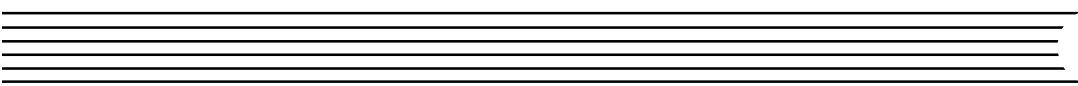


Owner's Manual
Traditional Fountains



DesertRain
FLOATING FOUNTAINS

Installation

The traditional fountain has a Grundfos pump and motor hung horizontally on the stainless steel frame supported by durable adjustable polyethylene floats with a solid brass nozzle centered inside the float assembly floating in the lake with PVC jacketed submersible electrical cable spliced with permanent underwater materials at the motor and connected in a shore-mounted control panel which houses GFI protection, surge protection, circuit breakers, thermal overload protection and the motor starter.

All Desert Rain Traditional Fountains include a factory supervised installation. This is to insure long-term customer satisfaction with your fountain. When you've made the decision to purchase the best, call us and we'll get the process started for you. It's work on our end, not yours. This is an example of how it works:

1. You call 1-800-899-2565 and let us know what you want in a fountain. Just describe what you're trying to accomplish.
2. Let us know of any budget constraints, environmental issues, activities in the lake (fishing, swimming, etc.) that we need to work with.
3. We'll create an estimate for the fountain based on your information and fax it back to you.
4. It's now time to call in a local licensed commercial electrician to evaluate your electrical needs or you may call the electric company and have a meter put in special for your fountain. On the next page, is a letter for the electrician and/or electric company that has amps required and other information.
5. Fax the completed letter to us at (407) 886-3939.
6. We'll evaluate the electrical information on the fax and make any adjustments to the estimate that are necessary and fax a revised estimate to you.
7. You sign the estimate confirming your order of your Desert Rain Fountain and fax back to us.
8. We start building your custom fountain, meanwhile, you need your electrician or electric company getting your run done for you before your fountain arrives. You will also need a trench dug with a 3" PVC pipe in place for the electrical cable from the control panel location to the lake's edge.
9. We will ship your fountain and be there shortly after it arrives to supervise the installation.
10. You will need to provide 2-3 laborers to do the work of the installation, a boat, and a licensed electrician to do the electrical hook-ups.
11. We will supervise and sign off on your invoice for your 1 YEARSPARTS & LABOR WARRANTY.
12. Congratulations, you're fountaining with Desert Rain!

ELECTRICIAN/ELECTRIC COMPANY LETTER

Have you ever noticed that some fountains need a motor replacement after a short period of time? The main reason a fountain motor needs to be replaced is because there is a voltage drop to the motor. Replacing the motor doesn't fix the problem. The motor will need to be replaced again and again. Providing adequate electricity to the motor by doing proper electrical calculations before the fountain goes in is how you insure a long motor life.

If you are replacing an old fountain, the electrical calculations still need to be done, especially if you are replacing a fountain that has had motor replacements in the past.

If you are having a new meter installed for the fountain, don't skimp on the electrical wire size on the run from the meter to the expected fountain controls location. Skimping on that wire size will just increase the wire size you need for the controls to fountain run.

Desert Rain deliberately over cables our fountains by one size compared to NEC standards because these standards are based on electrical cable in the air not in the water laying next to earth. Our cable is PVC jacketed and designed for in water use and is not to be direct buried, use PVC conduit for land runs to lake edge.

Information Desert Rain needs from your Electrician:

- 1) Voltage & phase available: _____ Volt ____ Phase
- 2) Amps available
(amps provided for by meter minus existing equipment amp use)
_____ Amps Available
- 3) Fountain and light amp requirements
(Pump Amps + Light Amps on charts) _____ Amps Needed
If amps available are less than amps needed, another power source is required.
- 4) Determine the wire size of the cable running from the meter to where the fountain controls will be located. _____ Meter Cable Size
If less than a #10 wire, a new electrical run will be required from the meter to the fountain controls location.
- 5) Distance from meter to fountain controls _____ Meter to Control
- 6) Distance from controls to fountain _____ Control to Fountain
- 7) Please sign and fax this information to Desert Rain at (407) 886-3939

Electrician's Signature _____ Date

Electrician's Name

Electrician's Phone

Electrician's License Number

JOB INFORMATION	
Contact Person _____	
Company Name _____	
Shipping Address _____	
Day Phone _____ Evening Phone _____	
Fax _____ Email _____	
Fountain Information _____	

