Sentry controller to a Windows 95 or later computer.

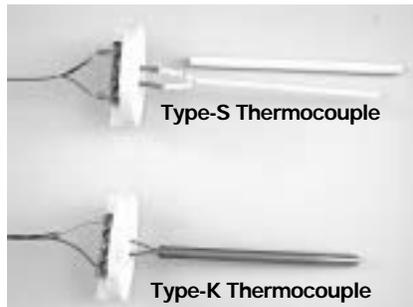
One Interface Kit can monitor up to 8 kilns. You will need a separate serial port on your computer for each kiln, plus a cable.

Each kiln must include an RS-232 port on the kiln. Please specify this option when you order your kiln. Included:

- 1 - Computer chip for the Sentry controller
- 1 - 6' cable (you can purchase longer cable at a computer supply store)
- 1 - Orton's ControlMaster™ software on CD

## AOP Vent

The "Auxiliary Output," available on most Paragon TnF kilns, is a relay-powered electrical receptacle mounted to the kiln. Plug an Orton Vent Master into the AOP to control when the vent operates during firing.



Type-S Thermocouple

Type-K Thermocouple

## Thermocouples for the 12-Key Sentry

Paragon digital kilns use a thermocouple to sense firing temperature. The 12-key Sentry controller accepts Types K, R, and S thermocouples.

### Type-S Platinum

The Type-S premium-grade thermocouple is ideal for firings above cone 4. It is extremely long lasting even at stoneware temperatures. A must for production potters. 1/4" diameter ceramic sheath included.

**Important: when installing an S-type thermocouple, you must select the correct thermocouple type under Options on your Sentry controller.**

### Type-K Chromel-Alumel

Hermetically sealed in a 1/4" diameter Inconel® tube for long life. This rugged, inexpensive thermocouple is standard on most Paragon kilns equipped with the 12-key Sentry.

## T-2 Analog Pyrometer

The pyrometer gives a feeling of confidence as you watch the temperature rise as expected. Pyrometers are popular for china painting and enameling. Ceramists find them useful in monitoring the progress of a switch-operated kiln. The pyrometer indicates when to start watching the cone through the peephole.

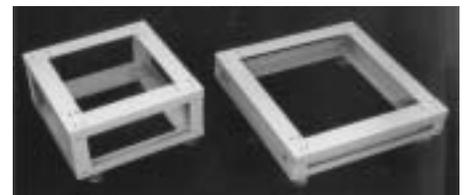
Our pyrometers are accurate within 2% and equipped with a hanging bracket for easy wall mounting. Insert the thermocouple by drilling a 1/8" hole in kiln or using the furnished drilled peephole plug. Complete with wires and hermetically sealed thermocouple.



T-2 Analog Pyrometer (max. temp 2200°F)

## 3" Casters

Solid steel, smooth rolling, for H & K square kilns and GL-44AD & GL-64AD.



## Deluxe Kiln Stands

Conveniently move your kiln out of the way when not in use. Heavy duty stands remain rock steady with power pressed steel frame and reinforced legs. 2" smooth rolling steel casters included. Stands assemble with simple tools & will accommodate the Orton Vent Master.

**18" Square x 12 1/4" high**

6, 7 & 8 sided kilns, 17 lbs. With casters

**24" Square x 12 1/4" high**

10 & 12 sided kilns, 20 lbs. with casters

# Firing Supplies



## Video: How to Load and Fire Your Ceramic Kiln

This factory-authorized video is like having a teacher with you. Topics include setting up the kiln; venting; kiln wash; loading; stilts; cones. Covers S, SnF & TnF controls, including DTC 600 & 800 series. (Does not include the Sentry.) Plastic library case. 59 minutes.



## Video: How to Make Porcelain Dolls

Packed with tips on pouring, cleaning and firing porcelain dolls. It is exhaustive in scope. Includes buffing and china painting; inserting eyes, attaching wig, and assembling the body. Plastic library case. 90 minutes.



## Video: Sandi Scoville's Basic Glass Fusing Tape

Learn to coat the shelf, use a glass cutter and running pliers, fuse copper wire into glass, use dichroic glass, glue glass pieces before firing, and much more. Sandi takes you through seven fusing projects with assembly shown in closeup. Uses the QuikFire kiln. 51 minutes.

## Kiln Instruction Manuals

Available for all Paragon kilns including the older models. Packed with pictures and colorful charts. Comes with a wiring diagram if you specify your Paragon model. TnF owners: specify whether DTC 100, 600, 800, or 1000 series; or the Sentry.

## 6" Tile Holder

Tile holders make very efficient use of kiln space. They allow air to circulate around tiles for even heating. Reduces warping. Holds tile without touching the glazed surface. Tile holders can be stacked inside the kiln. Holds 9 - 6" x 6" tiles.

Exterior dimensions: 7 1/2"W x 10"H x 6 1/4" D



## Bell Mini-Bars

50 per box, cones 019 - 10

Insert the mini-bar in the Kiln Sitter. Specify cone number.

## Orton Cones, Small

50 per box, cones 019 - 10

Insert the 1 1/8" small cone in the Kiln Sitter. Specify cone number.



## Orton Self-Supporting Cones

25 per box

cones 022 - 016; 010 - 11

Place self-supporting cones on the kiln shelf with the ware. They stand upright on their own, doing away with the cone plaque. The correct 8° slant is built into the cone base. Recommended for every ceramic firing, including electronic kilns. Specify cone number.

## High Fire Kiln Wash

1 lb. Bag (packed 20 per carton)

5 lb. Bag (packed 4 per carton)

High fire kiln wash protects the kiln bottom and shelves from glaze drips. As a powder, kiln wash has unlimited shelf life.

## Kaolin Grog

5 lb. Bag (packed 4 per carton)

Kaolin grog is powdered insulating firebrick—a by-product of kiln manufacturing. Mix kaolin grog with just enough repair cement to hold the mixture together. Use to fill in damaged areas on the brick bottom or walls. Add kaolin grog to modeling clay to reduce shrinking and warping. Make custom kiln furniture by mixing 50/50 with fire clay. Inquire about economical large volume purchases.

## Grit Cloth

Grit Cloth 9" x 11", 10 per pack

Remove mold seams, level the base of greenware pieces. Abrasive-coated mesh allows residue to pass through. May be rinsed with water and reused many times.

## Stilt Stone

4" x 3/8" square, 10 per pack

Remove stilt or glaze drip marks from the base of your glazed pieces. Rub either end of this white aloxite stone over area until smooth.



## Hot Glove & Lid Lifter

Safely handle hot peephole plug or lid handle with hot glove.

Silicone-impregnated, fire-resistant glove will scorch, however, if left in contact with hot lid handle too long. Not intended for handling hot ceramics or hot kiln shelves.

The Lid Lifter lowers a vented lid to the closed position. Place the hook under the lid handle. 12 1/2" overall length.



## Firing Safety Glasses

Protect your eyes with firing glasses whenever looking into the firing chamber of a hot kiln. Specially coated to filter the infra-red and ultra-violet light inside a kiln. Also protects your eyes from heat. Reduces glare, makes the pyrometric cone easier to see, especially when firing porcelain.



## Kiln Case Tightener

Simplifies brick replacement by squeezing case tightly after new brick is installed. Case screw holes line up easily. Insert strap into a slot in the ratchet and turn the ratchet.

## Kiln Repair Cement Powder

1 lb. Bag

Packed 4 per small carton, 20 per large carton

A permanent, high temperature refractory cement for all types of firebrick kilns. Thin with water and replace broken brick sections, repair cracks, or apply as dust-free coating on inner lid. Instructions included. See also "Kaolin Grog" to the left.

