

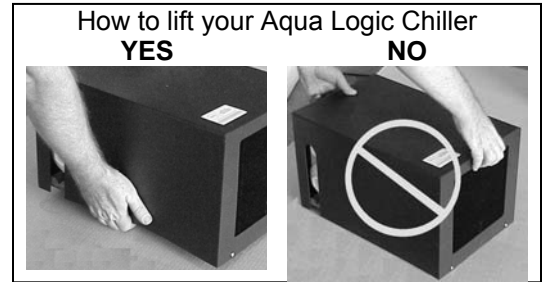


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Quick Install for your Aqua Logic Delta Star Chiller

Unpack your Delta Star chiller:

- Carefully remove the chiller from the box by reaching underneath the chiller and lifting it by its base. NEVER lift the chiller by its cover to avoid personal injury or damage to the chiller (See illustration).
- Use a Phillips head screwdriver to remove the two screws on opposite ends of the cover.
- Lift the cover from the unit.
- Remove the cardboard collar from the top of the compressor.
- Make sure that the fan assembly does not contact condenser (radiator).
- Inspect the unit for possible shipping damage. (If damaged, refer to the damage claims instructions on the shipping container.)
- Unwrap the power cord and extend it through side notch in cover.
- Replace the cover and use the Phillips screwdriver to reattach the four cover screws.



Place your Aqua Logic water chiller:

- Place the water chiller on a sturdy flat surface.
- Make sure that the unit is resting on its base to avoid damage.
- Place the unit so that it has good ventilation through the unit. For best results, allow at least 6 inches of free space in front of the unit and 12 inches behind it. Do not mount the unit so that heat from other equipment (such as a pump) is drawn through the chiller.
- If you place the chiller in a cabinet, allow at least 1/2" of space between the chiller and the walls of the cabinet to avoid vibration and noise.
- Do not install the chiller in a closed closet or cabinet.



Delta Star Interior View

Delta Star Plumbing:

- Your Aqua Logic flow-through chiller requires an external water pump (not supplied) for proper operation.
- The chiller should be the last piece of equipment in the plumbing before the water is returned to the tank or sump (after pump and filters).
- Use male-pipe-thread (mpt) fittings of the diameter below to connect your chiller to your system. Use the same or larger diameter pipe or hose for your plumbing for best water flow.
- We suggest installing unions and ball valves (not included) on the inlet and outlet of the chiller for easier installation and removal of the chiller from the system for maintenance or repair (if necessary).
- Be sure that the water flow through your Aqua Logic chiller goes into the water inlet (bottom) and out the top to prevent potential damage (see illustration).
- If you use flexible hose to plumb your system or connect your chiller, make sure that the hose is not kinked to prevent restricted flow and potential damage to your chiller.
- Avoid elbows in your plumbing to minimize flow loss through your system.
- For most efficient operation, we recommend the minimum and maximum flow rates listed below for each model.
- Do **NOT** operate the chiller without adequate water flow.



Placement of power cord



Delta Star Air Flow

Electrical Hookup:

- We suggest using a dedicated power circuit for best operation and longest life of the chiller. The circuit must be rated to handle the maximum load of the chiller.
- We highly recommend that you use a ground-fault interrupter (GFI) to avoid electrical shock. You can obtain an inline GFI from Aqua Logic, a local tropical fish store, pond shop or hardware store if the outlet in the wall does not have a GFI installed.
- Avoid using an extension cord on your chiller.
- Using a controller:
 - If you use a controller on your Aqua Logic chiller, follow the instructions included with the controller to install it.
 - Make sure that the controller is rated to handle the maximum current load of the chiller.
 - Install the sensor for the controller "upstream" (ahead) of chiller.
 - Make sure the controller is unplugged from the wall outlet.
- Plug the chiller into the controller.
- Plug the controller into the wall outlet.
- Program or adjust the controller to your desired temperature.



Water Outlet & Inlet

Register your Chiller:

- Please mail in your registration card or register online at www.aqualogicinc.com.

Your Aqua Logic chiller is now installed and ready for operation!

