

HORTICULTURE SPRAY RANGE



BUYERS' GUIDE • 2024

CROPLANDS.CO.NZ

CROPLANDS IS COMMITTED TO A SUSTAINABLE FUTURE





For over 50 years, Croplands has been proudly helping New Zealand growers to protect their valuable crops. With an unwavering commitment to produce spraying equipment that is efficient, reliable and engineered to endure, Croplands is always seeking to save you time, reduce your costs and maximise your productivity.

Our very first sprayer was delivered to an orchard over 50 years ago. Since then we've grown a lot, expanding our range to cover all types of tree, vineyard and berry crops.

Our growth is reflected in the success of our customers. When they are able to protect their crop with a sprayer that's efficient, thorough and reliable, they thrive. Because we understand this, Croplands sprayers are a common sight on orchards and vineyards right across New Zealand.

And because our range is as diverse as the crops grown throughout the country, there's a machine to match every growers' needs.

Croplands are committed to product development, innovation and new technologies.

For 2024 we are proud to release our very first autonomous vehicle platform – the Robotics Plus Prospr, bringing world class technologies to New Zealand's Horticulture market.

We also release Quantum Vine Pro which will raise the bar for multi-row trailed spraying in vineyards along with Quantum Berry Pro, a new multi-row trailed solution for the growing New Zealand Berry industry.

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PROVEN COVERAGE AND TESTING

The Croplands premium fan range delivers unparalleled coverage, performance, and reliability. This is backed by New Zealand's leading fruit growers as they continue to use our sprayers to protect their high-value crops.

When it comes to pest and disease in your orchard or vineyard, spray coverage and performance efficiency are key to your success.

All our air-blast fans are engineered by Fieni, a global leader in agricultural fan design, manufacturing and innovation.

Croplands and Fieni have been collaborating since 1972 and together we set a new standard for fan sprayer performance, efficiency, penetration, and coverage. And, with Fieni fans available from 615mm in diameter to 1060mm, there's a model to meet your orchard's needs.

Croplands Tower and Vineyard sprayers are fitted with Quantum hydraulic drive fans. Quantum Fans are available in 420mm and 500mm diameter models, allowing for multiple-head configurations to target crops more directly.

The Quantum fan design delivers excellent spray coverage at higher travel speeds, allowing growers to enjoy exceptional efficiency while reducing costs.

In addition to designing and building sprayers, we continually field test our sprayers to validate their performance.

We work with independent industry experts and are guided by their recommendations. These learnings improve sprayer set up and performance for our customers.

Whether it be our iconic Quantum 420 and 500 hydraulic drive fans or our Fieni air blast spray fans, a Croplands representative or qualified dealer will match the right model sprayer to your unique requirements.

Want more proof as to why Croplands fans are the best on the market?

Croplands dealers and sales staff love nothing more than demonstrating our market-leading fans and sprayers in the field – especially in conditions unique to you.

Contact your dealer now and let us show you that the proof is in the coverage.

Orchard sprayer selection guide

CROP TYPE	ORCHARD TOWER	LINEAR TOWER	SLIMLINE	HYBRID SPRAYER	AVOLINER	KIWILINER	ROVER SP	CROPAIR LINKAGE & TRAILED	CROPAIR SP	BERRY PRO
LARGE TREES	•			•	•					
AVOCADO										
MEDIUM / DENSE TREES										
CITRUS			•	•						
NUTS			•	•						
MEDIUM TREES										
STONE AND PIP FRUIT	•	•	•							
OLIVES	•		•							
PERGOLA						•	•			
KIWI FRUIT										
BUSH AND TRELLIS							•	•	•	•
BERRIES										

Vineyard sprayer selection guide

VINEYARD SIZE	ROBOTICS PLUS PROSPR	QUANTUM VINE PRO	QUANTUM SMART SPRAY	QM-420 MULTI-ROW	QUANTUM SINGLE ROW	QUANTUM LINKAGE	CROPAIR SP
CORPORATE	•	•	•	•			
CONTRACTOR	•	•	•	•			
LARGE SCALE	•	•	•	•			
MEDIUM SCALE		•	•	•			
SMALL SCALE				•	•		
BOUTIQUE					•	•	•
NARROW					•	•	•

ROBOTICS PLUS PROSPR



NEW for 2024, a robust, autonomous, multi-use hybrid vehicle platform that significantly increases efficiency across a variety of crop tasks.

