



Oval Kiln Addendum

SETUP AND SPECIFICATIONS FOR THE SKUTT OVAL KILN

Unpacking

The Oval kiln will be packed in 2 separate boxes which will include the following:

Box 1

- a. Oval Kiln
- b. 3 Piece Fiber Slab Insert

Box 2

- a. 2 Piece Kiln Stand with slab supports
- b. 6 Peep Plugs
- c. "Goodie Bag"
 - Operating Manual
 - Zone Control Addendum
 - Warranty Card
 - 12 Plastic Stand Feet
 - Lid Prop
- d. 14 2" Posts

Set Up

Follow the instructions on kiln setup in the "Automatic Kiln Set Up" section of the KilnMaster Automatic Kiln manual which was included with your kiln purchase. There are 4 main differences that should be noted when setting up the Oval kiln.

- 1 Due to the weight of the Oval kiln, you will want to separate the kiln into sections when you set it up. Please consult the instructions "Disassembling a KM1627PK Oval Kiln"
- 2 The kiln has 2 stands that fit together which include a 2 piece stainless steel slab support system. Place the stands flush together and center the supports on top of the stands. If you have purchased the Envirovent Downdraft Ventilation System the vents will be attached to the slab supports and they will be packaged separately.
- 3 The Oval kiln includes a 3 piece rigid fiber insert that fits inside the bottom section on top of the slab. There are holes cast in the insert which hold the 2 inch ceramic posts. Carefully lay the fiber insert on top of the slab after the first section is placed in position and insert the posts.
- 4 The Oval kiln comes standard with a Zone Control KilnMaster Controller. Please see the Zone Control Addendum for programming instructions.

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Disassembling KM1627PK Kiln Sections

Caution: Before disassembling any Oval kiln, be sure to turn off power to the kiln by throwing the circuit breaker or removing the fuse on its circuit. Do not restore power to the kiln until it is fully reassembled.

Note: The mercury relays in the switch box must be operated only with the switch box in a normal, vertical orientation.

To disassemble the kiln

- 1 Remove the screws from the left side of the control box.
- 2 Swing the control box open.
- 3 Remove the screws holding the feeder wires to the two pole blocks on the heat baffle. There are three sets with two feeder wires going into each set.
- 4 Remove the thermocouple wires from the thermocouple terminal strip on the baffle. They are attached with slide on connectors and should be pulled straight off. Pulling at an angle can damage the connector.
- 5 Lift the box up and set it aside.
- 6 Unfasten draw pull catches and lift sections apart using the handles.

To reassemble Oval kilns:

- 1 Stack the sections in original sequence and secure the draw pull catches..
- 2 Place the control box on its hinges.
- 3 Reattach the feeder wires to their corresponding block. **Make sure the connection is very tight** to avoid electrical problems.
- 5 Reattach the thermocouple wires in correct order.
- 6 Reattach the screws which secure the control box to the kiln jacket.

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Lid Operation

The Oval kiln has a special design for the lid braces which allow you to lower the lid without having to reach over to release each brace. To raise the lid lift it up until it slides into the first set of support grooves. If you require the lid to rest in a higher position lift it to the second set of support grooves. To lower the lid when it is in the first position lift the lid until the cams drop down and cover the support grooves and then lower the lid slowly. If you are using the higher support position it may be necessary to hold the lid with one hand and release the braces with the other hand.

Connecting PK Kilns

Oval kilns must be direct wired or “hard wired” into your studio’s electrical system by a qualified electrician.

At the time of connection, your electrician should also check the wiring which supplies the kiln, to be sure that the copper wire size and breaker size are adequate. See the electrical requirements table below.

Oval Kiln Elements

Unlike other models, the elements in an Oval kiln go around the kiln chamber only once. To achieve optimum heat distribution, there are three types of elements in the Oval kilns : Top/ Bottom, Intermediate, and Center. The table below shows the proper placement and type when replacing elements.

KM-1627

| Section | Element | Position |
|---------|--------------|----------|
| Upper | Top/Bottom | 1 |
| | Top/Bottom | 2 |
| | Intermediate | 3 |
| | Intermediate | 4 |
| Master | Center | 5 |
| | Center | 6 |
| | Center | 7 |
| | Center | 8 |
| Lower | Intermediate | 9 |
| | Intermediate | 10 |
| | Top/Bottom | 11 |
| | Top/Bottom | 12 |

Specifications

| Model | Volts | Amps | Watts | Max. Cone | Copper Wire Size* | Fuse or Breaker Size |
|---------------|-------|------|-------|-----------|-------------------|----------------------|
| KM-1627PK-3ph | 240 | 66 | 23600 | 10 | 4 | 90 |
| KM-1627PK-3ph | 208 | 76 | 23600 | 10 | 4 | 100 |

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