## Deluxe Liquid Kiln Coating & Repair Cement

1 Pint Bottle

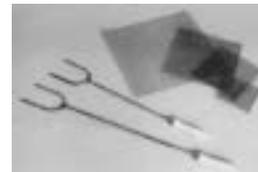
This repair cement is the same type we use in the factory to make lids and bottoms. Comes pre-mixed for immediate use. Replace broken brick sections, repair cracks, or apply as a dust-free coating on the inner lid.

## Stainless Steel Polish

4 oz. Plastic Bottle, packed 4 per carton

Preserves the beauty of your stainless steel kiln. Removes smudges quickly.

## Enameling Forks & Racks



Racks are non-scaling, 1/4" mesh inconel alloy. Order several 1" posts to support rack. Specify 18" or 24" fork.

## Stainless Steel Wax Trays



Catches the wax from jewelry molds during lost wax casting. Welded corners. Comes with a removable steel grid cover. See price list for sizes available.



## Glass Fusing Haik Brush

Large - 2" wide (pictured)

Small - 1" wide

Applies a smooth coat of glass separator to shelves and slumping molds. Recognized as the ideal brush for glass fusing.

# Paragon Kiln Selection Chart

For a more in-depth guide to choosing a kiln, select "Build a Kiln" from the home page at [www.paragonweb.com](http://www.paragonweb.com).

	Catalog Page	Ceramics	Stoneware & Porcelain	China Painting	Enameling	Glass Fusing	Glass Bead Annealing	Lamp Work	Jewelry, Silver Clay	Porcelain Dolls	Studio Size	Hobby Size	Glaze Testing	Portable	High Speed	Electronic, 3-Key	Electronic, 12-Key	Switch or SnF-Auto	Easy-Load Studio Size	Front Loading	Top Loading	LiteLid Spring System	
14-9INF, X-14J, 14-9PAK	12			Y							Y		Y					Y			Y		
14-9SSP	12			Y								Y		Y		Y						Y	
Bluebird	14						Y				Y			Y		Y				Y			
Caldera, Caldera with Bead Collar	12	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y						Y		
Dragon, Super Dragon, Iguana	10	Y	Y							Y	Y				Y		Y		Y	Y			
E-9AX, E-10A, E-14A	13	Y		Y	Y	Y						Y		Y				Y		Y			
F-120, F-130 Elite	15				Y	Y	Y	Y	Y			Y		Y		Y					Y		
F-240	15				Y	Y	Y	Y	Y		Y					Y				Y	Y		
Fusion-6, -7, -8, -10	15					Y						Y				Y						Y	
GL-18A, GL-18ATSD, GL-24ATSD	18					Y					Y							Y	Y	Y			
GL-18AD, GL-18ADTSD	18					Y					Y						Y		Y	Y			
GL-24AD, GL-24ADTSD	18					Y					Y						Y		Y	Y			
GL-44AD, GL-64AD	18					Y					Y						Y		Y		Y	Y	
Home Artist Kiln	6	Y		Y		Y						Y	Y	Y	Y						Y		
J-14-1, J-14-2	13			Y	Y	Y						Y						Y		Y			
Janus-1613, Janus-23, Janus-27	19	Y	Y			Y				Y	Y						Y		Y	Y			
Janus-24	19	Y	Y	Y	Y	Y				Y	Y						Y		Y	Y			
Ovation-10	16					Y					Y						Y		Y		Y	Y	
Pearl-18	17					Y						Y				Y						Y	
Pearl-22, Pearl-44	17					Y					Y						Y		Y		Y	Y	
Q-11A	13	Y	Y	Y	Y	Y				Y		Y	Y	Y				Y		Y			
QuikFire 6	14	Y		Y	Y	Y						Y	Y	Y				Y		Y			
S-11-9-3	6	Y	Y	Y						Y		Y		Y				Y			Y		
S-1613-3	7	Y	Y	Y						Y		Y						Y			Y		
S-23-3, SnF-23-3	8	Y	Y								Y				Y			Y	Y		Y	Y	
S-24, SnF-24	8	Y									Y							Y			Y	Y	
S-99	8	Y									Y							Y			Y	Y	
S-24-3, SnF-24-3	8	Y	Y								Y							Y			Y	Y	
SnF-28-3	9	Y									Y							Y			Y	Y	
SnF-66, S-66-3, SnF-66-3	6	Y		Y								Y						Y			Y		
S-82, SnF-82	7	Y										Y						Y			Y		
S-82-3, SnF-82-3	7	Y	Y							Y		Y						Y			Y		
SC-2, SC-3	20			Y	Y	Y			Y			Y	Y	Y		Y				Y			
SC-2 & SC-3 with Bead Door	20			Y	Y	Y	Y		Y			Y	Y	Y		Y				Y			
TnF-1613-3	7	Y	Y	Y						Y		Y			Y		Y				Y		
TnF-23-3	8	Y	Y								Y				Y		Y		Y		Y	Y	
TnF-24	8	Y									Y						Y				Y	Y	
TnF-24-3	8	Y	Y								Y						Y				Y	Y	
TnF-27-3	9	Y	Y								Y				Y		Y		Y		Y	Y	
TnF-28-3	9	Y									Y						Y				Y	Y	
TnF-66, TnF-66-3	6	Y		Y								Y					Y				Y		
TnF-82	7	Y										Y					Y				Y		
TnF-82-3	7	Y	Y							Y		Y					Y				Y		
TnF-H-17A, TnF-K-6A	--	Y	Y								Y						Y		Y		Y		
TnF-J-14-1, TnF-J-14-2	13			Y	Y	Y	Y		Y			Y	Y				Y			Y			
Viking-28, Viking-24	11	Y	Y								Y				Y		Y				Y	Y	
Vulcan	19	Y	Y								Y						Y		Y		Y		
Xpress E-Series: E-9A, -10A, -14A	13	Y		Y	Y	Y			Y			Y	Y	Y		Y				Y			
Xpress-1193	6	Y	Y	Y						Y		Y	Y	Y		Y					Y		
Xpress-Q-11A	13	Y	Y	Y	Y	Y			Y	Y		Y	Y	Y	Y					Y			

Call for specifications on voltages and phases of kilns not listed.

# Complete Specifications of

Model No.	Certified to CSA & UL Std 499	Max. Temp. °F	Cone	Cubic Feet	Firing Chamber Opening	Firing Chamber Depth	Approx. Shpg. Weight Kiln	Shpg. Furn.	Outside Dimensions W. X D. X H. (¶: Height includes 9½" tall stand)	Doorway Clearance Needed (See sidebar note, pg 25)
<b>Cone 10 Viking, Dragon, &amp; Iguana Kilns</b>										
<b>Viking-28</b>	Yes	2350°	10	10.57	28" 12-sided	29"	430	172	36 ¼" x 49 ¾" x 48"¶	12"***
<b>Viking-24</b>	Yes	2350°	10	7.10	22 ½" 10-sided	29"	342	95	30 ½" x 43 ¾" x 48"¶	33"
<b>Dragon</b>	Yes	2350°	10	9	24"W x 27"H	24"	885	128	43 ¾" x 39 ¼" x 69"*	39 ¼/34"
<b>Super Dragon</b>	No	2350°	10	15.18	27"W x 36"H	27"	1500	128	44" x 42" x 78"	42"
<b>Iguana</b>	No	2350°	10	4.2	18"W x 22 ½"H	18"	483	50	36" x 31 ¼" x 60"*	31 ¼"

\* The exterior height of the Dragon and Iguana includes the 24" optional Dragon stand and 22" optional Iguana stand.

