

BUYERS' GUIDE 2019

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CROPLANDS



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GENERAL MANAGER'S WELCOME

Dear Customer,

Since Croplands inception in 1972, we have remain steadfastly focused on our vision of creating innovative application equipment for sustainable agriculture. The virtues of pushing the boundaries, using the very best components and always putting the customer first have seen us experience tremendous growth and continue to serve us well.

Some 20 years ago Croplands designed the unique and exciting new hydraulically driven spray fan – the 'Quantum Mist™'. This product has continued to evolve to provide the ultimate in spray coverage across a broad range of horticultural crops.

This year we are thrilled to release the next generation 'Quantum Mist™ Smart Spray'. More than two years in the making, the Smart Spray features various key new designs and innovations including the new QM420 fan, boom and fan frame that are brought to life by the intuitive new Fusion controller.

Additionally, we are excited to finally release our patented recapture system. The Quantum Mist™ Smart Spray will deliver the best of both worlds – the best coverage in full season and the benefits of recapture.



Sean Mulvaney
General Manager
Croplands

The reason you spray is to provide your crop with the very best protection, so the performance of your sprayer is absolutely paramount and vital to the return on your investment and your livelihood. At Croplands we take this seriously and are driven to keep pushing the boundaries to deliver a premium sprayer to suit your own individual needs.

We are proud of what we have achieved so far and will continue to invest heavily to innovate and maintain manufacturing in both Australia and New Zealand. Our long-standing relationship with Fruitfed Supplies has provided an important link to match our sprayer innovations with new and emerging trends, to stay ahead of the curve. Combine this with our focus on building strong service partnerships to ensure you receive the best support, no matter where you are.

Thank you for considering a Croplands sprayer.



WHAT WE KNOW ABOUT VINEYARD SPRAYERS



Over the last 20-odd years of manufacturing and selling single and multi-row sprayers for our vineyard customers, here at Croplands we have learned a few things. In general, our customers want a sprayer that is:

- » **RELIABLE.** Probably the number one consideration for most owners and operators. Repair and maintenance costs of a well maintained Quantum Mist™ have proven to be significantly less than many other brands.
- » **EASY TO FIX.** We have learned not to over-complicate our sprayers, and to fit the best quality components we can find. When you look at a Quantum Mist™ sprayer, everything is easy to get at for service and repairs.
- » **SPRAY COVERAGE.** No other vineyard sprayer on the market has the same combination of air volume, directional spray capability, drift reduction potential and unsurpassed multi-row functionality. It adds up to what our customers need, to get the best out of their spraying program. The result is excellent coverage and real efficiency gains.
- » **PROVEN.** Our Quantum Mist™ technology is gaining more and more customer demand world-wide. Disease pressure in vines has never been so high, mainly due to growers not always understanding how important spray coverage is, and how vital dosage rates are. The Quantum Mist™ has the best track record of any sprayer on the market to help growers with these challenges.
- » **VALUE.** When you buy a Quantum Mist™ sprayer, you immediately get the value your sprayer can offer in terms of reliability, spray coverage and efficiency in the field. There is another proven value proposition you will discover when the time comes to upgrade – resale value.

**DON'T COMPROMISE,
SELECT
QUANTUM MIST™**

Cover photo: Quantum Mist™ 420 Smart Spray featuring both inner and outer drift/recapture screens, three QM420 fans per frame/12 head and Micro Power Pack. Two-row, 3000 litre sprayer with walking beam axle and flotation wheels. Photo taken in Barossa Valley, 3.25 metre rows of young Shiraz.

The ultimate performer in vineyards: Croplands Quantum Mist™ vineyard sprayers are quiet, reliable and extremely energy efficient, delivering outstanding spray coverage and performance efficiency.



QM420 fan – new in 2019

COVERAGE IS THE KEY!

Don't compromise on the best investment you can make for disease control in your vineyard.

The Quantum Mist™ vineyard sprayer has been helping growers manage their pest and disease control for two decades now, and is still recognised as the most efficient and effective multi-row sprayer in grapes.

Quantum Mist™ technology is growing in demand with customers in the US, South America and other parts of the world now using Croplands Quantum fans in preference to outdated technology.

