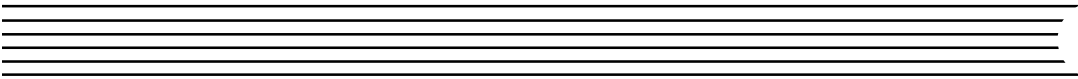


Owner's Manual
Direct Line Fountains



DesertRain
FLOATING FOUNTAINS

Installation

The Direct Line Floating Fountain system has a fire hose attached at your existing pump that runs out to the float and is attached to the nozzle.

Benefits and Applications:

- Least expensive way to add a fountain to your waterscape. No pump, no motor.
- No additional electricity required. (Uses the already existing work of your pump)
- No electrical cables in the water
- Easy to install

Installation is easy and should take about two hours. Read completely through the literature before beginning installation.

Installation Instructions:

FLOATS

The two floats bolt together easily by attaching the joiner plates onto the top of the floats. The stainless steel joiner plates are pre-punched and all necessary hardware is enclosed. The Desert Rain embossed sides face up, rounded edges face up, square edges are down. For Large Direct Lines, your floats and frame come fully assembled.

CROSSBAR

The crossbar is the long stainless steel bar that bolts easily into the brass inserts on the bottom (square edges) of the float with the enclosed hardware.

NOZZLE

The nozzle hand screws onto a supplied PVC pipe which goes through a pre-punched hole in the crossbar. Use Teflon tape only. Do not use pipe dope compound. Be careful not to cross-thread and hand tighten only.

HOSE

Allow enough hose length to follow the contours of your lake bottom. When you initially install the hose it is full of air and will float. When the unit is started it will fill with water and sink. Better too long, than too short. Attach the fire hose or hi-pressure hose first to the fountain, then to the fill pipe. Hand tighten the hose coupling to the PVC pipe on the crossbar and secure with stainless steel clamps. All of the necessary hardware is included in the box. Float the fountain out to your final position leaving your other end of the hose secured on shore. When the fountain is positioned, anchor, return to shore and attach the hose to your fill pipe.

ANCHORING

When anchoring the fountain in place, use one concrete block on two lengths of rope which are tied to the crossbar of the fountain. Rope length should be twice as long as the depth of the lake. Leave some slack in the rope to allow vertical movement of the fountain as water levels change. An alternate method is to stake the anchor ropes at opposing shorelines. Conceal the anchor line from view by hanging several weights on a dark colored anchor rope.

LIGHT FIXTURES

DO NOT connect 220 volt power to lights as it will instantly damage the lamps. DO NOT operate lights out of water, overheating will ruin the lamp and/or shatter the glass lens. The light fixtures are mounted on swivels to adjust the direction of the beam. Two hex head mounting bolts allow lights to be removed from the water for lamp changes. It is critical to keep the inside of the fixture dry.

SPEC SHEET

Small Direct Line Floating Fountains

FLOAT

Two Piece Polyethylene Float System. Roto-cast molded with threaded brass inserts. 36" OD, 18" ID, 4" Height. Extremely durable.

FRAME

304 stainless steel, pre-punched for easy assembly. All hardware is stainless steel to prevent corrosion.

NOZZLE

Solid Brass to prevent corrosion and erosion. Solid brass is used for durability and strength. Customer choice of Trumpet or Three-Tier.

DISCHARGE HOSE

250 PSI Test MIL spec hose, available in 2", 3" and 4" in 50' increments.

PLUMBING

All schedule 40 and schedule 80 PVC. Swing check valve included.

OPTIONAL EQUIPMENT

INTAKE SCREEN

304 Stainless Steel to prevent clogging and damage, easy to clean, rustproof. 4-1/2 square foot, 1/8" holes on 3/16" staggered centers.

