KILN INFORMATION

The Quality Difference

When we built our first kiln in 1931 we started a commitment to quality that has withstood the test of time. In 1934 AMACO® ceramic engineers designed and manufactured the first electric kilns for school and studio use. These kilns rolled off the assembly line years before our competitors were even in business.

Throughout the years, AMACO® electric kilns have become well known for their dependable service, ease of firing, safety and economy. They're so well constructed that many AMACO® kilns have been known to stay on the job for 20-30 years.

AMACO® ceramic engineers also understand the needs of educators. To meet classroom requirements, all AMACO® kilns are compactly built, well insulated for minimum heat radiation and completely safe.

Replacement Parts

When purchasing a kiln, it is important to know that the manufacturer is a reliable one and in a position to supply replacement parts for that kiln indefinitely. Supplied with each kiln are (1) An Installation-Operation-Maintenance Manual, (2) Wiring Diagram and (3) Parts List. All three are available for any AMACO® kiln, no matter how old the model. At AMACO®, we maintain a permanent record of every kiln manufactured since 1934. Each kiln carries a metal name plate stating the model number, serial number, voltage and phase—information necessary to insure accurate and prompt filling of orders for replacement elements and parts.

Free Help

For your convenience, AMACO® has a toll-free number (800-374-1600) to help answer questions about products, trouble shoot any problems and even to help you plan your ceramic program. AMACO® ceramic engineers are experienced professionals in both ceramics and engineering and are glad to help with any problem.

UL and CSA Listed

All AMACO® and EXCEL® kilns are listed with Underwriters Laboratories, Inc. (UL) and the Canadian Standards Association (CSA) and meet their rigid standards of safety with regard to casualty and fire hazards. The new "cUL" symbol is given to products listed with UL that meet the safety requirements of both Underwriters Laboratories and the Canadian Standards Association. All AMACO® kilns with Select Fire™ carry the "cUL" symbol. All AMACO® non-SF model kilns and all EXCEL® kilns carry the "UL" and "CSA" symbols.

Materials, construction, and engineering undergo rigorous testing. All AMACO® kilns are re-examined regularly, part by part, by both these well-known testing laboratories.

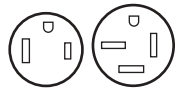
Important Electrical Information

Before ordering a kiln, a careful check by a qualified electrician or the local power company is recommended to determine the exact voltage and phase available at the point where the kiln is to be connected. Unless voltage and phase are very closely in agreement with that of the kiln, unsatisfactory firing can result.

All AMACO® non Select Fire™ 208 and 240 Volt square kilns (1Ø and 3Ø), HF-105 (1Ø), EX-1099SF (1Ø), and EX-1850SF (3Ø), should be wired directly to the power source by a qualified electrician. A safety switch is furnished as standard equipment for direct wiring of all AMACO® kilns. NOTE: All other models come with a 50 amp power supply cord with a NEMA 6-50 plug (single phase) or a NEMA 15-50 plug (three phase) and do not require direct wiring.

AMACO® kilns are available in 60 Hz or 50 Hz at no extra charge. Dawson Kiln-Sitters are also available in 50 Hz at no extra charge.

NEMA Receptacle Plugs



6-50 15-50

Two Types of Kilns for Several Different Reasons

We offer two types of kilns: square or rectangular (AMACO®) and multi-sided (Excel®). Each type of kiln is made from the highest quality materials and each has been designed to be the best kiln on the market today. AMACO® and Excel® kilns are fundamentally very different. The following description of what goes into each type of kiln can help you decide which type of kiln is right for you.

Refractory

Top quality high fire refractory is used for primary insulation in both AMACO® and Excel® kilns. All refractory brick is precision machined to hold elements or refractory element holders.

Construction

AMACO® kilns are made of strong welded steel throughout, finished in heat and rust resistant ebony and silver-gray. The extra heavy steel construction and slab refractory of the square kilns is backed with thick walls of block-type insulation. This increases firing efficiency and helps keep exterior heat radiation to a minimum, making AMACO® kilns ideal for the classroom and any area where safety is a primary concern.

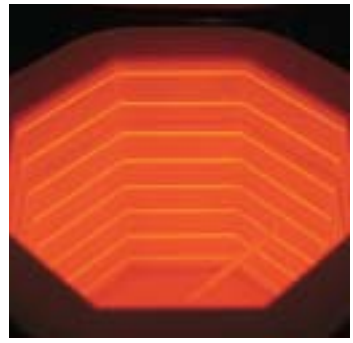
Excel® kilns have 2½" or 3" firebrick insulation with stainless steel exteriors. They are sectionalized for easy brick and element replacement.

Wiring and Switches

Replaceable terminal connectors are used on all AMACO® and Excel® kilns which make replacing elements easier since there are no wires to cut or solder that can break.

All AMACO® and Excel® kilns can be ordered with the Select Fire™ computer control (some are available only with Select Fire™). Most AMACO® and Excel® kilns are also available with manual controls such as Infinite Control Switches that allow you to increase or adjust temperatures in the increments you want. The manual controls on AMACO® EC-55 and HF-105 kilns consist of 'low/medium/high' switches instead of the Infinite Control Switches.

All AMACO® kilns feature louvered switch/control boxes that keep the switches cool, prolonging their life. All AMACO® kilns (except Select Fire™ models) have a fused safety switch box (which can be locked) for added safety.



Elements

Only the highest quality Kanthal A-1 wire is used in all AMACO® and Excel® kilns to provide long element life. The wire gauge (thickness) is determined by maximum temperature. Deep recessed grooves in the chamber walls of the Excel® kilns (and some of the AMACO® kilns) hold the elements in place. Other AMACO® kilns utilize refractory holders for protection. When necessary, elements are easily removed from any kiln for replacement and AMACO® has always made elements available for any AMACO® kiln, no matter how old the model.

Lids

Top loading AMACO® kilns have counter-balanced, spring-loaded lids that are easy to lift and also allow for expansion/contraction of the firing chamber.

Front loading AMACO® kilns have refractory backed steel doors that fit snugly, swing out on hinges and can be lifted off for ease in loading.

The lids on Excel® kilns are on a floating hinge to allow for expansion/contraction and are supported with a locking lid brace when open.

Peepholes and Stands

AMACO® kilns have convenient metal covers on their peepholes that swing out of the way for visual checking when firing. Excel® kilns have drilled peepholes, spaced throughout the height of the kiln, that utilize ceramic peephole plugs.

Most all AMACO® kilns are floor models with permanent feet to allow for the proper distance from the floor. Models AH-10 and AH-30 have handy storage cabinets under the firing chamber. Table model Fine-Art kilns have an optional kiln cabinet base. All Excel® kilns are supplied with a steel stand.

Price

Two types of kilns also allow you to have an AMACO® kiln no matter what your budget. Excel® kilns cost less initially and are very dependable. However, AMACO® kilns are the safest, best constructed kilns made today. **Many AMACO® kilns are still in service after 25+ years; an important point to keep in mind when comparing prices.**

When checking prices with other manufacturers we suggest that you also compare the quality of materials that make up any kiln. AMACO® kilns, as shown on these pages, only use the highest quality materials and are engineered based on over 70 years experience. No other kiln manufacturer can make that claim.

Two-Year Warranty

All AMACO® and Excel® Kilns are guaranteed against defects in materials and workmanship to the original purchaser for a period of two years subject to the exclusions listed in the complete Limited Warranty which is available upon request.

Ventilation

Due to the many different types of materials which may be fired in all kilns, the firing area must be properly ventilated. **DO NOT LEAVE KILN UNATTENDED.**