In this catalogue, you will find single and multi-row sprayers to suit your application needs.

**DON'T COMPROMISE,
ASK FOR QUANTUM MIST™**



PROVEN COVERAGE



INTRODUCING THE QUANTUM MIST™ SMART SPRAY

1 BOOM

- » New/heavier design with improved breakaway system
- » New 'coat hanger' design allows multiple configurations (outer recapture screen or three-row fan frame)
- » Electronic boom position sensors control row widths and fan distance from the wire via Fusion controller
- » Improved 'park position' reduces width for road transport

2 QM420 FAN

- » New, improved design produces efficient, turbulent air
- » Outstanding canopy penetration
- » **Optional** left/right fan speed control via Fusion controller for wind speed compensation
- » Dual spray ring with 10 x nozzle configuration
- » Low, medium and high rate solution minimises nozzle changes

3 FAN FRAME DESIGN

- » Two or three fan frame option
- » Simple to set up for optimum coverage and repeatable outcomes

4 OPTIONAL DRIFT REDUCTION/RECAPTURE SYSTEM

- » Inner or inner and outer smart screen options
- » Modular design for easy removal
- » Reduces drift and returns 'over spray' back to tank improving efficiency and reducing chemical costs
- » Coverage is never compromised
- » Reduced trash collection via dual screen design and filters

5 FUSION CONTROLLER

- » Intuitive controller designed specifically for viticulture
- » CANBUS design controls hydraulic and electric functions
- » Full colour touch screen with integrated joystick control
- » On board diagnostics
- » Simple to update software





Quantum Mist™ Two-row Smart Spray, 3000 litre featuring both inner and outer drift/recapture screens, three QM420 fans per frame/12 head and Micro Power Pack, walking beam axle and flotation wheels. Photo taken in Barossa Valley, 3.25 metre rows of young Shiraz.

NEW FOR 2019



QM420 Fan



Fusion Controller



Micro Power Pack



QUANTUM MIST™ 420 SMART SPRAY TWO AND THREE-ROW TRAILED SPRAYERS

QM420 FAN

The new QM420 fan has been optimised for canopy penetration delivering more efficient and turbulent air.

- » Patent pending dual spray ring with ten x nozzle configuration.
- » Spray lower rates via the inner spray ring – medium rates via the outer ring – higher rates with both rings turned on
- » Consistent spray pressure and spray droplet quality from the cab without needing to change nozzles or manual tap valves
- » Sealed front cap to prevent water and mulch ingress
- » Upgraded cowling, drive body, guards and spray rings

WIND COMPENSATION

Optional fan speed compensation provides upwind and downwind air speed control via the in-cab Fusion controller ensuring the right volume of air is generated from both sides of the sprayer to optimise spray efficacy and contain drift in difficult or exposed situations.

BOOM

Quantum Mist™ Smart Spray boom incorporates a parallelogram design to simplify folding, giving a narrower parked position for road transport.

FAN FRAME

- » Heavier safety breakaway design
- » 'Coat hanger' mounting bracket design allows multiple configurations – outer row recapture smart screens or a three-row fan frame can be fitted
- » Two or three fans per frame to suit cold and warm climate vineyards
- » Simple fan positioning ensuring maximum canopy penetration
- » With easy to follow and record sprayer settings, repeatable outcomes are now possible

TANK SIZES

- » 4000 litre
- » 3000 litre
- » 2000 litre

FUSION CONTROLLER

The first truly intuitive controller designed specifically for viticulture

- » Set, manage and operate more precision settings (boom, fan and spray) than ever before
- » 10-inch full colour touch screen with integrated joystick control allows both sprayer and hydraulic functions to be operated through a single platform.
- » CANBUS designed utilising the latest technology to minimise electrical issues and potential down time
- » On board diagnostics
- » Easily upgraded via simple software updates

DRIFT REDUCTION AND RECAPTURE SYSTEM

- » Modular design can be easily removed when the canopy matures past the point of recapture benefit, allowing total flexibility
- » Detachable Smart Screens can be ordered as inner and outer or inner only configurations
- » Efficient reduction of potential spray drift and return of captured overspray to the main tank
- » Improves efficiency – especially during dormancy and early season sprays – saving on expensive chemical usage
- » Reduced trash collection via dual screen design and filters

