

The 5-Run Masonry Heater is a symmetric top-venting design that allows for many variations.

Masonry Heaters are typically built in a double-skin construction. There is a refractory core that addresses many of the technical functions of the heater and a facing which serves as an aesthetic wrap and also provides mass for the unit to act as a thermal battery.

Operating at above 80% overall efficiency and emitting 1-2 g/Kg of particulate, a masonry heater is amongst the cleanest burning and most efficient ways to heat a home with wood.



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MASONRY HEATERS • WOOD-FIRED OVENS

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5-Run Masonry Heater with Oven (5R0) Design Overview

Last Modified: January 12, 2026

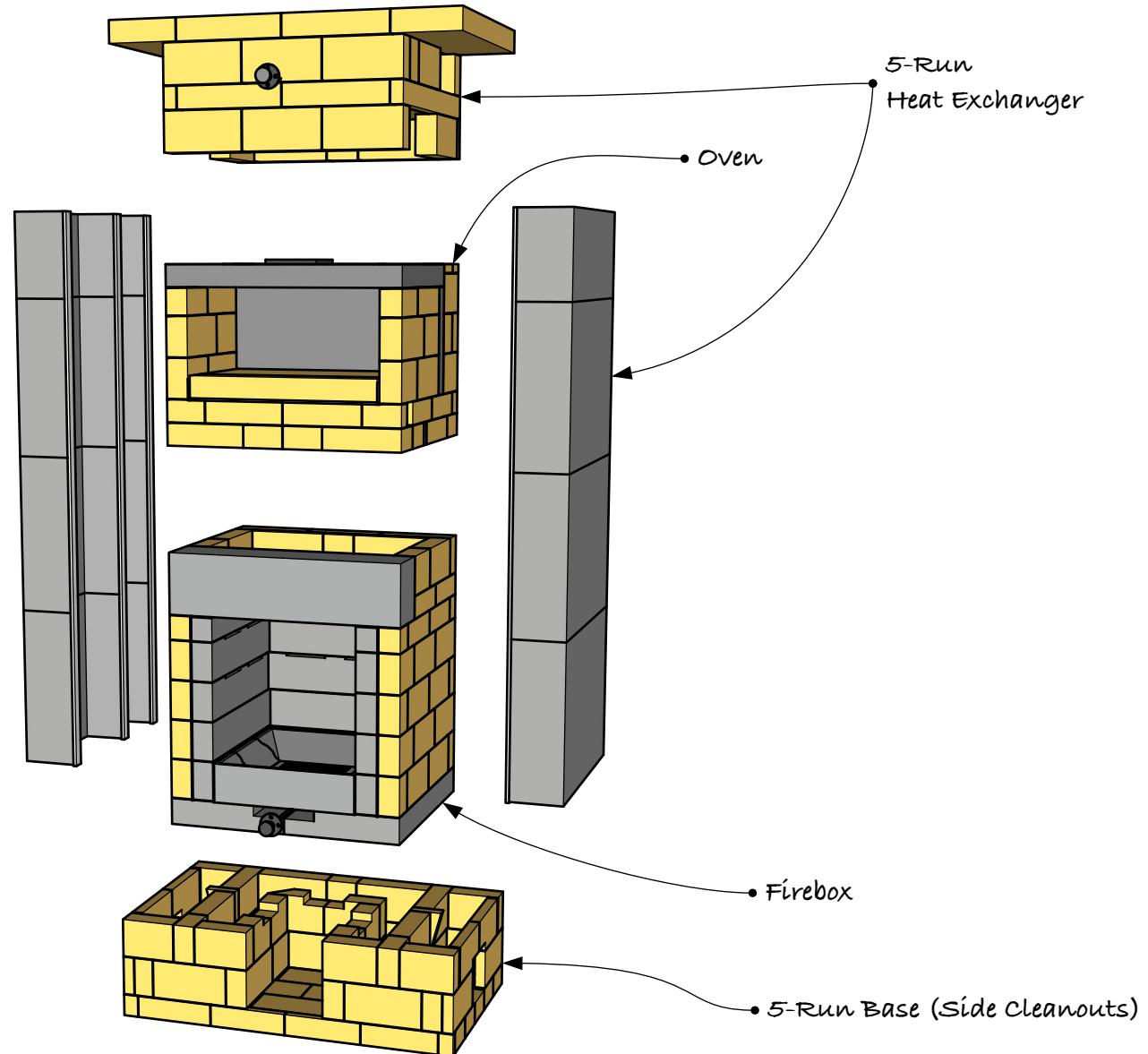
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Modules

This drawing shows the 5-Run custom masonry heater design as a series of individual modules including:
-the base (variations for additional heated bench sides)
-the firebox; a standardized design featuring EcoFirebox design
-the oven (optional or reversed)
-the heat exchanger module - in this case the 5-Run configuration which provides for a symmetric top-vented heater.

