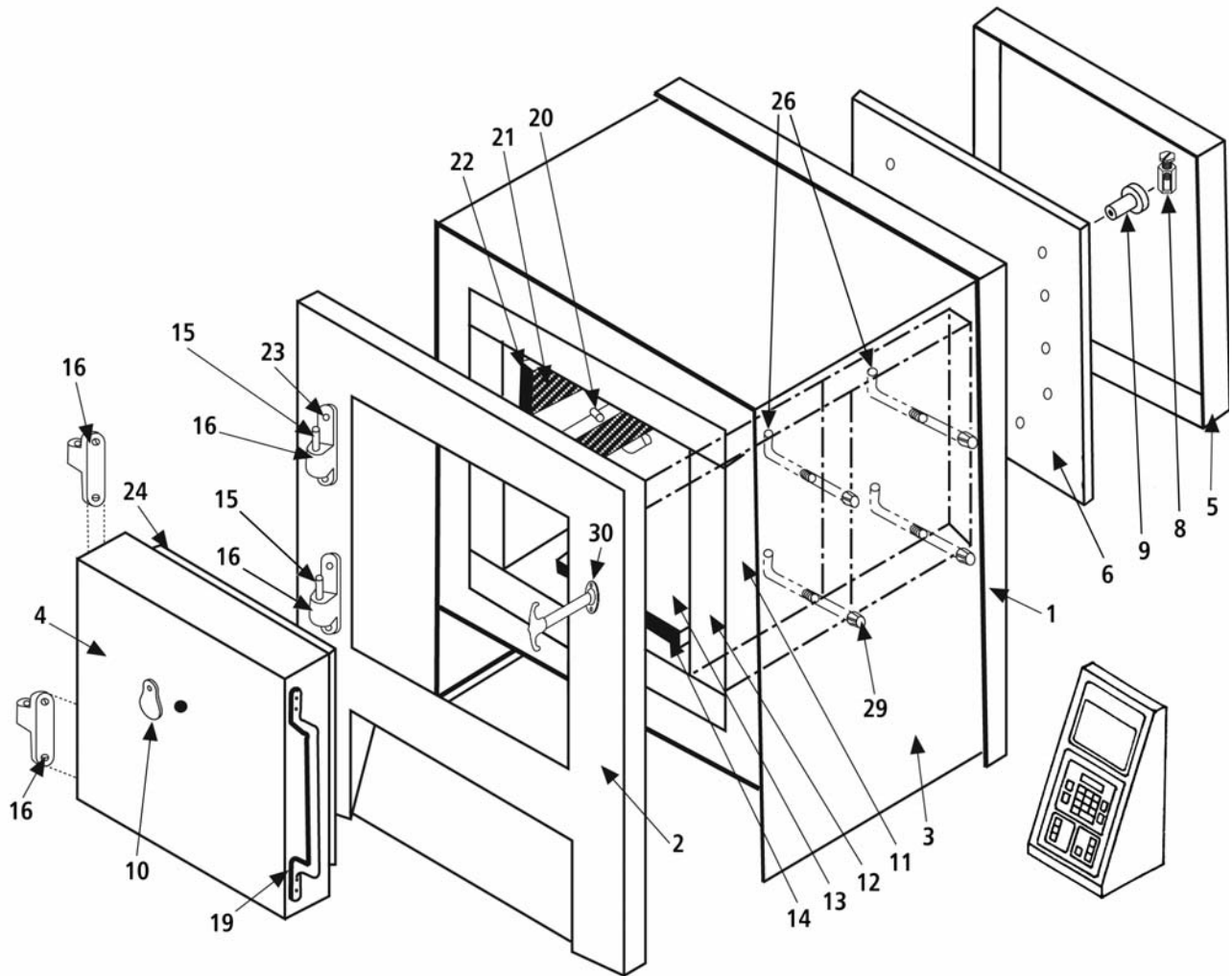


AMACO® Fine Art Electric Kiln FA-44

208 or 220-240 Volts AC, Single Phase & Three Phase



See page 2 for replacement parts list that corresponds to the numbers on this drawing.

