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Silvan

OVER/ROW

Next generation vineyard sprayer





The next generation

With improved spray performance, lower horsepower requirements and a new low profile, Silvan's G2 Over Row range is the next generation in efficient vineyard spraying.

Conclusions reached from the consultation with growers was that they wanted a vineyard sprayer that was highly efficient and accurate with easy to use new features and recognised the importance of occupational health and safety.

Featuring a next generation twin impeller turbine fan, the sprayer is more efficient and quieter in operation. Airflow can be fully adjusted by altering the gear ratio so the airstream can be matched to the canopy. Advanced rate technology is incorporated with easy to use Bravo spray rate controllers that ensure constant and precise product delivery.

The G2 Over Row comes in two and three row configurations with air assist or air shear technology to match the crop and canopy size.

The G2 TGS uses air assist diffusers and dual spray nozzles. Each air diffuser features swivel adjustment and has an air divider to direct the air evenly in the desired direction.

The G2 Turbowrap and Tri-Wrap with air shear technology incorporates adjustable venturis. With controlled air speeds of up to 170 metres per second, the G2 mixes and atomises droplets with the current of air to fill the canopy.

Available in 2000 and 4000 litre capacities, the new tank has been redesigned to be more compact. The overall width and height is more compact than Silvan's other vineyard sprayers of equivalent capacity, and chemical transfer equipment and other features have been recessed to reduce the risk of snagging on canes.

A central operator's station has been added at ground level so tank filling, emptying and most maintenance operations can be performed safely and efficiently. Chemical transfer equipment is housed in a drawer that slides away and locks in place.

Rigorously tested in the field by both growers and engineers, a G2 Over Row sprayer is a must have piece of equipment for any modern vineyard.

G2 OVER ROW





CENTRAL OPERATOR'S STATION

A central operator's station at ground level is designed for improved efficiency. Keeping operator safety in mind, Silvan has located the key maintenance and filling points at the front left side of the sprayer at ground level.



CHEMICAL INDUCTION DRAWER

Located conveniently at the central operator's station, the chemical induction drawer slides out for powder, granular and liquid chemical formulations to be mixed and transferred to the main tank safely using a venturi filling system. The position of the induction drawer means chemical containers do not need to be lifted above head height, reducing the chances of spillage and splash onto the operator. When the chemical transfer process is complete, the drawer slides away and locks in place.

SPRAY BARS

Stainless steel spray bars to withstand chemical corrosion

TANK CAPACITIES

Available in 2000 and 4000 litre capacities.

FLUSH TANK

Polytuff tank with top fill used to flush pumps, filter, spraylines and nozzles. 135L for 2000L model. 330L for 4000L model.

QUICK TURN HITCH

Optional quick turn hitch for extra manoeuvrability and tighter turns at the end of each row.

HAND WASH TANK

50 litre fresh water hand wash tank with tap.

CHEMICAL DRAWER

See above for full description.

FILL POINTS

Fast water reloads with the bottom fill inlet or top gravity fill inlet via 2" camlock fittings.





SPRAY PUMP

At the heart of the next generation G2 TGS is a specialised Silvan IDS diaphragm pump. Built to last, the pump has brass heads and manifolds and nitrile diaphragms encased in an alloy body. With the exception of the diaphragm and valves, all moving parts are immersed in a complete oil bath providing total protection against chemical corrosion.

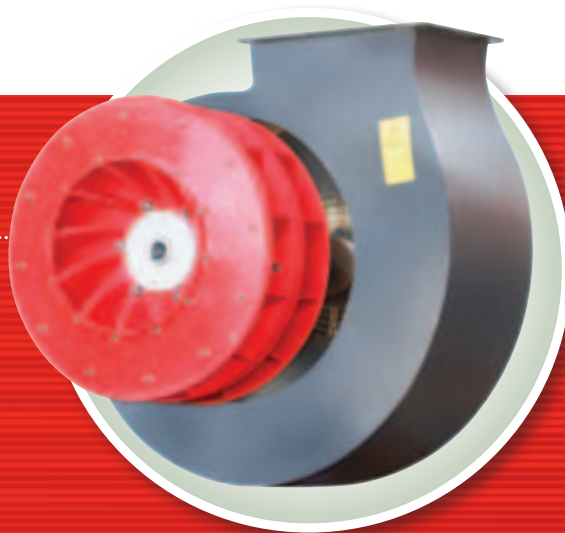
The G2 Turbowrap and Tri-Wrap units feature a stainless steel, hydraulic centrifugal pump delivering superior performance of up to 350L/m. The viton seals and stainless steel construction ensures a hard wearing and longer pump life. The hydraulic pump allows the chemical mix to be agitated without running the PTO.