This modular approach allows for a unified design methodology for a wide variety of heater types. Individual modules can be varied while the rest of the design stays standard, especially the firebox.

We supply all of the specialty parts that you need to build a masonry heater. For our core kits, we deliver all of the castable refractory components, hardware, and casketing that you will need on one pallet delivered to your door. You can pick up your firebrick and facing materials at a local masonry yard. This allows for efficient materials gathering and accurate estimating for your project.



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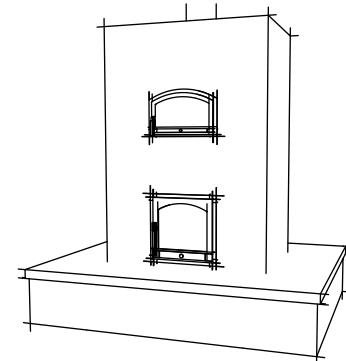
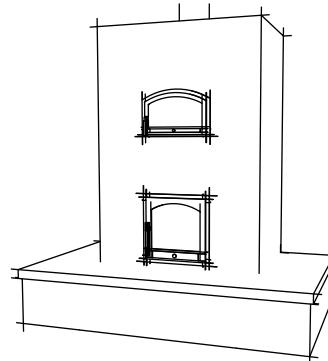
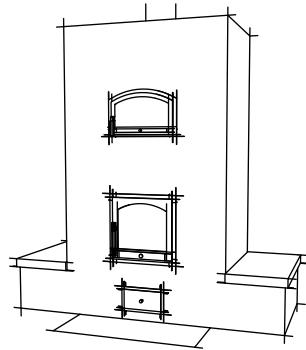
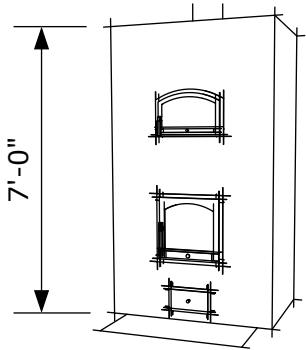
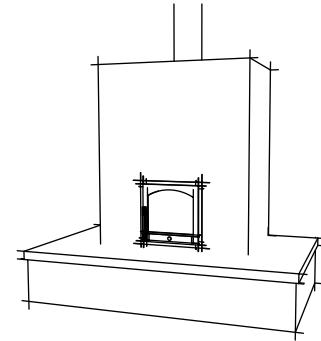
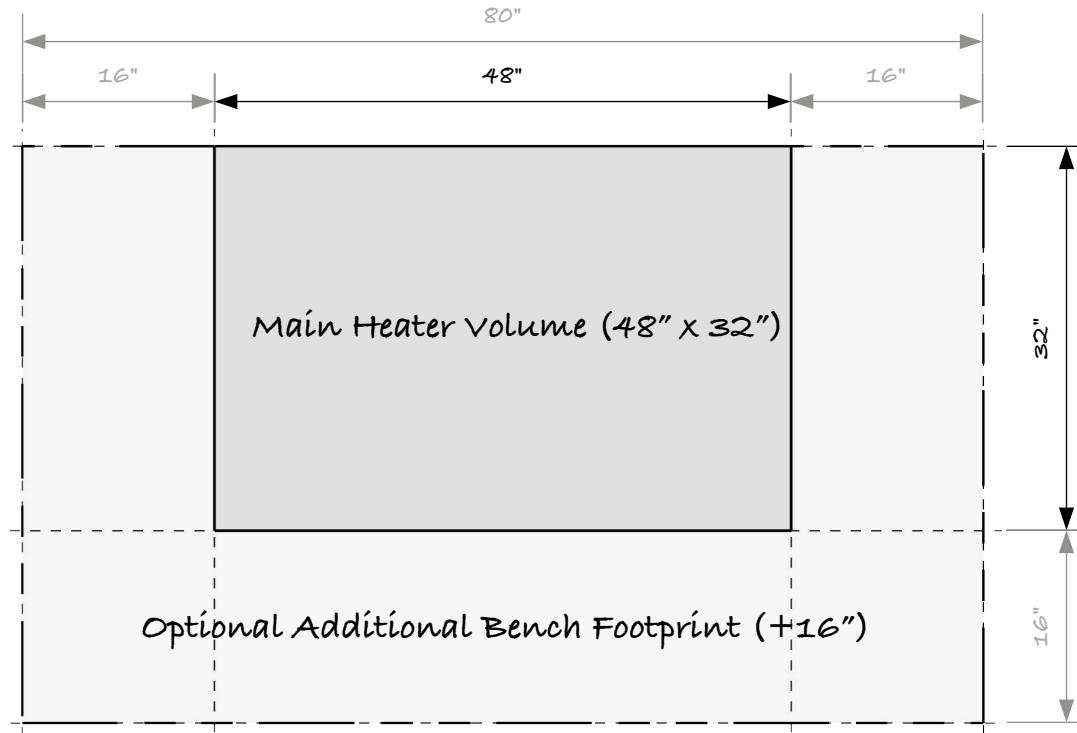
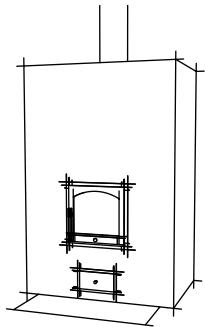
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5-Run Masonry Heater with Oven (5R0) Core Components & Modules