## 12 Sided Ceramic Kilns

<b>TnF-27-3</b>	Yes	2350°	10	8.11	28"	22 ¼"	397	145	36 ¼" x 49 ¾" x 40"¶	12"***
<b>SnF-28-3</b>	Yes	2150°	4	10.57	28"	29"	415	172	36 ¼" x 45 ½" x 48"¶	36"
<b>TnF-28-3</b>	Yes	2150°	4	10.57	28"	29"	430	172	36 ¼" x 49 ¾" x 48"¶	12"***

## 10 Sided Ceramic Kilns

<b>S-24</b>	Yes	2300°	8	7.52	23 ½"	29"	307	105	30 ½" x 39 ½" x 47 ½"¶	32"
<b>SnF-24</b>	Yes	2300°	8	7.52	23 ½"	29"	307	105	30 ½" x 39 ½" x 47 ½"¶	32"
<b>TnF-24</b>	Yes	2300°	8	7.52	23 ½"	29"	331	105	30 ½" x 43 ¾" x 47 ½"¶	33"
<b>S-24-3</b>	Yes	2350°	10	7.10	22 ½"	29"	335	95	30 ½" x 39 ½" x 48"¶	32"
<b>SnF-24-3</b>	Yes	2350°	10	7.10	22 ½"	29"	335	95	30 ½" x 39 ½" x 48"¶	32"
<b>TnF-24-3</b>	Yes	2350°	10	7.10	22 ½"	29"	342	95	30 ½" x 43 ¾" x 48"¶	33"
<b>S-99</b>	Yes	2300°	8	7.00	23 ½"	27"	300	120	30 ½" x 34 ¾" x 42"¶	32"
<b>S-23-3</b>	Yes	2350°	10	5.10	22 ½"	22 ¼"	300	77	30 ½" x 39 ½" x 41 ½"¶	32"
<b>SnF-23-3</b>	Yes	2350°	10	5.10	22 ½"	22 ¼"	300	77	30 ½" x 39 ½" x 41 ½"¶	32"
<b>TnF-23-3</b>	Yes	2350°	10	5.10	22 ½"	22 ¼"	313	77	30 ½" x 43 ¾" x 41 ½"¶	33"

## 8 Sided Ceramic Kilns

<b>S-82</b>	Yes	2300°	8	3.30	17 ½"	22 ¼"	186	45	25 ½" x 28 ¼" x 37"¶	26"
<b>SnF-82</b>	Yes	2300°	8	3.30	17 ½"	22 ¼"	186	45	25 ½" x 28 ¼" x 37"¶	26"
<b>TnF-82</b>	Yes	2300°	8	3.30	17 ½"	22 ¼"	213	45	25 ½" x 32 ½" x 37"¶	26"
<b>S-82-3</b>	Yes	2350°	10	2.95	16 ½"	22 ¼"	200	38	25 ½" x 28 ¼" x 37 ½"¶	26"
<b>SnF-82-3</b>	Yes	2350°	10	2.95	16 ½"	22 ¼"	200	38	25 ½" x 28 ¼" x 37 ½"¶	26"
<b>TnF-82-3</b>	Yes	2350°	10	2.95	16 ½"	22 ¼"	228	38	25 ½" x 32 ½" x 37 ½"¶	26"
<b>S-1613-3</b>	Yes	2350°	10	1.75	16 ½"	13 ¼"	145	28	25 ½" x 28 ¼" x 29"¶	26"
<b>TnF-1613-3</b>	Yes	2350°	10	1.75	16 ½"	13 ¼"	171	28	25 ½" x 28 ¼" x 29"¶	26"

## 6 & 7 Sided Ceramic Kilns

<b>SnF-66</b>	Yes	2150°	4	1.40	14 ½"	13 ¼"	136	23	22" x 25 ½" x 27 ½"¶	22"
<b>TnF-66</b>	Yes	2150°	4	1.40	14 ½"	13 ¼"	136	23	22" x 25 ½" x 27 ½"¶	22"
<b>S-66-3</b>	Yes	2200°	6	1.22	13 ½"	13 ¼"	147	20	22" x 25 ½" x 28"¶	22"
<b>SnF-66-3</b>	Yes	2200°	6	1.22	13 ½"	13 ¼"	147	20	22" x 25 ½" x 28"¶	22"
<b>TnF-66-3</b>	Yes	2200°	6	1.22	13 ½"	13 ¼"	147	20	22" x 25 ½" x 28"¶	22"
<b>S-11-9-3</b>	Yes	2300°	8	.56	11"	9"	111	10	19" x 22" x 25"¶	22"
<b>Xpress-1193</b>	No	2300°	8	.56	11"	9"	111	10	19" x 22" x 25"¶	22"

## Caldera Multi-Purpose Kilns

<b>Caldera</b>	Yes	2350°	10	.25	8" x 8"	6 ¾"	46	5	13" x 19 ½" x 11 ¾"	
<b>Caldera-S</b>	Yes	2350°	10	.25	8" x 8"	6 ¾"	46	5	13" x 19 ½" x 11 ¾"	
<b>Caldera-X</b>	Yes	2000°	03	.16	8" x 8"	4 ½"	14	--	13" x 13" x 4 ½"	
<b>Caldera-BC</b>	Yes	2000°	03	.16	8" x 8"	4 ½"	14	--	13" x 13" x 4 ½"	

## China Painting Kilns, 7 Sided

<b>14-9INF</b>	No	1700°	09	.95	14 ½"	9"	125	15	22" x 25 ½" x 23"¶	22"
<b>14-9SSP</b>	No	1700°	09	.95	14 ½"	9"	125	15	22" x 25 ½" x 23"¶	22"
<b>14-9PAK</b>	No	1700°	09	.95	14 ½"	9"	125	15	22" x 25 ½" x 23"¶	22"
<b>X-14J</b>	No	1700°	09	.69	14 ½"	6 ½"	102	15	22" x 26 ½" x 20 ½"¶	22"

## E & Q Series Square Kilns

<b>E-9AX</b>	Yes	2000°	03	.20	8 ½"W x 4 ½"H	9"	48		17 ¼" x 14 ½" x 12 ¾"	
<b>Xpress-E-9A</b>	No	2000°	03	.20	8 ½"W x 4 ½"H	9"	48		14" x 17 ¾" x 14 ¾"	
<b>E-10A</b>	Yes	2250°	6	.39	8 ½"W x 8 ¾"H	9"	90		17 ¼" x 18" x 17 ¾"	
<b>Xpress-E-10A</b>	No	2250°	6	.39	8 ½"W x 8 ¾"H	9"	80		14" x 17 ½" x 19 ¾"	

# Paragon Kilns

Electrical Power			Circuit Size		NEMA Config.
Volts	Amps	Watts	Copper Wire	Fuse Size	
240	60	14,400	4	70	Direct
240	60	14,400	4	70	Direct
240	69	16,500	4	75	Direct
240	90	21,600	2	100	Direct
240	45	10,800	6	60	6-50R
240	48	11,520	6	60	6-50R
240	45	10,800	6	60	6-50R
240	48	11,520	6	60	6-50R
240	45	10,800	6	60	6-50R
240	45	10,800	6	60	6-50R
240	48	11,500	6	60	6-50R
240	45	10,800	6	60	6-50R
240	45	10,800	6	60	6-50R
240	48	11,500	6	60	6-50R
240	45	10,800	6	60	6-50R
240	40	9,600	6	60	6-50R
240	40	9,600	6	60	6-50R
240	40	9,600	6	60	6-50R
240	30	7,200	6	50	6-50R
240	30	7,200	6	50	6-50R
240	30	7,200	6	50	6-50R
240	30	7,200	6	50	6-50R
240	30	7,200	6	50	6-50R
240	30	7,200	6	50	6-50R
240	27	6,400	10	30	6-30R
240	27	6,400	10	30	6-30R
240	15	3,600	12	20	6-20R
240	15	3,600	12	20	6-20R
240	15	3,600	12	20	6-20R
240	15	3,600	12	20	6-20R
240	15	3,600	12	20	6-20R
120	18	2,160	12	20	5-20R
120	18	2,160	12	20	5-20R
120	14	1,680	12	20	5-15R
120	14	1,680	12	20	5-15R
--	--	--	--	--	--
--	--	--	--	--	--
120	20	2,400	12	20	5-20R
120	20	2,400	12	20	5-20R
120	20	2,400	12	20	5-20R
120	15	1,800	12	20	5-15R
120	9	1,100	14	15	5-15R
120	9	1,100	14	15	5-15R
120	15	1,800	12	20	5-15R
120	15	1,800	12	20	5-15R

## Power Requirements

**IMPORTANT:** Have your electrician or power company verify your voltage. Most U.S. residential wiring is 120/240 volt. However, 208 volt is becoming common in shopping centers and schools. 208 volt and 240 volt wall receptacles look the same. If you order a kiln of the wrong voltage, your kiln will need new elements to fire properly. This is not covered by warranty!