MICRO POWER PACK

- » Revolutionary registered design unique to Croplands
- » Compact, self-contained independent oil supply supplied standard on all sprayers with twelve heads or more – optional for all other sprayers
- » Less reliance on tractor hydraulics
- » Enables smaller tractors to power Quantum Mist™ sprayers
- » Safety cut off switch if the oil level drops
- » Biodegradable oil can be supplied as an option

QUANTUM MIST™ 420 THREE-ROW TRAILED SPRAYERS



Three-row Quantum Mist™ Smart Spray two QM420 fans per frame.



Three-row Quantum Mist™ Smart Spray three QM420 fans per frame.

The three-row Quantum Mist™ range allows more hectares to be sprayed on any given day. For larger vineyard set-ups this is the most efficient way to cover the ground.

FEATURES

- » 2000, 3000 and 4000 litre tank capacities
- » New QM420 fan, available in four or six fans per row
- » Oil cooler fitted standard
- » Heavy duty self-steering drawbar standard for excellent tracking behind the tractor
- » Tandem axle is fitted standard on three-row
- » Individual left and right terracing kit available as an option where rows vary in height due to topography or terracing
- » Hydraulic outer row width adjustment and manual inner row adjustment
- » Micro Power Pack standard with twelve or eighteen fans with the product pump driven from tractor's remote hydraulics
- » Or PTO driven product pump with tractor remote hydraulics driving the fans and boom functions (dependent on tractor's hydraulic capabilities)
- » 250 L/min diaphragm pump
- » Fusion control standard

Optional left/right fan speed wind compensation.

Optional drift reduction and recapture system – inner screens only on three-row Smart Spray models.

For full specifications see page 14–15.



OIL COOLER

Quality Hydac oil cooler fitted to ensure tractor-supplied system is protected from oil overheating.



Trailed Quantum Mist™ sprayers for effortless turns and virtually no wear and tear on the PTO shaft.

QUANTUM MIST™ 420 TWO-ROW TRAILED SPRAYERS



Croplands Quantum Mist™ multi-row sprayers have been providing our grape growers exceptional spray coverage for over 20 years.

FEATURES

- » 2000, 3000 and 4000 litre tank capacities
 - » New QM420 fan, four or six fans per row – depending on canopy type and prevailing conditions
 - » Oil cooler fitted standard
 - » Self-steering drawbar standard for excellent tracking behind the tractor
 - » Tandem walking beam axle for rougher going or where stability is an issue
 - » **Optional** low-compaction tyres
 - » Individual left and right terracing kit available as an option where rows vary in height due to topography or terracing
 - » Hydraulic outer row width adjustment and manual inner adjustment
 - » Micro Power Pack standard with twelve fans; optional with eight fans, with the product pump driven from tractor's remote hydraulics
 - » Or PTO driven product pump with tractor remote hydraulics driving the fans and boom functions (dependent on tractor's hydraulic capabilities)
 - » 180 L/min diaphragm pump
 - » Fusion controller standard
- Optional** left/right fan speed wind compensation
- Optional** drift reduction and recapture system – inner screens only or inner and outer screens on two-row Smart Spray models.

For full specifications see page 14–15.

**180 L/MIN
DIAPHRAGM
PUMP**



Superior coverage with new QM420 fan

Superior coverage with new QM420 fans. Two-row Quantum Mist™ Smart Spray with 6 fans per row



NOZZLES

A KEY TO SPRAY COVERAGE

ALBUZ ATR

ALBUZ ATR ceramic hollow cone nozzles fitted to Quantum Mist™ Sprayers

FEATURES AND SPECIFICATIONS

- » Wide pressure range – 5 to 20 bar
- » Very consistent droplet spectrum over a wide range of outputs
- » Easily dismantled for cleaning
- » Lower profile, less likely to be damaged
- » Precision polished ceramic surfaces to give precise flow rate and superior durability
- » **60° and 80° now available**



NEW FOR 2019 Quantum Mist™ 1000 litre trailed model. Refer page 15 for specifications.

