



## WODA Pump System

*The rainwater harvesting market has been waiting for a top-quality, reliable, mid-range pump station like the Raintech Woda. It's ideal for rainwater systems on light commercial buildings and large homes requiring flows of 10 to 25 gallons per minute. For flows over 25 gallons per minute, the RainTechPro Woda does the job best.*

**Raintech Woda** was developed to support big rainwater collection systems while providing no-fuss operation and easy maintenance for the user. Each pump system is built with care using the highest quality components and cutting edge design. **Raintech Woda** out pumps the everyday, stand-alone pump, yet it's considerably more economical than those expensive pumps often advertised for larger systems. As a bonus, **Raintech Woda** is simple to install, either floor-mounted inside the tank or suspended.

Each **Raintech Woda** Automatic Pump Station includes the following:

- A reliable, high-performance, VFD single-phase motor (Some models available in 100VAC, all models available in 230VAC)
- An adjustable-speed, constant-pressure pump controller with a pressure transducer (20' cable)
- Sand and abrasion resistant floating impellers, each with its own tungsten carbide/ceramic bearing 4" diameter pump chamber (either suspended or floor mounted)
- A 2" stainless steel floating filter (10' hose)
- A 2-gallon inline pressure tank



Raintech Woda Models			
Models	Motor HP	Rated Flow	GPM @ 60 PSI
10 (160,200,240)	.5, .75, .75	10	11.5, 13, 14
15 (150,180,220)	.75, .75, 1	15	16.5, 18.25, 18.75
22 (160,190,220)	1, 1, 1.5	22	25, 28, 30

**Flow:**

Model	GPM @ PSI					
PSI:	50	60	70	80	90	100
10-160	12.5	11.5	10	8	4	0
10-200	14	13	12	11.5	10	9
10-240	15	14	13.5	13	12	11
15-150	18	16.5	15	13	10	5.5
15-180	19.5	18.5	17	16	14.5	13
15-220	n/a	19.5	18.5	17.5	16.5	15.5
22-160	27	25	21	17	10.5	0
22-190	30	28	26	23.5	21	17
22-220	31	30	28	27	25	23

**Efficiency:**

			Best Efficiency		Max Runout	
Model	HP	TDH	GPM	TDH	GPM	TDH
10-160	.5	225	10	165	15	55
10-200	.75	285	10	215	15	80
10-240	.75	360	10	265	15	110
15-150	.75	245	15	165	19.5	95
15-180	.75	300	15	210	19.5	115
15-220	1	360	15	265	19.5	140
22-160	1	235	22	160	33	48
22-190	1	290	22	200	33	65
22-220	1.5	350	22	240	33	80

**Overview:**

The **Raintech Woda** features an energy-saving, adjustable-speed pump motor that enables the balanced-flow pump controller to provide constant, even water pressure. Pressure measurements from the transducer allow the pump controller to adjust the pump speed and maintain constant pressure, a big improvement over those conventional “on-off” switches, and pressure spikes of older technology. The pump controller continually monitors the motor’s current draw, voltage, temperature and pressure. Although the **Raintech Woda** arrives set at 50 PSI, the user can easily adjust it for higher pressures, if desired.

**Pump Chamber:**

The **Raintech Woda** Pump Chamber provides a safe, sealed casing for the pump while ensuring that incoming rainwater flows over the motor. This insures the required cooling, 15° pump inclination for longer bearing life, floating extractor intake, convenient 2" threaded output and compression sealed wiring port. The stainless steel motor centralizers have PVC pads to keep the pump assembly steady and centered in the induction chamber, a necessity to guarantee consistent flow and proper cooling. The pump’s incline supports feature rubber feet to reduce vibration and noise and to protect the rainwater tank from interior scuffs and scratches. The system is easily lowered into the tank with the stainless steel lifting lug and tether provided. Like the motor assembly, the flow induction chamber is made of high-quality, potable components.

**Energy Savings:**

The **Raintech Woda** can reduce energy consumption by 50% or more. However unlike other VFD, energy reducing, pump systems; the Raintech Woda pump controller uses single phase input and single phase output while still achieving VFD performance and energy savings. The controller is housed in IP55, better than NEMA 3R (“rain tight”), enclosure. The controller can be mounted on the side of an above ground water tank, or any above ground vertical surface.