BOOM

Galvanised boom comes with independent hydraulic fold for tight turns in vineyards, easy transport and stowage. Spray arms can be manually adjusted to match row widths spanning from 2.4 to 3.6 metres.

TWIN IMPELLER FAN

A twin impeller turbine fan is used on all G2 Over Row vineyard sprayers for increased efficiency. The G2 fan delivers a greater air volume ($\frac{1}{3}$ more than our single impeller fan) whilst retaining a minimal noise output - making the G2 well suited for operating in urban fringes. At a minimum requirement of 40kW, the G2 is suited to a range of tractor sizes and has the output flexibility to operate in many different vineyard applications.



GEARBOX

2 speed gearbox with neutral position for air volume adjustment to suit canopy density.

FRAMEWORK

Galvanised steel chassis and framework to withstand chemical corrosion and rust.

WHEEL EQUIPMENT

Simplicity tandem axle enables each wheel to act independently of the other for faster travel and steadier spray application.

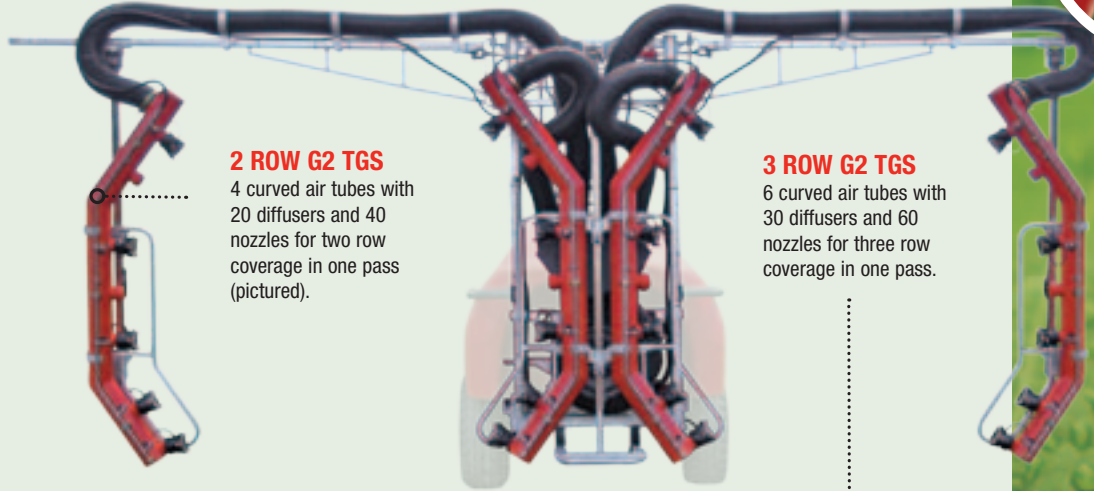
NOZZLE PROTECTORS

Galvanised bars to protect spray outlets from snagging on canes.



TGS - AIR ASSIST

The multi row spray head uses the new twin impeller turbine fan and curved air tubes designed to easily penetrate sprawling vine canopies. Each air diffuser with dual spray nozzles feature swivel adjustment and has an air divider to direct the air evenly to wherever the air diffuser is set. The G2 TGS has the flexibility to be used for concentrate spraying at low application rates or dilute spraying at higher rates.



2 ROW G2 TGS

4 curved air tubes with 20 diffusers and 40 nozzles for two row coverage in one pass (pictured).

