Homebox general instructions

Ok, here is my best attempt at a full set of instructions for any of the “All-in-one Growroom” type kits. These are ‘general’ instructions, meaning that in trying to apply the instructions to all of the kits, fan sizes, ducting sizes, or brand names may not be exactly the same for your particular kit. Please keep in mind that there are probably many ways to put everything together and have it work great, and I’m only telling you one way- my way. Your approach may be better. I have to point out also, that none of these components were made by the same manufacturer. What you’ve got here is a “do-it-yourself” kit, and some basic common sense will need to apply to your installation and use of these products. We’ve built them just like this many times, and they have always worked out well, but if you have any suggestions, please feel free to share them with us at: growco@sbcglobal.net

Good luck! Jay

1. Follow instructions for assembly of Homebox. We’ve got another PDF instruction sheet available online at: http://www.4hydroponics.com/grow_room/homebox.asp
TIP: use some soap or other lube on the top frame corners to ease the stretching of the canvas over the frame.

2. Install included “Dual flange kits” at the average height that the light will be hung for intake and exhaust air to pass through the reflector. Most people would install these on either side of the light in the right and left side of the Homebox, but you can put them anywhere that you need to. Keep in mind the ducting will have to be cut so that you still have room to raise and lower the light. These will connect to your reflector, then to the CAN 4” inline fan (with the included 4” to 6” adaptor) to exhaust all of the heat from the reflector. This is a sealed up system, drawing air from outside the Homebox, passing through the reflector, then out the other side of the unit without ever touching the air inside of the Homebox. If you need to run additional ducting to carry the heat away from the exterior of the Homebox, the CAN fan is powerful enough to do this.

3. The CAN 2600 carbon filter can now be installed. You can use bungee cords, or zip strips (not included) to attach the filter to the back upper frame support inside of the unit, then run the ducting through the ‘sock’ exhaust port, then outside the unit to the 95cfm Squirrel cage fans round opening. The squirrel cage fan is intended to be hung outside of the Homebox from your ceiling with black rubber bungee cords to lessen fan noise and vibration. Once the unit is assembled, this fan will run constantly to keep fresh air flow through the unit, and it will then effectively remove all organic fertilizer odor issues from the air being exhausted. Again, if this fan is running, you should have no fertilizer odor issues. The carbon filter should last for about a year, but under high temperature and high humidity situations, its life could be shortened significantly.
TIP: take the carbon filter out of the Homebox on occasion, and shake it up or roll it around to mix the carbon up a bit. If you ever question the carbon filter’s effectiveness, run it in a very dry or air conditioned area for a while to dry out any humidity that may have “clogged” the carbon up.

4. Now you can hang the reflector and attach its ducting to the two dual flange kits on either side of the unit. You’ll need some chain and “S” hooks in order to hang the light reflector (these are available at any hardware store). You can run ducting from the outside of the unit on both sides as far as you have to. The CAN 4” inline fan is dedicated only to moving air through the reflector. The best place ‘inline’ to install the CAN inline fan is outside of the Homebox, on the cool side, blowing through the reflector. Installing it on the cool side will extend the fan’s life by limiting it’s exposure to the heat from the bulb. You can use the included 4” to 6” adaptor outside of the Homebox to hook the 4” CAN fan to the 6” ducting. This can be attached directly to the fan (with self-tapping sheet metal screws, and a power screwdriver), or to the 6” exhaust flange on the Homebox, or used inline with ducting and screw clamps. In order to create a plant-friendly environment, this fan will need to be running whenever the light is on. This is also the safest way to run the unit as the heat could build in the Homebox if the light is ever on while the fan is not running. If you plug both the light and CAN fan into a power strip, you can then plug the power strip into a timer so they both work together.

(TIP: You can hang the CAN fan using the same bungee cord method as the squirrel cage fan for the carbon filter. Hard mounting the fan to any surface will cause vibration noise through the structure of the house, and the bungee cord will absorb the vibration.)

5. The light can now be plugged into the ballast. There are a couple of power cord Velcro holes in the bottom of the Homebox for your power cords to pass through. The ballast should be outside of the Homebox, away from any moisture and the fabric of the unit, and plugged into a grounded outlet. The timer and power strip should also be 3-prong grounded units. The ballast will get hot while it’s running, so take care in its placement.

We have many more items that could be used to “max” the Homebox out, but this is a good tested and proven way to run it. One suggestion I’ve got for a future purchase would be a “High temp shut-off” for the light in the event of a fan failure. This allows you to set a top temperature that the unit can reach before the light will shut off for a set length of time. Other nice additions would be atmospheric controls, and the addition of a CO2 Boost bucket.

Again, thanks for your business, and please email or call with any questions.
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