

Paragon Introduces the Viking Cone 10 Studio Kilns

**Dealers & Distributors: call for
information on our Viking
sales incentives!**



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

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



Viking-24 & -28 UL
Listed to U.S. and
Canadian safety
standards.

Paragon's new Viking series kilns are for studios that demand ample power for cone 10 firing. Never again will you worry about your kiln reaching cone 10.

Even if your specialty is low-fire, the Viking kilns are ideal, because their elements last longer. A low-maintenance Viking kiln is a tool that will make you money for years to come. Viking kilns may cost a little more, but in the long run they are less expensive to maintain.

2400°F, 3" Thick Firebrick

Viking kilns feature Paragon's exclusive 3" thick, 2400°F insulating firebrick throughout. Before buying a competitive model, ask if it

has 2400° brick. Chances are the competitive model has only 2300° brick. These 3" premium firebrick are 1/2" thicker than standard brick.

14,400 Watts

The 12-sided Viking-28 and 10-sided Viking-24 are the same sizes as our standard TnF-28-3 and TnF-24-3. Yet they fire with 33% more power than standard models: 14,400 watts! The extra power helps compensate for aging elements and voltage drop.

As elements wear, they gradually draw less power, reducing the kiln's maximum operating temperature. The Viking kilns, however, have

so much power that even as elements age, the kilns will still fire to cone 10.

Heating elements begin to wear when they strain to reach high temperature. The heavy duty Viking elements fire to stoneware and porcelain without strain, thus outlasting elements of a standard kiln. They also have enough power for rapid firing when desired.

The Vikings fire on a 240 volt, 70 amp circuit. Upgrading to a 70 amp circuit from a typical 60 amp studio circuit requires only a breaker change. (Consult your electrician. Local codes may vary.)

Viking kilns are easily interchangeable between 1 and 3 phase power. Your electrician can select phase in minutes at the time of installation. A built-in panel of six fuses offers an extra measure of safety. Paragon's Viking kilns are UL/CUL Listed to U.S. and Canadian safety standards and National Electric Code approved.

The Paragon LiteLid

Paragon's patented spring counter-balance lid does away with cumbersome pulleys and cords. It reduces lid weight to several pounds of pressure. Called the LiteLid, it is self-contained on the kiln. You no longer need to drill holes in your ceiling for hooks and pulleys. The LiteLid is out of the way at the lid hinge behind the kiln.

The LiteLid holds the lid open wide to almost 90° for easy access. It does away with lid chains, locking latches and other supports. You can load the kiln without worrying about leaning into a lid support chain. The LiteLid and massive, 21" deep hinge take pressure off the kiln walls, extending the life of the lid and firing chamber. The LiteLid allows the lid to float freely. This compensates for heat expansion and helps maintain a good heat seal.

The Paragon DTC 1000 Electronic Controller

Paragon was one of the first manufacturers to popularize the electronic kiln. In 1988 we introduced the DTC 100 controller. Since then our controllers have evolved through three generations. The hard-won lessons from as far back as the DTC 100 are built into our current DTC 1000 controllers. When you buy a Paragon kiln, you are buying over a decade of experience.

Electronic Components

The heart of the digital kiln is the DTC 1000 control board, small enough to fit in the palm of the hand. Replacing or upgrading one takes only minutes. Simply remove four screws and disconnect color-coded wires.

Over the years, electronics have improved in reliability and accuracy. The DTC 1000, naturally, is the most reliable controller we have ever offered.

The thermocouple (temperature sensor) is hermetically sealed in a 1/8" diameter metal sheath for long life. According to our tests, thermocouple temperature drift is only a few degrees after firing 1,000 hours at 2300°F. The thermocouple is so sensitive that at around

80°F, it shows temperature rise when you hold the tip in your hand.

The DTC 1000 operates in two modes: Cone-Fire and Ramp-Hold.

Cone-Fire

Cone-Fire fires to Orton pyrometric cones. Simply enter cone number and firing speed (fast, medium or slow), and your kiln is ready to fire. If you can make popcorn in a microwave oven, you can fire the DTC 1000. With Cone-Fire, you can concentrate on making ware and letting the kiln do your thinking for you.

Hold Time

To soak the ware at the end of a Cone-Fire, add Hold time. This produces higher gloss and richer, deeper colors in some glazes. Hold is a powerful feature to enhance ceramics, and very simple to use.

