



LQS PRODUCT RANGE

TARGETED IN-FURROW NUTRIENT PLACEMENT

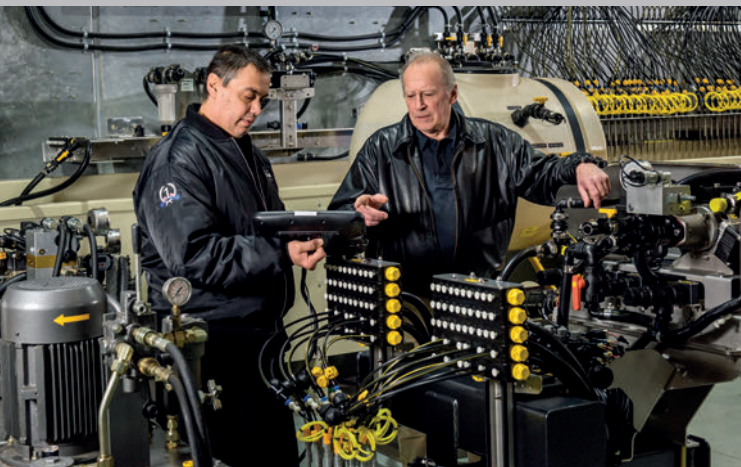
PUT THE POWER BACK INTO YOUR SOIL

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Liquid Systems (SA)
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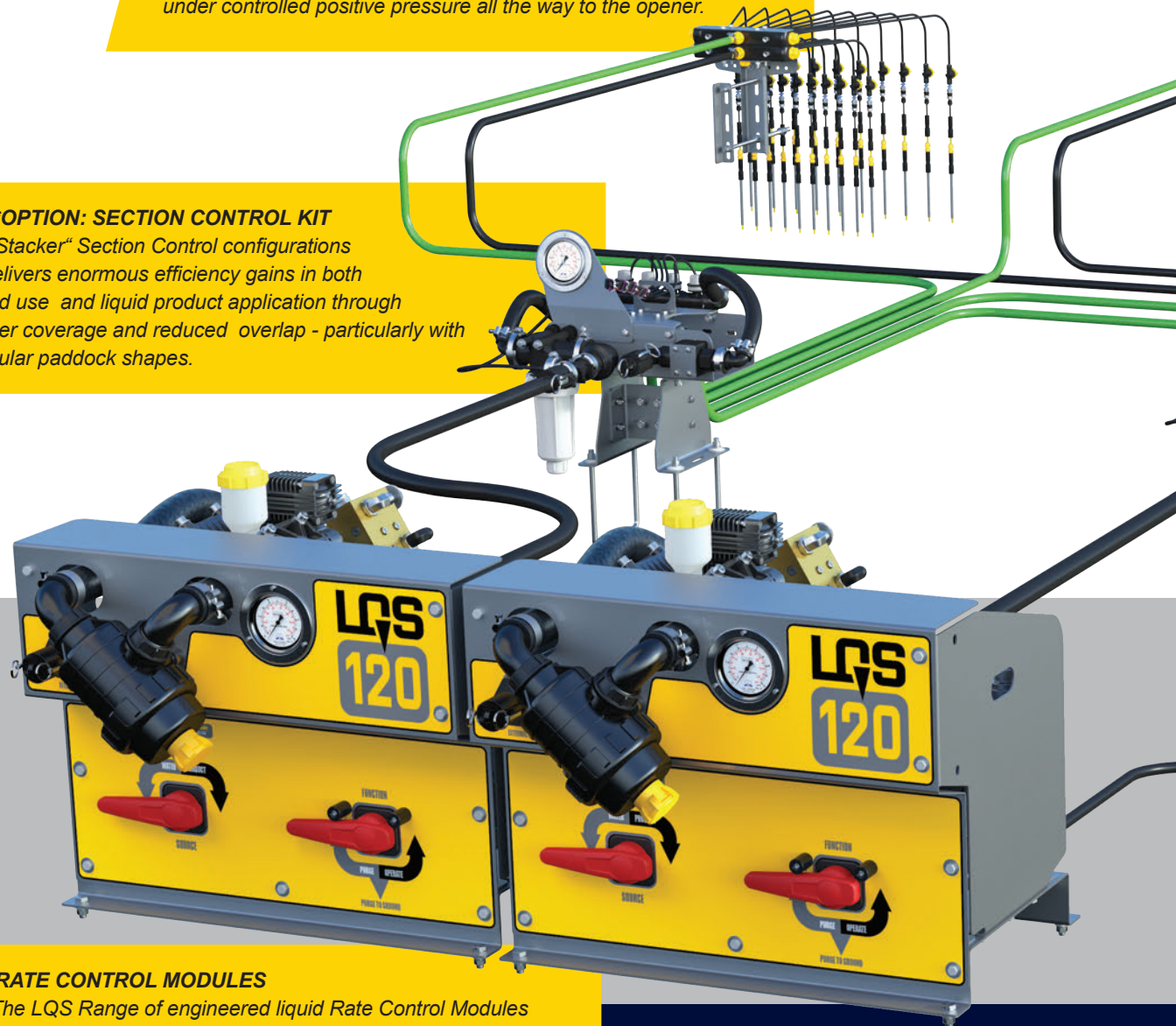
Since 2002 Liquid Systems (SA) has been manufacturing reliable and precise liquid delivery systems for planters and seeders. The company's systems are used around the world for accurate in-furrow injection of liquid fertilisers, fungicides, insecticides, nematicides, micro-nutrients, inoculants, soil conditioners and soil wetters.

