



There is alot to be said for carrying ideas around in your head for awhile.
They are more nearly clear when you do 'em.
I wanted to add to the direct gain through the windows.
The heater came together pretty quickly.

I got the pvc pipe at Lowe's.



And the vinyl sheeting on eBay.



I looked for a brick colored paint
and I wanted something that would stick to the pvc.
I used a spray can or three of 'appropriate paint'. .

I was and remain TOTALLY IMPRESSED with the tape that I used on the 54 inch wide vinyl!

I joined two full width sheets almost 20 feet long.



It was clear duct tape.



Here are some pictures after a winter and a summer



Here is the worst place and it's not bad

The tape is on both sides of the plastic
and is holding well in spite of being under tension
to increase the air space





The heater is held to the house using nylon twine.

I have an inch and a half pipe inside the house lined up with the top of the first floor window and the pipe in the center of the heater.

The twine is strong (break strength 165 lbs) and with a few strings coming in the house, I am still able to close the window tightly.

There are two deck screws in the soffit that keep the top close to the house.

The bottom is in the ground slightly and the weight holds it in place.

There have been some major storms with severe winds in Philadelphia since it went up last September and the heater hasn't budged.

This winter I am going to add some foam between the pipes and the wall on each side. Ideally the basement window should be open to circulate air through the house and the heater and I want as little outside air infiltration as possible.

This year I have a foam box covering the fan in the room. The cover is held shut with magnets when the fan isn't running.

Last winter I took the fan in and out of the window on sunny days. Now the fan will blow the cover open when the air in the heater is warm enough.

The heater is a nice addition to the house (Could be 'nicer', but it was very affordable.) and we had enough sunny days to enjoy it. The heat is circulated by the central heating system to all the rooms in the house through the existing duct work. The house stays at 69 to 72 degrees depending on the wind between 9:30 and 3:30 on the coldest days.