

Rocket Heater Cooker Ireland '1'



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Welcome! Thank you for downloading my PDF.



I just wanted to tell you a little more about this heater. I live in a 32'x10' dwelling and I have owned 5 different types of conventional stoves in the last 15 years. I used to burn turf, peat briquettes, timber and coal in them. I had to deal with all the residual ash over those years. Although it was nice to have a viewing window to see the fire in the old stoves I am very happy with this new rocket heater set up. I have been using this heater for 12 months and I have no complaints.

Rocket heater pros/cons:

Pros:

- Great heat.
- Sounds great.
- Little ash.
- Easy cooking, top of barrel (chefs cold steel frying pan!) really hot for cooking,
- The top of the firebox has medium cooking heat, under firebox is a medium grill.
- Burns for two/3 hours or more with the correct mixture.
- Could be painted to look like a great home feature.
- I made it.
- Looks cool!

Cons:

- No long-time burn, i.e. overnight.
- Everyone wants one....
- Can get very hot! ☺

Here is some more information about the stove:

Gas bottle:

I used a standard 34 kg Irish gas bottle that I purchased years ago.

Steel:

The in pipe and riser are made from standard 4" box metal. Works fine.

The round riser insulating pipe was made from 4 mill steel. I have learned from you-tube that this pipe does not have to be made from heavy steel as there is no real pressure on it.

Firebox:

I used 2 mill steel for firebox.

I now recommend the firebox sides are made with 4mill steel.

The firebox base should be made from heavier steel. 8-10 mill as the fire sits directly upon it.

Air flow:

The main airflow enters under the front door or the stove. This works best.

Secondary air can also be allowed in when necessary from the lid of the fire box.

If you use my design and make something like I did, you will need to use 15 millimeter threaded steel bar to allow sufficient air in under the front door. My design allows air under the front door through the use of a threaded bar attached to a steel plate. The steel plate also acts as a spark guard. You can also use your own design for regulating the airflow at the front.

Please see videos and pictures to see what I have made.

Out flue pipe:

The flue pipe should be 6". It was recommended to me that if the 'in' pipe is 4" then the out pipe needs to be 6". The out-flue pipe must also be higher than the in pipe for the exhaust to work correctly. My model has the bottom of the flue pipe 3" higher than the bottom of the in pipe and it works fine. Ensure when you are welding the 6" out pipe to the barrel that you don't have too much of it sticking into the barrel as this makes using the vacuum a little more difficult.

Measure and trim before welding it fairly flush to the barrel.

My chimney pipe (straight up) is 6" diameter with a 4" insulated centre. This is what I had and it works fine. I do not think it is necessary to have this pipe insulated.

Essential tools;

The two essential tools I use are:

1. A bent hook type poker (22" long see pic) and is very useful for positioning timber and poking.

2. A long straight rod with a flat steel head at 90 degrees (see pic). My flat part is 3 1/4" x 1 1/2" of light flat steel welded to a long thin round bar with a steel handle I had. It needs to be long enough to reach the back of the in pipe. Mine is 25" including a 4 1/2" handle. This is essential for everyday cleaning as this is used to remove the ash both from the in pipe and the firebox straight out the front door onto a large shovel. It takes less than a minute to clean it out.

Extra:

I have a piece of 4" 3mill flat steel sitting in the length of the in pipe (12"). I felt this was a good idea to protect this surface as sometimes coals float in upon the in pipe surface and may shorten the life span of the in pipe (speculation).

Fuel:

Fire lighters, timber of various sizes, and lots of kindling!!! Wild timber fallen from trees. Cut to suit. Modern compressed fire logs are wonderful. Timber sawdust blocks are also very good.

I do not recommend the burning of oil or oil products as this may shorten the life of the stove.

