

# LQS SERIES PUMP & CONTROL MODULES

## Ai 70 SINGLE LIQUID INJECTION

The Ai 70 is our entry level single liquid auto-rate pump and control module. It is designed for single liquid application. The Ai 70 integrates with Ag Leader®, Greenstar™, Topcon, Raven & Trimble, providing on-the-go rate control and full operational monitoring functionality. Spiker dosing system can be series coupled to this module with no requirement for extra hydraulic flow. Connected to a Stacker Distribution system, the Ai 70 provides a complete liquid injection system, delivering the best precision, accuracy and flexibility with straight forward installation and operation.

**New features** include digital pump speed read out, external flush, source and function selection and purge to ground function.



## Ai 120 HIGH VOLUME LIQUID INJECTION

The Ai 120 is a single liquid auto-rate pump and control module. It offers identical functionality to the Ai 70 but with a more powerful LQS Enhanced Bertolini 2136 poly pump it provides capacity for applying liquids at higher rates with increased tank agitation.

Spiker can be series coupled to this module with no requirement for extra hydraulic flow. Connected to a Stacker distribution system, the Ai 120 provides a complete liquid injection system, delivering the best precision, accuracy and flexibility with straight forward installation and operation.

**New features** include digital pump speed read out, external flush, source and function selection and purge to ground function.



## G22 DUAL LIQUID INJECTION

The G22 is Liquid Systems state of the art dual liquid auto-rate system. The G22 gives the farmer the ability to apply two separate liquids with full independent rate control. For example separate Nitrogen and Phosphorus application.

The system offers full variable rate control and application monitoring from the tractor cab via Ag Leader®, Greenstar™, Topcon, Raven or Trimble monitors.

The stainless steel G22 module houses two LQS Enhanced Bertolini 2136 (126 lpm) poly pumps. These pumps are hydraulically driven and linked. The second pump can be switched off for single liquid application if required. The module also houses dual LQS Mk5 auto-rate valve sets that control the rate of application.

Spiker can be series coupled to this module but requires a monitor that allows a third liquid channel E.g. Greenstar™, Topcon X20/X30, Ag Leader® Versa or Integra,

**New features** include digital pump speed read out, external flush, dual source and function selection and dual purge to ground function.

## SPIKER LOW VOLUME DOSING SYSTEM

The Spiker dosing system has been designed for incorporating high viscosity fluids, such as trace elements, fungicides or soil wetters at very low rates into the main liquid delivery line.

Spiker removes the need for pre mixing of chemicals in the product tank which can be both wasteful and inflexible and create issues due to chemical incompatibilities.

Compared to mechanical proportional dosing devices, Spiker allows for application rate of the dosing chemical to be completely independent of the rate of the main carrier. This provides the farmer with far greater flexibility and control.

Spiker will work with many control systems that use mapping based variable rate control.

Example: a farmer wants to apply UAN with variable rates from 30 to 70 L/Ha while applying fungicide at a constant 3L/Ha. The farmer could use an Ai 70 to control the application of UAN with a Spiker controlling the addition of fungicide into the UAN. Both application rates can be controlled and monitored via Ag Leader®, Greenstar™, Topcon, Raven or Trimble monitors.



# THE FUTURE OF PRECISION LIQUID CONTROL

Protect your crop from diseases,  
inject nutrients and trace elements in-furrow  
with systems you can trust!



## DURABILITY

Our modules are built from quality components made of robust chemical resistant materials such as stainless steel, glass reinforced polypropylene, polyester and PVC that are capable of handling highly aggressive products whilst operating under extremely harsh climatic conditions. We have satisfied customers who have been using our products for 8 years continuous running.

## ACCURACY AND VERSATILITY

Using state of the art electronic ball valves and flowmeter, our modules provide top of the range accuracy and responsiveness over a broad range of application rates, row spacings, number of rows and ground speed. The modules can be supplied with an Ag Leader® display or integrated with a variety of control systems such as Greenstar™, Topcon, Raven & Trimble for full mapping based variable rate control.

## SAFETY AND RELIABILITY

Liquid Systems uses high quality TeeJet, Banjo and custom made components to ensure rock-solid reliability. The system design incorporates many features that enhance overall reliability. Each unit is factory Wet-Tested to ensure customers are up and running from day one. Built-in fail safe mechanisms help protect the system and personnel from operator errors and externally induced faults.

## VALUE

Purchase of a liquid application solution from Liquid Systems (SA) is an exceptional investment. Our customers get excellent value through improved crop results by using equipment that provides precision control with years of safe and reliable operation.

**No piecing together components, we provide complete drop in solutions that you can trust! So you can get on with farming not fixing!**



Call us to get a quote or call to arrange a visit to our factory!

## CASE STUDY

A farmer from Managatang, Victoria recouped investment in Liquid Systems technology in the first season by using it to inject zinc and fungicide while planting using water as the carrier. By injecting these products in-furrow he avoided the need entirely to spray for stripe rust which was prevalent in the region. He had no need to apply any additional crop care products post seeding. **Read more stories like this one, visit our website today.**

**Liquid Systems** (SA)

[www.liquidsystems.com.au](http://www.liquidsystems.com.au)