

# Specifications:

## Pump Capacity and Pressure Rating

Model	Description	Pump Output Capacity		Output per Stroke		Maximum Pressure PSI (bar)	Mainline Flow		Connection Size into Mainline
		GPH (LPH)		(mL)			GPM (LPM)	GPM (LPM)	
		Min	Max	Min	Max		Min	Max	
H060	Fertilizer Pump	4.0 (15)	60 (227)	N/A	N/A	125 (8.6)			3/4" MNPT
A1.0	Acid Pump	—	1.3 (4.9)	0.09	0.22	105 (7.2)	50 (189)	3000 (11350)	1/2" MNPT
A5.0	Acid Pump	—	5.5 (21)	0.189	0.94	105 (7.2)			1/2" MNPT



# HYDRA INJECT IV

Fertigation and pH Control Systems

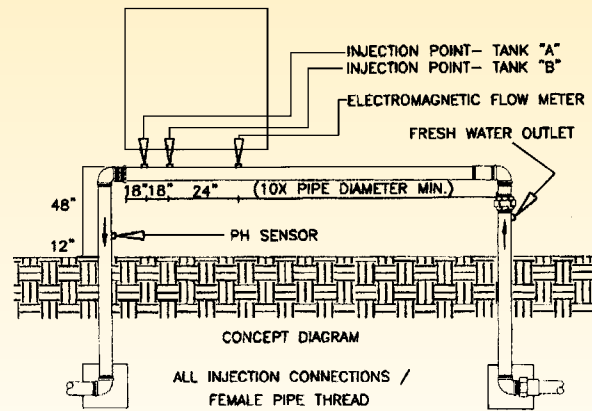
Golf • Municipal • Commercial • Sports Fields • Drip



### Electrical

Fertigation VFD: 1-HP, 115 VAC, 50/60 Hz, single phase  
 Acid Pump (EHC Series): 115 VAC ± 10%, 50/60 Hz, single phase; 1.4 Amp max; 24 watt average

### Materials



### Operating Conditions

Ambient Temperature: 32 to 122° F (0 to 50° C)  
 Relative Humidity: 30 to 90% non-condensing

Other system and pump options are available to meet specific application requirements.

Visit [www.growsmart.com](http://www.growsmart.com) to download a specification kit or to find the dealer nearest you.



Lindsay Manufacturing Company, 214 E 2nd St., Lindsay, NE 68644  
 1-800-829-5300

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GS 2002-xx







# HYDRA INJECT IV

Golf • Municipal • Commercial • Sports Fields • Drip

### HYDRA INJECT IV

Managing fertilizers and pH is now easier than ever thanks to GrowSmart's new Hydra Inject IV. The Hydra Inject IV's innovative design provides the widest range of application rates and scheduling for both fertilizer and fertigation pH control ... all in one system.

#### Increase Plant Health

- Concentrates are applied regularly through the irrigation system and immediately available to the plant creating a consistent nutrient-rich root zone.
- Smaller, more frequent applications promote consistent growth, better root structure, and disease tolerance by reducing stress on plants.

#### Save Time and Money

- Efficient use of fertilizers. Overall, injection methods use less compared to traditional application methods.
- Additional equipment and labor to apply fertilizers is no longer needed.

#### Reduce Liability

- Limits worker exposure to hazardous chemicals. No mixing and spraying or exposure to drift.
- No granular residue on turf or plants. Reduces non point-source pollution and leaching during heavy rains.

#### Additional Drip Irrigation Benefits

- Nutrients delivered directly to the root zone.
- Acid may be injected to keep irrigation lines, microsprays and emitters free of slime and/or mineral build-up.

#### Simple Programming

- Easy-to-use and read, the backlit touch screen provides on-screen directions and prompts user to enter basic information such as total area, flow rate, and desired fertilizer application (ppm or proportional.)
- Computer does all calculations and conversions to complete the program. Application scheduling may be programmed for up to four weeks.

#### Precise Injection

- Variable-frequency motor drive (VFD) and electromagnetic flow meter applies proportional amounts of concentrates regardless of water flow.

#### Advanced Sealless Pump

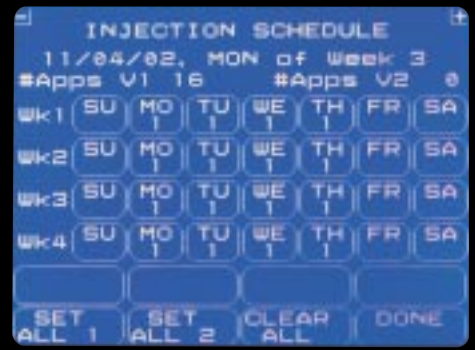
- The powerful Hydra Inject IV pump uses three diaphragms to separate and protect the bearings and other moving parts from the pumped solution.
- Triple diaphragm pump provides a virtually pulse-free flow for the most precise adjustment and measurement of injected concentrates and irrigation water.
- For added safety and reliability, a filter is located on the inlet side to protect pump and other Hydra Inject IV parts from debris or contaminants.

#### Versatile Applications

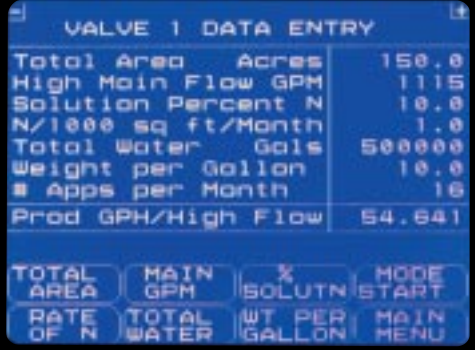
- The Hydra Inject IV system is complete and easy to install on new or existing irrigation systems.
- The Hydra Inject IV system is able to draw from two separate tanks. Each fertilizer has its own application schedule.
- Acid to control pH are injected using the low volume pH acid pump. Option for automatic injection includes a pH set point or proportional injection program.
- Several tank sizes available for any application.
- Optional vandal-resistant outdoor enclosure.
- Application data log for up to six, four-week periods.

#### Future Expandability

- Remote PC control and data records available soon with easy-to-use Windows™ software.



Powerful scheduling of up to two products with an easy four-week calendar.



On-screen, digital readout of irrigation flows, injection rates and total chemicals used.



The powerful Hydra Inject IV pump uses three diaphragms to separate and protect the bearings and other moving parts from the pumped solution.



A low volume pH acid pump (available separately) can be installed and used with the Hydra Inject IV system.

