

Heron Direct Acid Injection System MPD2i

*Control pH
safely and
accurately with
Heron Dosing
Systems.*



Accurate pH control is difficult to achieve.

- Long chemical reaction times are involved.
- A large proportion of acid is required to remove carbonates.
- pH rises over time.

The Heron MPD2i direct acid injection system addresses all these issues to provide you with a safe and reliable solution for the acidification of water in storage tanks.

With the Heron MPD2i :

- A unique algorithm is used to determine 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. .
- There is also minimal user handling of acid and no dilution of acid is required.
- 60% nitric acid can be dosed reducing the size of the acid storage area.

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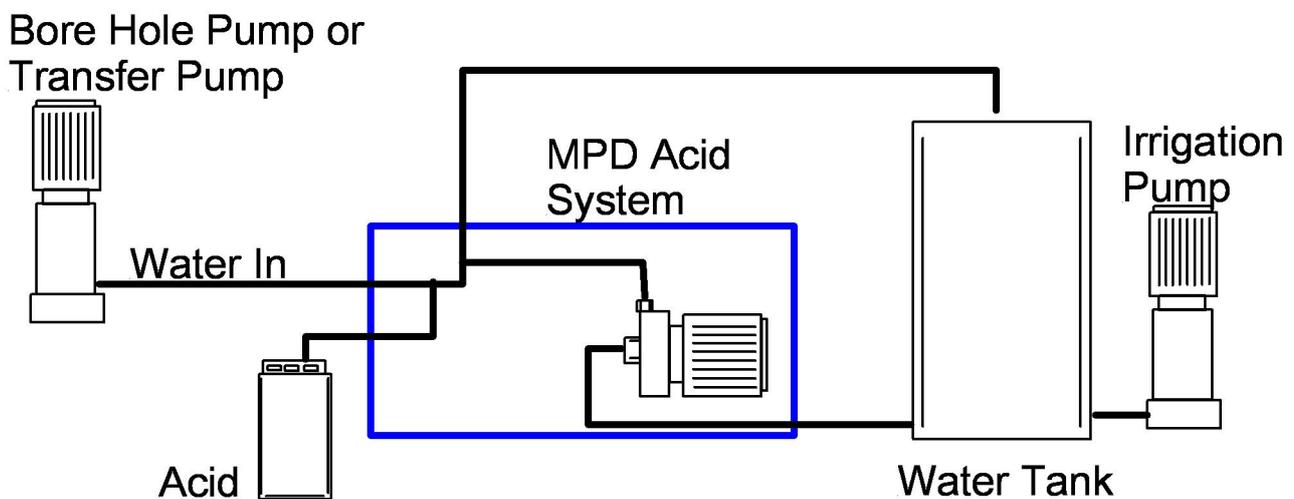
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The Heron MPD-2I system:

- Is ideal for applications requiring low pH values (down to pH 4.8).
- Is suitable for all sizes of water storage tank sizes
- Will work even if there is a high flow rate in and out of a small water storage tank.
- Is intrinsically fail safe.
- Has multiple alarm conditions are built-in.

System Configurations

The standard MPD-2I is installed in the configuration shown below. The standard system includes a circulating pump and two pH probes



Alternatively the system can be supplied without a circulating pump and with one pH probe, as shown below. This system is appropriate for flow rates less than $15\text{m}^3/\text{hr}$ and where the pH levels of 6.0 or above are required. This system requires the transfer pump to provide a 2 bar pressure to drive the venturis.