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The design allows for many variations including options to include heated and unheated benches, an oven facing the same way or opposite to the firebox, and the addition of domestic hot water heat exchanger.



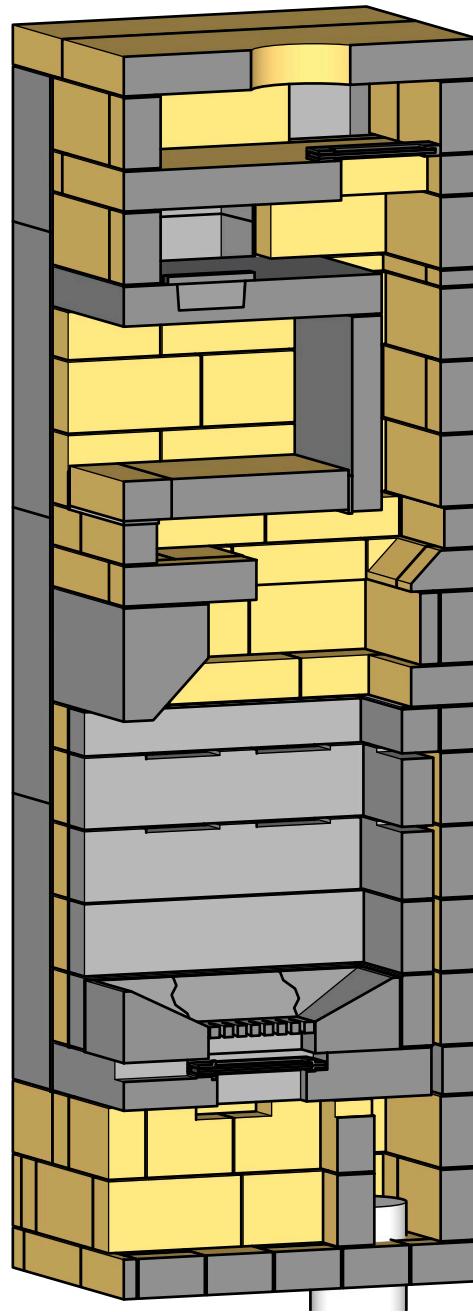
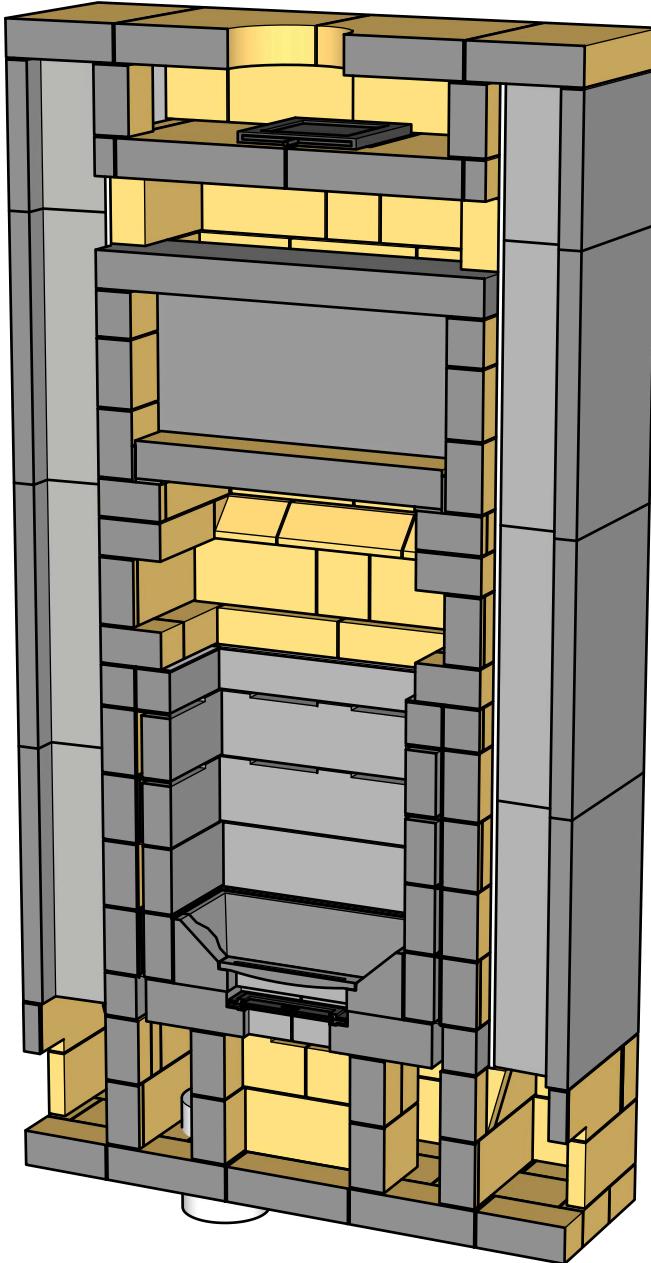
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5-Run Masonry Heater with Oven (5R0) Plan with Bench Options