Pre-Heat

New in Cone-Fire is Pre-Heat. School teachers who maintain a tight firing schedule will love this feature. So will ceramists living in humid areas where drying is inhibited. Pre-Heat maintains a temperature of 200°F for the period you specify. This allows moisture in the clay to evaporate safely below the boiling point of water. This prevents ware from breaking due to rapid expansion of water vapor. Note: your kiln must be well-vented during Pre-Heat.

Cone Offset and Thermocouple Offset

Also new in Cone-Fire is Cone Offset. It matches the controller to the pyrometric cone on the kiln shelf. If you fire to cone 05 and the 05 shelf cone does not bend to maturity, adjust the controller to fire a little hotter. Each cone can be adjusted independently 50 degrees hotter or cooler than the factory setting. Adjusting one cone has no effect on the other cones. Adjustment takes just a moment in Cone Offset. In addition,

adjust all the cones, together, using Thermocouple Offset. It, too, can change kiln temperature 50 degrees hotter or cooler than the factory setting.

Cone Table

Cone Table stores cone temperatures for easy reference. The cone temperature of an actual firing will vary, however, depending on firing rate. The DTC 1000 uses technology patented by the Edward Orton, Jr. Ceramic Foundation to match the firing profile for each pyrometric cone.

Ramp-Hold

Ramp-Hold fires in up to eight segments, each with a target temperature, rate, and hold (or soak). Change the firing rate eight times in a single firing. New to the DTC 1000 is 16-segment firing, for complex projects.

Segments can control both heating and cooling. For deeper colors, especially iron reds, experiment with slow cooling. It takes very little extra power to control cooling for dramatic results.

The DTC 1000 Ramp-Hold simplifies even crystalline glaze firings. With accurate repeatability, you can alter firings precisely and observe the effect after each firing. The DTC 1000 is a learning tool that will excite you for many years.

Store up to six programs in memory—even with the kiln unplugged. Temperature displays throughout firing and cooling in your choice of degrees F or C. Use the audible temperature alarm to remind yourself to close a vented lid or to check the kiln near firing completion. Error messages report mechanical problems such as a disconnected thermocouple, stuck relay or broken element.

Delay Fire

Delay Fire starts the firing to suit your schedule or to take advantage of lower electric rates at night. The display shows time left before firing begins. You do not have to be present throughout the firing. It is important, however, that you are near the kiln before the expected shut-off time.

Power Failures

The DTC 1000 responds intelligently to power failures. It resumes firing or shuts down after power returns, depending on the type of firing, when the power failed, and the duration of the power failure.

Multiple Zone Firing

The DTC 1000 is a multiple zone board. It can be factory-configured for one, two or three zone firing. Standard Viking kilns are single zone; multiple zone is optional.

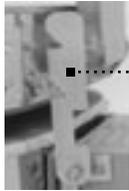
Each zone in a multiple zone kiln uses a separate thermocouple. Heating elements for each zone fire independently, maintaining even temperature between zones.

Multiple Zone Features

- The DTC 1000 can display the temperature of each zone separately.
- The display shows when each zone cycles on and off. Zones are represented by lighted display dots.
- You can adjust the allowable temperature difference between zones.
- For a faster firing, adjust the controller to turn on multiple-zone firing only during the last segment of firing.



Quality Features of Viking Kilns



Fall-away Prop-R-Vent vents in two stages.

Cone 10 firebrick 2400°F, 3" thick firebrick in lid, walls and bottom.

Dust-free coating The peepholes, both sides of the lid and top rim of firebrick are hardened and sealed with a special refractory coating. Helps protect the ware from dust.

Spring-balance lids on 10 & 12-sided kilns Paragon's patented "LiteLid" does away with cumbersome pulleys and cords and reduces lid weight to several pounds of pressure. Most people can lift even the massive 12-sided, 3" thick lid with one hand. Unlike pulleys and weights, the LiteLid is self-contained on the kiln. No need to drill holes in the ceiling for pulleys. The LiteLid sharply reduces wear between the lid and top rim of firebrick.



UL/CUL Listing Paragon kilns with the prestigious UL Listing have been rigorously tested to U.S. and Canadian safety standards.