Liquid Systems in-furrow application equipment has been helping farmers increase soil productivity, boost yields and save on inputs with the intelligence they need to maximise profitability. Liquid Systems versatile product range easily retrofits onto any colour & size implement.

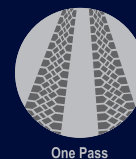


"STACKER" DISTRIBUTION KIT provides even and accurate liquid delivery into the furrow. Every component including the "STACKER" Manifold has been designed to deliver product under controlled positive pressure all the way to the opener.

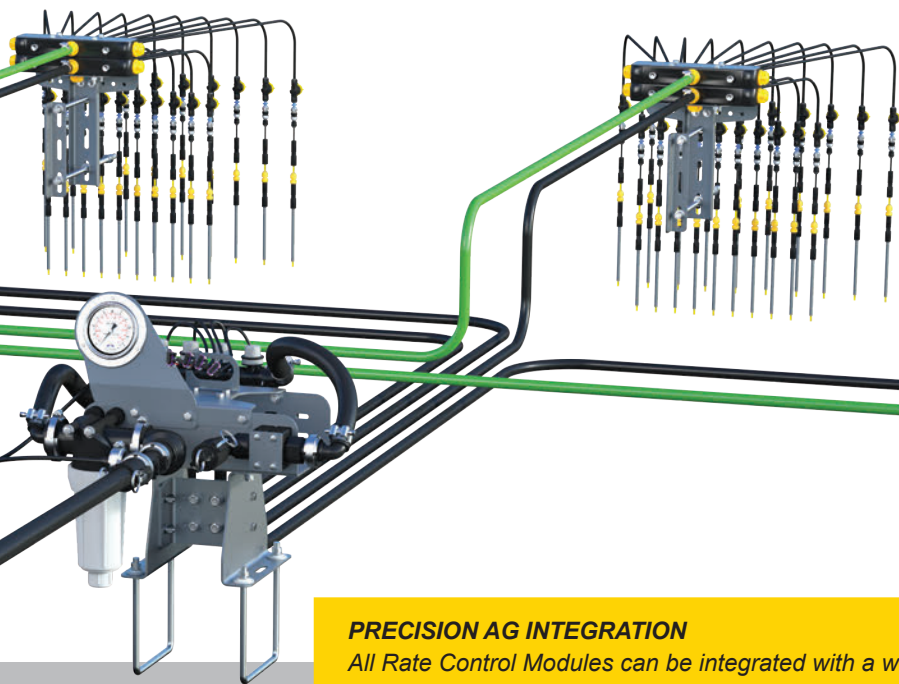
***OPTION: SECTION CONTROL KIT**
"Stacker" Section Control configurations delivers enormous efficiency gains in both land use and liquid product application through better coverage and reduced overlap - particularly with irregular paddock shapes.