With unique modular architecture, you can rotate multiple tools and attachments across a single vehicle depending on the work of the day.

Robotics Plus and Croplands have collaborated to design a range of spray configurations suitable for various crop types and growing systems.

Fans

QM-420 individual fans. Electrically driven with individual fan speed capability and individual spray rate distribution.

Dual spray ring fitted with 10 x Albuz ATI-80 hollow cone nozzles per fan (refer page 31 for nozzle options).

Engine

Kohler Tier 4, 74 HP diesel engine

Drive

Independent electric 4-wd. 67 HP peak output with regenerative braking.

Run Time

Approx. 24 hours.

Speed

Spraying speed from 4-8 km/hr.

10 km/hr. Transport speed.

Tank

1500 litre polyethylene main tank.

Boom

Single row boom with multiple width adjustment.

Boom can be folded outwards for ease of service and adjustment.

Q4 Boom – suitable for cool climate / VSP wine grapes and berries.

Q6 Boom – suitable for warm climate / sprawl grapes.

Q8 Boom – suitable for 2-D apples and medium size tree crops.

Spray pumps

AR-160 (150 l/min, 20-Bar.) Electric drive pump.

Controls

Robotics Plus management and planning interface system with multi-vehicle remote (MVR) console for operator.

Manoeuvrability

Spot turning around centre of axle.

Min. headland for turning into adjacent row = 7.1 metres.

Max lateral slope up to 10 degrees. Max longitudinal slope up to 20 degrees.

Safety / Sensing

LiDAR coupled with cameras for intelligent detection and avoidance.

Front bumper detection.

QUANTUM VINE PRO

NEW for 2024, Quantum Vine Pro redefines the benchmark for larger scale trailed vineyard spraying. After years of market research, customer collaboration and testing, the Quantum Vine Pro is strong, agile and easy to operate.



Fans

Individual QM-420 hydraulically driven from the tractor hydraulics or via optional compact, self-contained Micro Power Pack.

8, 12 or 18 x fan configurations (refer page 28).

In-cab electric fan speed control with "Wind comp" feature as standard.

Dual spray ring fitted with 10 x Albuz ATI-80 hollow cone nozzles per fan (refer page 31 for nozzle options).

Fan Frames

Fans are mounted in a protective frame allowing simple, precise fan position settings.

NEW heavy duty fan frame mounting with improved breakaway dampening.

Tanks

NEW 2500 and 3500 polyethylene main tanks improve Centre of Gravity.

300 litre flush and 15 litre fresh water (independent tanks).



Boom

NEW heavy duty mid-mount, 2 or 3-row over row parallelogram boom with auto boom width function.

NEW hydraulic adjustable inner / rear boom for more precise fan positioning in varying row widths with optional auto boom width function.

NEW optional hydraulic adjustable left / right outer row terracing kit.

NEW optional hydraulic adjustable left / right inner row terracing kit.

Spray pumps

AR-185 or AR-250 depending on fan configuration.

Controls

Fusion controller system.

NEW ARAG IBX-100 ISOBUS controller system (refer page 30).

Chassis / axle / wheels

NEW full-length, heavy duty galvanised chassis and heavy duty 3-point self-steer drawbar.

NEW tandem walking beam axle in Narrow or wide track options.

11.5/80 x 15.3 AWT tyres fitted as standard. Flotation tyres optional.

QUANTUM SMART SP



RAY

Quantum Smart Spray is a premium model sprayer best suited to Corporates, contractors and large-scale owner growers. Available in 2 and 3-row configurations, the QM Smart Spray is packed with industry leading technology and innovation.

Fans

Individual QM-420 hydraulically driven from the tractor hydraulics or via optional compact, self-contained Micro Power Pack.

8, 12 or 18 x fan configurations. (Refer page 28)

In-cab electric fan speed control with "Wind comp" feature as standard.

Dual spray ring fitted with 10 x Albuz ATI-80 hollow cone nozzles per fan (refer page 31 for nozzle options).

Fan frame

Fans are mounted in a protective frame allowing simple, precise fan position settings.

Boom

Heavy duty rear-mounted parallelogram boom with auto boom width function.

