Heron

# MPD2i Acid Dosing System

The Heron MPD2i acid dosing system is used for the acidification of water to control pH. The MPD2i acidifies the water as it is pumped into a water storage tank.

Accurate pH control is difficult to achieve. Long chemical reaction times are involved and a large proportion of acid is required to remove carbonates. The consequence is that the pH will rise over time. The MPD2i addresses these issues and provides you with a safe and reliable solution for the acidification of water in storage tanks.

The Heron MPD2i is suitable for water storage tanks with sizes ranging from 20,000 Litres to 500,000 Litres. The MPD2i comes in two sizes, the smaller one catering for input flows of up to 20,000 Litres/hour and the larger one for flow rates up to 40,000 Litres /Hour.

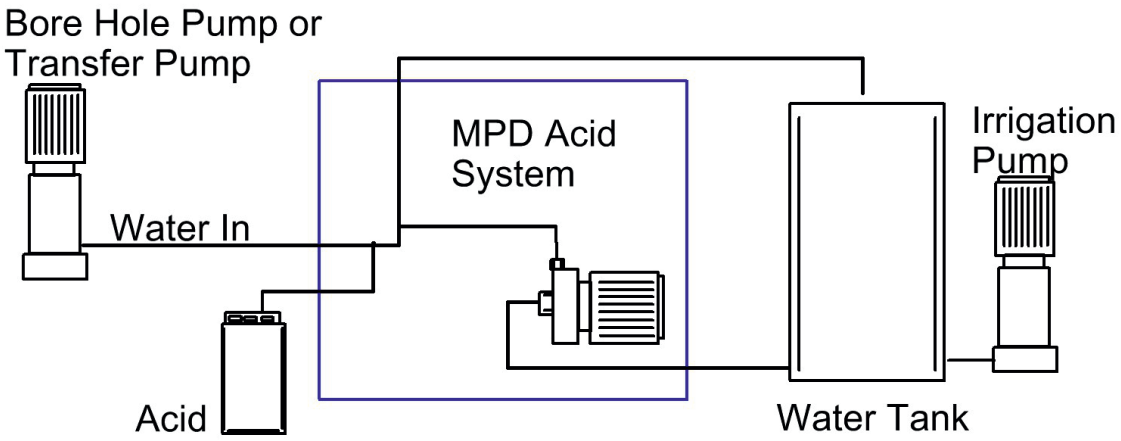
The system is particularly suitable for applications requiring low pH values, down to pH 4.5. The system is also intrinsically fail safe and minimises user handling of acid.

## Features

The MPD2i has the following features:-

- Doses the water as it is pumped into the storage tank and doses the storage tank.
- A unique algorithm is used to determine the acid dosing.
- Venturis are used to dose acid providing a rugged design with minimum moving parts.
- No seals are in contact with concentrated acid and there is no foot valve in the acid tank
- Concentrated 60%-70% acid can be used and no dilution of acid is required
- Changing acid barrels is simple and safe. The acid line is simply dropped into the new barrel.
- Can be connected to a Heron irrigation controller.

## System Configuration




## Specifications

| | MPD2I-20-2PH | MPD2I-40-2PH |
|---|---|---|
| Max Flow rate * | 20,000 L/Hr | 40,000 L/Hr |
| Circulating booster pump size | 5,000 L/hr 3 Phase | 7,000 L/Hr 3 Phase |

| | |
|---|---|
| pH Range | Measuring : pH 8.9 to pH 2.5 Controlling pH 7.5 to pH 4.5 |
| Ouputs | 1 x Alarm output (24VAC) activated by 18 alarm conditions, 1 x Fill Pump Control output (24VAC) |
| Inputs | 2 x pH sensor Inputs, 2 x inputs for Solid State Level sensors, 1 x suspend input |

* Larger sizes available on request

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