

HORTICULTURE BUYERS' GUIDE



EFFECTIVE
APRIL
2014

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CROPLANDS

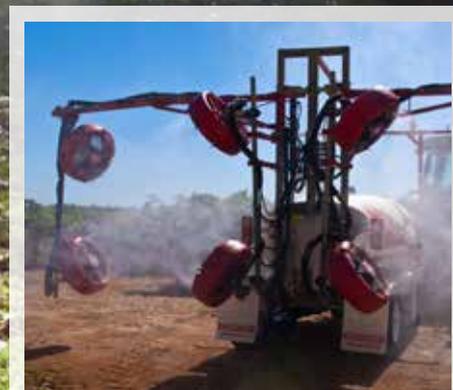
INTRODUCING
DSV FAN CROPLINER:
GREATER OUTPUT FOR
LESS HORSEPOWER

ULTRA TOWER
COVERAGE FOR
TALL TREES

PLUS

**POWER AND
PERFORMANCE**

**PROVEN
TECHNOLOGY**



**10 NEW FEATURES:
IMPROVED QUANTUM
MIST FOR GRAPES**



CROPLANDS CREDIT

MAKING PURCHASING EASY

Competitive Financing

We understand that a Cropland Sprayer represents a serious investment. Working through Croplands Credit, we offer flexible payment schedules, flexible terms, competitive rates and comprehensive financing.

All available through one source – your Croplands local dealer.

ABOUT CROPLANDS

Croplands manufacture and supply quality spray equipment, components and accessories.

UNDERSTANDING SPRAYERS

Croplands has been building sprayers since 1972. After operating for 40 years in the Australian and New Zealand environments we understand what the pressing problems are; before, during and after application. Our sprayers are built accordingly. We listen to farmers and produce cost effective solutions to suit their needs.

SIMPLE, RELIABLE AND DURABLE

Our machinery is built to high quality standards. Robust design and generous dimensions result in unmatched durability. Working with feedback from farmers and operators, we develop sprayers that provide efficiency with a simple approach. We are proud of our innovative developments in spraying equipment, such as the award winning Quantum Mist.

THE APPLICATION SPECIALISTS

At Croplands we believe it is not good enough to simply sell a piece of machinery.

We believe it is important to give advice to growers on how to achieve the best possible outcome with their unit. How many other manufacturers can confidently give tailored recommendations on nozzle selection?

Our close relationship with Nufarm gives us a good understanding of chemicals and their requirements for application. Being part of the Spraywise program, Croplands has access to the latest research outcomes. If a grower needs a specific nozzle or advanced hydraulic controls – Croplands will find the solution.

SUPPORT AND SERVICE

Our service centres are staffed by experienced and internationally trained technicians who understand what makes your sprayer tick.

Croplands' dealer network is trained to provide the very best local support. With dealers and warehouses located around the country spare parts and accessories are always available and close by.

Croplands spare parts, sprayer components and accessories are manufactured and hand-picked for superior performance and longevity.

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GENERAL MANAGER'S WELCOME

Dear Customer

Croplands' development of the Quantum Mist is one of our standout accomplishments. By working with growers, industry experts, and our own research and engineering resources we developed the Quantum Mist axial fan from concept to commercial success. It exemplifies our commitment to solving application issues faced by agricultural producers and demonstrates our focus on performance, quality and value.

In this issue of our 2014 Horticultural Buyer's Guide, it is pertinent to pay homage to the one of the key people behind Quantum Mist, Mr. George Eady. George passed away late in 2013 after bravely battling an illness he couldn't quite beat; as always, he gave it everything he had. George was a visionary man, an engineer, and most of all he was a "doer". Never happy to sit still or let a problem beat him, he would work until he had it fixed.

The Quantum Mist name and product began with George, and it's fitting that the legacy he has left behind is still the market leader world-wide in multi-fan technology. Thanks to George, and with help from many other committed people, there are fruitgrowers the world over doing a better job of protecting their crops.

Croplands continues to enhance and develop the Quantum Mist technology by working closely with growers and spray contractors and are pleased to share with you a range of improvements to the product.

I would like to personally thank our customers for choosing Croplands, and we appreciate the support and trust you have placed in us as a key partner in your business.