QUANTUM MIST™ SINGLE-ROW TRAILED SPRAYERS



Croplands hydraulic drive system was developed for single-row sprayers for vineyards to improve efficiency and simplicity for our customers.

FEATURES

- » 1500, 2000 and 3000 litre tank capacities
- » Fully galvanised chassis and tower assembly
- » Self-steering drawbar standard for excellent tracking behind the tractor
- » Tandem axle optional
- » Tractor driven hydraulic supply
- » New QM420 or 500mm fan options
- » Fresh water flushing tank provided for clean-out in the vineyard
- » **Optional** auto-rate spray controllers – see page 12 for more information
- » Standard hydraulic drive for Quantum Mist™ fans

OPTIONAL SPRAY CONTROL



**BRAVO 180
ALSO AVAILABLE
SEE PAGE 12**

CROPLANDS AUTO-RATE CONTROLLER

- » Flow-based control using flowmeter for accuracy
- » Tank volume indicator
- » Ten individual operating histories for area, liquid dispensed, distance and hours
- » 2-section control of motor valves
- » Adjustable contrast screen, back-lit for night use
- » Pre-settable row widths for on-the-go adjustment
- » L/ha for area-based or unit canopy row based calibration

Optional Electric fan speed control



2000 litre Quantum Mist™ Single-row fitted with QM500 fans

QUANTUM MIST™ SINGLE-ROW LINKAGE SPRAYERS



For smaller vineyards or where topography means a trailed sprayer is not suitable, consider the Croplands 3-point linkage sprayer range.

FEATURES

- » 600, 800 and 1000 litre tank capacities
- » Fully galvanised frame and tower assembly
- » Tractor driven hydraulic supply to minimise cost
- » New QM420 or 500mm individual fans
- » In cab electric controls optional
- » **Optional** auto-rate spray controllers – page 12 for more information
- » Unsurpassed spray coverage in an affordable package

OPTIONAL SPRAY CONTROL



**BRAVO 180
ALSO AVAILABLE
SEE PAGE 12**

CROPLANDS AUTO-RATE CONTROLLER

- » Flow-based control using flowmeter for accuracy
- » Tank volume indicator
- » Ten individual operating histories for area, liquid dispensed, distance and hours
- » 2-section control of motor valves
- » Adjustable contrast screen, back-lit for night use
- » Pre-settable row widths for on-the-go adjustment
- » L/ha for area-based or unit canopy row based calibration
- » **Optional** fan speed adjustment from the cab



Quantum Mist™
Linkage with QM500 fans

ALBUZ ATR



**ALBUZ ATR ceramic
hollow cone nozzles fitted
to Quantum Mist™ Sprayers**

FEATURES AND SPECIFICATIONS

- » Wide pressure range – 5 to 20 bar
- » Very consistent droplet spectrum over a wide range of outputs
- » Easily dismantled for cleaning
- » Lower profile, less likely to be damaged
- » Precision polished ceramic surfaces to give precise flow rate and superior durability
- » **60° and 80° now available**

SMALLER VINEYARDS



300 litre Cropair with 500mm fan



600 litre Cropair with 800mm fan



1000 litre Cropair with 800mm fan

CROPAIR

The Cropair range of linkage sprayers is ideal for tight and steep blocks. With all of the efficiencies and fan technology of our trailed units these sprayers are easy to operate in all conditions.

CROPAIR 300

- » Single speed 500mm fan with adjustable pitch blades for variable air outputs
- » Air output: 24,000 m³/hour
- » Brass double rollover nozzle bodies – 5 per side
- » High pressure AR 54 L/min (40 bar) triple diaphragm pump fitted
- » 25–30 hp power requirement to drive the fan and pump
- » 300 litre main tank with large filling lid and strainer fitted
- » 30 litre flush tank and 15 litre hand wash tank
- » Remote mounted manual tap control

CROPAIR 600

- » Two speed 800mm fan with adjustable pitch blades for variable air outputs
- » Over run clutch fitted to protect fan from sudden engagement/disengagement