RATE CONTROL MODULES
The LQS Range of engineered liquid Rate Control Modules provide accurate target rate application and maintains the physical integrity of liquid products. Fixed module configurations simplify portability, servicing and troubleshooting. All modules can run in series for multiple liquids in one pass.



One Pass



TRAVIS STANLEY, WA "We're using 30% less nitrogen because it's where it needs to be and is more available to the seed. We used to broad spray 45L/ha in front of our seeders and now we inject 30L/ha on average with variable rate technology in furrow."
[Read the full story & others at liquidsystems.com.au](http://liquidsystems.com.au)



ANDREW HANSEN, SA "The level of accuracy and consistency that the Liquid Systems equipment provides also means you're not wasting product. So for budgeting, it's very good and also for consistency of application right across the paddock"
[Read the full story & others at liquidsystems.com.au](http://liquidsystems.com.au)



PRECISION AG INTEGRATION
 All Rate Control Modules can be integrated with a wide range of Precision Ag Consoles from all leading Precision Ag manufacturers. Liquid Systems provides a range of custom adaptor harnesses to provide simple plug-and-play integration.



SAM KELLY, NSW "Liquid Systems equipment was Trimble-ready, allowing me to plug it straight in and operate off the one screen. The metering gives accuracy, which saves money. You're saving money all the time, which means you get back the cost of the system tenfold."
[Read the full story & others at liquidsystems.com.au](http://liquidsystems.com.au)



PRECISE IN-FURROW APPLICATION

- Multiple Liquids
- Section Control
- Target Inputs
- Crop Protection
- Increase Yield
- Boost Germination
- Precision Ag Integrated
- Measure & Control Inputs
- Save Fuel

SYSTEM OVERVIEW

LQS20 ORDER CODE: LQS20

LQS20 is a small low flow liquid auto-rate pump and control module. It is ideal for small implements and low rate applications where little agitation is required. Ask about the Spiker direct injection option.



Function:

Low Volume Single liquid dosing

Max. Output:

20LPM 5.3GPM(US) 4.4GPM(Imperial)

Dimensions:

W 510mm x D 870mm x H 590mm

Weight:

63kg (Module only)

Pump:

Hydraulically driven piston diaphragm pump

Hydraulics:

21LPM 5.5GPM (US) 4.6GPM(Imperial)

Electrical 12 DC: Single Swath | 2A

Section Control (8 sections) | 6A

Dual Module:

LQS20 module can be run in series with all modules.

Liquid Section Control:

Compatible

OPTION: LQS20-SPK for direct chemical injection into the output of other module.

LQS70 ORDER CODE: LQS70

LQS70 is a single liquid auto-rate pump and control module. It provides enough capacity for applying liquids at rates with good tank agitation for up to 4000L tank capacity.



Function:

Single liquid rate control

Max. Output:

76 LPM 20GPM(US) 16.7GPM(Imperial)

Dimensions:

W 710mm x D 750mm x H 570mm

Weight:

85kg (Module only)

Pump:

Hydraulically driven piston diaphragm pump

Hydraulics:

27.5LPM 7.3GPM (US) 6.0GPM(Imperial)

Electrical 12 DC: Single Swath | 2A

Section Control (8 sections) | 6A

Dual Module:

LQS70 module can be run in series with all modules.

Liquid Section Control:

Compatible

LQS120 ORDER CODE: LQS120

LQS120 is a single liquid auto-rate pump and control module. It provides capacity for applying liquids at higher rates with good tank agitation for up to 5000L tank capacity.



Function:

High Volume Single liquid rate control

Max. Output:

126LPM 33GPM(US) 27.7GPM(Imperial)

Dimensions:

W 800mm x D 860mm x H 633mm

Weight:

109kg (Module only)

Pump:

Hydraulically driven piston diaphragm pump

Hydraulics:

27.5LPM 7.3GPM (US) 6.0GPM(Imperial)

Electrical 12 DC: Single Swath | 2A

Section Control (8 sections) | 6A

Dual Module:

LQS120 module can be run in series with all modules.