Optional hydraulic adjustable left / right terracing kit.

Optional Drift reduction / Recapture system.

Recommended for use in 2-row, cool climate vineyards or early season spray applications.

*Requires AR-250 pump option.

Tanks

2000, 3000 and 4000 litre polyethylene tanks.

Spray pumps

AR-185 standard for 8 to 12 fan models.

AR-250 standard for 18 fan and recapture kit models.

Controls

Fusion controller system.

NEW ARAG IBX-100 ISOBUS controller system (refer page 30).

Chassis / axle / wheels

Full-length, hot dipped galvanised chassis with self-steer drawbar.

Heavy duty tandem walking beam axles.

11.5/80 x 15.3 AWT tyres fitted as standard.

Flotation tyres optional.

QUANTUM 420 2 AND 3-ROW

The Quantum 420 is a mid-spec multi-row sprayer model best suited to large vineyards, and owner growers. Available in 2 and 3-row configurations, the QM-420 delivers market leading coverage and efficiency at an affordable price.



Fans

Individual QM-420 hydraulically driven from the tractor hydraulics or via optional compact, self-contained Micro Power Pack.

8, 12 or 18 x fan configurations. (refer page 28)

Manual fan speed control.
In-cab electric fan speed control as option.

Dual spray ring fitted with 10 x Albuz ATI-80 hollow cone nozzles per fan (refer page 31 for nozzle options).

Boom

Quantum Classic boom with excellent adjustability for varying row widths.

Optional hydraulic adjustable left / right terracing kit.

Optional hydraulic adjustable left / right outer row width adjustment.

Fan frame

Fans are mounted in a protective frame allowing simple, precise fan position settings.

Tanks

2000, 3000 and 4000 litre polyethylene tanks.

Chassis / axle / wheels

Full-length, hot dipped galvanised chassis with self-steer drawbar.

Heavy duty tandem walking beam axles.

11.5/80 x 15.3 AWT tyres fitted as standard. Flotation tyres optional.

Controls

Electric, 2 or 4-section control with in-cab pressure adjustment as standard.

Optional rate controller options (refer page 30).

Spray pumps

AR-185 or AR-250 depending on fan configuration.

QUANTUM SINGLE ROW

Perfect for smaller scale and Estate vineyards the Quantum single row sprayers are ideal where tight headlands or sloping topography is a challenge.



Fans

Individual QM-420 hydraulically driven from the tractor hydraulics. (Refer page 28).

Manual fan speed control. In-cab electric fan speed control as option (*requires rate controller option).

Fan frame

1500-3000 models have fans mounted in a protective frame allowing simple, precise fan position settings.

Boom

1500-3000 models fitted with h-duty rear tower manually adjustable for varying row widths.

1000 model fitted with single pole tower with adjustable fan clamping brackets.

Tanks

1000, 1500, 2000 and 3000 litre polyethylene tanks.

Spray pumps

1500-3000 models fitted with AR-140. Optional AR-185 for higher volume applications.

1000 model fitted with AR-80 as standard.

Nozzles

Dual spray ring fitted with 10 x Albus ATI-80 hollow cone nozzles per fan (refer page 31 for nozzle options).

Controls

1500-3000 models fitted with Electric, 2-section control with in-cab pressure adjustment as standard.

Optional rate controller options (refer page 30).

1000 litre model fitted with remote mount manual controller.

Electric, 2-section control with in cab pressure adjustment as option.

Chassis / axle / wheels

Full-length, hot dipped galvanised chassis with self-steer drawbar.

1500-3000 models fitted with single fixed axle as standard. Single suspension axles optional.

1000 model fitted with single adjustable width axle.

QUANTUM LINKAGE SINGLE & TWO ROW

Perfect for small scale and boutique vineyards the Quantum linkage sprayers excel in narrow row spacings, tight headlands or where sloping topography is a challenge. A great solution for smaller frame tractors.

Fans

Individual QM-420 hydraulically driven from the tractor hydraulics.
4 and 8 fan configurations (refer page 28).

Manual fan speed control. In-cab electric fan speed control as option (requires rate controller option).

Dual spray ring fitted with 10 x Albuz ATI-80 hollow cone nozzles per fan (refer page 31 for nozzle options).

Fan frame

Fans mounted in a protective frame allowing simple, precise fan position settings.