- » Air output: 33,000 m³/hour (low range); 42,000 m³/hour (high range)
- » Individual air output ports which can be blanked off for full management of the airstream depending on canopy requirements
- » Brass double rollover nozzle bodies – 6 per side
- » High pressure AR 80 L/min (50 bar) triple diaphragm pump fitted
- » 50–60 hp power requirement to drive the fan and pump
- » 600 litre main tank with large filling lid and strainer fitted
- » 85 litre flush tank and 15 litre hand wash tank
- » Remote mounted manual tap control

OPTIONS (BOTH MODELS)

- » Electric in-cab control using solenoids
- » Master on/off and electric pressure adjustment

CROPAIR 1000 TRAILED

- » Tank – 1000 litre main tank. 100 litre flushing tanks (confirm volume). Hand wash tank (confirm volume)
- » Fan – 800mm fan. With poly cowl. Single speed. 6 x roll over nozzles per side
- » Pump – 130 L/min, 0–40 Bar rated.
- » Drive – standard PTO to pump, shaft supplied
- » Controls – RM40 manual regulator standard comes with remote bracket on drawbar. Manual 2-tap control with manual pressure regulation
- » Agitation – single front venturi agitation

- » Filtration – basket strainer and suction filter
- » Nozzles – brass roll over nozzle bodies
- » Chassis – galvanised chassis, adjustable axle, standard fixed drawbar
- » Wheels – 10.0/80 x 12 implement tyres

CROPAIR 1000 TRAILED OPTIONS

- » **Optional** – ARAG left/right proportional shut off with pressure adjustment
- » **Optional** – constant velocity PTO shaft in lieu of standard shaft

SPRAY CONTROLLERS



HV4000



BRAVO180-ARAG2

HV4000

Fully automatic spray rate controller for use with motor valves or solenoids using speed and flow inputs, with calibrated values pre-set by the operator.

- » On-the-go spray rate adjustment using pre-set keys
- » Flow-based control using flowmeter for accuracy
- » Tank volume indicator
- » 10 individual operating histories for area, liquid dispensed, distance and hours
- » Up to 4 x section control
- » Adjustable contrast screen, back-lit for night use
- » Pre-settable row widths for on-the-go adjustment
- » L/ha for area-based or unit canopy row based calibration
- » Four screens partitions to display up to four current functions to keep the operator informed
- » **Optional** fan speed control

BRAVO 180

- » Connectivity for GPS input and remote main control
- » USB drive for data transfer and applicable software updates
- » Application specific software for multi-row applications
- » Tank level indicator option (with appropriate sensor)
- » Automatic tank profile calibration via flowmeter
- » Automatic flowmeter calibration capability
- » Auto-stop function if required at set minimum speed
- » Capacity to store ten job configurations
- » Visual and audio alarms can be set as required
- » Temporary increase/decrease of spray output if required
- » Can be set to L/ha or L/100m
- » Display capability for speed, pressure (with optional sensor), flow rate, total output, tank level, area covered, time elapsed and distance covered
- » **Optional** fan speed control

FUSION CONTROLLER

The first truly intuitive controller designed specifically for viticulture.

- » Set, manage and operate more precision settings (boom, fan and spray) than ever before
- » 10-inch full colour touch screen with integrated joystick control allows both sprayer and hydraulic functions to be operated through a single platform
- » CANBUS designed utilising the latest technology to minimise electrical issues and potential down time

- » On board diagnostics
- » Easily upgraded via simple software updates

Please note: Fusion controller only available on two and three-row QM Smart Spray models.



NOZZLES FOR VINEYARDS

ALBUZ ceramic nozzles for vineyard crops set the standard in precision and wear resistance. Many of the crop protection products are abrasive and require an air-assisted fan-type sprayer for coverage. The wear characteristics of the highest quality ceramic materials used by ALBUZ means the flow and droplet spectrum is consistent and reliable. Choose from the options below and on the following page for your application. Talk to your Croplands or Nufarm Territory Manager for more information.