Model	In/Out (inch)	Min-Max Flow Rates (gph)	(gpm)
DS-1	3/4"	180-600	3-10
DS-2	3/4"	360-720	6-12
DS-3	3/4"	480-800	8-15
DS-4	3/4"	600-1200	10-20
DS-5	1 1/2"	720-1500	12-25
DS-6	1 1/2"	720-1500	12-25
DS-7	1 1/2"	900-1800	15-30
DS-8	1 1/2"	900-1800	15-30
DS-9	1 1/2"	1200-2100	20-35
DS-10	1 1/2"	1500-2400	25-40

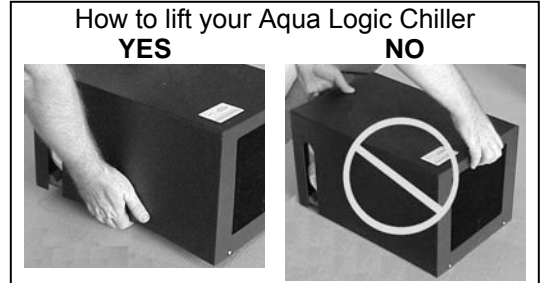


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Quick Install for your Aqua Logic Cyclone Chiller

Unpack your Cyclone chiller:

- Carefully remove the chiller from the box by reaching underneath the chiller and lifting it by its base. NEVER lift the chiller by its cover to avoid personal injury or damage to the chiller (See illustration).
- Use a Phillips head screwdriver to remove the screws on both sides of the cover.
- Lift the cover from the unit.
- Remove the cardboard collar from the top of the compressor.
- Make sure that the fan assembly does not contact the condenser (radiator).
- Inspect the unit for possible shipping damage. (If damaged, refer to the damage claims instructions on the shipping container.)
- Unwrap the power cord and lay it beside the heat exchanger hose.
- Replace the cover and use the Phillips screwdriver to reattach the four cover screws.



Place your Aqua Logic water chiller:

- Place the water chiller on a sturdy flat surface.
- Make sure that the unit is resting on its base to avoid damage.
- Place the unit so that it has good ventilation through the unit. For best results, allow at least 6 inches of free space in front of the unit and 12 inches behind it. The condenser (radiator) is at the front of the chiller (just like most cars).
- Do not mount the unit so that heat from other equipment (such as a pump) is drawn through the chiller.
- If you place the chiller in a cabinet, allow at least 1/2" of space between the chiller and the walls of the cabinet to avoid vibration and noise.
- Do not install the chiller in a closed closet or cabinet.

Cyclone Cooling Coil Placement:

- The cooling coil may be placed in a wet/dry sump, tank or pre-filter. The illustration to the right shows correct placement in the water.
- Make sure that the coil must **always be** completely immersed in water to avoid damage to the coil or the chiller. Install the coil at a slight angle to maximize water contact with the coil (See illustration for details).
- Make sure that all portions of the black the flexible hose remains out of the water at all times.
- Do not kink the flexible hose and do not bend the hose smaller than a 12" diameter.
- For most efficient operation, we recommend the following minimum and maximum flow rates in the table below for each model.
- Do **NOT** operate the chiller without adequate water flow.

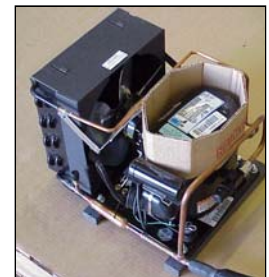
Electrical Hookup:

- We suggest using a dedicated power circuit for best operation and longest life of the chiller. The circuit must be rated to handle the maximum load of the chiller.
- We highly recommend that you use a ground-fault interrupter (GFI) to avoid electrical shock. You can obtain an inline GFI from Aqua Logic, a local tropical fish store, pond shop or hardware store if the outlet in the wall does not have a GFI installed.
- Avoid using an extension cord on your chiller.
- Using a controller:
 - If you use a controller on your Aqua Logic chiller, follow the instructions included with the controller to install it.
 - Make sure that the controller is rated to handle the maximum current load of the chiller.
 - Install the sensor for the controller "upstream" (ahead) of chiller.
 - Make sure the controller is unplugged from the wall outlet.
 - Plug the chiller into the controller.
 - Plug the controller into the wall outlet.
 - Program or adjust the controller to your desired temperature.

Register your Chiller:

- Please mail in your registration card or register online at www.aqualogicinc.com.

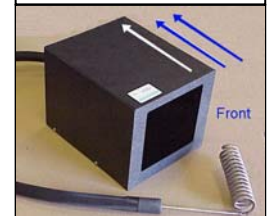
Your Aqua Logic chiller is now installed and ready for operation!



Cyclone with cover removed



Cyclone Chiller Ready for Installation



Cyclone Chiller Air Flow



Suggested Coil Placement

Model	Min-Max Flow Rates	
	(gph)	(gpm)
CY-1	180-600	3-10
CY-2	360-720	6-12
CY-3	480-800	8-15
CY-4	600-1200	10-20
CY-5	720-1500	12-25
CY-6	720-1500	12-25