Liquid Section Control:

Compatible

LQS180 ORDER CODE: LQS180

LQS180 is a single liquid auto-rate pump and control module.

It provides capacity for applying liquids at higher rates with good tank agitation for larger tanks, 5000L and over.



Function:

High Volume Single liquid rate control

Max. Output:

170 LPM 45GPM(US) 37.5GPM(Imperial)

Dimensions:

W 800mm x D 860mm x H 718mm

Weight:

121kg (Module only)

Pump:

Hydraulically driven piston diaphragm pump

Hydraulics:

27.5LPM 7.3GPM (US) 6.0GPM(Imperial)

Electrical 12 DC: Single Swath | 2A

Section Control (8 sections) | 6A

Dual Module:

LQS180 module can be run in series with all modules.

Liquid Section Control:

Compatible

ENGINEERED TO DELIVER

RATE CONTROL MODULES

RETROFIT ONTO ANY COLOUR OR SIZE IMPLEMENT TARGET INPUTS, RIGHT RATES, MULTIPLE LIQUIDS IN ONE PASS



LIQUID READY - Easy retrofit onto any liquid cart, drill or planter

FIXED MODULE DESIGN - Portable & better technical support

PURPOSE BUILT - Filtration, tank agitation, purge functions to keep lines clean & prevent blockages

BUILT TO LAST - Chemical resistant components, enhanced pump, stainless steel cabinets

ACCURACY - Calibrated rate control, verified even application

RELIABLE & EVEN APPLICATION - Positive pressure in-furrow

NUTRIENT EFFICIENCY - "STACKER" Kit & Section Control Integration

VARIABLE RATE CONTROL - Precision Ag integration & change rates on the go

Built-in to protect equipment & operators - **SYSTEMS FAIL SAFES**

No damage to liquid products - keep microbial products alive - **SAFE PRODUCT APPLICATION**

Multiple, independently controlled liquids. Add modules in series. Upgrade at later date - **FLEXIBILITY**

Each unit is factory Wet-Tested to ensure customers are up and running from day one - **GUARANTEE**

Ease of liquid handling & storage - **OPERATIONAL EFFICIENCY**

Multiple liquids - one pass application - **SAVE FUEL & TIME**

Measured & controlled placement in soil - **TARGET INPUTS**

Boost germination, protect crops, improve soil - **INCREASE YIELD**



IN-FURROW DELIVERY ROW TO ROW SECOND BY SECOND ACCURACY

The **"STACKER" Distribution Kit** is an integral part of our Liquid Systems. It has been engineered to deliver the liquid product under controlled positive pressure all the way to the opener terminals with row to row accuracy and even distribution in the furrow.

The **"STACKER"** Kit comes complete with everything needed, including mounting on any tillage bar width or row crop planter. It includes quick connect custom designed UV stable components, all plumbing, support kit & tools. With a wide range of modular kits from Single to Dual liquids, Section Control, 50-50 Shut-off combined with further choices of terminal assemblies to suit different openers, application rates, products & row spacing. The **"STACKER"** Kit provides the best delivery performance and handling around.

BENEFITS

- Proven row-to-row accuracy to optimize efficiency of liquid products.
- Targeted nutrient placement – every seed to get it's fair share.
- Even distribution down to very low application rates.
- Flexibility to work over a wide range of application rates, number of outlets and operating speeds.
- Controlled positive liquid pressure to prevent outlet blockages.
- Instantaneous start-up and shut-down at the headlands.
- The ability to apply multiple liquids in one pass.

FEATURES

- LQS custom designed components for controlled liquid delivery.
- Push in fittings for easier installation & maintenance.
- Robust, high quality, chemical resistant components.
- Tough flexible kink resistant materials.
- Incorporates appropriate filtration.
- Stainless steel mounting brackets, easy fitting to any planting or tillage implement.
- Range of terminal assemblies to suit different openers, application rates & products.

