



## Flow Inducer Rainwater Pump Stations

High performance mid-range automatic pump stations for large residential, commercial, and light-industrial rainwater collection systems.



## The Flow Inducer Product Line:

RainMaster 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 at an unbeatable price point. Using time-tested Goulds pump technology, these pump stations perfectly fill the performance gap between traditional standalone pumps and more expensive high-end pump stations.

### All RainMaster Flow Induction Kits include:

- High Performance Three Phase Motor, 230V
- Variable Speed, Balanced Flow Pump Controller with Transducer (15' cable)
- Water End with Sand and Abrasion Resistant Floating Stack Design
- Flow Induction Pump Chamber with 15 degree Inclination
- 2" Stainless Steel Floating Filter with 10' hose
- 8.2 Gallon Inline Pressure Tank (13.9 Gal on FI-6000 model)

### Model Overview:

Flow Induction Pump Station Models			
Model No.	Motor HP	Avg GPM	GPM @ 60 PSI
FI-1800	1.5 HP	18	29
FI-2500	2 HP	25	34
FI-3300	3 HP	33	48
FI-6000	5 HP	60	59

### Flow Characteristics:

Maximum pump flow (GPM) at selected pressures (PSI) at 0' vertical lift)								
Model No.	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.	Best Efficiency			Max Runout		
	HP	TDH	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

### 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 traditional 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 RainMaster 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

In order to provide the highest water quality and safety, the RainMaster and Flow Inducer product labeling shown in the image is not applied to production units.