



CAD Lights Aquariums

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Artisan II instructions

Congratulations on owning an Artisan Reef Aquarium and welcome to modern reefing. The Artisan Series feature and combines 25 years of custom aquarium building and designing. Using furniture quality materials and design with high performance professional equipment.

Cabinet assembly instructions:

- 1) Lay bottom panel on the floor (this is the piece doesn't have any cut-outs and is solid, with a raised bottom). The long side with multiple holes is the back.
- 2) Locate and place the left and right panels and match them to the pre-drilled holes of the bottom and back panels. Using the heavy duty 5/16" Phillips head screws, drill them into the pre-drilled holes. The side with more holes is the back side, the side with less holes is the front side.
- 3) Assemble the back panel. Back panel is made up of 2 pieces. Bottom of back panel has no holes, top of back panel has elongated round cut-outs. Match and insert the wooden rods on one of the edges of the panel into the other. This makes the whole back panel. The cut-outs should be on the upper side. Using the heavy duty 5/16" Phillips head screws, drill them into the pre-drilled holes.
- 4) Locate the top panel. This panel has a trapezoid cut-out in the middle back. Place this panel on top of the sides and back panel. A portion of the top panel will also slide into the corresponding panels. Using the heavy duty 5/16" Phillips head screws, drill them into the pre-drilled holes. [NOTE] when drilling the top screws, use a Medium or Lower setting of your drill to prevent the compressing of the paint edges of the panel. Make sure the screw head is at least flush or just below the surface is perfect.
- 5) Take the doors and screw in all of the hinges onto the pre-drilled bored holes.
- 6) Drill in the left and right doors onto the inside of the left and right panels.
- 7) Place sump inside the cabinet prior to installing 1st I-beam.
- 8) For [50G, 70G, 100G] Close 1 door and slide in the door stopping I-Beam (I-beam #1). Slide I-Beam until it is 1/2 way behind the 1st door. Open door and drill in the I-Beam in that exact location. There are NO pre-drilled holes, so you just screw them right in when it is in the correct position using the thinner long screws. There is only 1 front I-beam for these 3 models.

- 9) For [125G, 165G] since there are multiple I-beams, the center set of doors must be drilled into the middle I-beam (I-beam #2) first and then put it in place. Slide left or right until it is even with the other doors. Then GENTLY open the doors and drill in the center I-beam (I-beam #2). As the cabinets are longer, there will be more I-beams such as 125G has 2 front I-beams and the 165G has 3. There are NO pre-drilled holes, so you just screw them right in when it is in the correct position
 - A) [125G, 165G] Extra weight bearing I-beams. You will notice there are a few extra I-beams. These are to provide extra support for the aquarium. Place the I-beams against the back wall right under the cross braces on the underside of the top panel by the cut-out hole. Screw them in top and bottom. There are NO pre-drilled holes, so you just screw them right in when it is in the correct position
- 10) Remove the ribbed plastic wedge and push into the small hole by the underside top of the door. Locate the “Metal plate” and using 1 small screw, drill it into the ribbed plastic wedge. This metal disc magnetically attaches itself to the spring which also has a corresponding magnetic tip.
- 11) Magnetic door stop bracket. Twist bracket and pull off the magnetic spring. Hold the bracket against the I-beam where it aims directly into the “Metal plate” on the underside of door. Using the small screws in the packet, drill in the bracket at that specific location.
- 12) Then snap back the magnetic spring into the bracket.
- 13) Take the colored (Black or White) plastic screw covers and push into each of the screw holes on the exterior of the cabinet, then using a rubber mallet tap them into the screws.
- 14) Adjusting the Euro is quite simple. Using the 2 screws on the inner hinge, you can adjust the angle of the door to go inwards or outwards. When applied to all of the Euro hinges, you can now make the doors move in multiple directions to your preference. [NOTE] always make sure that the tank, cabinet, equipment is all installed and that it is all Leveled before adjustment of the Euro hinges. This should be the last step of installation.

[CLEANING TIPS] the Artisan cabinets are all Lacquer painted finishes and are easily cleaned using water, paint safe detergents as well as rubbing alcohol. If you see any stains, you can use those mentioned above and paper towels.

Plumbing installation:

- 1) Put black foam mat on top of cabinet and put tank over it. Make all sides flush and feel free to trim any excess. Be careful not to scratch the cabinet surface.
- 2) Go inside the cabinet and cut the bottom of the rubber mat (the area where the rubber mat is covering the tank holes)
- 3) Now take the drain fitting set (Durso) unscrew the bottom part of the bulk head fitting, place one rubber gasket on one side of the fitting. Place into hole and place the other gasket on the underside of the tank where the fitting comes out. With rubber gaskets on the inside and outside of the tank, you can now screw in and hand tighten the bottom part of the bulk-head fitting. **Do not under or overtighten**, if you have tightened it where the rubber gasket is squeezed out of the fitting, then it is over tightened and you need to loosen a little until the gasket is back inside the fitting (flange). **[Optional Herbie drain style, look to #9]**.
- 4) Repeat the same to fasten the return line. Then take the linked return line and screw into the female grey elbow.

- 5) Repeat the same to fasten the emergency drain line.
- 6) Using SCH40 pvc glue, you can now glue the return line hard pipes as shown in the pictures.
- 7) Attach the flexible tubing onto the emergency drain and into the skimmer chamber
- 8) Attach the other flexible tubing from the pumps male adapter to the adapter of the return fitting.
- 9) [Optional Herbie]: The Artisan II systems have a built in Hybrid of Durso and Herbie drain systems, which means you can switch to either one even while the aquarium is running. To utilize the Herbie drain system, you need to first shut off the pump and make sure the water has stopped. Then gently remove the “T”, cap, down facing elbow (which is usually one piece). By now it should be just the standpipe alone. Now go inside the cabinet and locate the ball valve. Having it at fully opened, turn the valve to the closing direction 1/8 of an inch. Wait 10 minutes or so or when the water level in the overflow box has stayed consistent. Keep making these 1/8” turns and waiting 10-15min in between for water level in the overflow box to stabilize until the water level is between the top of the overflow and the top of the standpipe. This Herbie drain method uses solid water (no air vent or gurgle) siphoning which gives you the total silence that Herbie drains are famous for. The 3rd pipe which is the emergency drain normally should be out of water and inactive, in the event that you have overturned the ball valve and the drain isn’t fast enough, the emergency drain will start sucking water and making a loud noise. If you hear or see this happening, make sure to go and open up the valve ASAP as this means the drain isn’t fast enough.

Equipment layout

- 1) Place protein skimmer into first chamber. Chamber that is next to media chamber
- 2) Place pump into the last chamber. This section is the opposite side of the skimmer chamber in the last.
- 3) Clamp on dimmable refugium LED light on top of the refugium area.

Glass canopy installation:

- 1) Slide in 2 of the plastic holders onto the front and back of each of the glass cover panels. Then lay the glass canopies on the inside of the tank. They should recess in nicely.