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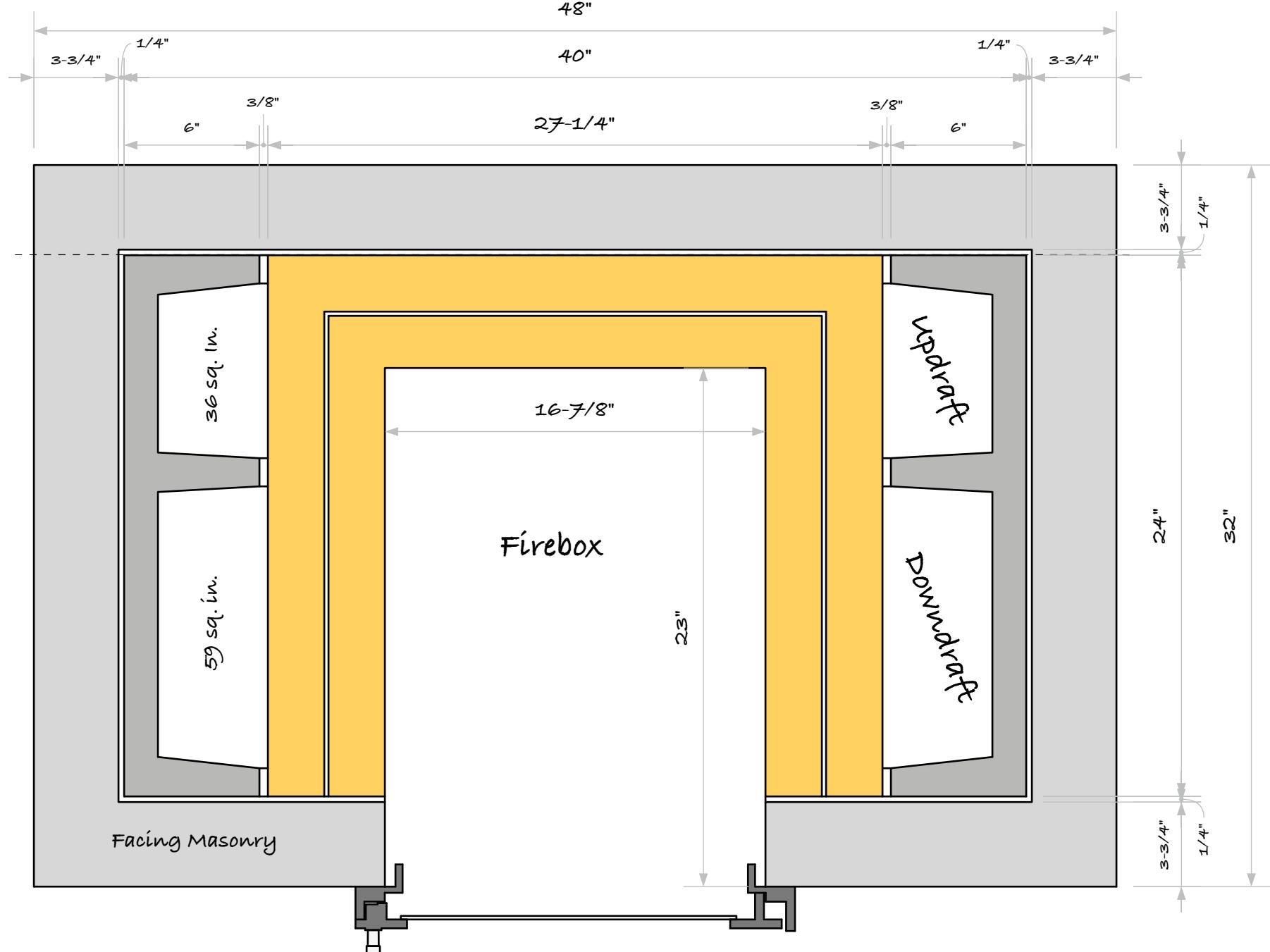
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5-Run Masonry Heater with Oven (5R0) Sections - Front & Side

