



Bubble Wall Installation and Operating Instructions

General Information:

The bubble walls are supplied assembled and ready for installation

Additional components including air pumps and power supplies for the LED lighting that are to be located away from the wall are supplied in a separate box.

Unpacking:

The bubble walls are carefully packed and crated for shipment. When unpacking the crate, and when unwrapping the individual components, care should be taken to prevent damage to the assemblies within.

If any shipping damage is identified to either the crate, and/or to the assemblies, please photograph the damage and contact Oceanariums, LLC for further instructions.

When handling the walls, take care not to knock the air fittings. Also take care not to scratch the acrylic surface of the walls.

Set-Up:

Installing the Wall

1. The walls are designed to be mounted behind a flat surface, with the wall standing on a solid support, using the feet bonded to the wall.
2. The wall should be held against the opening in the flat surface by fabricating brackets that can be screwed to the flat surface and can locate on the rear of the wall.
3. The wall is designed to be mounted with the clear acrylic bubble wall side facing out through the opening

4. Install the air pump to each wall by placing it in a convenient location and connecting sufficient air line cut from the spool provided between the outlet on the air pump, and the inlet on the check valve already connected to the wall. Ensure that there are no kinks in the air line. Connect the power lead to an available socket.
5. Where available, the air flow can be adjusted by turning the control knob on the air pump.

Filling the Wall

6. Fill the bubble wall with water, through the hole in the top of the wall, making sure that the water flows into the wall. It is recommended that distilled water be used to prevent the formation of mineral deposits in the wall.

Do not over fill. Keep the maximum water level at least 6" below the top of the wall until the air pump has been connected and is running otherwise the water in the wall could spill over. It is OK to initially fill with tap water. Topping off should only be done with distilled water.

Connecting the LED's

7. While connecting the LED lights is straight forward, this should be performed by a competent electrician.
8. The 12 VDC power supplies can operate in excess of 20 ft of LED strip each.
9. The walls are normally supplied with pigtails terminated in un-crimped crimp connections.
10. The wall is capable of operating in Blue, Green and Red colors and any combination of these. White light can be generated by connecting all three colors at the same time.
11. Each crimp connection is labeled Power, Blue, Green or Red
12. The power supply has a male connector. A mating female connector is supplied
13. To connect a single wall, connect (solder) the Power wire from the wall to the center pin of the connector (short tab). Then connect (solder) the wire labeled with the desired color, or multiple wires of the desired colors to the outer contact (Long tab).
14. If necessary, the desired length of 4-wire cable can be cut from the spool provided and run between the power supply and the LED's

15. When connecting multiple walls to a single power supply, the connections should be made in parallel. Take the wire (or extension cable) from each wall and connect all of the live wires to the center contact, and all of the desired colored wires to the outer contact.
16. Where LED Controllers are supplied, please refer to the installation and wiring instructions supplied with controller.

Routine Maintenance:

DO NOT CLEAN THE ACRYLIC WALL WITH CLEANERS CONTAINING AMMONIA (WINDEX...)

The bubble wall is largely maintenance free.

As required by evaporation, the bubble wall will need to be periodically topped up. It is strongly recommended that distilled water be used for top up to prevent the formation of mineral deposits in the wall. Top up is performed by simply pouring, or pumping the necessary volume of water into the top of the wall. Take care to ensure that the water does not spill over the wall.

Operation:

The bubble wall will begin to operate as soon as the assembly is filled with water, and the unit is plugged into a power supply.

Adjustment of the air flow is achieved by turning the valve mounted on the air pump.

LED lighting is continuously on. To turn off the LED lighting, disconnect the power supply at the outlet.