EVEN DISTRIBUTION RIGHT ACROSS THE BAR

LEE LONERGAN, NSW "It's critical for the liquid application to be very accurate to make the numbers work. With this system, each seed gets just the right amount, so there's no wastage and it's applied right at the seed source."

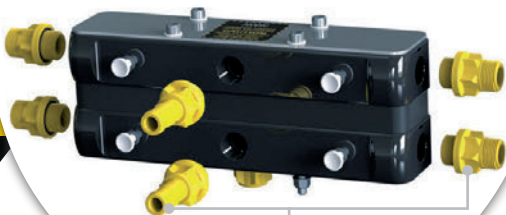
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O'RING ADAPTORS have been designed to eliminate leaks & issues that can arise when trying to maintain a seal on threaded fittings. Thread sealants are not required.

"STACKER" MANIFOLD has been designed for multiple stacking and interconnects to gives the customer total flexibility for system installation on any size tillage bars and planters. It also enables independent multiple liquids in one pass. The large manifold bore ensures even flow pressure to all lines and each outlet. Each manifold can deliver liquid to up to 20 rows/outlets.





FLEXIBLE KIT Section Control or Single Swath. The flexible design offers so much choice and is so simple to modify or upgrade.

INDUCTION FILTER Product filtration is important in maintaining open lines to all openers. STACKER's 80 mesh 2" line filter ensures any loose particles in the liquid are captured to prevent blockage or impairment of flow in the delivery lines.



SECTION CONTROL

Section control is available as an option with any LQS system. The section control assemblies incorporate three way electric ball valves in a constant flow configuration for instantaneous shut-off with seamless rate control.

A range of cabling harnesses are available for integration to allow complete flexibility when it comes to the installation location of the section control module.

Each section connects to a separate "STACKER" Manifold which are available in a variety of configurations for varying planting regimes.

Implement up to 12 sections on planters and air seeders.

PRESSURE GAUGE is 8 Bar (116psi) with stainless steel mounting brackets. Monitor system pressure at the manifolds.

MOUNTING BRACKETS are easy fitting to any planting or tillage implement. Stainless steel bolts and brackets included.

TERMINAL ASSEMBLIES We have designed a range to suit different openers, application rates and products. Custom, robust, flexible push-in fittings for narrow or wide spacing, low to high application rates and a wide range of operating speeds.

ANDREW & TIM POLKINGHORNE, SA "Our country is stony, so we have to slow down when seeding, with Liquid Systems, you can still maintain a continuous stream & that's an important part of achieving a positive field response. It changed the profitability of our farm dramatically."

[Read the full story & others at liquidsystems.com.au](http://liquidsystems.com.au)



STACKER DISTRIBUTION KIT

Row to row accuracy, variable rate application & Section Control - **NUTRIENT EFFICIENCY**

Offers the ability to apply many different types of liquid product - **LIQUID INJECTION**

Improve nutrient & water mobility in soil structure, chemistry & biology - **CHANGE SOIL**

Multiple liquids - one pass at different levels of soil horizon - **SAVE FUEL & TIME**

Up front disease protection & nutrient deficiencies - **MINIMISE SPRAYING**

Treat soil root zone and seed at the same time - **SIMPLER INOCULATION**

Ease of liquid handling & storage - **OPERATIONAL EFFICIENCY**

Measured & controlled placement in soil - **TARGET INPUTS**

Calibrated rate control, verified even application - **ACCURACY**

Positive pressure in-furrow - **RELIABLE & EVEN APPLICATION**

Boost germination, protect crops, improve soil - **INCREASE YIELD**

Easy installation on any liquid cart, drill or planter - **LIQUID READY**

Engineered chemical resistant components - **BUILT TO LAST**

Precision Ag integrated - **VARIABLE RATE CONTROL**

MICHAEL SHEPLEY, SA "More inputs at seeding for less cost, through a Liquid System, means more dollars back in my pocket. It's about \$5/ha for liquid sulphates versus about \$30/ha for SAP. So, it's \$25/ha less for liquids and we're putting more product on."

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