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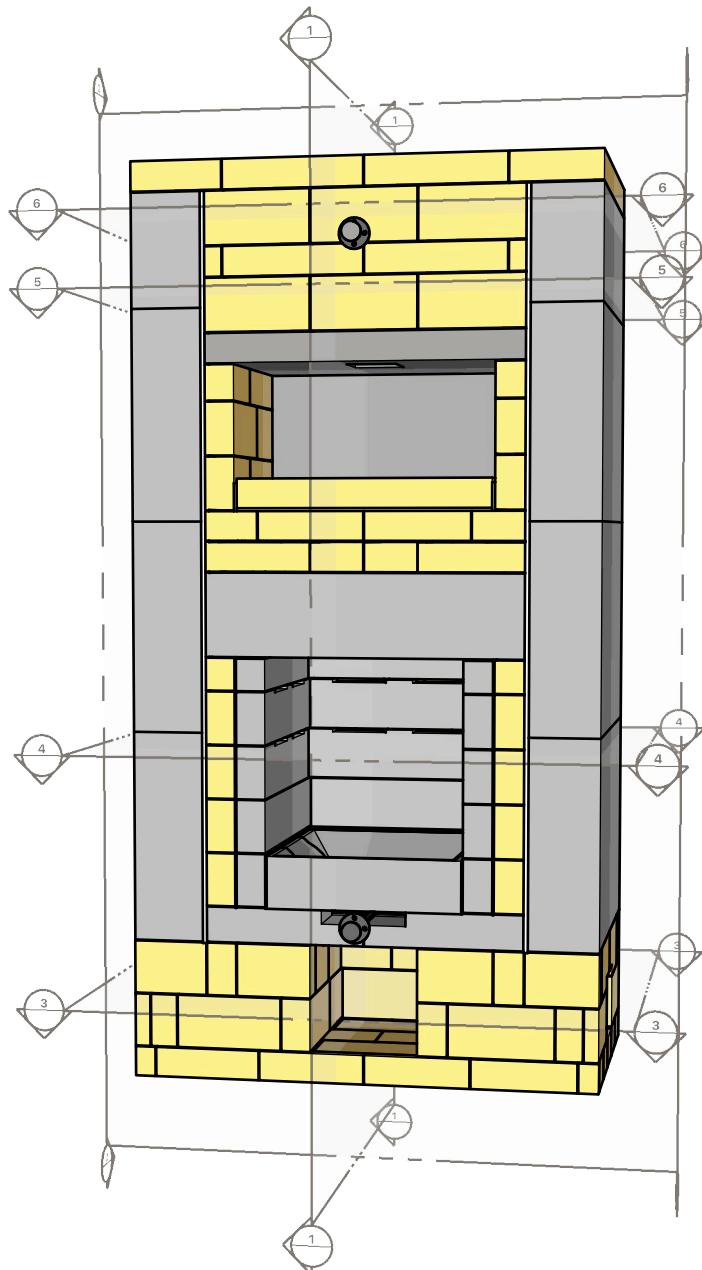
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5-Run Masonry Heater with Oven (5R0) Dimensions @ Firebox

