Revised June 25, 2009

Heat-Kit System

Modular Contraflow Masonry Heater Core

Custom Instructions

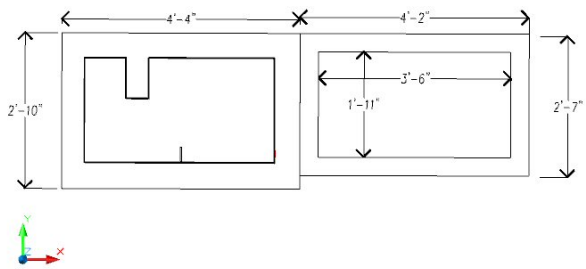
HK-22

Rear ash cleanout and outside air. J loop with custom bench

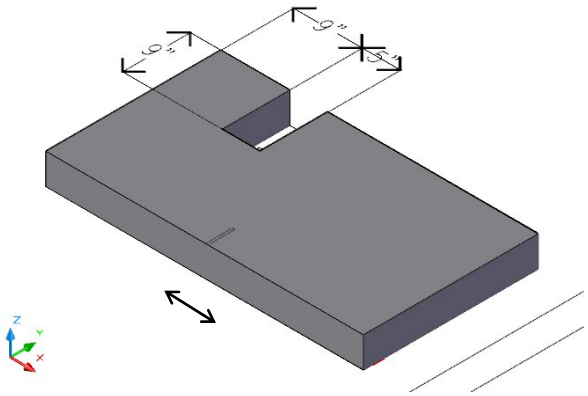
For George Tholl

Masonry Stove Builders

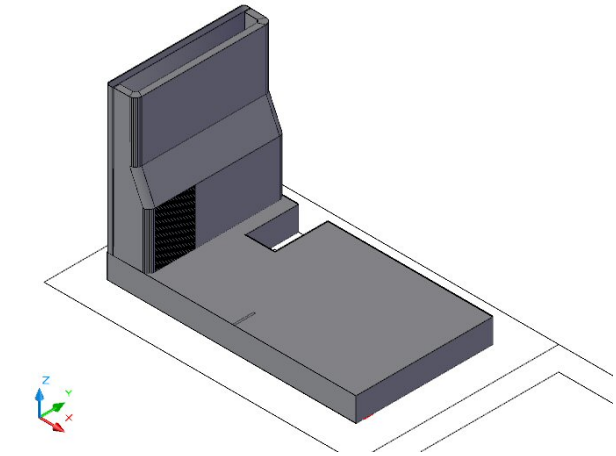
RR 5 Shawville Québec J0X 2Y0
819 647 5092
fax 647 6082
mheat@mha-net.org (Norbert Senf)
www.heatkit.com



Layout



Notch insulating base slab for outside air inlet. You may encounter a ½" rebar, which runs left-to-right near one of the long sides of the slab.



Left base channel. Cut a 6.75" wide opening as shown. (Not shown) also cut a cleanout opening on the right side, in line with the other cutout.

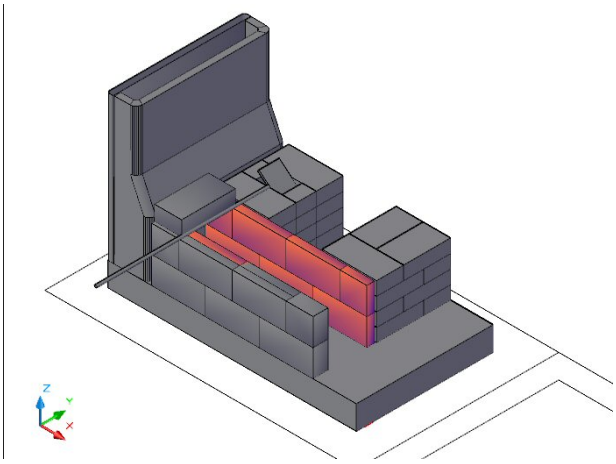
This layout is reversed from a normal kit, and your channels may be marked incorrectly. Normally the large cutouts are premarked.

Note that one of the channels has had some material removed from the inside, at the constriction you will see if you look down the top.