REPLACEMENT PARTS LIST
AMACO® FINE-ART ELECTRIC KILN
FA-44

DETAIL NO.	PART NO.	DESCRIPTION	PARTS/ KILN
1	*	Back Frame	1
2	*	Front Frame	1
3	*	Shell	1
4	*	Door Metal Shell Only	1
4	29327F*	Complete Door - No Hardware	1
5	*	Back Terminal Guard	1
6	29328G	Cem-Fil (Back Panel)	1
8	28071F	Terminal Lug #10-U	12
9	29034M	Insulator P-3580	12
10	29025C	Peephole Cover	1
11	29335P	Side Insulation	2
11	29338S	Top Insulation	1
11	29338S	Bottom Insulation	1
11	29344Y	Back Insulation	1
11	29347C	Door Insulation	1
12	29351G	Lower Side Brick	2
12	29352H	Upper Side Brick	2
12	29353J	Top Brick	1 set
12	29356M	Bottom Brick	1 set
12	29359B	Back Brick	1 set
13	29364H	Bottom Element Holder	1
14	29365W	Bottom Element Coil 208V (Set-2 Wires)	1 set
14	29367Y	Bottom Element Coil 230V (Set-2 Wires)	1 set
15	28072G	Hinge Pin	2
16	02876C	Door Hinge	4
19	28129H	Door Handle	1
20	03414D	Element Support	8
21	29378L	Side Element Holder	4
22	29380N	Side Element Coil 208V	4
22	29382B	Side Element Coil 230V	4
23	+	Hinge Bolts (self-tapping)	8
24	29387H	Door Brick	1 set
26	29377K	Element Holder	8
29	29393C	Acorn Nut for Element Holder Hook	8
30	28153X	Latch, Door	1
31	29392B	Back Refractory Spacer (Not Pictured)	1

- * Special Order Item. Allow extra time for shipment.
- + Standard Hardware/Electrical Item available locally.
Prices available upon request.

General Information

The AMACO® FA-44 Kiln has a maximum attainable temperature of Cone 03 (2019°F, 1104°C). The average fast-fire time required for this kiln to reach 1950°F (1066°C) is 5-6 hours. The FA-44 is equipped with the Select Fire™ Computer Control for precise control, convenience, and consistent results firing after firing. During every firing, pyrometric cones should be placed in the kiln so that they can be viewed through the peephole(s). This booklet contains a wiring diagram for the FA-44 kiln, Select Fire™ Controller and a parts list with accompanying drawing for the FA-44 and Select Fire™. Before installing the kiln, consult these diagrams for recommendations on electric service, fuses, etc.

Also included with this booklet is an AMACO® Electric Kilns Installation/Operation/Maintenance manual, which includes important information about selecting a location for your kiln, firing guidelines, and do-it-yourself instructions for replacing elements. The enclosed supplement has complete programming and operating instructions for the Select Fire™ Controller. Place kiln at least 18 inches from any existing wall at the sides and back. Connect kiln to an electric circuit which corresponds to that stamped on the kiln name plate.

Testing For Defective Elements and Improper Heating

Use the diagram below, the FA-44 Wiring Diagram, along with the information found in the Installation/Operation/Maintenance manual to safely inspect and replace elements. The diagram indicates the position of the coil terminal wires as viewed from the rear of the kiln. Plug in test lamp and touch lamp leads to terminals 1 and 2. If lamp lights, the circuit is good. Proceed with the other coils, connecting 3 and 4, 5 and 6, etc. Any connections where lamp fails to light will indicate a defective coil.