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This is a hybrid core which means that the cast components are combined with firebrick and facing masonry obtained from local masonry supply houses. The hybrid approach allows for maximum design flexibility. This drawing set is meant to give a comprehensive overview of this core design. Course by course drawings and installation instructions are provided with purchased kits.

Please make sure to review all of the documentation provided on our website to prepare you for construction.



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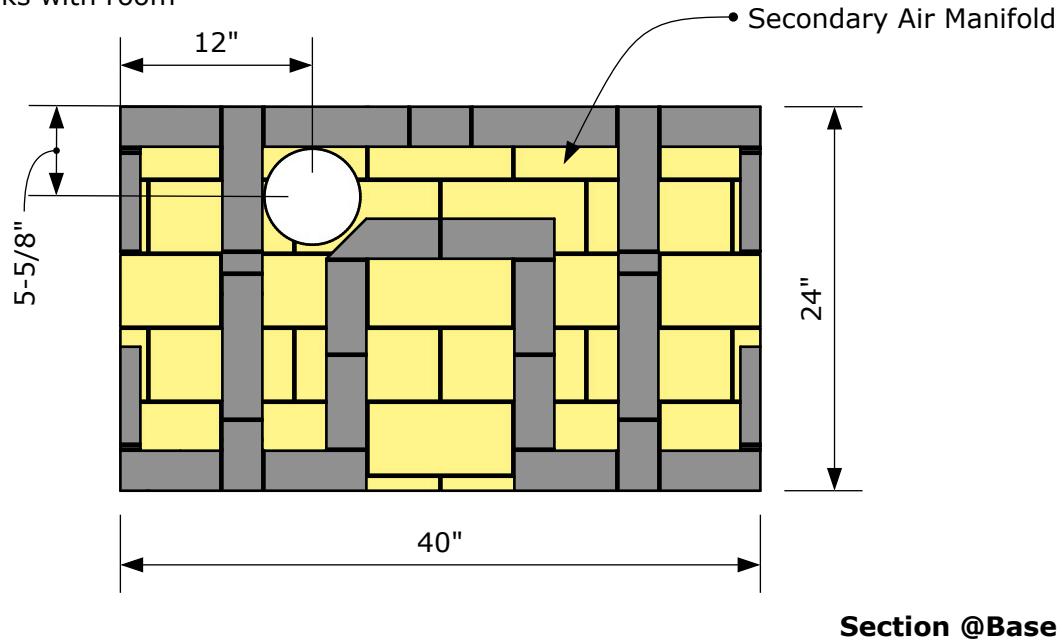
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5-Run Masonry Heater with Oven (5R0) Hybrid Core with Section Planes