This is the right side channel (not the one shown above. The relief cut on the right channel is required because of the combination of the J-loop and the custom bench.

The right channel also needs a connecting cutout.

It may be marked for a normal heater, also, so make sure the cutout is correct.



(Right channel not shown, for clarity)

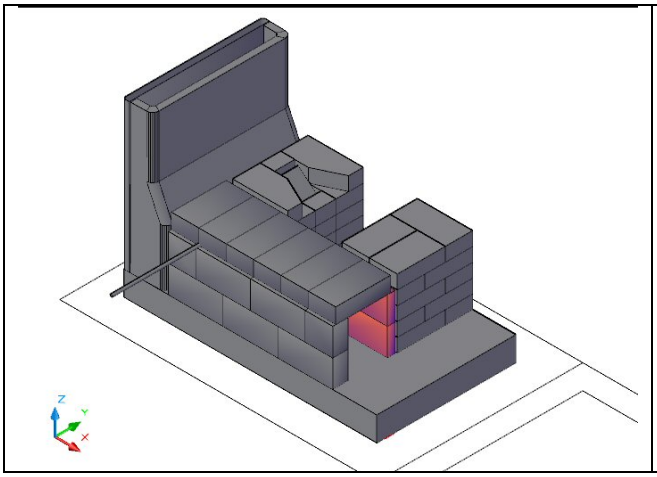
Connecting channel in place.

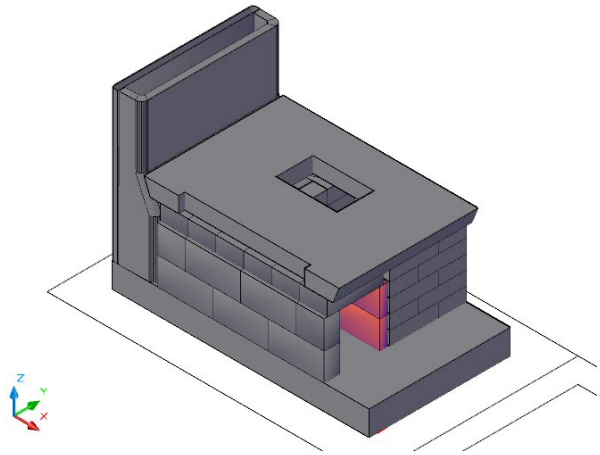
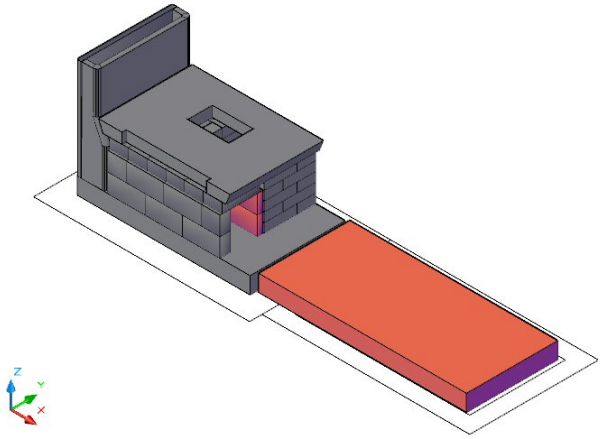
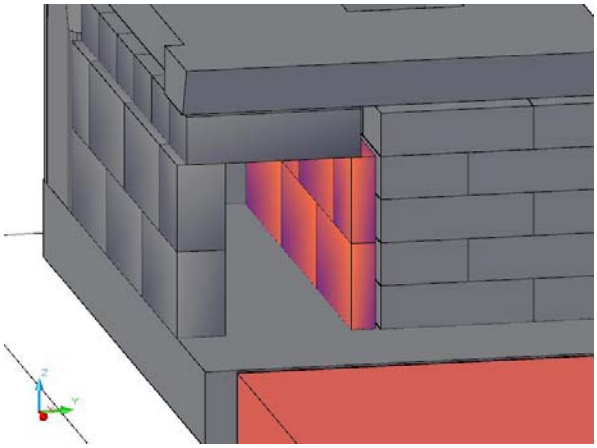
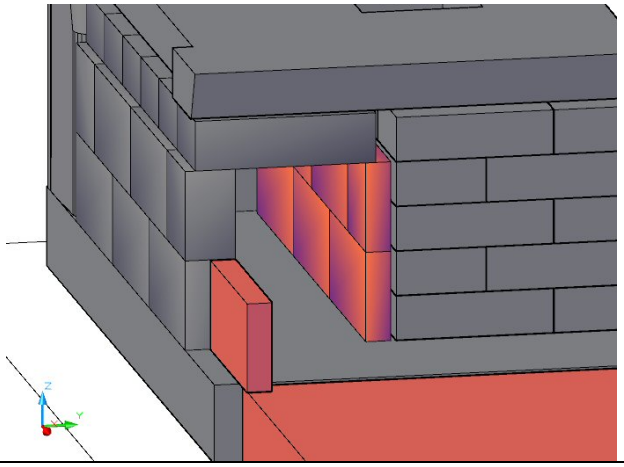
Outside air damper setup is shown.

