



Booster Fitting Kit

for the Pondless® Waterfall or Decorative Fountain RainXchange® System

Installation Instructions

- **Step-by-Step Installation Instructions for the Booster Fitting Kit**

(Item #30214)

Aquascape water feature pumps are designed to provide high flows at low pressures to waterfalls and streams. They are not designed to provide sufficient pressure for garden hose or irrigation applications. As a result, a separate Booster Pump is required with the RainXchange® Systems when being used for irrigation or other watering chores such as car, deck or patio washing.

The Booster Pump is an external pump with a built-in pressure tank and electronic controller. The Booster Pump is available in two sizes: a ¼ HP model (item # 30084) and a larger ½ HP (item # 30085) model for applications requiring higher pressure for professional irrigation systems. The Booster Pump has a built-in thermal overload and run-dry shut off to protect the pump when water becomes too low in the RainXchange® water storage basin. We recommend a Low Water Pump Shutoff Switch (item #29647) to prevent the Booster Pump from using all the water in the RainXchange® water storage basin. This will leave a small supply of water in the basin for the water feature pump to continue to operate. (See Figure 1 on page 6 of manual.)

High Pressure Sprinkler and Drip Irrigation: The RainXchange® System can be used with professionally installed irrigation. We recommend consulting a professional irrigation installer in order to properly configure the RainXchange® System into the design of these applications.

Note: Water from the RainXchange® System may contain more suspended sediment than tap water. Pre-filters designed for sprinklers and drip systems are recommended.

The Booster Pump is able to operate on either 110V or 230V single phase. See the manual included with the Booster Pump for electrical and performance specifications, as well as pump maintenance information.



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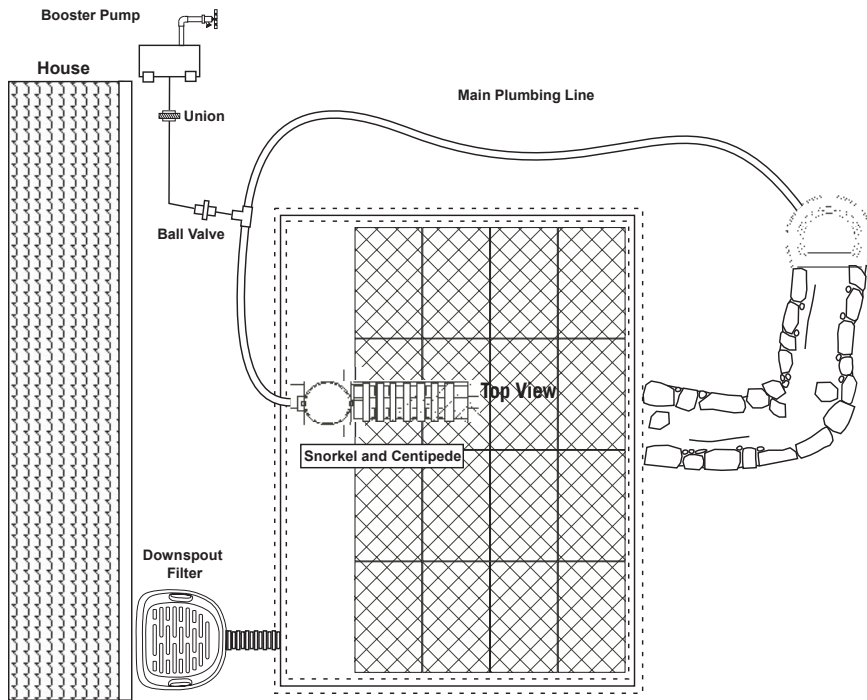
Plumbing Options

There are two different Booster Pump Fitting Kits based on the type of RainXchange® System purchased (Pondless® Waterfall or Decorative Fountain). Select the appropriate installation section below.

The Booster Pump is required to be housed in a protected enclosure, such as a large valve box, faux rock cover, or can be located inside the house or garage. When locating the Booster Pump within the house or garage it is recommended that a certified plumber install the pump.

Note: In order for the Booster Pump to properly function, the main water feature pump must be running.