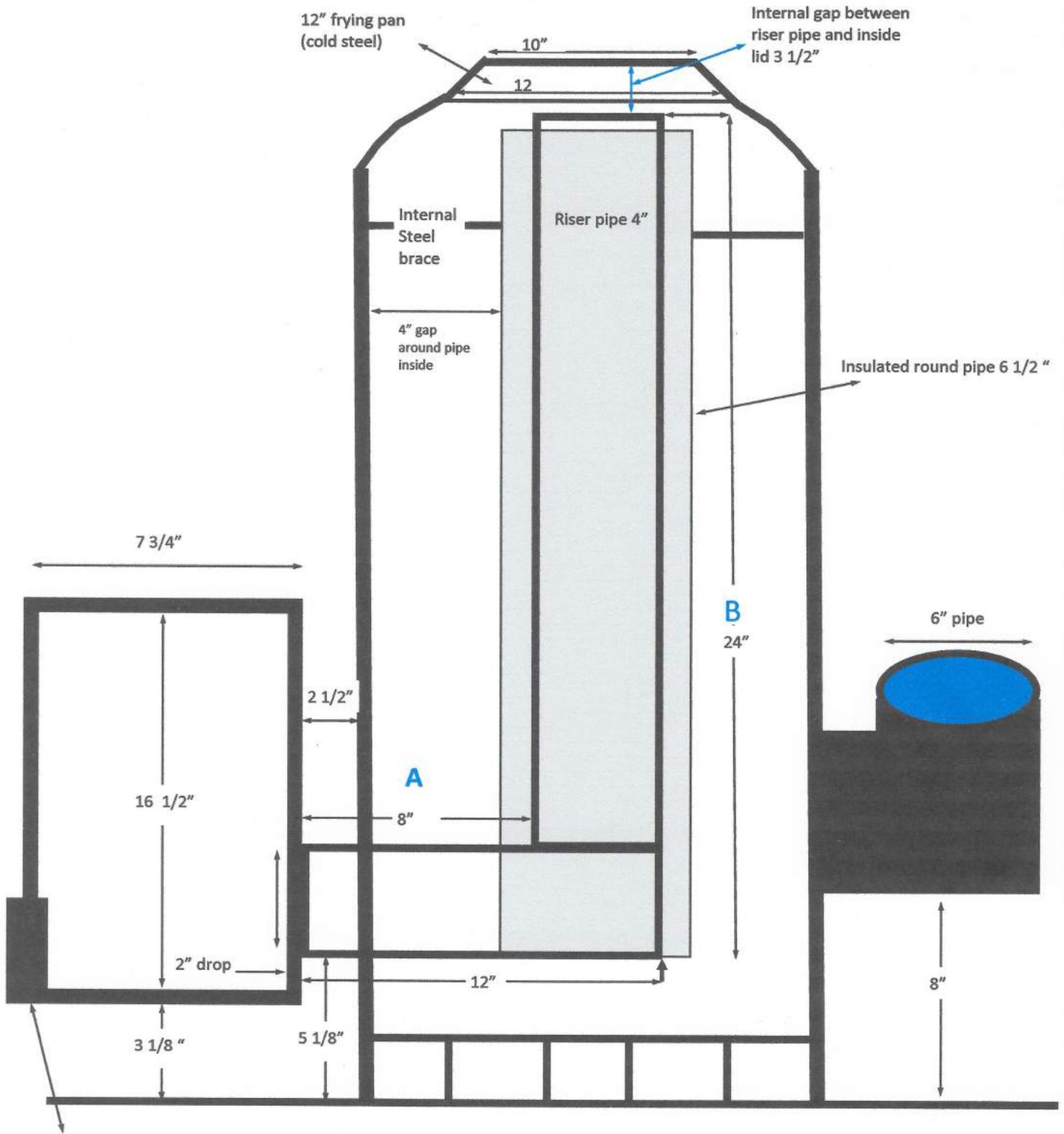
Cleaning;

Ensure when you are welding the 6" out pipe to the back of the barrel that you don't have too much of it sticking into the barrel as this makes using the vacuum head a little more difficult. Measure and trim before welding it flush to the barrel. Simply disconnect it from the flue chimney pipe and poke a vacuum nozzle in and around the bottom of the tank. I recommend that this is done every 6 months if it is in constant use. Usually you are only sucking up paper flakes and light ash.