Before you plug a new kiln into an existing circuit, have an electrician check the circuit. Have him compare the circuit wire and breaker sizes with our recommended wire sizes. All wire sizes listed are for COPPER only.

Most 10 and 12 sided kilns rated 208 volt are shipped without cord sets and must be direct-wired by an electrician.

## Doorway Clearance for Kilns

Clearance may vary from specifications for special order kilns. Dragon kiln: doorway clearance is 34" if door handles and element cover are temporarily removed.

\*\*The 12-sided sectional kilns need 12" of door clearance when sections are disassembled. Fully assembled, the kilns need 36" of doorway clearance. (The separate kiln sections move through the doorway sideways.)

## Model Numbers Explained

### Prefixes

- E-** Enameling, front-loading kilns
- CP-** China painting kiln
- GF-** Glass fusing, top loading kilns
- GL-** Glass fusing 4-sided kilns
- H-** Square top-loading ceramic kilns
- J-** Medium size ceramic fiber square kilns
- K-** Square top-loading ceramic kilns
- Q-** Ceramic front-loading square kilns
- S-** Manual-fire kilns
- SC-** Small ceramic fiber square kilns for jewelry
- SnF-** SetnFire automatic kilns with Kiln Sitter & Limit Timer
- TnF-** TouchnFire digital kilns

## Suffixes

- 3** 3" thick sidewalls
- A** Painted kiln case
- B** Stainless kiln case
- D** Digital glass kiln

## Outside Kiln Dimensions

Outside dimensions shown in the specifications are the dimensions of an uncrated kiln. Dimensions include the switch box, LiteLid and handles. At least 12" of additional clearance are required for safety on all sides of kiln during operation.

## Firing Chamber Depth

**Top loading kiln:** Depth is measured from top to bottom

**Front loading kiln:** Depth is measured from front to rear

## Modifications

Catalog price list applies to standard models built to these specifications. Any change will include a charge for time and materials, regardless of the type. Please add 3 to 4 weeks for shipment of customized models.

## Lid & Door Cutoff Switch

A lid switch can be factory-installed in most Paragon kilns, top or front loading. The switch shuts off power to the elements when the lid or door is opened slightly. We recommend the lid switch for heat treating, glass fusing, raku, and any application that requires the kiln to be opened at high temperature.

## Voltages Not Listed and International Systems

The kilns listed here are 120 or 240 volt, single phase. Many of our larger kilns are available in 200, 208, 220, 240, 480 v, 1 & 3 phase. We can make kilns for any country in the world. Please give destination country and plug type. For questions about electrical specifications, please call or send email.

We reserve the right to change product specifications without notice or obligation.

**INNOVATIVE  
KILNS  
since  
1948**

## Specifications (continued from pages 24 - 25)

Model No.	Certified to CSA & UL Std 499	Max. Temp. °F	Cone	Cubic Feet	Firing Chamber		Approx Shpg. Weight		Uncrated Kiln Outside Dimensions W. X D. X H. (¶: Height includes 9" tall stand)	(See sidebar note, pg 25) Doorway Clearance Needed
					Opening	Depth	Kiln	Furn.		
<b>E-14A</b>	Yes	2000°	03	.89	13"W x 8 ¾"H	13 ½"	121		21 ½" x 23" x 18 ½"	
<b>Xpress-E-14A</b>	No	2000°	03	.89	13"W x 8 ¾"H	13 ½"	115		18 ¼" x 22 ½" x 20 ½"	
<b>Q-11-A</b>	Yes	2350°	8	.13	6"W x 6 ¼"H	6"	37	2	14 ¼" x 11" x 14 ¾"	
<b>Xpress-Q-11-A</b>	No	2350°	8	.13	6"W x 6 ¼"H	6"	35	2	11" x 14 ¼" x 16 ¾"	

### Blue Bird Bead Annealing Kiln

<b>Blue Bird</b>	No	1200°		.28	20"W x 5"H	5"	40	-	33 ½" x 11 ½" x 12 ½"	
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### F-Series Lamp Working Kilns

<b>F-120</b>	Yes	1700°		.47	10 ¾"W x 7"H	11"	125	12	20 ½" x 23" x 20"	20 ½"
<b>F-130 Elite</b>	No	1700°		.9	11"W x 13"H	11"	162	12	23 ½" x 18 ½" x 26"	23 ½"
<b>F-240</b>	Yes	1700°		2.4	18"W x 13"H	18"	288	13	29" x 32" x 28 ½"	29"

### Glass Fusing Kilns with Elements in the TOP

<b>Fusion-6</b>	Yes	1700°		.42	11" 6-sided	6 ½"	99	10	19" x 20" x 21"¶	
<b>Fusion-7</b>	Yes	1700°		.69	14 ½" 7-sided	6 ½"	115	12	22" x 24 ½" x 21"¶	22"
<b>Fusion-8</b>	Yes	1700°		1.59	17 ½" 8-sided	11"	158	15	25" x 28 ½" x 25 ½"¶	26"
<b>Fusion-10</b>	Yes	1700°		2.86	23 ½" 10-sided	11"	205	30	30 ½" x 39 ½" x 25 ½"¶	32"
<b>GL-18A</b>	No	1700°		2.4	18"W x 13"H	18"	310	15	34 ½" x 28" x 25 ½"	31"
<b>GL-18AD</b>	No	1700°		2.4	18"W x 13"H	18"	310	15	34 ½" x 28" x 25 ½"	31"
<b>GL-24AD</b>	Yes	1700°		4.68	24"W x 15"H	22 ½"	365	43	40 ½" x 32" x 26 ¼"	33"
<b>GL-44AD</b>	No	1700°		8.96	22"W x 44" long	16"	850	54	56" x 28" x 40"	41 ½"
<b>GL-64AD</b>	No	1700°		13	22"W x 64" long	16"	1050	76	76" x 28" x 40"	41 ½"
<b>Ovation-10</b>	No	1700°		5.2	22 ½"W x 41 ½" long	11"	402	45	50" x 39 ½" x 29"¶	39 ½"
<b>Pearl-18</b>	No	1700°		1.59	18"W x 18" long	8 ½"	230	20	27" x 34" x 21"	28"
<b>Pearl-22</b>	No	1700°		3.64	22"W x 22" long	13"	321	28	32" x 37" x 26"	32"
<b>Pearl-44</b>	No	1700°		7.28	22"W x 44" long	13"	875	54	62" x 33" x 47"	33"