**Dry-run Protection:**

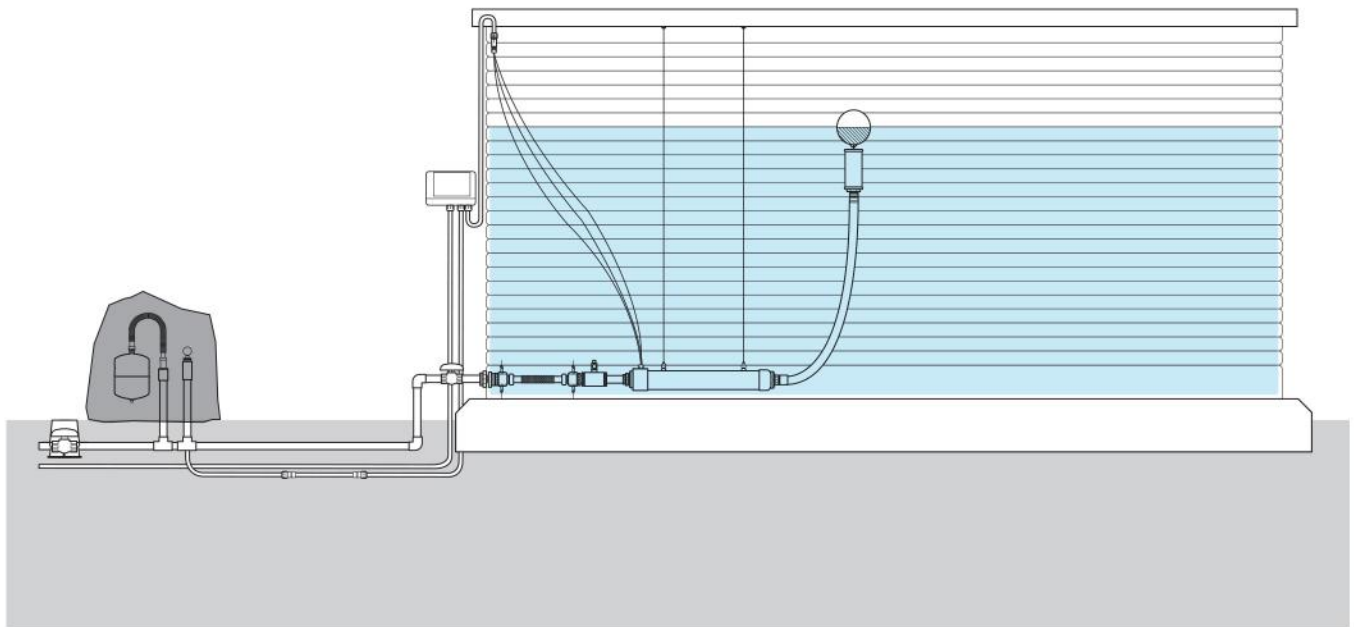
**Raintech Woda** protects the rain harvesting system from running dry. When the pressure transducer identifies an insufficient amount of water in the tank, the pump immediately stops working. With use of the GO remote control for the Raintech Woda, the controller can be set to automatically restart after it has stopped to prevent running dry.

**Auxiliary Switch Input:**

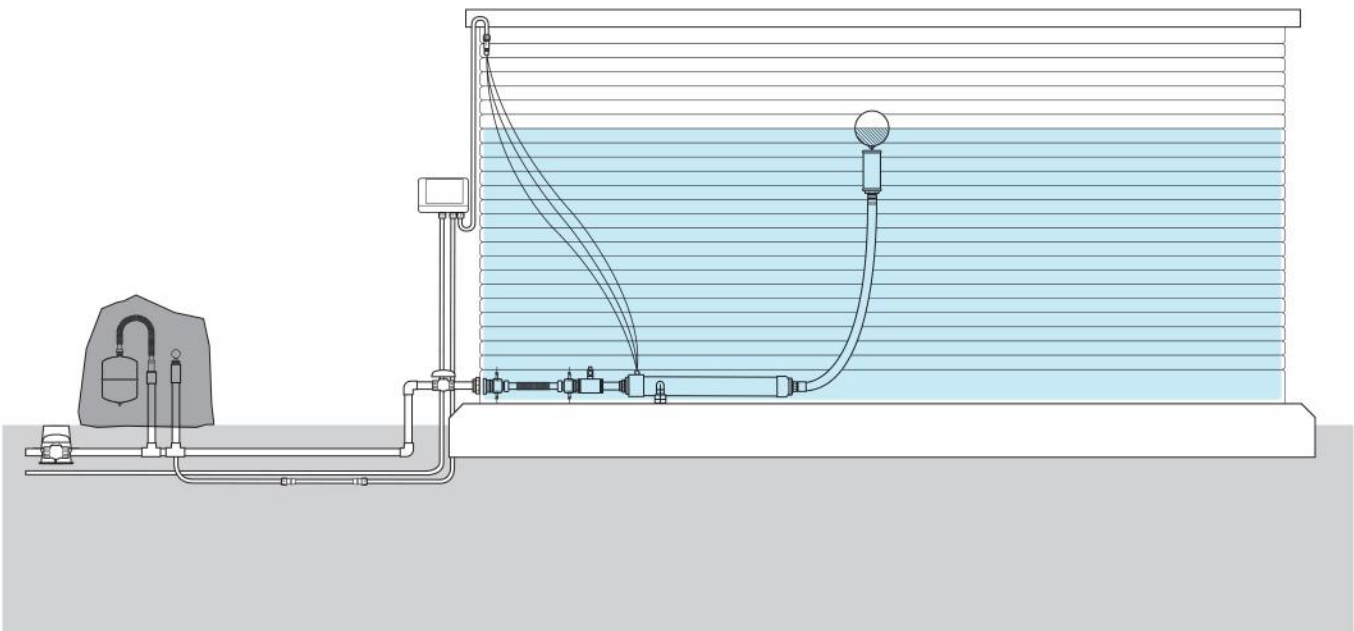
**Raintech Woda** includes an auxiliary relay output that can be used to connect an external pump running indicator (light or sound) or building automation system.