Boom

Single row – Heavy duty rear tower manually adjustable for varying row widths.

Two row – Heavy duty fixed rear tower fitted with Classic style two row boom.

Individual left / right fold. Manual width adjustment (2.0 – 2.5 metre rows). Includes trailing wheel kit.

Tanks

600, 800, 1000 litre polyethylene tanks.
Separate flushing and freshwater tanks.

Spray pumps

AR-80 as standard.

Optional AR-140 for higher volume applications.

Controls

Remote mount, 5 x outlet, UCM manual controller with manual pressure adjustment and pressure gauge.

Electric, 2-section control with in-cab pressure adjustment as option.

Optional rate controller options (refer page 31).

Frame

Heavy duty, hot dipped galvanised frame.

QUANTUM ORCHARD TOWER

Quantum Orchard Tower has been specifically designed for medium size tree crops and 2-D growing systems up to 5 x metres in height.

Fitted with QM-420 fans the Quantum Orchard Tower achieves precise, even coverage across the entire tree structure, whilst minimising off target drift.

Fans

Individual QM-420 fans hydraulically driven from the tractor or optional independent Micro Power Pack fully enclosed oil supply system.

8 x fan configuration (refer page 28).

Manual fan speed control. In-cab electric fan speed control as option.

Dual spray ring fitted with 10 x Albuz ATI-80 hollow cone nozzles per fan (refer page 31 for nozzle options).

Fan frame

Fans mounted in a protective frame allowing simple, precise fan position settings.

Tanks

2000 Slimline (gel coated fibreglass), 2000 XL and 3000 XL polyethylene tanks.

Tower

Fixed tower designed specifically for orchard crops.

Manual width adjust for varying row widths.

Spray pumps

AR-185 pump as standard.

High volume pump (AR-250) as option.

Controls

Bravo 180-S 2-section auto rate controller as standard.

Optional ARAG IBX-100 ISOBUS controller.

Controllers can be upgraded to 4 x section plumbing as option (refer page 30 for controller specs).

Chassis / axle / wheels

Full-length, hot dipped galvanised chassis with self-steer drawbar.

Single fixed axles on XL models. Suspension or tandem axle options.

Single adjustable axle on 2000 Slimline model.
1400 mm overall width in narrow setting.

CROPLINER LINEAR TOWER

Developed by Croplands and Fieni with input from local New Zealand growers, the 920 Linear Tower delivers more accurate and uniform air output, targeted to narrow 2-D style tree plantings. Achieving more even coverage and greatly reducing off-target spray drift when compared to conventional spray fans, the Linear Tower allows more accurate targeting of specific zones of the tree.

Fans

Highly efficient Fieni DSV fans are designed to generate more air with lower HP.

Fieni 920 DSV LT (Linear Tower) (refer page 33 for detailed specs.)

Tanks

2000 litre gel coated fibreglass tank.

Spray pumps

AR BHS-170 high pressure brass pump standard.

High volume brass pump (AR BHS-200) as option.

Nozzles

Brass roll-over nozzle bodies fitted with Albuz ATI-80 degree ISO hollow cone nozzles & Albuz ceramic disc & cores.

5 x single roll-over nozzle bodies fitted in the lower fan section.

4 x double roll-over nozzle bodies in the upper fan section,
13 x nozzles per side (26 x int total).

Refer page 31 for nozzle options.

Controls

Remote mounted ARBMH50, 2-outlet manual controller as standard.

Electric, 2 -section control with in-cab pressure adjustment as option.

Optional rate controller options (refer page 31).

Chassis / axle

Full-length, hot dipped galvanised chassis with rear leaf guard / protection plate.

Fixed drawbar, adjustable for length.

Single fixed axle as standard.

Power required

920 DSV approx. 70 engine HP.

*Based on normal / flat conditions with fan operating in the mid pitch setting (refer page 29).

CROPLINER 2000 SLIMLINE



Designed to suit narrow or high density tree crop plantings, the Cropliner Slimline has been shaped for minimum crop interference.

Fan

Highly efficient FIENI 920 DSV fan designed to generate more air with lower HP (refer page 33 for detailed specs).

Spray pumps

AR BHS-170 brass pump as standard.

High volume brass pump (AR BHS-200) as option.

Controls

Electric, 2-section control with in-cab pressure adjustment as standard.

