

# School-Master K-12 School Kilns

One-Touch Intuitive Kiln Control • 6.7 to 10.2 Cubic Feet • Cone 6

## Features & Benefits

**Temperature Rating:** All models rated for Cone 6 (2230°F, 1220°C) except for the SM28T-3, 208V/1 phase which is rated for Cone 5 (2170°F, 1190°C).

**Loading:** Lid position, when open, rests at an angle away from the kiln without lid supports so that the loading is easy and unobstructed.

**Hinge:** Spring loaded for “feather-lite” easy opening.

**Stand:** Heavy-duty 14 gauge full solid stand with multiple bends for strength. Bolt on legs. Feet protectors included.

**Assembly:** Three 9” high sections stack on top of each other. Easy to assemble. Bottom is reversible.

**Construction:** Stainless steel wrapped around brick with 3 clamps on each section. All stainless screws.

**Insulation:** 2-1/2” or 3” K23 firebrick depending on model.

**Brick Coating:** Proprietary reflective brick coating included. This helps firebrick stay strong on the surface and helps prevent dusting.

**Patented Hard Ceramic Element Holders:** Protect brick from loading damage, keep elements from falling out of grooves, makes changing elements easy, and optimizes heat transfer to load.

**Elements:** Six heavy-duty graded elements.

**Element Connections:** Proprietary all-ceramic element connection block makes changing elements easy.

**Control Panel:** All controls and components are mounted in a hinged control panel/element connection box. A layer of insulation and separation plate helps keep the controls cool. Control box can be easily removed for servicing. On/off switch and control fuse are included.



**Control:** One-Touch™ Intuitive Kiln Control easily fires the bisque and glaze programs typically used in schools. It is also easy to adjust simple parameters like cone, delay, hold, heat-up and cool-down rates.

Also four custom ramp/hold programs with 8 segments each.

**Relays:** Mercury free relays.

**Thermocouples:** Type K 8 gauge with ceramic protection tubes prevent metallic dusting in kiln and result in longer thermocouple life.

**Peephole Plugs:** Non-fragile solid ceramic with heat-locked head. 1” diameter full-view non-tapered. One per section.

**Instructions:** Complete visual instructions with control reference, process information, assembly, troubleshooting, and parts list. In addition web videos show how to assemble the kiln and how to fire it. ([hotkilns.com/videos](http://hotkilns.com/videos))

**FIVE YEAR WARRANTY**



The School-Master Kiln Series was designed in conjunction with the One-Touch™ Intuitive Kiln Control specifically with busy school teachers in mind. One touch and you are ready to fire the bisque and glaze programs most often used in K-12 schools. No programming is necessary, simple adjustments are easy (like cone level, heating and cooling speed, hold time and delay time), yet sophisticated programming is also possible.

**Warranty:** Special Five-Year Limited Warranty. ([hotkilns.com/five-year-warranty](http://hotkilns.com/five-year-warranty))

**UL Listing:** c-MET-us listed to UL499 standards.



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**KILNS BUILT TO LAST**

Bulletin No: SM-918

# School-Master K-12 School Kilns

## Options

Shelves are high alumina cone 11 shelves. See below for number, type (full or half), and dimensions. Each post kit includes six each 1/2", 1", 2" 4", 6" and 8" high 1-1/2" square cordierite posts. All furniture kits include heat-resistant gloves.

**Vent System:**  
Vent-Sure downdraft vent  
(hotkilns.com/vent-sure)



Furniture kit for a SM23T-3 kiln.



Furniture kit for a SM28T-3 kiln.

## Dimension & Weight Specifications

| Model Number | Inside Dimensions | Cubic Feet | Brick Thick | Furniture Kit              | Furn. Kit Part No. | Outside Dimensions    | Shipping Dimensions (with Kit) | Ship Wght Kiln Only | Ship Wght Kiln + Kit |
|--------------|-------------------|------------|-------------|----------------------------|--------------------|-----------------------|--------------------------------|---------------------|----------------------|
| SM23T        | 23-3/8"D x 27"H   | 7.0        | 2-1/2"      | (2) 21" full, (4) 21" half | H-E-K23T/00        | 32" W x 40" H x 45" D | 44" W x 61" H x 44" D          | 325 lbs             | 420 lbs              |
| SM23T-3      | 22-3/8"D x 27"H   | 6.7        | 3"          | (2) 20" full, (4) 20" half | H-E-K23T/30        | 32" W x 40" H x 45" D | 44" W x 61" H x 44" D          | 360 lbs             | 455 lbs              |
| SM28T-3      | 28"D x 27"H       | 10.2       | 3"          | (8) 25-1/2" half           | H-E-K28T/00        | 40" W x 41" H x 50" D | 48" W x 61" H x 44" D          | 460 lbs             | 565 lbs              |

**Minimum Space Requirements:** Differs with each model. Refer to General Dimension Diagrams of the comparable Easy-Fire kilns.

**Moving and installation:** This comes assembled but can be quickly disassembled and reassembled to move through any door or up stairs. It comes packed in a skidded carton with secure foam-in-place packaging.

**General Dimension Drawings:** PDFs of all General Dimension drawings can be downloaded from each model page on our web site.

## Electrical Specifications

| Model Number   | Part Number | Volt/Phase | Watts  | Max Cone | Amps | Wire Size | Fuse Size |
|----------------|-------------|------------|--------|----------|------|-----------|-----------|
| SM23T-240      | K-S-23T2/31 | 240/1P     | 11,520 | 6        | 48.0 | 6 ga      | 60 Amps   |
| SM23T-240-3P   | K-S-23T2/32 | 240/3P     | 11,520 | 6        | 27.7 | 8 ga      | 40 Amps   |
| SM23T-208      | K-S-23T2/21 | 208/1P     | 9,980  | 6        | 48.0 | 6 ga      | 60 Amps   |
| SM23T-208-3P   | K-S-23T2/22 | 208/3P     | 11,000 | 6        | 30.5 | 8 ga      | 40 Amps   |
| SM23T-3-240    | K-S-23T3/31 | 240/1P     | 11,520 | 6        | 48.0 | 6 ga      | 60 Amps   |
| SM23T-3-240-3P | K-S-23T3/32 | 240/3P     | 11,520 | 6        | 27.7 | 8 ga      | 40 Amps   |
| SM23T-3-208    | K-S-23T3/21 | 208/1P     | 9,980  | 6        | 48.0 | 6 ga      | 60 Amps   |
| SM23T-3-208-3P | K-S-23T3/22 | 208/3P     | 11,000 | 6        | 30.5 | 8 ga      | 40 Amps   |
| SM28T-3-240    | K-S-28T3/31 | 240/1P     | 11,520 | 6        | 48.0 | 6 ga      | 60 Amps   |
| SM28T-3-240-3P | K-S-28T3/32 | 240/3P     | 16,620 | 6        | 40.0 | 6 ga      | 50 Amps   |
| SM28T-3-208    | K-S-28T3/21 | 208/1P     | 9,980  | 5        | 48.0 | 6 ga      | 60 Amps   |
| SM28T-3-208-3P | K-S-28T3/22 | 208/3P     | 14,340 | 6        | 39.8 | 6 ga      | 50 Amps   |

**UL Listing:** c-MET-us listed to UL499 standards.

**Power connection:** A six foot cord with a 50 amp NEMA 6-50 plug for single phase units or a 15-50 plug for 3 phase units is included. (No neutral is necessary). May be direct wired.