

EFFICIENCY. HIGH PERFORMANCE. PUMP SYSTEMS.



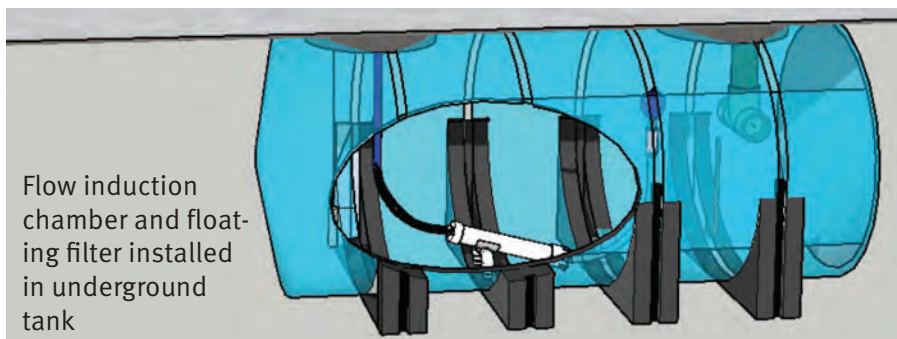
RainFlo Flow Inducer Kits are specially designed for rainwater collection systems using the highest quality components and packaged in a complete and easy to install bundle. Using time-tested Goulds pump technology, these pump stations fill the performance gap between traditional stand-alone pumps and more expensive high-end pump stations perfectly. These mid-range automatic pump systems are for use in large residential, commercial, and light-industrial underground rainwater collection systems.

Flow Induction Kits:

- Dedicated 240V/1PH, 20A circuit required to operate
- Pump controller converts incoming single phase voltage to three phase voltage to operate high performance pump motor
- Variable speed, constant pressure pump controller with transducer (15' cable)
- Water end with sand and abrasion resistant floating stack design
- Flow induction pump chamber with 15 degree inclination
- 150 PSI reinforced discharge hose with stainless steel camlock fittings

Model No.	Motor HP	Average GPM	GPM at 60 PSI	Controller	Pressure Tank	Floating Filter
FI-1800	1.5 hp	18	29	VFD	9.5 gal	2", 10' hose
FI-2500	2 hp	25	34	VFD	9.5 gal	2", 10' hose
FI-3300	3 hp	33	48	VFD	9.5 gal	2", 10' hose
FI-6000	5 hp	60	59	VFD	13.9 gal	2", 10' hose
FI-7500	7.5 hp	110	60	VFD	13.9 gal	n/a

For custom sizes and configurations, please contact RainHarvest Systems.



Flow induction chamber and floating filter installed in underground tank

OPERATIONAL OVERVIEW

The balanced flow pump controller provides user-adjustable constant pressure using an energy-efficient variable speed pump motor. Using pressure measurements from the transducer, the controller adjusts the pump speed in order to maintain constant pressure, rather than the on-off switched operation of traditional systems. The balanced flow controller provides continuous monitoring of motor current draw, voltage, temperature and loss of pressure. Systems ship factory-set at 50 PSI but can be easily adjusted to higher pressures in the field.

Flow Induction Chamber

The RainFlo Flow Induction Chamber is a specially designed water sealed pump housing which directs incoming water flow over the pump motor, providing necessary cooling, 15° pump inclination for longer bearing life, floating extractor intake, convenient 2” threaded output and compression sealed wiring port. Specially designed stainless steel motor centralizers with PVC pads keep the pump assembly stabilized and centered in the induction chamber for uniform flow and cooling. Vibration dampening rubber feet on the incline supports help protect fiberglass and plastic tanks from abrasion and reduce motor noise. A stainless steel lifting lug and tether assist in lowering the system into the tank. As with the motor assembly, the flow induction chamber is constructed with potable quality components.



Energy Efficient

By converting single phase input to 3 phase pump output, the controller can reduce energy consumption by 50%. Rain tight controller: The controller is rated NEMA 3R (rain tight) so it may be located outdoors. It must be mounted vertically.



Dry-Run Protection

This function protects the system from running dry. When the pressure transducer (included) detects inadequate water supply, the pump is automatically disabled. The controller will re-test for water supply until water is detected.



Broken Pipe Protection

The drive will turn off if the system pressure drops 20 PSI below the system set point pressure for a minimum of 30 seconds. (This fault must be manually reset, it will not clear automatically, and this may prevent property damage if a pipe breaks.)



Auxiliary Switch Input

For connection of an external switch or control device used to start and stop the pump. Devices such as an over-pressure switch, level (float) switch or any other non-powered switch.

Flow Characteristics

Maximum pump flow (GPM) at selected pressures (PSI) at 0' vertical lift								
PSI	30	40	50	60	70	80	90	100
FI-1800	35	33	31	29	26	24	21	18
FI-2500	40	38	35	34	32	29	27	25
FI-3300	60	53	51	48	44	40	36	32
FI-6000	60	60	60	59	57	55	53	51

Efficiency

Model No.	HP	TDH	Best Efficiency		Max Runout	
			Flow (GPM)	TDH (ft)	Flow (GPM)	TDH (ft)
FI-1800	1.5	315	18	237	37	55
FI-2500	2	358	25	238	40	69
FI-3300	3	390	33	230	60	70
FI-6000	5	681	33	390	60	120