Installation for Pondless® Waterfalls RainXchange® Systems



Installation

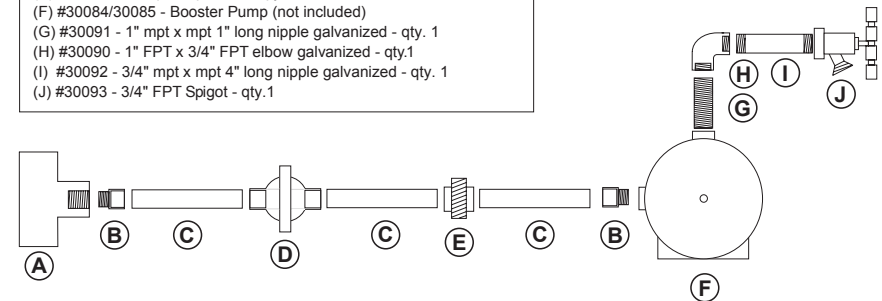
- Use the plumbing diagram below to see the complete assembly order of the components.
- Cut into the 2" Flex PVC water feature plumbing line and install the PVC tee fitting included with the Booster Fitting Kit (item #30094). Follow the plumbing installation diagram for proper configuration.
- Use the supplied PVC pipe or supply your own rigid or flex 1" PVC to run the plumbing to the location of Booster Pump.
- A ball valve is included with the plumbing kit to allow the water supply to be shut-off to the Booster Pump when removing for service. **Note:** It is recommended to install the ball valve as close as possible to the plumbing tee off the main water feature line if the project is located in regions that experience freeze/thaw.
- A union is included to allow easy removal of Booster Pump for service or winter storage and should be positioned as close as possible to the Booster Pump.

Operation

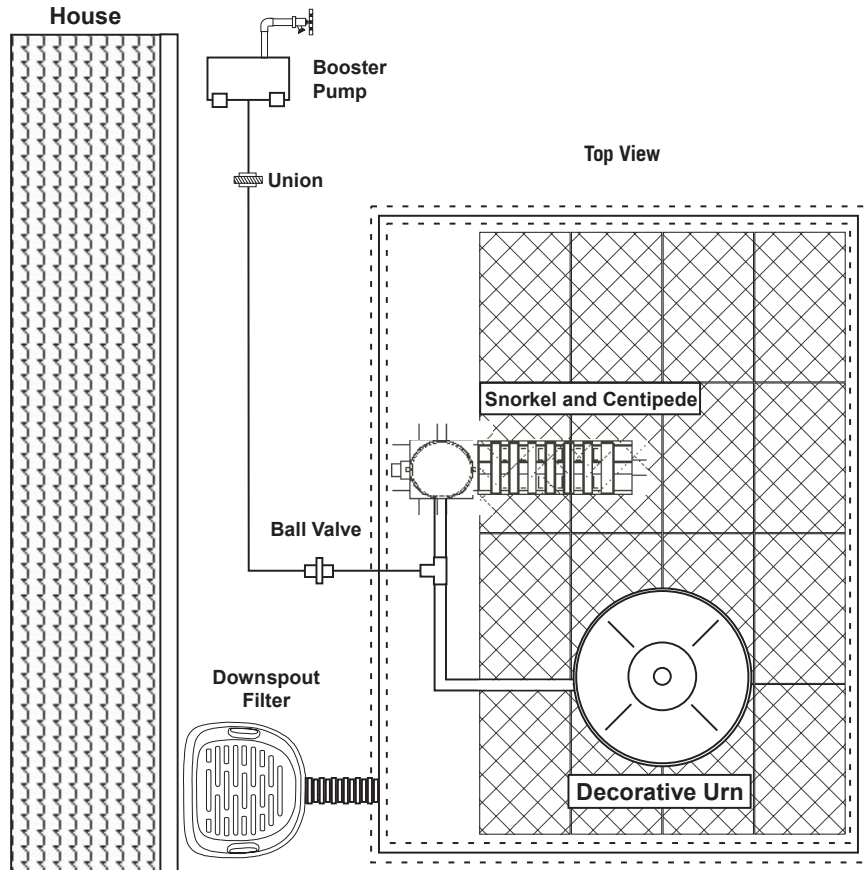
- Before using your RainXchange® Booster Pump, you must prime the pump first. To do this, simply make sure that your Aquascape water feature pump is running. Next, rotate the red knob on top of the Booster Pump counterclockwise until water begins to trickle out. Then simply tighten the knob back down by turning it clockwise and you are ready to use the Booster Pump.

Bill of Materials for Item #30094, RainXchange™ Booster Pump Kit

- (A) #30086 - 2" Tee x 1" FPT - qty. 1
- (B) #98158 - 1" MPT x 1" Slip - qty. 2
- (C) 1" sch 40 PVC x 24" - qty. 3 (longer lengths may be required)
- (D) #30088 - 1" slip ball valve - qty. 1
- (E) #30089 - 1" slip x slip union - qty. 1
- (F) #30084/30085 - Booster Pump (not included)
- (G) #30091 - 1" mpt x mpt 1" long nipple galvanized - qty. 1
- (H) #30090 - 1" FPT x 3/4" FPT elbow galvanized - qty.1
- (I) #30092 - 3/4" mpt x mpt 4" long nipple galvanized - qty. 1
- (J) #30093 - 3/4" FPT Spigot - qty.1



Installation for Decorative Fountain RainXchange® Systems



Installation

- Use the plumbing diagram below to see the complete assembly order of the components.
- Cut into the 3/4" kink-free decorative fountain plumbing line and install the barbed tee fitting included with your Decorative Booster Pump kit (item# 30170). Secure the fittings with the supplied hose clamps. Follow the plumbing installation diagram for proper configuration.
- A ball valve is included with the plumbing kit to allow the water supply to be shut-off to the Booster Pump when removing for service. **Note:** It is recommended to install the ball valve as close as possible to the plumbing tee off the main water feature line if the project is located in regions that experience freeze/thaw.
- A union is included to allow easy removal of Booster Pump for service or winter storage and should be positioned as close as possible to the Booster Pump.