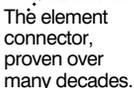
Large, tapered peepholes offer a wide view of the firing chamber with little heat loss.

Tapered peephole plug

Ventilated switch box is generously louvered for air circulation around kiln wiring. Yet dust is kept to a minimum.

Hand lifts

Long-life electrical system You'll enjoy confidence in your Paragon. It's designed to give you years of pleasure with very little maintenance. Costly nickel-plated copper wire inside the switch box is covered with high temperature glass-braided insulation. Wires are fastened to the elements with heat-dissipating connectors refined and proven over many years in Paragon kilns. A stainless steel heat shield inside the box protects wiring from the hot case.



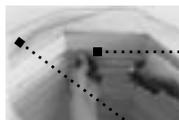
Electronic Controller Fuse

Reversible brick bottom When the bottom becomes uneven, turn it over for extra wear.

Full firing capacity Fire your ware directly on the brick bottom of your Paragon kiln. No need for an extra shelf as a false bottom.

Optional Orton Kiln Vent fits between the stand and kiln bottom. No special stand needed.

No extra charge for crating Inquire about the crating cost of a competitive kiln when figuring prices. Most Paragon round and square kilns are packed in wooden crates at no extra charge.



Dropped, recessed brick grooves were introduced to the industry by Paragon.

Heavy duty elements are coiled from the finest high temperature wire available.

National Electric Code approved

14,400 Watts The Viking-24 & -28, 240 volt kilns fire on a 70 amp circuit.

Increased Support for Kiln Bottom The Viking-24 stand is 3" wide across the top of each side. The Viking-28 stand is 4 1/2" wide across the top of each side.

Operating instructions silk-screened on the switch box.

One piece construction eliminates the extra electrical connections of a multi-section kiln.

The heavy gauge stainless steel case is cold-rolled to the shape of the kiln for a tight fit.

Simple Maintenance The electronic board can be removed in minutes for upgrade or repair.

Fuse Panel Six fuses protect your kiln and circuit wiring.

Direct Wired Viking-24 and -28 kilns are wired directly to a 240 volt, 70 amp circuit by an electrician.

Interchangeable between 1 & 3 Phase A standard Viking kiln can be easily configured for 1 or 3 phase wiring from within the terminal box. This reduces the number of kilns a dealer has to stock.

Full-formed steel base A heavy galvanized steel base covers the reversible brick bottom completely. It folds up under the stainless case on all sides to strengthen the firing chamber.

Heavy duty kiln stand comes with your kiln at no extra charge, complete with mar-proof plastic feet. Shipped unassembled. 9" tall to accommodate the optional Orton KilnVent. 16 gauge frames, 12 gauge legs for extra strength.

Replacement parts and service available for many years on new Paragon kilns.

Paragon Kiln Limited Warranty

Paragon kilns are warranted to the original purchaser by Paragon Industries, Inc. (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 Period

Kilns with a maximum temperature rating above 2300°F: one year. This warranty period applies 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 burn-out 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, INC.

Paragon Industries, Inc., 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, Inc. 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, INC. 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.

Prices & Specifications

	Viking-28	Viking-24
Kiln, Single Zone	\$2695.00	\$2295.00
Kiln, Three Zone	2895.00	2495.00
Furniture Kit	418.00	245.00
Orton KilnVent	315.00	315.00
Max. Temp.	2350°F	2350°F
Firing Chamber:		
No. Of sides:	12	10
Opening	28"	22 1/2"
Depth	29"	29"
Cubic Feet	10.57	7.10
Approx. Shpg. Wt.		
Kiln	415	335
Furniture Kit	165	95
Outside Dimensions		
Width	36 1/4"	30 1/2"
Depth	45 1/2"	39 1/2"
Height	48"	48"
Doorway Clearance Needed	37"	33"
Electrical Power		
Volts	240	240
Amps	60	60
Watts	14400	14400
Circuit Size		
Copper Wire	6 gauge	6 gauge
Fuse Size	70 amp	70 amp
Receptacle:	Direct Wire	Direct Wire

Prices and specifications subject to change without notice.

 **Paragon Industries, Inc.**

2011 South Town East Blvd.
Mesquite, Texas 75149-1122
800-876-4328 / 972-288-7557
Toll Free Fax: 888-222-6450
Paragonind@worldnet.att.net
www.paragonweb.com

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