HEATING ELEMENT REPLACEMENT

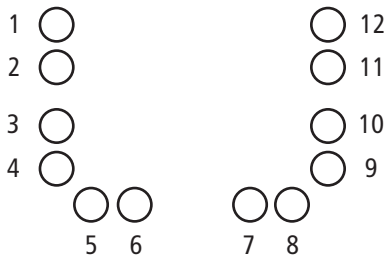
If there is a defective coil in any element holder, the entire holder will have to be removed. Turn all switches to "Off" position so kiln is not energized. Remove metal protective guard on back of kiln. **Work on only one plate at a time.** Unscrew connectors on lead wires and slip element plate out through door opening. Since it is seldom necessary to replace a complete element plate, remove the damaged wire coil and re-wire with a new coil. Replace repaired element plate in kiln, make the same wiring connections and replace metal protective guard.

Follow these steps for installing a complete new element or wire coil only: 1. Be sure that the fused safety switch and all regulating switches are turned to "Off" position so that the kiln is not energized. 2. Remove the metal protective guard on the back of the kiln. 3. **Work on only one element at a time.** Unscrew the connectors on the element terminals of that one particular element to be replaced. 4. Remove the element plate through the kiln door opening. 5. Replace at once with a new element plate or with the old element holder fitted with a new wire coil replacement. 6. Tighten the connectors on the wire ends which extend through the back of the kiln. 7. Repeat procedures 2 through 6 until all defective elements are replaced. When replacing wire coils only, observe carefully as the defective wire is removed and re-thread the new wire coil replacement in the same manner.

Ordering Replacement Parts: when ordering replacement parts for this kiln, be sure to specify the Model Number, Serial Number and Voltage.