Optional rate controller options (refer page 30).

Tank

2000 litre gel coated fibreglass tank.

Nozzles

Brass roll-over nozzle bodies fitted with Albuz ATI-80 degree ISO hollow cone nozzles and Albuz ceramic disc and cores.

920 DSV fitted with 14 x nozzles per side (28 x in total) (refer page 35 for nozzle options).

Chassis / Axle

Full-length, hot dipped galvanised chassis with rear leaf guard / protection plate.

Fixed drawbar, adjustable for length.

Single fixed axles as standard.

Power required

920 DSV approx. 70 engine HP.

*Based on normal / flat conditions with fan operating in the mid pitch setting (refer page 29).

HYBRID SPRAYER



The Hybrid sprayer combines our two fan technologies. Designed to cover a wide range of conventionally planted tree crops, the Hybrid sprayer is perfect for targeting specific tree zones. Suited to 3-D tree crops up to 5 metres in height.

Fans

Fieni 920 DSV (Refer page 29 for detailed specs).

2 x Croplands QM-500 individual fans (refer page 28)
Hydraulically driven from the tractor hydraulics.

Spray pumps

AR BHS-170 high pressure brass pump standard.
High volume brass pump (AR BHS-200) as option.

Controls

Electric, 2 -section control with in-cab pressure adjustment as standard.

Optional rate controller options (refer page 30).

Nozzles

Brass roll-over nozzle bodies fitted with Albuz ATI-80 degree ISO hollow cone nozzles & Albuz ceramic disc & cores.

920 DSV fitted with 14 x nozzles per side (28 x in total)

QM-500 fan fitted with single spray ring fitted with 8 x Albuz ATI-80 hollow cone nozzles per fan (refer page 31 for nozzle options).

Tank

2000 litre gel coated fibreglass tank.

Tower Frame

Hot dipped galvanised steel single pole with support brackets.

Adjustable fan brackets to allow flexible fan positioning.

Chassis / axle / wheels

Full-length, hot dipped galvanised chassis with rear leaf guard / protection plate.

Fixed drawbar, adjustable for length.

Single fixed axle as standard.

Power required

920 DSV approx. 70 engine HP.

*Based on normal / flat conditions with fan operating in the mid pitch setting (refer page 29).

AVOLINER 920



Designed specifically for spraying avocados up to 6 x metres in height, the Avoliner is equipped with a bigger fan and pump combination.

Fans

Highly efficient Fieni DSV fans are designed to generate more air with lower HP.

Fieni 920 DSV (refer page 29 for detailed specs).

Tanks

2000 litre low profile polyethylene tank.

Spray pumps

AR BHS-200 high pressure brass pump as standard.

Nozzles

Brass roll-over nozzle bodies fitted with Albuz ATI-80 degree ISO hollow cone nozzles & Albuz ceramic disc & cores.

920 DSV fitted with 14 x nozzles per side (28 x in total) (refer page 31 for nozzle options)

Optional "Top Gun" assembly for double sided spraying of tall trees to 8.0 metres.

Controls

Electric, 2 -section control with in-cab pressure adjustment as standard.

Optional rate controller options (refer page 30).

Chassis / axle

Full-length, hot dipped galvanised chassis with rear leaf guard / protection plate.

Fixed drawbar, adjustable for length.

Single fixed axle as standard.

Power required

920 DSV approx. 70 engine HP.

*Based on normal / flat conditions with fan operating in the mid pitch setting (refer page 29).

KIWILINER 820



Designed specifically for spraying kiwi fruit where a shorter and lower profile sprayer is required. The Kiwiliner is fitted with a Fieni 820 DSV front entry fan to eliminate trash build up on the air intake grill.

Fans

Highly efficient Fieni DSV fans are designed to generate more air with lower HP.

Fieni 820 DSV FE (refer page 29 for detailed specs).

Spray pumps

AR BHS-170 high pressure brass pump as standard.

High volume brass pump (AR BHS-200) as option.

Controls

Electric, 2 -section control with in-cab pressure adjustment as standard.

Optional rate controller options (refer page 30).

Tank

2000 litre low profile polyethylene tank.

Nozzles

Brass roll-over nozzle bodies fitted with Albuz ATI-80 degree ISO hollow cone nozzles & Albuz ceramic disc and cores.