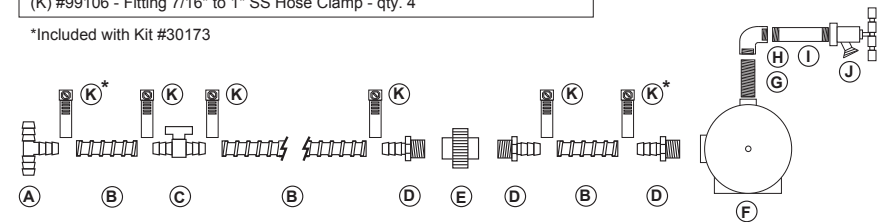
Operation

- Before using your RainXchange® Booster Pump, you must prime the pump first. To do this, simply make sure that your Aquascape water feature pump is running. Next, rotate the red knob on top of the Booster Pump counterclockwise until water begins to trickle out. Then simply tighten the knob back down by turning it clockwise and you are ready to use the Booster Pump.

Bill of Materials for Item #30170, RainXchange® Booster Deco Fitting Kit

- (A) #99118 - 3/4" Barbed Tee - qty.1 (Included with Kit #30173)
- (B) 3/4" Kink-Free Tubing (not included)
- (C) #98148 - 3/4" Barbed Ball Valve qty.1
- (D) #98180 - 1" mpt x 3/4" barbed - qty.3
- (E) #98636 - 1" Threaded Union - qty.1
- (F) #30084/30085 - Booster Pump (not included)
- (G) #30091 - 1" mpt x mpt nipple galvanized 1" long - qty.1
- (H) #30090 - 1" FPT x 3/4" FPT elbow galvanized - qty.1
- (I) #30092 - 3/4" mpt x mpt nipple galvanized 4" long - qty.1
- (J) #30093 - 3/4" FPT Spigot - qty.1
- (K) #99106 - Fitting 7/16" to 1" SS Hose Clamp - qty. 4

*Included with Kit #30173



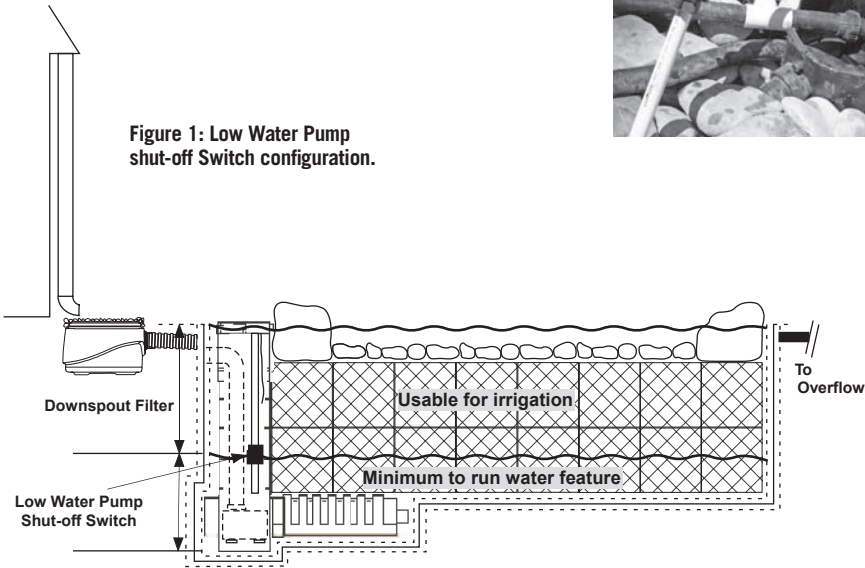


Installation for the Low Water Pump Shut-off Switch (Item #29647)

The Low Water Shut-off Switch (item #29647) is shown mounted on a rigid PVC pipe with cable ties. The Booster Pump is plugged into the switched outlet on the Low Water Shut-off Switch to prevent draining the storage tank below its minimum operating level for the water feature pumps.



Figure 1: Low Water Pump shut-off Switch configuration.



The Booster Pump is warranted against defective materials and workmanship for a period of 12 months from the date of purchase by the user. Contact the installer or place of purchase if the Booster Pump should fail within the warranty period. Warranty shall be totally null and void in the event the Booster Pump is abused, misused, or used for a purpose other than for which the product is intended.

**1 YEAR
WARRANTY**