FA-44 TESTING DIAGRAM

Element Terminals, Rear View

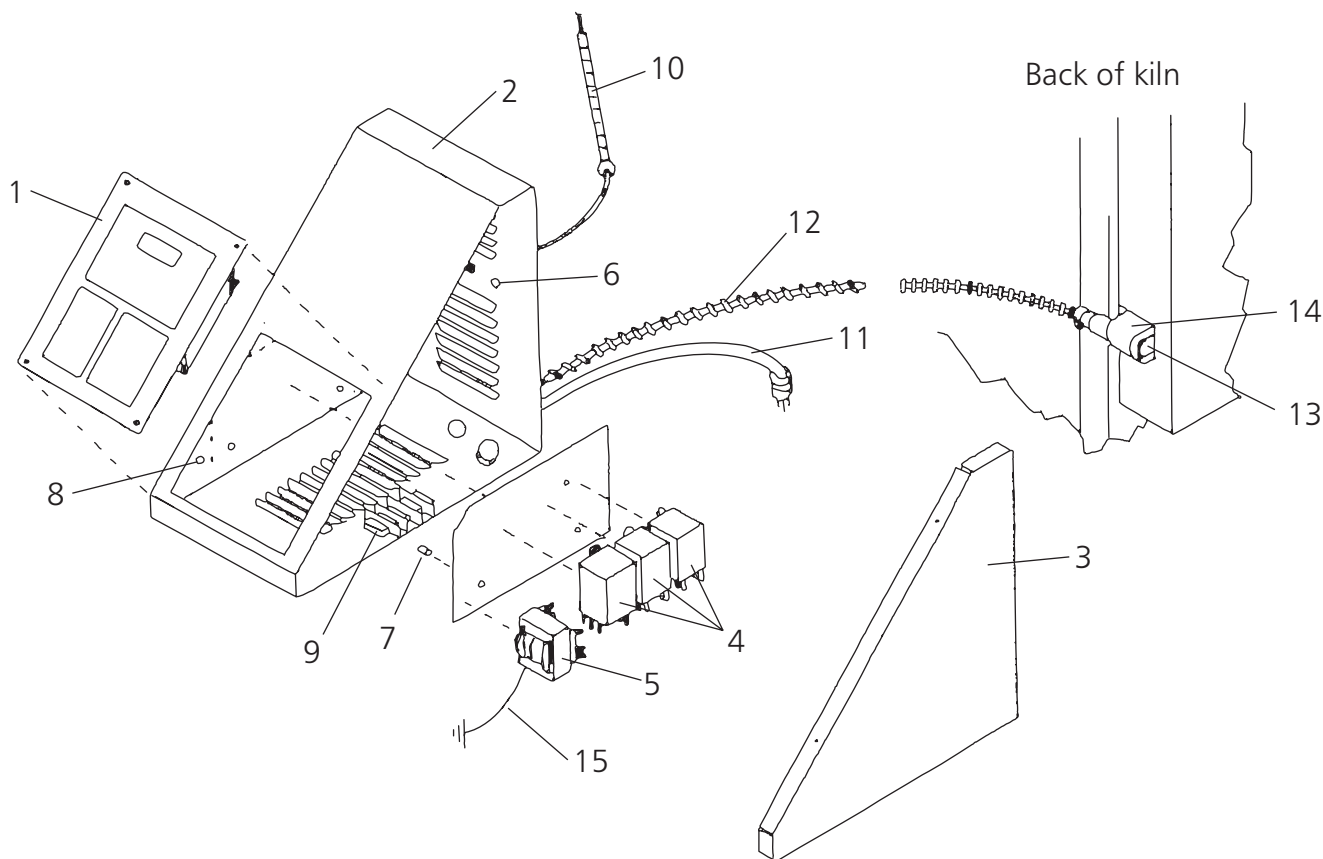


KILN SPECIFICATIONS FA-44

(Single and three phase)

Voltage	208 or 220-240 volts AC only
Amp Rating	Single Phase 21.0 at 208V, 20.4 at 240V Three Phase 20.5 at 208V, 19.5 at 240V
Kilowatt Rating	4.9
Firing Speed Control	Select Fire™ Computer Control
Maximum Temperature	2019°F, 1104°C
Firing Chamber Dimensions (W x D x H)	14" x 14" x 14"
Firing Chamber Area	1.59 cubic feet
Exterior Dimensions (W x D x H)	35¼" x 28¾" x 32⅝"
Elements	Element Plates (holders with wires): 4 side, 1 bottom
Shipping Weight	452 lbs.

REPLACEMENT PARTS LIST SELECT FIRE™ COMPUTER CONTROL



1	24250P	Select Fire Control	1
2	*	Select Fire Control Box	1
3	*	Select Fire Control Box Cover	1
4	24276H	Relays	3
5	24278K	Transformer	1
6	22134W	Fuse Holder	1
7	*	3/16" spacer	3
8	*	5/8" spacer	3
9	27749M	Terminal Block, 60 amp	1
10	28845T	Thermocouple, 72" long lead wire	1
11	28672E	Power cord with plug	1
12	*	Power to coils	1
13	28418L	Conduit Fitting	1
14	28419M	Conduit Cover	1
15	*	Ground (14 gauge wire)	1