CERAMIC CONE NOZZLES FOR VITICULTURE

NOZZLE	TYPE, SPECIFICATION AND USE	FEATURES
ALBUZ ATR 80 	<ul style="list-style-type: none"> Hollow cone 80° Pink ceramic allows high pressure spraying Pressure range: 5–25 Bar Optimum range: 8–15 Bar Uses: all tree, vine and trellis crops 	<ul style="list-style-type: none"> Easily dismantled for easy cleaning Long wear life Precision polished ceramic surface for perfect sealing Ideal for fungicides and insecticides
ALBUZ ATR 60 	<ul style="list-style-type: none"> Hollow cone 60° Pink ceramic allows high pressure spraying Pressure range: 5–25 Bar Optimum range: 8–15 Bar Uses: all tree, vine and trellis crops 	<ul style="list-style-type: none"> Easily dismantled for easy cleaning Long wear life Precision polished ceramic surface for perfect sealing Ideal for fungicides and insecticides

CERAMIC AIR-INDUCTION CONE NOZZLES

NOZZLE	TYPE, SPECIFICATION AND USE	FEATURES
ALBUZ TVI 	<ul style="list-style-type: none"> Hollow cone anti-drift Venturi, 80° Pink ceramic allows high pressure spraying Pressure range: 5–25 Bar Optimum range: 8–15 Bar Uses: all tree, vine and trellis crops Sizes 0050 to 04 	<ul style="list-style-type: none"> Easily dismantled for easy cleaning. ISO colour coded Long wear life Precision polished ceramic surface for perfect sealing Ideal for fungicides and insecticides Excellent wear drift reduction is a priority

** sizes: 050, 075, 01, 015, 02, 025, 03, 04

ALBUZ ATR HOLLOW CONE FLOWRATE CHART

BAR	PRESSURE	L/MIN									
		White	Lilac	Brown	Yellow	Orange	Red	Grey	Green	Black	Blue
5	5	0.27	0.36	0.48	0.73	0.99	1.38	1.5	1.78	2	2.45
6	6	0.29	0.39	0.52	0.8	1.08	1.51	1.63	1.94	2.18	2.67
7	7	0.32	0.42	0.56	0.86	1.17	1.62	1.76	2.09	2.35	2.87
8	8	0.34	0.45	0.6	0.92	1.24	1.73	1.87	2.22	2.5	3.06
9	9	0.36	0.48	0.64	0.97	1.32	1.83	1.98	2.35	2.64	3.24
10	10	0.38	0.5	0.67	1.03	1.39	1.92	2.08	2.47	2.78	3.4
11	11	0.39	0.52	0.7	1.07	1.45	2.01	2.17	2.58	2.9	3.56
12	12	0.41	0.55	0.73	1.12	1.51	2.09	2.26	2.69	3.03	3.71
13	13	0.43	0.57	0.76	1.17	1.57	2.17	2.35	2.79	3.14	3.85
14	14	0.44	0.59	0.79	1.21	1.63	2.25	2.43	2.89	3.26	3.99
15	15	0.46	0.61	0.81	1.25	1.69	2.33	2.51	2.99	3.36	4.12
16	16	0.47	0.63	0.84	1.29	1.74	2.4	2.59	3.08	3.47	4.25
17	17	0.48	0.64	0.86	1.33	1.79	2.47	2.67	3.17	3.57	4.37
18	18	0.5	0.66	0.89	1.37	1.84	2.54	2.74	3.25	3.67	4.49
19	19	0.51	0.68	0.91	1.4	1.89	2.6	2.81	3.34	3.76	4.61
20	20	0.52	0.7	0.93	1.44	1.94	2.67	2.88	3.42	3.85	4.72

ALBUZ Equivalent*	TVI	Purple 80–0050	Pink 80–0075	Orange 80–01	Green 80–015	Yellow 80–02	Lilac 80–025	Blue 80–03	Blue 80–03	Red 80–04	Red 80–04
TeeJet Equivalent*	TX	TX-VK3	TX-VK4	TX-VK6	TX-VK8	TX-VK12	TX-VK18	TX-VK18	TX-VK18	TX-VK26	TX-VK26
	TXB80	TXB-050VK	TXB-067VK	TXB-01VK	TXB-015VK	TXB-02VK	TXB-03VK	TXB-03VK	TXB-03VK	TXB-04VK	TXB-04VK

Note: Colours in table represent actual nozzle colour. ALBUZ TVI and TeeJet TXB80 nozzle range are ISO colour coded. Nozzles with the same colour have the same output. The ALBUZ ATR and TeeJet TX range are NOT ISO colour coded. Their nozzle colour is not related to a specific output.