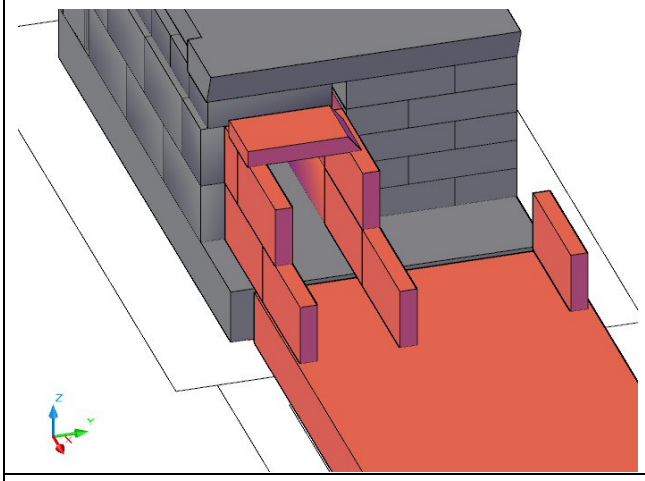
Instructions for the normal slab outside air damper are in this document:

http://heatkit.com/docs/assembly/grade.PDF

The only difference is that the damper is reversed. The damper that was shipped was the normal one – you will need to weld in a piece to extend the handle.

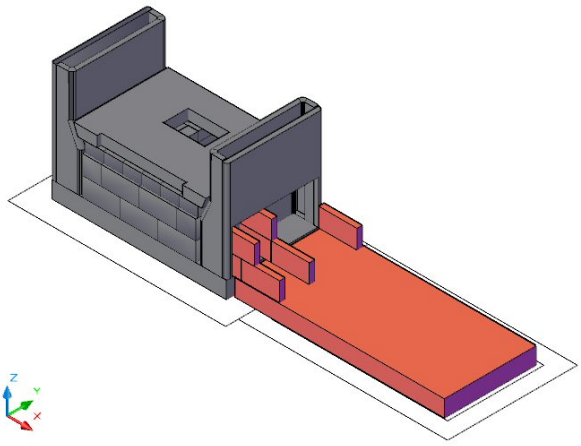


	
(Damper handle is not shown)	Build up to same height as insulating slab. (right channel not shown)
	
Right channel not shown. View of end of connecting duct.	The channel extends through the base channel (not shown)



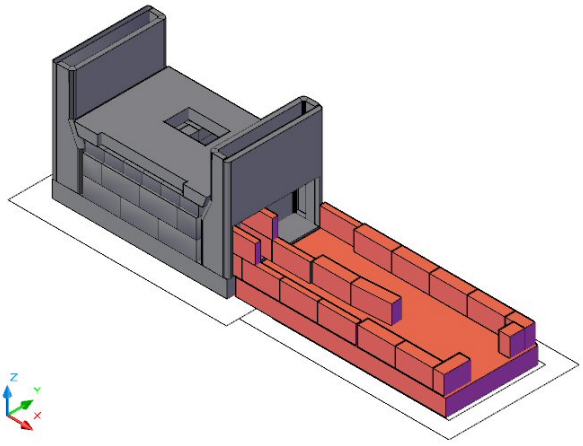
There is a cap brick inside the base channel, to block flow up the channel, and force it through the bench.

