



ALL DOME SIZES

16" 115V ELECTRIC COOLING FAN

MATERIALS LIST

The 16" 115v electric cooling fan kit consists of the following:

Fan and thermostat:

- 16" Shutter Fan (Greenhouse Megastore Part #VPES16)
- J & D Single Stage Thermostat with 8 ft. cord (Greenhouse Megastore Part #VC-115C)

Fan Frame:

- 4 – 2 x 4 x 23" @ 45° miter on each end
- 1 – 2 x 6 x 19" @ 45° bevel
- 4 – 2 x 2 x 21" @ 45° miter one end

Hardware:

- 12 – 3" star drive screws
- 8 – 2 1/2" star drive screws
- 8 – 1 3/4" star drive screws
- 20 – 1 1/2" stainless steel screws
- 4 – washers

Glazing:

- Fan hood 24" x 24"
- Left and right sides 24" x 21 1/2" x 17 1/2"
- 3' of 3M 8672 2" tape

BUILDING THE FAN FRAME & CUTTING AN OPENING

The first step in installing the fan is to put together the 2x4 fan frame with 3" star drive screws through the predrilled holes. You should end up with a square frame with internal measurements of 16"x 16".

Hold the fan frame up inside of the dome in the desired location (see chart) but do not push it up between two struts, leave at least 2" clearance on the topside or you will have issues with the fan hood on the outside of the dome. Making sure the frame is level have someone draw around the inside of the frame with a felt marker. Now cut a square hole 1/8" bigger than the marked square.

Panel	Recommended Placement*
15B	8" from bottom
18B	8" from bottom
22 E	2" below B Strut
26 LHB or RHB	10" from bottom
33 LHB or RHB	16" from bottom
42 D or C2	12" from bottom
*Not absolute. Other placement options possible	



Once the hole is cut, have someone outside install the fan with the shutter facing inside. If desired, be sure to get the electrical cord inside the dome at this step. Secure the fan frame by screwing through the glazing from the outside into the fan frame with the 1 3/4" star drive screws. You can now secure the fan in place with 1 1/2" stainless steel screws and washers through the predrilled holes in the top and bottom of the metal frame into the wooden fan frame.

INSTALLING THE FAN HOOD

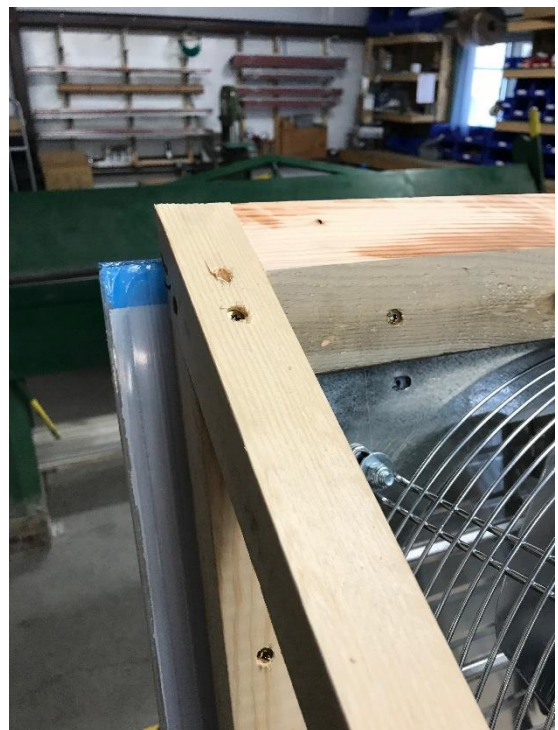


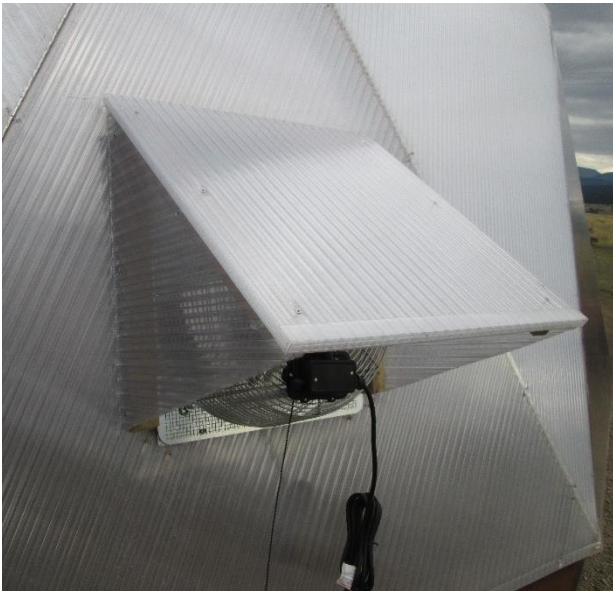
The first step in attaching the fan hood is to screw the 45° beveled 2x6 hood support through the glazing into the 2x4 fan frame with 2 1/2" star drive screws. It should sit at least 1/2" above the top of the metal fan frame.

Next screw two of the 2x2 pieces into each side of the 2x6 hood support with a 3" star drive screw. The cut edge should rest against the glazing, so that the beveled hood support and the long side of the 2x2 are flush.

The second pair of 2x2's attaches underneath the first one, with the beveled edge pushed flush into the open space. Screw through both and into the glazing and fan frame with 3" star drive screws.

Attach 2 1/2" deck screws on the lower 2x2 glazing support.





Now fix the fan hood side triangular pieces (which come in a left and a right) so they are attached to 2x2's with stainless steel glazing screws.

Finally, fix the fan hood top so it contacts the glazing of the dome firmly and overlaps the side triangles by approximately 1/4" equally on each side.

Caulk the seam from underneath as well as the other edge of the side triangle. Put a piece of tape on the junction between the fan hood and the glazing.

The fan has three speeds, controlled by the pull cord on the outside of the dome.

To keep the shutter closed in the cooler seasons, simply screw a square piece of plywood over the shutter and into the fan frame.

Feel free to call if you have any questions 970-731-2120.