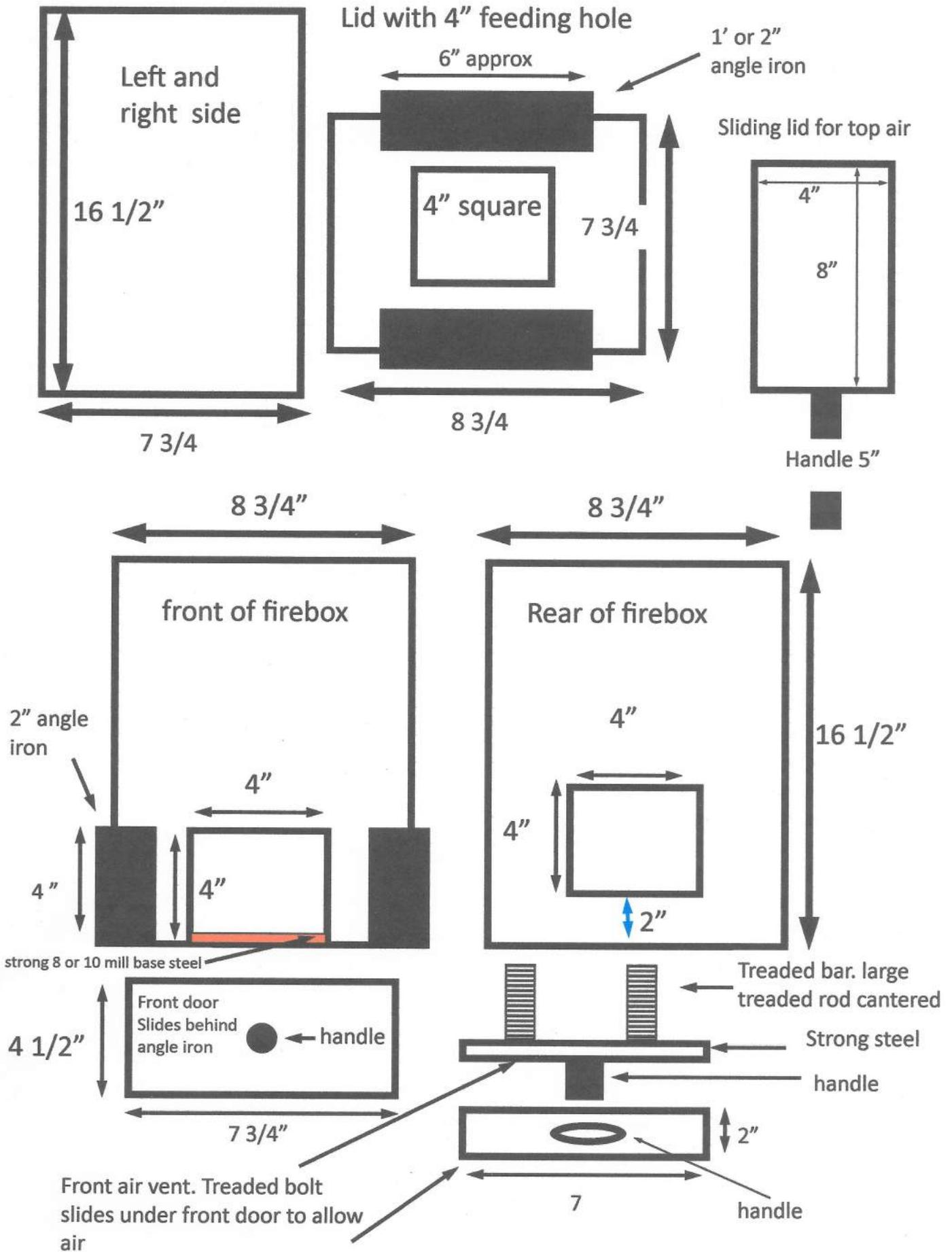


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A and B. A should be 1/3 the length of B length

Fire box construction.



Please watch my two you tube videos to see how it was all put together!

My you tube channel is: 'Irish Celt'.

The two videos are:

1. Rocket heater cooker Ireland: [https://youtu.be/ NRqQb6MZQQ](https://youtu.be/NRqQb6MZQQ)
2. Rocket heater cooker Ireland update 1: <https://youtu.be/hertPjk -lQ>

Please subscribe to my Irish Celt channel as I will be making a mini rocket heater stove soon..

Thank you once again.

I wish you the very best and I hope that you enjoy many years of happiness with your heater-cooker.

Peace be with you.

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