### GL Series Glass Fusing Kilns with TOP, SIDE AND DOOR Elements

<b>GL-18ATSD</b>	No	1700°		2.4	18"W x 13"H	18"	310	15	34 ½" x 28" x 25 ½"	31"
<b>GL-18ADTSD</b>	No	1700°		2.4	18"W x 13"H	18"	310	15	34 ½" x 28" x 25 ½"	31"
<b>GL-24ATSD</b>	Yes	1700°		4.68	24"W x 15"H	22 ½"	397	43	40 ½" x 32" x 29 ½"	33"
<b>GL-24ADTSD</b>	Yes	1700°		4.68	24"W x 15"H	22 ½"	397	43	40 ½" x 32" x 29 ½"	33"

### H & K Series Square Kilns

<b>TnF-H-17A</b>	Yes	2350°	10	3.34	17" x 17"	20"	365	45	34 ½" x 32" x 31"	32"
<b>TnF-K-6A</b>	Yes	2350°	10	6.55	21 ½" x 21 ½"	24 ½"	475	113	31" x 39" x 35"	32"

### Home Artist Portable Kiln

<b>Home Artist</b>	No	2000°	03	.78	12" Round	12"	47	12	16" x 23" x 18 ¾"	
<b>Home Artist 240</b>	No	2000°	03	.78	12" Round	12"	47	12	16" x 23" x 18 ¾"	

### J Series Square Ceramic Fiber Kilns

<b>J-14-1</b>	No	1700°	09	.88	13"W x 9"H	13"	90	--	18" x 21 ½" x 20 ½"	
<b>TnF-J-14-1</b>	No	1700°	09	.88	13"W x 9"H	13"	90	--	18" x 21 ½" x 20 ½"	
<b>J-14-2</b>	No	1700°	09	.88	13"W x 9"H	13"	90	--	18" x 21 ½" x 20 ½"	
<b>TnF-J-14-2</b>	No	1700°	09	.88	13"W x 9"H	13"	90	--	18" x 21 ½" x 20 ½"	

### Janus Pottery/Glass Fusing Kilns

<b>Janus-1613</b>	No	2350°	10	1.75	16 ½" 8-sided	13 ¼"	171	28	25 ½" x 28 ¼" x 29"¶	26"
<b>Janus-23</b>	No	2350°	10	5.10	22 ½" 10-sided	20 ¼"	313	77	30 ½" x 43 ¾" x 41 ½"¶	33"
<b>Janus-24</b>	No	2350°	10	4.68	24"W x 15"H	22 ½"	365	45	40 ½" x 32" x 29 ½"	33"
<b>Janus-27</b>	No	2350°	10	8.11	28" 12-sided	22 ¼"	397	145	36 ¼" x 49 ¾" x 40"¶	12**

### QuikFire High Speed Muffle Kiln

<b>QuikFire 6</b>	Yes	2000°	03	.125	6" x 6"	6"	15	3	14 ¾" x 12 ½" x 12 ¼"	
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### SC Series Square Kilns

<b>SC-2</b>	Yes	2000°	03	.19	8"W x 5 ¾"H	7 ¾"	36	--	13 ¼" x 14" x 15 ½"	
<b>SC-3</b>	Yes	2000°	03	.28	7 ¾"W x 7 ¾"H	8"	41	--	13 ¼" x 14" x 17"	

### Vulcan Crucible Kiln

<b>Vulcan</b>	No	2350°	10	1.4	13 ½" 8-sided	18"	240	-	25 ½" x 28 ¼" x 34"¶	26"
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## Paragon Kiln Limited Warranty

Paragon kilns are warranted to the original purchaser by Paragon Industries, L.P. (herein Paragon), subject to the listed exclusions below, to be free of defects in workmanship for the periods specified below. The warranty period begins from date of shipment from the Paragon factory unless date of original purchase from an authorized Paragon distributor or dealer can be established.

### Warranty Periods

QuickFire kilns . . . . . 3 months

J-series, SC-series, HT-series, KM-Series, and Vulcan . . . . . 1 year  
(Vulcan elements are not warranted)

Kilns with a maximum temperature rating above 2300°F  
(except Dragons, Iguana and Vikings) . . . . . 1 year

TnF 2 controllers, GF, GL, and Fusion series kilns rated 2000°F or lower and all other kilns  
with a maximum temperature rated 2300°F or lower . . . . . 2 years

Controllers: Sentry (12 key): 2 ½ years; Sentry Xpress (3 key): the length of the new kiln's warranty or 1 year on replacement controllers for older kilns.

Dragon, Super Dragon, Iguana and Viking kilns: 2 years. S-Type thermocouple and APM elements fall within the 2 year warranty. Sentry controller: 2 ½ years. Standard elements: 6 months. Type-K thermocouple is not warranted on the Dragon, Iguana and Viking.

These warranty periods apply unless otherwise agreed to in writing.

This warranty excludes: **1)** Kilns or furnaces damaged by overfiring (exceeding the melting temperature of the material being fired) regardless of cause of overfiring; **2)** Ware, tools, kiln furniture, or anything inside damaged by overfire; **3)** Kilns allowed to exceed the maximum temperature shown on kiln's nameplate, regardless of cause; **4)** Kilns subjected to abuse, neglect, freight damage or improper storage; **5)** Kilns used for either reduction or salt firing, **6)** Kilns damaged by improper electrical installation; **7)** Kilns used for purposes other than firing ceramics, glass, heat treating, or the purpose for which it was intended; **8)** Element burnout caused by contact with foreign materials; **9)** The patented Dawson Kiln Sitter and/or Limit Timer manufactured by W.P. Dawson, Inc., 399 Thor Place, Brea, California 92621.

WARRANTY COVERAGE EXTENDS ONLY TO THE ORIGINAL PURCHASER AND DOES NOT COVER REPLACEMENT OF PARTS THAT ARE, BY THEIR NATURE, EXPENDABLE. THIS WARRANTY IS VOIDED IF THE PRODUCT IS ADVERSELY AFFECTED BY ATTACHING ANY FEATURE OR DEVICE TO IT, OR IS IN ANY WAY TAMPERED WITH OR MODIFIED WITHOUT EXPRESS WRITTEN PERMISSION FROM PARAGON INDUSTRIES, L.P.

Paragon Industries, L.P., will repair or replace any parts that become defective under normal and proper use during the specified period for the kiln purchased, providing the kiln has not been subjected to misuse or the listed exclusions. Paragon will furnish and install replacement parts at the factory with transportation costs to and from the factory paid by the owner; or upon receipt of defective parts at the factory, and after factory examination of the defect, Paragon will furnish replacement parts, complete with installation instructions, shipped postpaid to owner. The warranty on the repaired and/or replaced parts will be limited to the unexpired term of the original warranty.

Any claim for adjustment under this warranty must include name and address of dealer from whom kiln was originally purchased. Repair or replacement of any defective parts shall fulfill all obligations of Paragon. No other obligations or liabilities are assumed in connection with Paragon kilns nor does Paragon Industries, L.P. authorize its distributors or dealers to assume any other obligations or liabilities on its behalf.