A small amount of leakage, 3 sq in. or less, is acceptable and won't hurt.



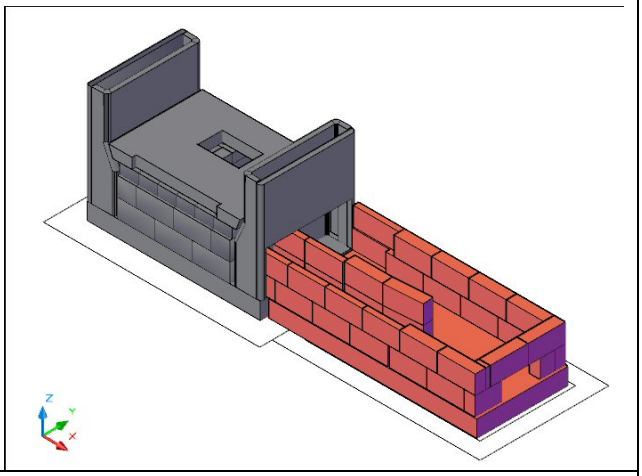
Right channel is shown. Install before doing interior brick work.

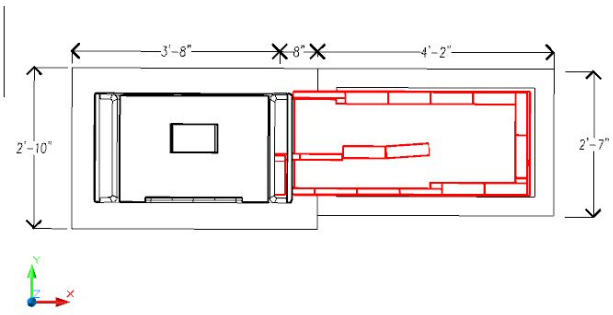
Cutout in channel is 20.75" x 10.5"

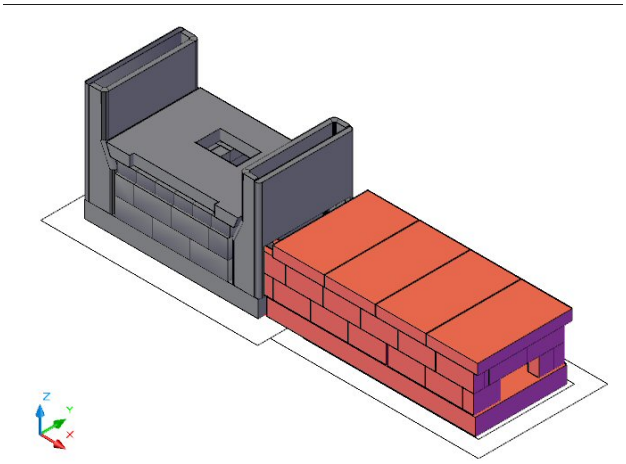
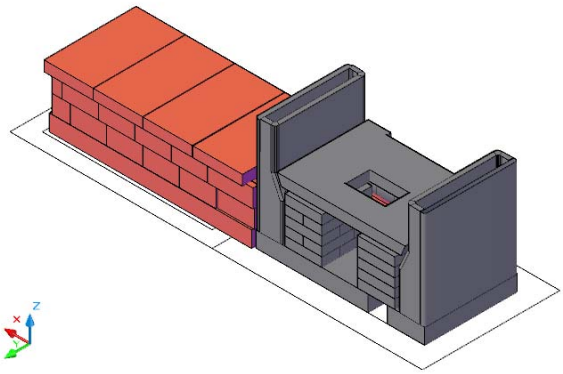


Bench layout. Note cleanout opening at the right end.

Bench is laid out with standard 4.5" x 9" firebricks, and assumes a 2.25" firebrick thickness.





	
The bench is capped off with 12”x24” firebrick slabs, 2.5” or 3” thick.	View from rear.