920 DSV fitted with 14 x nozzles per side (28 x in total) (refer page 31 for nozzle options).

Chassis / Axle

Full-length, hot dipped galvanised chassis with rear leaf guard / protection plate.

Fixed drawbar, adjustable for length.

Single fixed axle as standard.

Power required

920 DSV approx. 70 engine HP.

*Based on normal / flat conditions with fan operating in the mid pitch setting (refer page 29).

CROPLINER ROVER



The lowest profile and most agile self propelled sprayer on the market. The Rover 2000 sprays under trellis crops and in very dense orchards where traditional tractor and sprayer combinations are not suited.

Fan

Highly efficient Fieni 820 DSV front entry fan designed to generate more air with lower HP.

The front entry design eliminates trash build up on the intake grill (refer page 29 for detailed specs).

Spray pumps

AR BHS-170 brass pump as standard.

High volume brass pump (AR BHS-200) as option.

Controls

HV-2400 auto rate controller as standard.

Optional rate controller options (refer page 30).

Nozzles

Brass roll-over nozzle bodies fitted with Albuz ATI-80 degree ISO hollow cone nozzles and Albuz ceramic disc and cores. 820 DSV FE fitted with 14 x nozzles per side (28 x in total) (refer page 31 for nozzle options).

Tank

2000 litre low profile fibreglass tank.

Cab

Fully sealed air-conditioned cab with chemical filters supplied.

Easy navigation with reversing camera and LCD display.

Engine

Daedong Tier 4, 85 HP diesel engine.

Transmission

Mechanical drive, 5 x speed manual with high / low range.

1-24 km / hr speed range. Single speed reverse.

Selectable 2 or 4-wd and 2 or 4-wheel steer.

Four wheel disc brakes.

CROPAIR 300, 600 & 1000



Cropair 300L



Cropair 600L



Cropair 1000L

The Cropair Linkage and trailed range of sprayers are high quality yet cost effective, perfect for smaller growers and lifestyle farmers.

Fan

Highly efficient Fieni fans designed to generate more air with lower HP.

300 model fitted with Fieni 615, single speed fan and adjustable pitch blades.

600 model fitted with Fieni 815, two-speed fan with adjustable pitch blades.

1000 model fitted with Fieni 815, two-speed fan with neutral position and adjustable pitch blades.

Spray pumps

300 and 600 models fitted with AR-503 (54 l/min / 40-Bar) pump.

1000 model fitted with AR-1064 (105 l/min / 50-Bar) pump.

Controls

Remote mount 2-outlet manual controller with manual regulating valve and pressure gauge.

Electric, 2-section control with in-cab pressure adjustment as option.

Optional rate controller options (refer page 30).

Nozzles

Brass roll-over nozzle bodies fitted with Albuz ATI-80 degree ISO hollow cone nozzles and Albuz ceramic disc and cores.

300 model fitted with 5 x brass roll over nozzle bodies per side (10 x nozzles in total).

600 and 1000 models fitted with 7 x brass roll over nozzle bodies per side (14 x nozzles in total) (refer page 31 for nozzle options).

Tank

300, 600 and 1000 litre polyethylene tanks.

Independent flush tank and freshwater tank.

Frame

Heavy duty, hot dipped galvanised frame.

CROPAIR SELF PROPELLED



NEW for 2024, the Cropair Self propelled model sprayers are designed for spraying intensively planted crops including ultra narrow vineyards, orchards, berry tunnels, green houses and nurseries.

Fans

Highly efficient Fieni fans designed to generate more air with lower HP.

Fieni 400 mm standard fan fitted with 8 x blades.

Fieni 400 mm Linear Tower fan fitted with 8 x blades.

Spray pumps

AR-403 (40 l/min / 40-Bar) pump.

Controls

Remote mount 3-outlet manual controller with manual regulating valve and pressure gauge.

Tank

200 litre polyethylene tanks.

Transmission

Hydrostatic transmission with foot pedal directional control.

Frame

Self-supporting steel tubular frame, powder coated finish.

Engine

Honda OHV GX-390, 4-stroke petrol 13.5 HP engine.
Electric start.

Nozzles

Brass roll-over nozzle bodies fitted with Albuz ATI-80 degree ISO hollow cone nozzles and Albuz ceramic disc and cores.