LIGHTS

UL listed underwater bronze cast lights, thermally protected

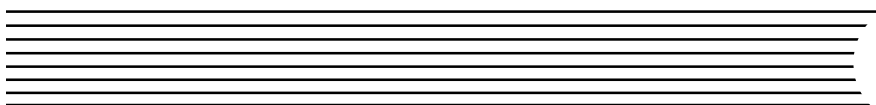
LIGHT ELECTRICAL CABLE

PVC Double-jacketed heavy duty TW submersible light cable

LIGHT SPLICE

Permanent underwater splice to prevent underwater wire connector problems. No leaks, nor corrosion, no shorts.

LIGHT CABLE MAXIMUM RUN			
Lights	2 x 250 Watt	2 x 500 Watt	2 x 1000 Watt
Amps	4.17	8.33	16.67
#10/3	500	280	140
#8/3	920	460	230
#6/3	1450	730	360



SPEC SHEET

Large Direct Line Floating Fountains

FLOAT

Compartmentalized Polyethylene Float System. Roto-cast molded sections with threaded brass inserts, stainless steel hardware. 48" OD, 32" ID, 10" Height. Extremely durable, fully adjustable, stable, with ballast fill plug 3/4".



FRAME

1-1/2" x 1-1/2" x 1/8" 304 stainless steel, welded and all hardware is stainless steel to prevent corrosion.

NOZZLE

Solid Brass to prevent corrosion and erosion. Solid brass is used for durability and strength.

PLUMBING

All schedule 40 and schedule 80 PVC.

HOSE

250 PSI Test Single Jacket MIL spec hose. Available in 2", 3" and 4" increments of 50'.

OPTIONAL EQUIPMENT

INTAKE SCREEN

304 Stainless Steel to prevent clogging and damage, easy to clean, rustproof. 4-1/2 square foot, 1/8" holes on 3/16 staggered centers.

LIGHTS

UL listed underwater bronze cast lights, thermally protected

LIGHT ELECTRICAL CABLE

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FLOATING FOUNTAINS

To extend the life and enjoyment of your fountain, we recommend:

- **Adequate water flow for the display**

Keeping your water clean will keep your fountain clear of debris, mineral deposits, plant deposits, and other water flow restricting elements. If your water is challenged with these environmental problems, periodically check your fountain for debris hazards, plant and mineral build ups. Cleaning of the intake screen and nozzle is easily done with a wire brush without removal of the fountain. Some nozzles are adjustable and may need to be fine tuned from time to time. This can be done from a boat without removal of the fountain from the water.

COMMON SIGNS: Your fountain is shrinking in size or displays unevenly.

YOU NEED TO: Turn the fountain off at the disconnect, and call for technical support 1-800-899-2565.

- **Balanced Floats**

Keeping the floats balanced will keep the fountain display balanced. Your floats should sit approximately 1 inch above your water line evenly. The large direct lines are ballasted and may need to have water or air added to balance the fountain. The small direct lines are sealed and may have broken loose from one of the anchor ropes. If your fountain disappears, it has sunk because it needs more air most likely caused by a temperature drop and is sitting on the bottom of the lake and probably still running.

COMMON SIGNS: Your fountain is tilted, displays unevenly, or disappears.

YOU NEED TO: Turn the fountain off at the disconnect, and call for technical support 1-800-899-2565.

- **No Fishing Near Fountain or Electrical Cable**

Fishing hooks can damage the wire casing creating electrical leaks into the water.

- **Lighting Maintenance**

The lenses of the lights will need to be cleaned periodically to remove film. Bulbs last for about 2 years and will need to be replaced with submersible same voltage and wattage lamps. The lights are water cooled, so running them on land will indeed burn them up.

COMMON SIGNS: Lights seem dim, dull or out of balance.

YOU NEED TO: Replace bulbs with same size and style.

- **Troubleshooting & Repair**

For repair service, call us directly 1-800-899-2565 for technical help and we'll be happy to assist you.

TECHNICAL SUPPORT AVAILABLE AT 1-800-899-2565