THERE ARE NO OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL PARAGON INDUSTRIES, L.P. BE LIABLE FOR ANY LOSS OF PROFITS OR ANY INDIRECT OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY SUCH DEFECT IN MATERIAL OR WORKMANSHIP. NOTE: SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

This agreement is made in the State of Texas and its validity, construction, and all rights under it will be governed by the laws of the State of Texas. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Electrical Power			Circuit Size		NEMA Config.
Volts	Amps	Watts	Copper Wire	Fuse Size	
240	13	3,120	12	20	6-20R
240	13	3,120	12	20	6-20R
120	12	1,440	14	15	5-15R
120	12	1,440	14	15	5-15R
120	8	960	14	15	5-15R
120	14	1,680	12	20	5-15R
120	20	2,400	12	20	5-20R
240	20	4,800	12	20	6-20R
120	15	1,800	12	20	5-15R
120	15	1,800	12	20	5-15R
240	20	4,800	12	20	6-20R
240	30	7,200	10	40	6-30R
240	20	4,800	12	20	6-20R
240	20	4,800	12	20	6-20R
240	38	9,000	6	50	6-50R
240	48	11,500	6	50	6-50R
240	69	16,500	4	75	Direct
240	30	7,200	10	40	6-30R
240	17	4,000	12	20	6-20R
240	30	7,200	10	40	6-30R
240	48	11,500	6	50	6-50R
240	20	4,800	12	20	6-20R
240	20	4,800	12	20	6-20R
240	45	10,800	6	50	6-50R
240	45	10,800	6	50	6-50R
240	30	7,200	6	50	6-50R
240	45	10,800	6	60	6-50R
120	15	1,800	12	20	5-15R
240	9.2	2,200	12	20	6-20R
120	20	2,400	12	20	5-20R
120	20	2,400	12	20	5-20R
240	10	2,400	12	20	6-20R
240	10	2,400	12	20	6-20R
240	20	4,800	12	20	6-20R
240	40	9,600	6	60	6-50R
240	45	10,800	6	60	6-50R
240	48	11,520	6	60	6-50R
120	13	1,560	12	20	5-15R
120	12	1,440	14	15	5-15R
120	15	1,800	12	20	5-15R
240	17	4080	10	30	6-30R

# Paragon Kilns

**Kiln Depth:** Top loading kilns measure top to bottom. **Electrical:** Before placing your order, confirm voltage and phase. Call power company or ask your electrician.

Kiln Model	Kiln Price	Volts	Recom. Furniture Kit Price	Orton Vent Master®	Switchbox AOP Outlet	Certified to CSA & UL Std 499	Max. Temp °F	Cone	Firing Chamber Opening	Chamber Depth	Cubic Feet	Ships by Truck or UPS?	Approx. Weight Kiln	Shpg. Weight Furn.
<b>Cone 10 Viking, Iguana &amp; Dragon Kilns</b>														
<b>Viking-28</b>	\$3510.00	240v	\$550.00	\$415.00	\$95.00	Yes	2350°	10	28"	29"	10.57	Truck	430	172
<b>Viking-24</b>	2950.00	240v	335.00	415.00	95.00	Yes	2350°	10	22 ½"	29"	7.10	Truck	342	95
<b>Dragon</b>	5190.00	240v	510.00	500.00*	95.00	Yes	2350°	10	24"W x 27"H	24"	9	Truck	885	128
<b>Super Dragon</b>	8950.00	240v	510.00	500.00*	95.00	No	2350°	10	27"W x 36"H	27"	15.18	Truck	1500	128
<b>Iguana</b>	2780.00	240v	195.00	500.00*	95.00	No	2350°	10	18"W x 22 ½"H	18"	4.2	Truck	483	50

- » 200, 208, 220 volts, single or 3 phase: same price as 240 volt.
- » 3 phase 480 volts: add \$225. 50 Hertz: no extra charge.

**Stands: Iguana and Dragon prices do not include the stand. Please add \$320 for the 22" tall Iguana stand. See page 1 for prices of Dragon stands. Super Dragon price includes stand.**

## 12-Sided Kilns

<b>TnF-27-3</b>	2460.00	240v	410.00	415.00	95.00	Yes	2350°	10	28"	22 ¼"	8.11	Truck	397	145
<b>SnF-28-3</b>	2590.00	240v	550.00	415.00	N/A	Yes	2150°	4	28"	29"	10.57	Truck	415	172
<b>TnF-28-3</b>	2815.00	240v	550.00	415.00	95.00	Yes	2150°	4	28"	29"	10.57	Truck	430	172

- » 200, 208, 220 volts: same price as 240.
- » 3 phase 208, 220, 240: add \$50.00. 3 phase 480 volts: add \$225. 50 Hertz: no extra charge.

## 10-Sided Kilns

<b>S-24</b>	2025.00	240v	335.00	415.00	N/A	Yes	2300°	8	23 ½"	29"	7.52	Truck	307	105
<b>SnF-24</b>	2160.00	240v	335.00	415.00	N/A	Yes	2300°	8	23 ½"	29"	7.52	Truck	307	105
<b>TnF-24</b>	2370.00	240v	335.00	415.00	95.00	Yes	2300°	8	23 ½"	29"	7.52	Truck	331	105
<b>S-24-3</b>	2110.00	240v	335.00	415.00	N/A	Yes	2350°	10	22 ½"	29"	7.10	Truck	335	95
<b>SnF-24-3</b>	2195.00	240v	335.00	415.00	N/A	Yes	2350°	10	22 ½"	29"	7.10	Truck	335	95
<b>TnF-24-3</b>	2445.00	240v	335.00	415.00	95.00	Yes	2350°	10	22 ½"	29"	7.10	Truck	342	95
<b>S-99</b>	2090.00	240v	335.00	415.00	N/A	Yes	2300°	8	23 ½"	27"	7.00	Truck	300	120
<b>S-23-3</b>	1875.00	240v	265.00	415.00	N/A	Yes	2350°	10	22 ½"	22 ¼"	5.10	Truck	300	77
<b>SnF-23-3</b>	1975.00	240v	265.00	415.00	N/A	Yes	2350°	10	22 ½"	22 ¼"	5.10	Truck	300	77
<b>TnF-23-3</b>	2050.00	240v	265.00	415.00	95.00	Yes	2350°	10	22 ½"	22 ¼"	5.10	Truck	313	77

- » 200, 208, 220 volts: same price as 240.
- » 3 phase 208, 220, 240: add \$50.00. 3 phase 480 volts: add \$225. 50 Hertz: no extra charge.

## 8-Sided Kilns

<b>S-82</b>	1215.00	240v	150.00	415.00	N/A	Yes	2300°	8	17 ½"	22 ¼"	3.3	Truck	186	45
<b>SnF-82</b>	1245.00	240v	150.00	415.00	N/A	Yes	2300°	8	17 ½"	22 ¼"	3.3	Truck	186	45
<b>TnF-82</b>	1470.00	240v	150.00	415.00	95.00	Yes	2300°	8	17 ½"	22 ¼"	3.3	Truck	213	45
<b>S-82-3</b>	1265.00	240v	150.00	415.00	N/A	Yes	2350°	10	16 ½"	22 ¼"	2.95	Truck	200	38
<b>SnF-82-3</b>	1290.00	240v	150.00	415.00	N/A	Yes	2350°	10	16 ½"	22 ¼"	2.95	Truck	200	38
<b>TnF-82-3</b>	1545.00	240v	150.00	415.00	95.00	Yes	2350°	10	16 ½"	22 ¼"	2.95	Truck	228	38
<b>S-1613-3</b>	1020.00	240v	93.00	415.00	N/A	Yes	2350°	10	16 ½"	13 ¼"	1.75	Truck	145	28
<b>TnF-1613-3</b>	1250.00	240v	93.00	415.00	95.00	Yes	2350°	10	16 ½"	13 ¼"	1.75	Truck	171	28

- » 200, 208, 220 volts: same price as 240.
- » 3 phase 208, 220, 240: add \$50.00. 3 phase 480 volts: add \$225. 50 Hertz: no extra charge.