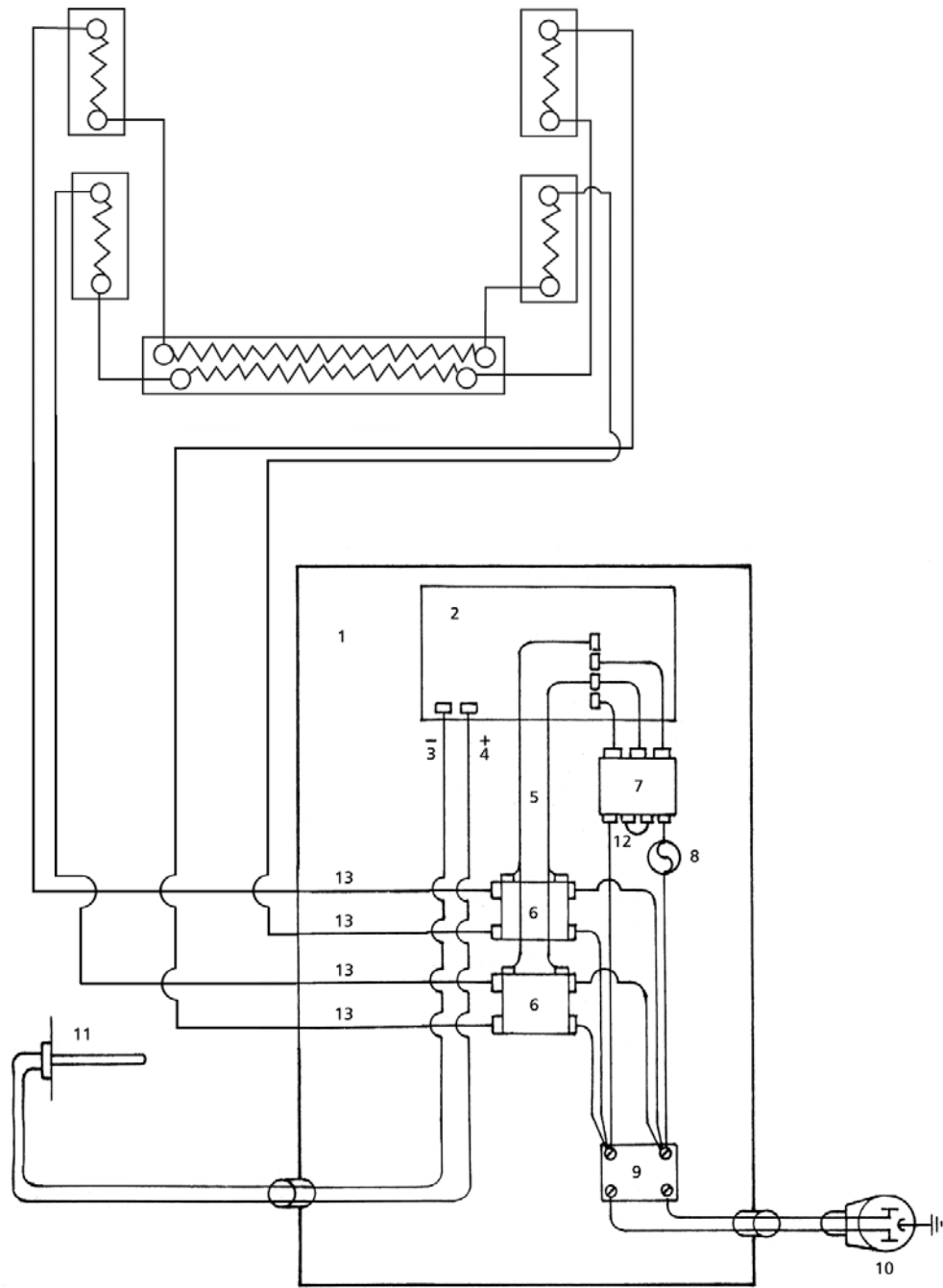
*Special order item. Allow extra time for shipment.



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WIRING DIAGRAM FINE-ART ELECTRIC KILN FA-44