NEW SPRAYWISE HORTICULTURE APPLICATION HANDBOOK

Nufarm's SprayWise Horticulture Application Handbook will answer all your questions on dosage rates, chemical mixing, assessing coverage, nozzle selection, drift, calibration, adjuvants and more.

To order your copy contact Croplands on freecall 0800 106 898.



WINDMATE HAND-HELD WEATHERMETER

Weather plays an important part during application. Measuring conditions on the spot such as wind speed, Delta T and temperature make a vital difference in the daily decision making of an applicator. An increasing number of labels make it mandatory to note these conditions before commencing application. For everybody who applies chemicals, the WindMate is a must have tool.

WINDMATE FEATURES

Temperature in °C or °F

Relative humidity in % (does not need re-calibration)

Wet bulb temperature in °C or °F

Dewpoint in °C or °F

Delta T in °C or °F

Windspeed in Km/hr, MPH, knots, m/sec, Ft/min and Beaufort (also gives maximum and average)

Compass and wind direction (using wind vane)

Comfort index (takes into account the impact of wind, temperature, relative humidity and sun strength)

SPRAYER SELECTION GUIDE

Model	Tank Size (L)	Pump (L/min) (LFP = New Poly Pump Model)	Controller Models and Options	Fan Sizes	Axle and Wheel Options	Flush Tank	Hand-Wash Tank
Quantum Mist™ Trailed	1000	» AR-135	» Manual tap control STD	» QM420	Single axle STD		
	1000	» AR-135	» Electric OPT	» QM500			
Quantum Mist™ Single-row	1500	» 140 LFP STD			» Single axle STD		
	2000	» 160 LFP OPT					
	3000						
Quantum Mist™ Two-row	1500		» Manual tap control STD	» QM500	» Flotation tyres OPT	STD	STD
	2000	» 160 LFP STD	» Electric OPT		» Tandem axle OPT		
	3000	» 180 LFP OPT	» HV4000 auto-rate OPT				
	4000		» Bravo 180 auto-rate OPT				
Quantum Mist™ Three-row	2000				Tandem axle STD		
	3000	» 180 LFP STD					
	4000	» 250 OPT					
Quantum Mist™ Smart Sprayer Two-row	2000						
	3000	» AR-185					
	4000						
Quantum Mist™ Smart Sprayer Three-row	2000		Fusion	QM420	Tandem axle STD	STD	STD
	3000	» AR-185					
	4000	» AR-250 OPT					
Quantum Mist™ Linkage	600		» Manual tap control STD				
	800	» 80 LFP STD	» Electric OPT	» QM420	N/A	N/A	1000 only
		» 140 LFP OPT	» HV4000 auto-rate OPT	» QM500			
	1000		» Bravo 180 auto-rate OPT				
Cropair	300	» 50 STD		500mm	N/A		
	600	» 81 STD	» Manual tap control STD	800mm		STD	STD
	1000	» AR-135	» Electric OPT	800mm	Single axle STD		

OPT optional STD standard N/A not available

Features and options may change without notice

SELECTING THE RIGHT SPRAYER

To select the right sprayer for your production system, we recommend discussing the following with your Croplands dealer:

Crop type: ☐ Wine Grapes ☐ Table Grapes

Vineyard area (Ha):

Terrain: ☐ Flat ☐ Undulating ☐ Hilly ☐ Terraced ☐ Contoured

Row spacing (m):

Canopy height (m): Tree height (m):

Canopy width (m): Tree diameter (m):