For those considering a new Croplands sprayer, we trust that you will find this guide helpful in making your decision and encourage you to contact a Croplands sales representative for more information.

Yours Sincerely



Sean Mulvaney
General Manager, Croplands (Australasia)



INTRODUCING THE IMPROVED QUANTUM MIST SPRAYER

Everyone knows that the Quantum Mist is the industry leading spray technology for coverage, and has been since 2003. At Croplands we asked ourselves "what can we do to improve the sprayer", and to this end we conducted a series of focus group meetings with grape growers and contract sprayers. Now, as the result of their suggestions we present the updated 2014 sprayers.

IMPROVED OIL COOLERS

- » Efficient cooling
- » No contamination
- » 12 volt electric

IMPROVED PRESSURE GAUGE LOCATION

- » Increased visibility

NEW COLOUR CODED HYDRAULIC HOSES

- » Easier coupling to tractor

HOSE AND CABLE SUPPORT BRACKET UPGRADE

- » More strength
- » Better protection

PLUMBING IMPROVEMENTS

- » Ease of use
- » Faster filling



Pictured: Quantum Mist 3-Row Sprayer with twelve 380mm fan heads. Note setup for photographic purposes, heads not aligned for spraying.

NEW

UPGRADED TOWER AND BOOM

- » More strength
- » Improved parking
- » Clever pull-lock manual outer-row adjustment system fitted to all multi-row machines

COST EFFECTIVE HEAD

- » Simple maintenance

NEW LEAF GUARD

- » Prevents debris build up

NEW PARKING BUMPER

- » Prevents head on tank damage

NARROW AXLE FOR NARROW ROWS

- » Tandem axle standard on three-row machines





QUANTUM MIST™ OVERVIEW



In 2003 the Quantum Mist fan was released to meet the demands of horticulture producers for improved application of crop protection products.

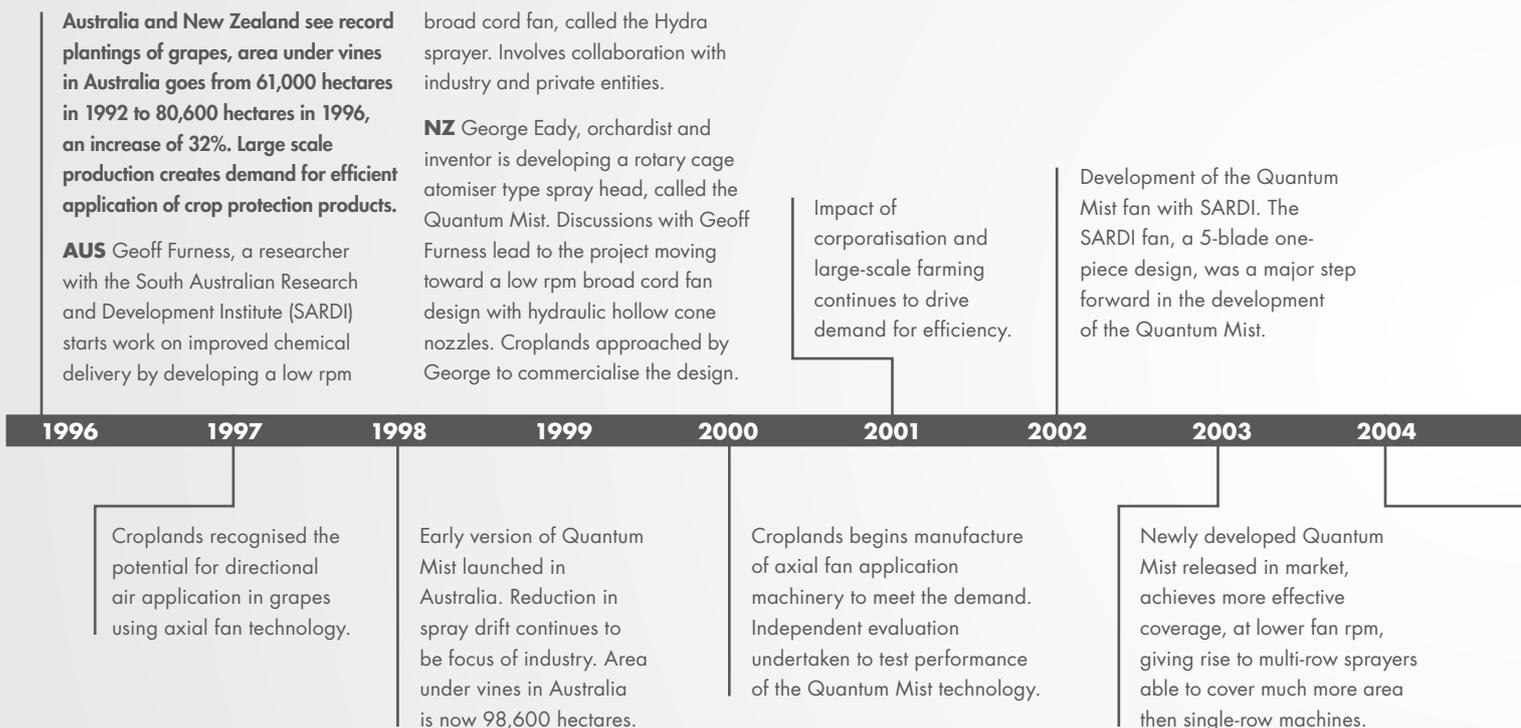
Even from the early days of design and testing, it became clear that directed air axial-fan technology could provide increased efficiency for grape growers in terms of better spray coverage, faster travel speeds, energy savings, outstanding reliability, and minimal drift potential.