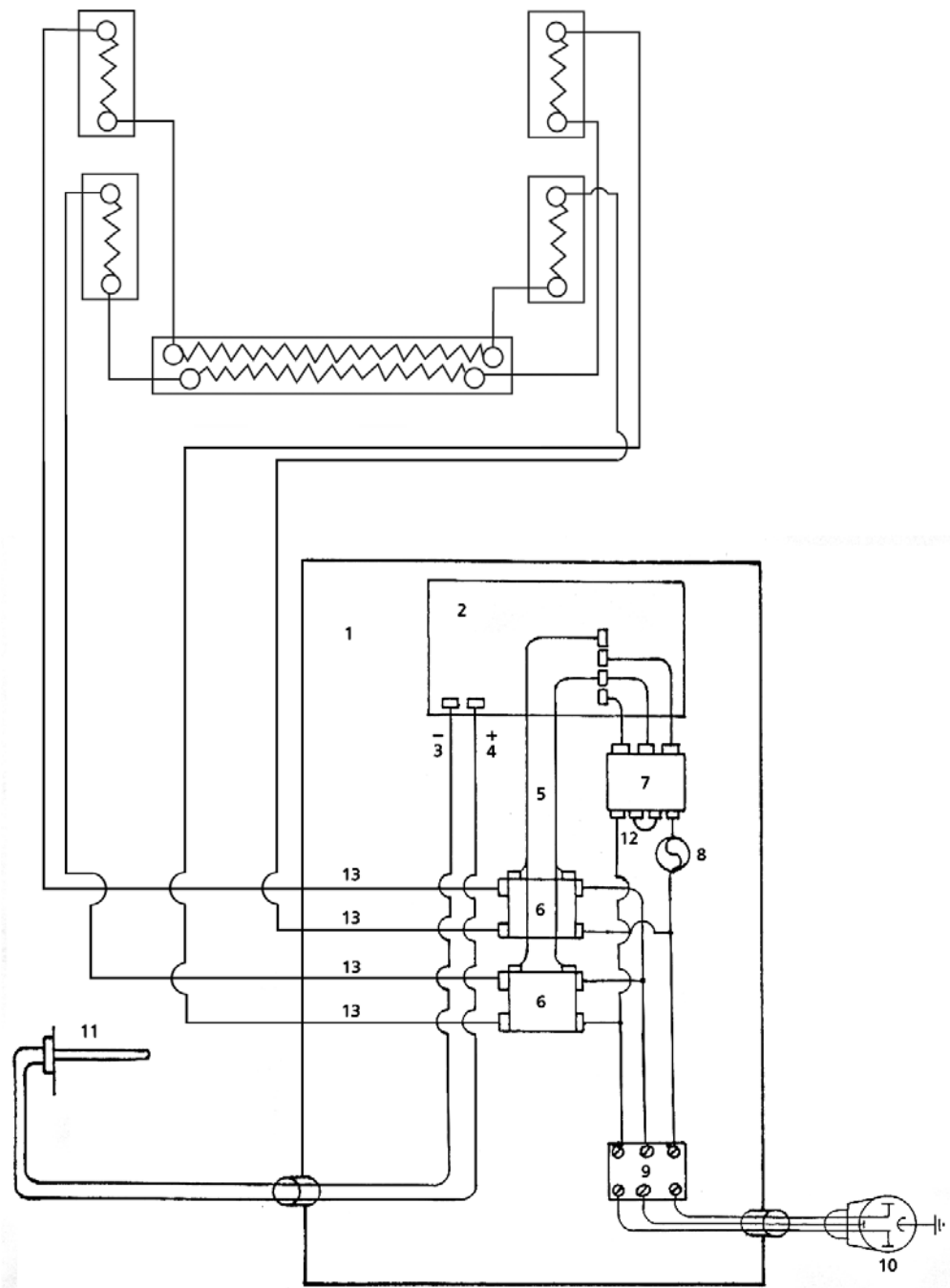
208/240 Volts AC, Single Phase



- | | | | |
|---|--------------------------------------|----|-----------------------------|
| 1 | Select Fire™ Master Panel | 8 | Fuse |
| 2 | Select Fire™ Electronic Control Unit | 9 | Terminal Block |
| 3 | Red Wire | 10 | 208/240V Plug |
| 4 | Yellow Wire | 11 | Thermocouple |
| 5 | Control Signal Wire | 12 | Jumper Wire for Transformer |
| 6 | Relay | 13 | Wires to Terminal Strip |
| 7 | Transformer | | |

WIRING DIAGRAM FINE-ART ELECTRIC KILN FA-44

208/240 Volts AC, Three Phase



- | | | | |
|---|--------------------------------------|----|-----------------------------|
| 1 | Select Fire™ Master Panel | 8 | Fuse |
| 2 | Select Fire™ Electronic Control Unit | 9 | Terminal Block |
| 3 | Red Wire | 10 | 208/240V Plug |
| 4 | Yellow Wire | 11 | Thermocouple |
| 5 | Control Signal Wire | 12 | Jumper Wire for Transformer |
| 6 | Relay | 13 | Wires to Terminal Strip |
| 7 | Transformer | | |