STANDARD FEATURES AND OPTIONS

Drive*	Self-steer Drawbar	Fully Enclosed Oil System*	Suction Probe	Quick Fill	Fan Sensor	Air Adjustment	Terracing Kit	Inner Row Adjustment	Outer Row Adjustment
PTO	OPT	N/A	N/A	N/A	OPT	» Manual STD » Electric OPT	N/A	N/A	N/A
» PTO pump drive STD					N/A	Manual STD			
» CV shaft OPT									
» PTO pump drive STD » Tractor oil supply to fans STD	STD	N/A	STD	STD	OPT	» Manual STD » Electric OPT	OPT	OPT	OPT
» PTO pump drive STD » Tractor oil supply to fans STD » Micro Power Pack OPT									
» PTO pump drive STD » Micro Power Pack OPT	STD	OPT	STD	STD	STD	STD	OPT	Manual STD	STD
» PTO pump drive STD » Tractor oil supply to fans STD	N/A	N/A	N/A	N/A	OPT	» Manual STD » Electric OPT	N/A	N/A	N/A
PTO pump and fan drive STD	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
PTO pump drive STD	OPT					2-speed gearbox Single-speed gearbox			

*For oil flow and pressure requirements to drive Quantum Mist™ fans, please contact your Croplands Territory Manager, Fruited Supplies Representative or Service agent as listed on the back of this guide

Total area (ha):

Overhead irrigation height (m) (if applicable):

Trellis post height (m) (if applicable):

Headland width (m):

Application rates: Season lowest Season highest

Spraying speed range:

Tractor make and model:

Engine capacity (hp):

Oil flow (L/min) from tractor remotes:

NATIONWIDE DEALER LISTING



www.croplands.co.nz

NATIONAL DISTRIBUTORS

PGG Wrightson Stores
Nationwide, contact your local store

PGG Wrightson

Fruitfed Supplies Stores
Nationwide, contact your local store

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03 445 3730
06 323 0050
06 863 1660
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09 412 2711
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06 306 9699
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NATIONAL SALES AND SUPPORT

REGIONAL MANAGER

Rob Marshall 0272 486 822

TERRITORY MANAGERS

LOWER NORTH ISLAND

Vic Barlow 0274 752 322

UPPER SOUTH ISLAND

Rob Marshall 0272 486 822

UPPER NORTH ISLAND, LOWER SOUTH ISLAND

Chris Waites 0277 260 330

CROPLANDS NEW ZEALAND

Contact your local dealer or...

Croplands New Zealand
Freecall 0800 106 898
Freefax 0800 117 711
sales@croplands.co.nz

CROPLANDS ACCREDITED SERVICE AGENTS

SERVICE AGENT	REGION	CONTACT	PHONE
Keri Diesel Services	Keri Keri	John Stratford	09 407 5300
Norwood Farm Machinery	Whangarei	Greg Francis	09 438 3719
ME & AL Mannington	Kumeu	Mike Mannington	09 412 8927
Norwood Farm Machinery	Pukekohe	Kevin Hamilton	09 238 7189
Splash Direct	Bay of Plenty	Craig Bell	07 573 6138
The Equipment Centre	Tauranga	Ben Spooner	07 548 0194
Norwood Farm Machinery	Gisborne	Service Department	06 867 9865
Calnan's Spray Quip Services	Hastings	Greg Deck	06 879 5720
Spraying Equipment Specialist	Masteron	Vlodek Kwiatowski	04 478 2258
Tasman Sprayer Solutions	Richmond/Waimea Plains	Stu Flowers	027 442 8661
NS Rogers	Tasman Region	Nathan Johns	03 528 9212
Agrivit Ltd	Marlborough	Jeremy Watts	03 572 8787
Noble-Adams Machinery	Canterbury	Aaron Witbrock	03 349 7862
Johnson Gluyas Tractors	South Canterbury	Tony Scott-Walton	03 688 1133
Jordan Mechanical	Central Otago	Neil Jordan	027 290 5008

CROPLANDS HEAD OFFICE

Phone +61 8 8359 9300
Fax +61 8 8349 6175
f www.facebook.com/Croplands
www.twitter.com/Croplands
50 Cavan Road Dry Creek SA 5094
Technical Service +61 8 8359 9333

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OUR RANGE OF BUYERS' GUIDES



OPTIMA



Tree Crop



Self Propelled



Broadacre Trailed