400 Standard fan fitted with 5 x brass roll over nozzle bodies per side (10 x nozzles in total).

400 Linear Tower fan fitted with 6 x brass roll over nozzle bodies per side (12 x nozzles in total) (refer page 31 for nozzle options).

QUANTUM BERRY PRO



NEW for 2024, Quantum Berry Pro has been designed specifically for raised tabletop crops primarily grown in tunnels. Spraying 6 x beds in a single pass Berry Pro has full adjustability for premium crop protection.

Fans

Individual QM-420 fans hydraulically driven from the tractor hydraulics or via optional compact, self-contained Micro Power Pack.

8 x fan configuration. 3 x fans per side spraying down onto crop, 1 x fan per side spraying up under crop (refer page 28).

Manual fan speed control. In-cab electric fan speed control as option.

Dual spray ring fitted with 10 x Albuz ATI-80 hollow cone nozzles per fan (refer page 31 for nozzle options).

Boom

New rear mounted, front folding boom with max working width of 8 x metres.

Individual left / right hydraulic boom fold.

Hydraulic adjustable left / right terracing kit as standard.

Tanks

2000 Slimline polyethylene tank.

Spray pumps

AR-185 LFP pump.

Controls

Bravo-180S 4-section rate controller as standard.

Optional rate controller options (refer page 30).

Chassis / axle / wheels

Full-length, hot dipped galvanised chassis with self-steer drawbar.

Single fixed axles as standard.

10.0/75 x 15.3 AWT tyres fitted as standard.



QUANTUM FANS



QM-420

The Quantum 420mm-diameter fan, with a new cowl design, is highly efficient, delivering greater RPM with a lower power requirement.

It produces turbulent and high-volume air for optimum vine and tree canopy penetration and spray coverage. It is used in 2, 3 and 4 x fan (per row) configurations.

Dual spray rings are fitted with a total of 10 x nozzles per fan. 5 x nozzles are fitted to the inner or lower volume spray ring with an additional 5 x nozzles fitted to the outer or higher volume spray ring.

This allows for 3 x tier spraying (low/medium/high) rate application without the need to change nozzles.



QM-500

Designed in collaboration with SARDI, the QM-500 fan has set the benchmark in horticulture spray coverage since its release.

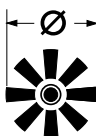
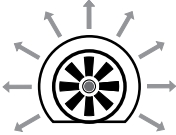
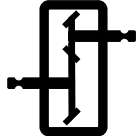
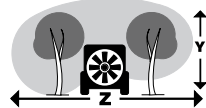
This iconic 500mm-diameter fan produces a wider band of air best suited to large and medium tree crops and vineyards with warm climate sprawl canopies.

A roto-moulded, fully integrated cowl is lightweight and impact resistant.

A single spray ring is fitted with 8 x nozzles per fan.

TECHNICAL INFORMATION

FIENI FAN PERFORMANCE

	815 VPL FAN	820 DSV FRONT ENTRY (FE) FAN	920 LINEAR TOWER (LT) FAN	920 DSV FAN	1060 DSV FAN	
	ORDER CODE	KH-5026	KH-5023	KH-5037	KH-5035	1060 DSV FAN
9-BLADE FAN						
	Fan blade diameter mm	815	815	913	913	1,060
	Standard RPM (PTO 540)	1,780	1,780	1,780	1,780	1,780
OUTPUT AND POWER						
	Pitch	34°	26°	26°	26°	64°
	M3/HR	31,948	52,955	73,682	73,682	84,696
	HP	17.5	22.7	26.4	26.4	40
	Pitch	42°	34°	34°	34°	72°
	m3/hr	36,800	57,933	81,285	81,285	99,929
	HP	27	29.2	36.9	36.9	55.5
	Pitch	50°	42°	42°	42°	80°
	M3/HR	39,200	53,860	83,798	83,798	108,618
	HP	35.4	32.3	47.5	47.5	72
GEARBOX						
	2-speed plus neutral	2 + N	2 + N	2 + N	2 + N	2 + N
	Low box ratio	1:3:50	1:2:93	1:2:93	1:2:93	1:2.93
	High box	1:4:00	1:3:29	1:3:29	1:3.29	1:3:30
PERFORMANCE* (*in ideal conditions)						
	Y = metres	5	5	6	6	9
	Z = metres	10	10	13	13	16
	Suitable tank size	800 - 1000	800 - 2000	1500 - 4000	1500 - 4000	3000 - 5000
	Recommended tractor HP	45	≥50	65	≥65	≥105
	Nozzles per side	7 + 7 (14)	14 + 14 (28)	9 + 9 (18)	14 + 14 (28)	15 + 15 (30)
	Noise rating (dB)	99.5	89.5	92	92	96
	Fan weight	88	110	178	130	188

The maximum canopy height and width figures are entirely subject to the canopy density, size, shape and weather conditions.