3 ROW G2 TGS

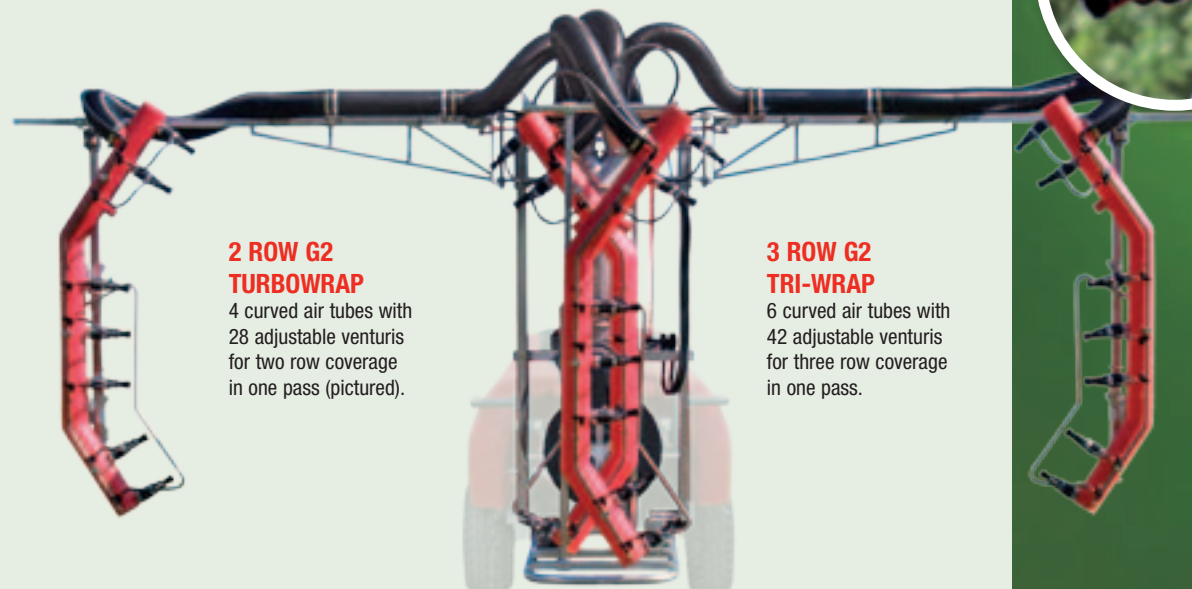
6 curved air tubes with 30 diffusers and 60 nozzles for three row coverage in one pass.



G2 OVER ROW SPRAY HEADS

TURBOMISER - AIR SHEAR

The turbine fan of this spray head creates a stronger current of air that is introduced into the air tubes and directed out through the venturis. With controlled air speeds of up to 170 metres per second, the liquid is sheared into a narrow range of droplets. This enables the G2 Turbowrap and G2 Tri-Wrap to mix the atomised droplets with the current of air so well that they are carried into the more hidden areas of the canopy while avoiding damage to fruit or flowers. The added advantage with our air shear system is it uses up to 75% less water for the same canopy coverage.



2 ROW G2 TURBOWRAP

4 curved air tubes with 28 adjustable venturis for two row coverage in one pass (pictured).

3 ROW G2 TRI-WRAP

6 curved air tubes with 42 adjustable venturis for three row coverage in one pass.



HYDRAULIC OPERATIONS

Optional hydraulic row width and vertical lift adjustment is available for on-the-go boom adjustment for different applications.



GALVANISED SNORKEL

The optional galvanised snorkel has been purpose built for the G2 Over Row sprayer. It reduces downtime from leaf blockages and helps prevent damage to fruit caused by the delivery of air that includes sand and debris.



300S rate controller



300S RCU rate controller

BRAVO 300S/RCU RATE CONTROLLERS

- Simultaneous display of application rate (l/ha), speed, area, spray volume, tank level, flow rate (l/min), field number, operating time & covered distance
- 300S model controls up to 5 sections
- 300S RCU model controls up to 5 sections and 7 hydraulic functions
- Removable Secure Digital (SD) memory card to store work reports

ROAD KIT

- Incorporates 12V tail and brake lights and indicators
- Bi-folds on the back of the sprayer when not in use to avoid damage
- Kit includes oversize sign, lights, mount, trailer plug and lead

Bi-folded



Opened



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