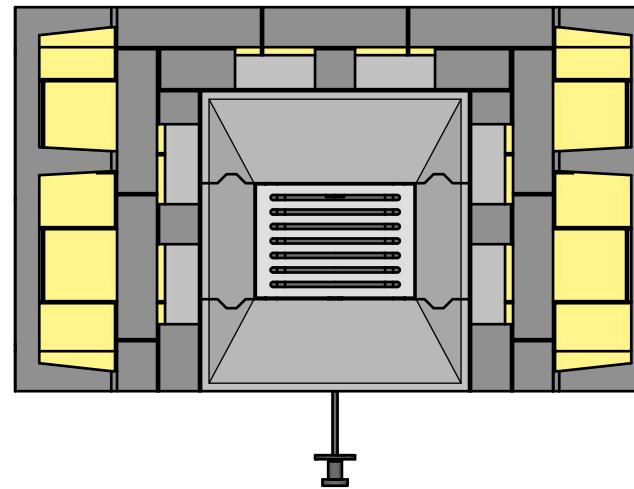
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Recommended outside air location, if using outside air. 6" inlet, we recommend the Dayton 6" Butterfly Damper for a well-sealed control. Design also works with room air.



Section @Base



Section @Firebox



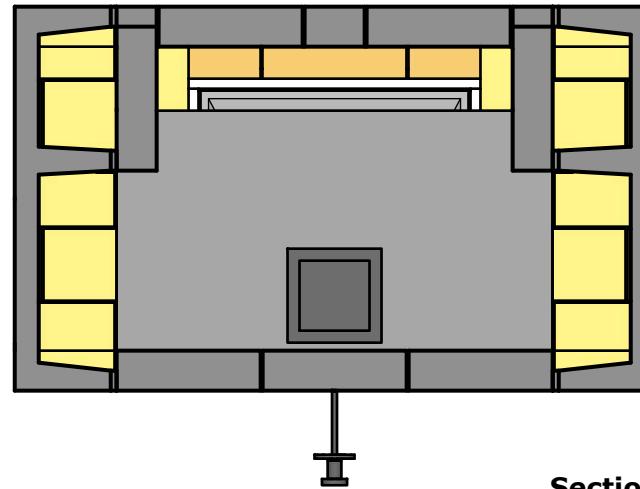
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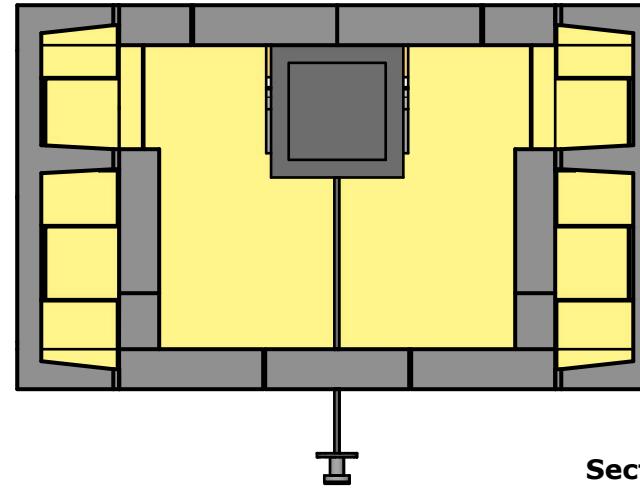
5-Run Masonry Heater with Oven (5R0) Sections - Base & Firebox

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Section @ Top of Oven / Entrance into Downdrafts