SPRAY CONTROLLERS

HV2400

For customers looking for a basic spray rate controller.

2 or 4-section solenoid control suitable for Croplands air-blast model sprayers.

L/ha and L/100m capability with up to 10 pre-set jobs (rates and row widths).



BRAVO 180S

For customers wanting a mid-range spray rate controller with more capability.

Up to 4-section control of motor valves or solenoids.

L/ha and L/100m capability with up to 10 pre-set jobs.

1 x RPM sensor input and fan speed control capable.



IBX 100 ISOBUS

For the progressive customer operating an ISOBUS compatible tractor or transitioning into ISOBUS compatible machinery.

*If not using an ISOBUS tractor a Virtual Terminal (display screen will be required).

Up to 8-section control valves with 9 x hydraulic functions.

L/ha and L/100m capability with up to 24 pre-set jobs.

Advanced capability to monitor and operate all advanced sprayer functions.

Optional joystick control, optional section control (requires GPS receiver).

TOPCON ISOBUS

(and Mapping package.)

For the progressive customer wanting ISOBUS without a compatible tractor.

This package utilises all the functionality of the IBX-100 ISOBUS rate controller with the addition of coverage mapping and section control.

Topcon XD 7-inch colour touch screen as virtual terminal.

*Can be upgraded to 12-inch.

ISOBUS module and required looms.

GPS receiver.



FUSION controller platform

Exclusive to Croplands the Fusion controller has been designed specifically for Viticulture.

Includes 7-inch colour touch screen and integrated deluxe joystick control.

CANBUS system with in-built diagnostics and software upgradeable for future functionality.

Up to 18-section control with 8 x hydraulic functions.

L/ha and L/100m capability with up to 3 jobs.

Advanced capability to monitor and operate all advanced sprayer functions.



NOZZLES

Croplands is the exclusive distributor for AlbuZ nozzles. At Croplands we continue to test different nozzle types to ensure your sprayer has the best suitable nozzle to maximise coverage and minimise off target drift.

ALBUZ ATI-60 and 80

New for 2024 – ATI's are ISO colour coded in accordance with International flow rate standard colour coding.

Hollow cone nozzle available in 60 or 80-degree spray angle.

Pressure range between 5-25 Bar. Recommended pressure at 10-Bar.

Fine to very fine droplet spectrum.

Ideal for fungicides and insecticides for tree, vine and trellis crops.



ALBUZ ATR-60 and 80

These nozzles have the same specifications as above but are NOT colour coded to ISO flow rate standards.



ALBUZ TVI-80

ISO colour coded in accordance with International flow rate standard colour coding.

Air-induction hollow cone nozzle with venturi system.

Available in 80-degree spray angle.

Pressure range between 3-20 Bar. Recommended pressure at 10-Bar.

Coarse to Ultra Coarse droplet spectrum for maximum drift control.

Ideal for fungicides and insecticides in densely vegetated tree, vine and trellis crops.



ALBUZ ATF-60 and 80

Full cone nozzle available in 60 and 80-degree spray angle.

Pressure range between 3-20 Bar. Recommended pressure at 10-Bar.

Fine to Very Fine droplet spectrum.

Ideal for fungicides and insecticides in densely vegetated tree, vine and trellis crops.



Disc and core ceramic hollow cone

Hollow or Full cone nozzle options.

Pressure range between 3-20 Bar. Recommended pressure at 10-Bar.

Spray angles from 20-degrees to 105-degrees.

Very Fine to Fine droplet spectrum

The combinations of discs and cores allow a wide choice of uses and applications.



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O-Tec - Onsite Mechanical Services	Kerikeri	Olaf Gustafson	021 053 4852
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