## 6- & 7-Sided Kilns

<b>SnF-66</b>	940.00	240v	83.00	415.00	N/A	Yes	2150°	4	14 ½"	13 ¼"	1.40	Truck	136	23
<b>TnF-66</b>	1105.00	240v	83.00	415.00	N/A	Yes	2150°	4	14 ½"	13 ¼"	1.40	Truck	136	23
<b>S-66-3</b>	940.00	240v	83.00	415.00	N/A	Yes	2200°	6	13 ½"	13 ¼"	1.22	Truck	147	20
<b>TnF-66-3</b>	1170.00	240v	83.00	415.00	N/A	Yes	2200°	6	13 ½"	13 ¼"	1.22	Truck	147	20
<b>S-11-9-3</b>	730.00	120v	48.00	415.00	N/A	Yes	2300°	8	11"	9"	.56	UPS	111	10
<b>Xpress-1193</b>	835.00	120v	48.00	415.00	N/A	No	2300°	8	11"	9"	.56	UPS	111	10
<b>X-14J</b>	475.00	120v	49.00	415.00	N/A	No	1700°	09	14 ½"	6 ½"	.69	UPS	102	15

- » 200, 208, 220 volts: same price as 240. 50 Hertz: no extra charge.

\*When ordered, the Vent Master® comes installed on these models.

2 8 / Parts orders: Please include the P/N, SN, Model #, and voltage from the kiln data plate.

**Kiln Depth:** Top loading kilns measure top to bottom. Front loading kilns measure front to rear. **Electrical:** Before placing your order, confirm voltage and phase. Call power company or electrician.

Kiln Model	Kiln Price	Volts	Recom. Furniture Kit Price	Orton Vent Master®	Switchbox AOP Outlet	Certified to CSA & UL Std 499	Max. Temp °F	Cone	Firing Chamber Opening	Depth	Cubic Feet	Ships by Truck or UPS?	Approx. Shpg. Weight Kiln	Furn.
<b>Caldera &amp; FireFly Multi-Purpose Kiln</b>														
<b>Caldera</b>	695.00	120v	27.00	N/A	N/A	Yes	2350°	10	8" x 8"	6 ¾"	.25	UPS	46	5
<b>Caldera-S</b>	430.00	120v	27.00	N/A	N/A	Yes	2350°	10	8" x 8"	6 ¾"	.25	UPS	46	5
<b>Caldera-X</b>	105.00	Blank Collar		N/A	N/A	Yes	2000°	03	8" x 8"	4 ½"	.16	UPS	14	--
<b>Caldera-BC</b>	130.00	Bead Collar		N/A	N/A	Yes	2000°	03	8" x 8"	4 ½"	.16	UPS	14	--
<b>FireFly</b>	420.00	120v	27.00	N/A	N/A	No	2350°	10	8" x 8"	4 ½"	.16	UPS	45	5

» Optional 2" x 2" Caldera/FireFly glass window: add \$40.00.

### E & Q Series Square Front-Loading Kilns

<b>E-9AX</b>	535.00	120v	N/A	N/A	N/A	Yes	2000°	03	8 ½"W x 4 ½"H	9"	.20	UPS	48	--
<b>Xpress-E-9A</b>	755.00	120v	N/A	N/A	N/A	Yes	2000°	03	8 ½"W x 4 ½"H	9"	.20	UPS	48	--
<b>E-10A</b>	760.00	120v	N/A	N/A	N/A	Yes	2250°	6	8 ½"W x 8 ¾"H	9"	.39	UPS	90	--
<b>Xpress-E-10A</b>	980.00	120v	N/A	N/A	N/A	No	2250°	6	8 ½"W x 8 ¾"H	9"	.39	UPS	80	--
<b>E-14A</b>	925.00	240v*	N/A	N/A	N/A	Yes	2000°	03	13"W x 8 ¾"H	13 ½"	.88	Truck	121	--
<b>Xpress-E-14A</b>	1220.00	240v*	N/A	N/A	N/A	No	2000°	03	13"W x 8 ¾"H	13 ½"	.88	Truck	115	--
<b>Q-11-A</b>	480.00	120v	18.50	N/A	N/A	Yes	2350°	8	6"W x 6 ¼"H	6"	.14	UPS	37	2
<b>Xpress-Q-11A</b>	700.00	120v	18.50	N/A	N/A	No	2350°	8	6"W x 6 ¼"H	6"	.14	UPS	35	2

» \*200, 208, 220 volts: same price as 240. 50 Hertz: no extra charge.

» E & Q series glass window: add \$60.00. Bead door on the E-10s and E-14s: add \$50.00

» For E & Q-series with the 12-key Sentry controller, add \$200 to the Xpress-E & Q series prices.

### BlueBird Bead Annealing Kilns

<b>BlueBird</b>	735.00	120v	N/A	N/A	N/A	No	1200°		20"W x 5"H	5"	.28	UPS	40	--
<b>BlueBird XL</b>	915.00	120v	N/A	N/A	N/A	No	1700°		20"W x 4 ½"H	9"	.47	UPS	80	--

### F-Series Lamp Working Kilns

<b>F-120</b>	1260.00	120v	40.00	N/A	N/A	Yes	1700°		10¾"W x 7"H	11"	.47	Truck	125	12
<b>F-130 Elite</b>	1350.00	120v	40.00	N/A	N/A	Yes	1700°		11"W x 13"H	11"	.9	Truck	162	12
<b>F-240</b>	2150.00	240v	60.00	N/A	N/A	Yes	1700°		18"W x 13"H	18"	2.4	Truck	288	13

» Sidewall elements for the F-240: please add \$200.

### Fusion, GL, Ovation & Pearl Kilns with TOP Elements

<b>Fusion-6</b>	750.00	120v	31.00	415.00	N/A	Yes	1700°		11" 6-sided	6 ½"	.42	UPS	99	10
<b>Fusion-7</b>	775.00	120v	36.00	415.00	N/A	Yes	1700°		14 ½" 7-sided	6 ½"	.69	UPS	115	12
<b>Fusion-8</b>	1040.00	240v*	46.00	415.00	N/A	Yes	1700°		17 ½" 8-sided	11"	1.59	Truck	158	15
<b>Fusion-10</b>	1390.00	240v*	66.00	415.00	N/A	Yes	1700°		23 ½" 10-sided	11"	2.86	Truck	205	30
<b>GL-18AD</b>	1860.00	240v*	115.00	415.00	N/A	No	1700°		18"W x 13"H	18"	2.4	Truck	310	15
<b>GL-22AD</b>	1995.00	240v*	115.00	415.00	N/A	Yes	1700°		22"W x 13 ¼"H	21 ½"	3.62	Truck	310	31
<b>GL-24AD</b>	2495.00	240v*	160.00	415.00	N/A	Yes	1700°		24"W x 15"H	22 ½"	4.68	Truck	365	43
<b>GL-44AD</b>	6590.00	240v*†	220.00	500.00**	N/A	No	1700°		22"W x 44"long	16"	8.96	Truck	850	54
<b>GL-64AD</b>	6995.00	240v*†	305.00	500.00**	N/A	No	1700°		22"W x 64"long	16"	13	Truck	1050	76
<b>Ovation-10</b>	2420.00	240v*†	165.00	415.00	N/A	No	1700°		22 ½"W x 41 ½" long	11"	5.2	Truck	402	45
<b>Pearl-18</b>	1760.00	240v*	115.00	N/A	N/A	No	1700°		18" x 18"	8 ½"	1.59	Truck	230	20
<b>Pearl-22</b>	2440.00	240v*	115.00	N/A	N/A	No	1700°		22"W x 22" long	13"	3.64	Truck	321	28
<b>Pearl-44</b>	5760.00	240v*	220.00	500.00**	N/A	No	1700°		22"W x 44" long	13"	7.28	Truck	875	54

» \*200, 208, 220 volts: same price as 240. †3 phase 208, 220, 240: add \$50.00. 3-phase 480 volts: add \$225. 50 Hertz: no extra charge.

» Fusion-6, -7, -8, -10, Pearl-18, Pearl-22, GL-18, GL-22 ceramic fiber top with replaceable elements: add \$250.

» GL-24AD: add \$450.00 for ceramic fiber top with embedded elements; add \$250 for ceramic fiber top with replaceable elements.