Section Above Bypass @ Updraft Return



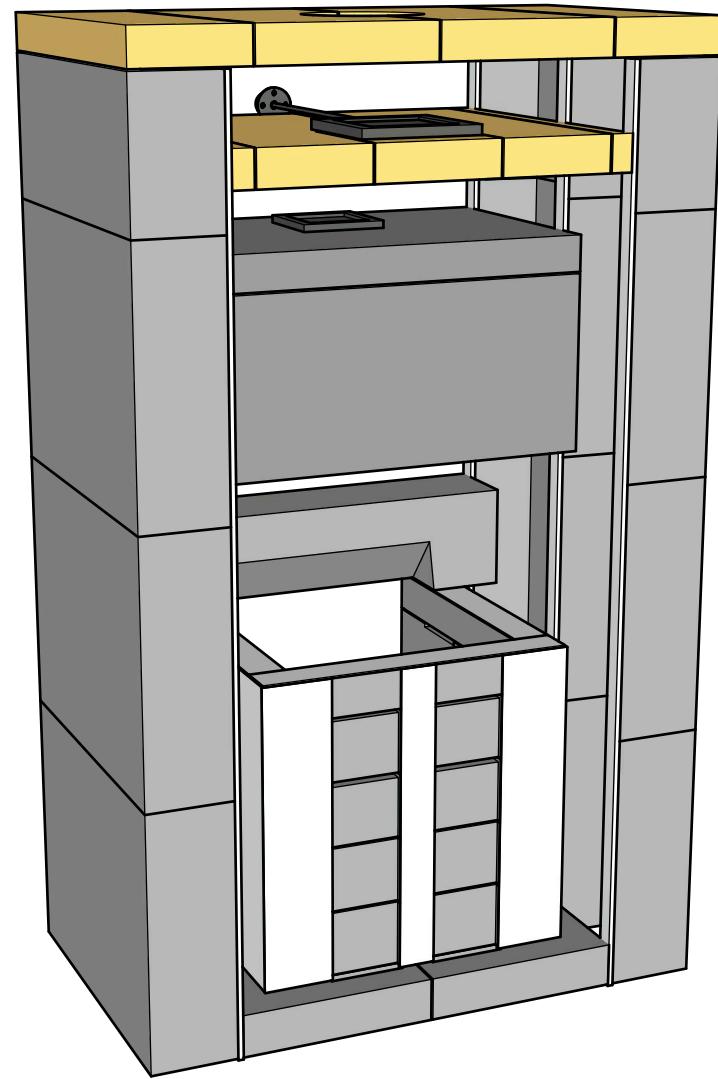
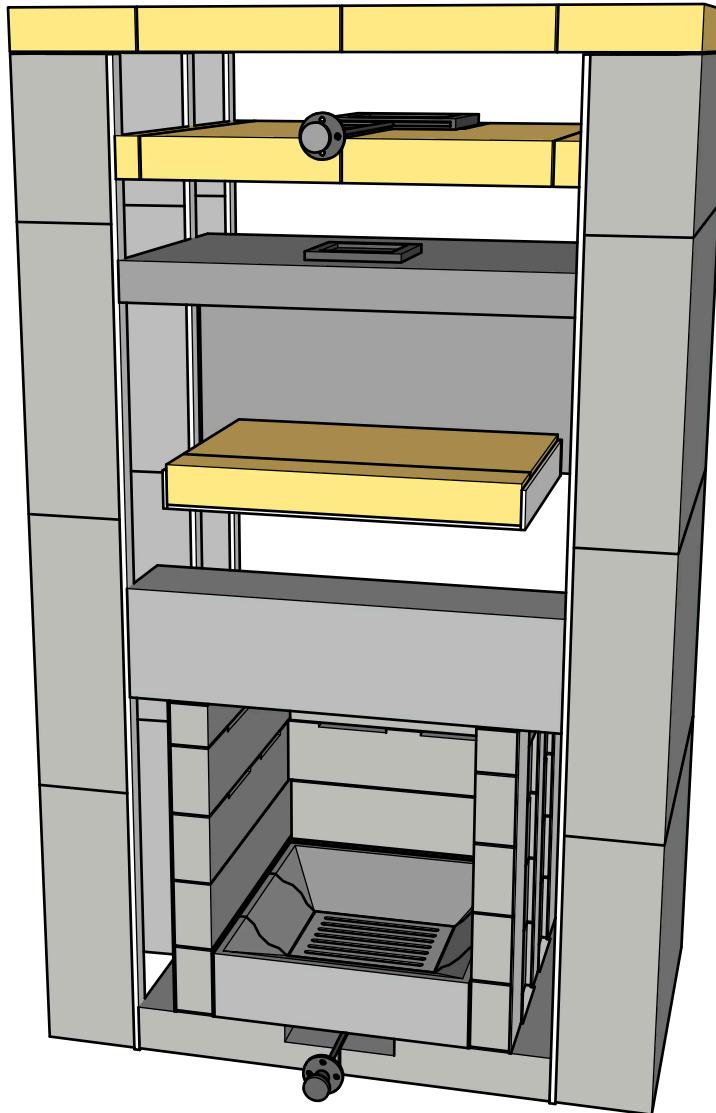
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5-Run Masonry Heater with Oven (5R0) Sections - Bottom & Top Manifolds

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Anchor Plate, Oven Thermometer, Refractory Mortar and other options not shown here.



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5-Run Masonry Heater with Oven (5R0) Shipped Components

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Inquire for Additional Hardware Options



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5-Run Masonry Heater with Oven (5R0) Standard Hardware Package

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