5 - 15 hp Traditional Amps & GPM Specs				
Traditional Fountain	Volt	Phase	Amps	GPM Max
5 hp	230	1	27.5	275
	208	3	19.1	
	230	3	16.6	
7.5 hp	230	1	42.1	275
	208	3	25.1	
	230	3	21.8	
10 hp	230	1	51.0	350
	208	3	37.0	
	230	3	32.2	
15 hp	230	1	75.0	475
	208	3	54.5	
	230	3	47.4	

Nozzles		Fountain Height			
Part #	Description	5 hp	7.5 hp	10 hp	15 hp
294A	2.5" Three-Tier 19	25'	35'	45'	n/a
294B	3" Three-Tier 19	20'	30'	35'	45'
294C	3" Three-Tier 37	25'	35'	45'	55'
295A	4" Three-Tier	n/a	n/a	20'	30'
326	2" Trumpet	10'x 35'			
327	3" Trumpet		11'x 40'	12'x 46'	
328	4" Trumpet				12'x 50'
54A	2.5" Cascade	18'	20'	30'	35'
55	3" Cascade	15'	18'	25'	30'
748A	2.5" WW Jet	50'	n/a	n/a	n/a
749A	3" WW Jet	35'	60'	80'	100'

LIGHT SPECIFICATIONS	
Lights	Amps
2 x 250 Watt	4.17
2 x 500 Watt	8.33
2 x 1000 Watt	16.67

Voltage drop to the motor is the number one cause of fountain motor failure and is not covered by warranty. We're here to help you, use us. Technical support is available to you on our website at www.deserrain.net, email: scottg@aquaticceco.com, or call 1-800-899-2565.

Fax electrical calculations to (407) 886-3939

SPEC SHEET

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.

ELECTRICAL CABLE

PVC Double-jacketed heavy duty TW submersible pump and light cable

MOTOR

Stainless Steel Grundfos or Franklin Motor, rustproof, reliable, national brand for fast local service.

PUMP

Stainless Steel Grundfos Pump, rustproof, reliable, national brand for fast local service.

PLUMBING

All schedule 40 and schedule 80 PVC.

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.

CONTROL PANEL

NEMA 3R enclosure to house GFI breakers, surge protection, timer, photo cell for lights, thermal overload protection, all pre-wired.

LIGHTS

UL listed underwater bronze cast lights, thermally protected

SPLICE

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

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

- **Adequate Electricity to the motor**

Your fountain must have adequate electricity with no more than a 3% voltage drop to the motor. This must be calculated and provided for prior to ordering and installing your fountain by a qualified commercial electrician with electric motor experience. Transient Voltage Surge Protection and Ground Fault Protection are provided on your fountain to protect the motor. If your fountain can not run with these in place, then you have an electrical problem that needs to be addressed, DO NOT OVERRIDE these protections as this will most likely result in motor failure and will not be covered by your warranty.

COMMON SIGNS: Your fountain shuts itself off, trips breakers or overload, or has high amp readings.

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

- **Adequate water to cool the pump and motor**

Your fountain's motor is water cooled, no oil so there are no oil changes, and requires water to flow easily over the motor. 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, nozzle and motor housing is easily done with a wire brush without removal of the fountain. Motor damage caused by environmental hazards is not covered by your warranty.

COMMON SIGNS: Your fountain is shrinking in size, shuts itself off after running for a short time, trips breakers or overload, or has high amp readings.

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

- **No Dry Runs**

The pump, motor and lights are all water cooled, so running them on land will indeed burn them up.

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

Fishing hooks can damage the wire casing creating electrical leaks that cause heavy amp draws that cause the motor to run hot which will eventually burn the motor up.

- **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.

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

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

- **Troubleshooting & Repair**

Desert Rain Floating Fountains were designed with ease of ownership in mind. With readily-available "off the shelf" replacement pumps and motors, down time and costs are at a minimum. For repair service, call your distributor or local well pump dealer. A fountain is a well pump and motor hung horizontally with a display nozzle. Removal of the fountain is only necessary if the pump or motor is in need of replacement. This is the last option, and if indeed they need to be replaced, finding out what caused their demise is more crucial. The fifteen minutes spent starting at the control panel will be well worth it. Please call 1-800-899-2565 for technical help and we'll be happy to help you.

- **You Must Call Us First For a Warranty Claim or You Will Void Your Warranty**

TECHNICAL SUPPORT AVAILABLE AT 1-800-899-2565