» Fusion-6, -7, -8, -10 glass window: Add \$60.00. Ovation-10 glass windows (2): add \$120.00.

» Fusion-6, -7, -8, -10, Pearl-18, Pearl-22, GL-18, GL-22 mercury relay: add \$105.00.

» GL-24, GL-44AD, GL-64AD, Pearl-44 mercury relay: add \$230.00.

» Sentry 12-key controller upgrade on Fusion-8 & -10: add \$200.00.

» LiteLid on Fusion-10: add \$180.00.

**Kiln Depth:** Top loading kilns measure top to bottom. Front loading kilns measure front to rear. **Electrical:** Before placing your order, confirm voltage and phase. Call power company or electrician.

Kiln Model	Kiln Price	Volts	Recom. Furniture Kit Price	Orton Vent Master®	Switchbox AOP Outlet	Certified to CSA & UL Std 499	Max. Temp °F	Cone	Firing Chamber Opening	Depth	Cubic Feet	Ships By Truck or UPS?	Approx. Shpg. Weight Kiln	Furn.
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### GL Series TOP, SIDE & DOOR Elements

— Kilns listed in this section include a door cutoff switch. (GL-44ADTS & GL-64ADTS contain top & side elements.)

<b>GL-18ADTSD</b>	2160.00	240v	115.00	415.00	N/A	No	1700°		18"W x 13"H	18"	2.4	Truck	310	15
<b>GL-22ADTSD</b>	2435.00	240v	115.00	415.00	N/A	Yes	1700°		21"W x 13 1/4"H	21"	3.38	Truck	310	31
<b>GL-24ADTSD</b>	2935.00	240v	160.00	415.00	N/A	Yes	1700°		24"W x 15"H	22 1/2"	4.68	Truck	365	43
<b>GL-44ADTS</b>	7190.00	240v†	220.00	500.00**	N/A	No	1700°		22"W x 44"long	16"	8.96	Truck	850	54
<b>GL-64ADTS</b>	7695.00	240v†	305.00	500.00**	N/A	No	1700°		22"W x 64"long	16"	13	Truck	1050	76

- » 200, 208, 220 volts: same price as 240. †3 phase 208, 220, 240: add \$50.00. 3 phase 480 volts: add \$225. 50 Hertz: no extra charge.
- » GL-24ATSD & GL-24ADTSD: add \$450.00 for ceramic fiber top with embedded elements; add \$250 for ceramic fiber top with replaceable elements.
- » Mercury relay: call for pricing.

### H & K Series Square Kilns

— These models are painted blue. Stainless is \$150 more; optional casters are \$140.00 more.

<b>TnF-H-17A</b>	2340.00	240v	195.00	500.00**	95.00	Yes	2350°	10	17" x 17"	20"	3.34	Truck	365	45
<b>TnF-K-6A</b>	2990.00	240v	370.00	500.00**	95.00	Yes	2350°	10	21 1/2" x 21 1/2"	24 1/2"	6.55	Truck	475	113

- » 200, 208, 220 volts: same price as 240. 50 Hertz: no extra charge. 3 phase 208, 220, 240: add \$50.00. 3 phase 480 volts: add \$225.

### Home Artist Kiln

— Home Artist furniture kit, when ordered with kiln, is \$50. When ordered separately, \$72.00. Order together and save \$20.00.

<b>Home Artist</b>	905.00	120v	72.00	N/A	N/A	No	2000°	04	12" Round	12"	.78	UPS	47	12
<b>Home Artist 240</b>	955.00	240v	72.00	N/A	N/A	No	2000°	04	12" Round	12"	.78	UPS	47	12

### J Series Square Ceramic Fiber Kilns

<b>J-14-1</b>	1100.00	120v	50.00	415.00	N/A	No	1700°	09	13"W x 9"H	13"	.88	Truck	90	13
<b>TnF-J-14-1</b>	1700.00	120v	50.00	415.00	N/A	No	1700°	09	13"W x 9"H	13"	.88	Truck	90	13
<b>J-14-2</b>	1100.00	240v*	50.00	415.00	N/A	No	1700°	09	13"W x 9"H	13"	.88	Truck	90	13
<b>TnF-J-14-2</b>	1700.00	240v*	50.00	415.00	N/A	No	1700°	09	13"W x 9"H	13"	.88	Truck	90	13

- » \*200, 208, 220 volts: same price as 240. 50 Hertz: no extra charge.

### Janus Pottery/Glass Fusing Kilns

<b>Janus-1613</b>	1495.00	240v	93.00	415.00	95.00	No	2350°	10	16 1/2", 8-sided	13 1/4"	1.75	Truck	171	28
<b>Janus-23</b>	2440.00	240v	265.00	415.00	95.00	No	2350°	10	22 1/2", 10-sided	20 1/4"	5.10	Truck	313	77
<b>Janus-24</b>	3190.00	240v	275.00	415.00	95.00	No	2350°	10	24"W x 15"H	22 1/2"	4.68	Truck	365	45
<b>Janus-27</b>	2660.00	240v	410.00	415.00	95.00	No	2350°	10	28", 12-sided	22 1/4"	8.11	Truck	397	145

- » Mercury relay: call for pricing.

### QuikFire High Speed Muffle Kiln

— Furniture packed with a QuikFire kiln is \$20. Order together and save \$6.00.

— PCB-1 120 volt Power Control Box for QuikFire: \$73.00.

<b>QuikFire 6</b>	335.00	120v	26.00	N/A	N/A	No	2000°	03	6"W x 6"H	6"	.125	UPS	15	3
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### SC Series Square Kilns

<b>SC-2</b>	685.00	120v	15.00	N/A	N/A	Yes	2000°	03	8"W x 5 3/4"H	7 3/4"	.19	UPS	36	--
<b>SC-2/ Bead Dr.</b>	715.00	120v	15.00	N/A	N/A	Yes	2000°	03	8"W x 5 3/4"H	7 3/4"	.19	UPS	36	--
<b>SC-2/ Window</b>	735.00	120v	15.00	N/A	N/A	Yes	2000°	03	8"W x 5 3/4"H	7 3/4"	.19	UPS	36	--
<b>SC-2/ Dr &amp; Win</b>	750.00	120v	15.00	N/A	N/A	Yes	2000°	03	8"W x 5 3/4"H	7 3/4"	.19	UPS	36	--
<b>SC-3</b>	775.00	120v	15.00	N/A	N/A	Yes	2000°	03	7 3/4"W x 7 3/4"H	8"	.28	UPS	41	--
<b>SC-3/ Bead Dr.</b>	805.00	120v	15.00	N/A	N/A	Yes	2000°	03	7 3/4"W x 7 3/4"H	8"	.28	UPS	41	--
<b>SC-3/ Window</b>	825.00	120v	15.00	N/A	N/A	Yes	2000°	03	7 3/4"W x 7 3/4"H	8"	.28	UPS	41	--
<b>SC-3/ Dr &amp; Win</b>	840.00	120v	15.00	N/A	N/A	Yes	2000°	03	7 3/4"W x 7 3/4"H	8"	.28	UPS	41	--

- » A ceramic fiber shelf comes with all SC-2 and SC-3 kilns. The furniture kit, which is necessary for glass fusing, includes 1 - 7" x 7" hard ceramic shelf and 4 - 1" wide x 1/2" posts. Add \$15.00.

### Vulcan Crucible Kiln

<b>Vulcan</b>	2220.00	240v	N/A	415.00	95.00	No	2350°	10	13 1/2" 8-sided	18"	1.4	Truck	240	--
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\*\*When ordered, the Vent Master® comes installed on these models.

3 0 / Parts orders: Please include the P/N, SN, Model #, and voltage from the kiln data plate.