## Above Ground Tank Installation Examples

WODA-SSA Above Ground Suspended

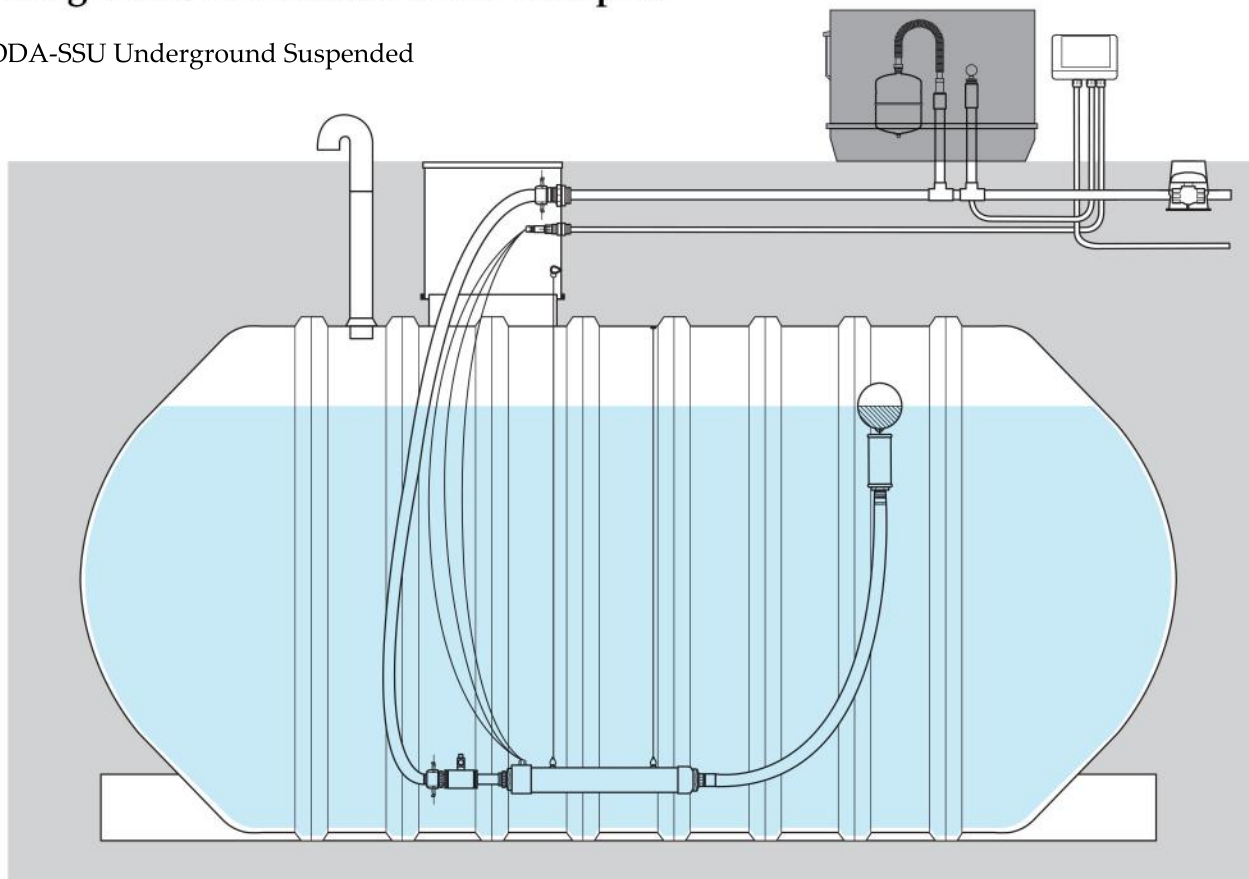


WODA-SFA Above Ground Floor Mounted



## Underground Tank Installation Examples

WODA-SSU Underground Suspended



WODA-SFU Underground Floor Mounted