The ability to spray large areas of vines economically and effectively was just what the market needed. Many growers are seeking enhanced efficiency across increased property sizes and with multi-row application, and technologies to reduce spray drift they were impressed by the results achieved with Quantum Mist.

Croplands have continued to invest in improvements, and have seen the Quantum Mist application technology become the market leader in horticulture. Today, Croplands can offer the widest range of sprayers of any manufacturer utilising multi-head axial fans.

The simplicity and reliability of the Quantum Mist underpins the proven performance of the system in the field. Spray coverage has never been better than with this technology. Efficiency gains have been outstanding, and it's no secret that the Quantum Mist has been a huge success for producers as a result.

QUANTUM MIST TIMELINE





Over 14,000
Quantum Mist fan
heads have been
sold worldwide.

QM500 500MM QUANTUM MIST™ FAN

- » 5-blade fan producing maximum air for larger, sprawl-type or vigorous VSP canopy types and tree crops
- » Eight recessed nozzles per head (up to 16 can be fitted), ceramic nozzles fitted
- » Unrestricted intake for excellent air distribution downwind
- » Extremely tough rotomolded cowl with no external spray line
- » Fully adjustable with simple clamping system

QM380 380MM QUANTUM MIST™ FAN

- » 5-blade fan producing maximum air for cool climate vine-types and managed canopies
- » Six recessed nozzles per head (up to 12 can be fitted), ceramic nozzles fitted
- » Unrestricted intake for excellent air distribution downwind
- » Extremely tough rotomolded cowl with fully protected rear spray line
- » Fully adjustable quick clamping system
- » Lower oil supply requirements to suit smaller tractors and multi-row applications



Croplands expanded their sprayer range, capitalising on the success of the Quantum Mist fan, to manufacture sprayers designed specifically for apples, citrus and kiwifruit.

Quantum Mist technology has developed rapidly, changing the way vineyards, and now orchards, are sprayed.

Croplands wins the Innovation Award from Wine Industry Suppliers Australia Inc.

Croplands undertake research and testing of alternative drive system for Quantum Mist.



Cable-drive linkage sprayer on sale. European distributor appointed. Over 10 design changes for improved user experience and spray performance.

2005

2006

2007

2008

2009

2010

2011

2012

2013

2014

A new cowl design was also introduced to incorporate the nozzle spray-ring inside the cowl. This ring was made larger in diameter to assist with achieving higher liquid application rates if required. Slight improvements in airflow were also noted from the new cowl design.

QM380 fan developed and released in market. Specifically designed for cool-climate spraying. Benefits include reduced hydraulic oil-input and oil pressure without a reduction in air velocity making 3-row spraying possible without the need for a hydraulic power-pack. The smaller fan also has better ability to band-spray for targeted applications such as flowering and bunch line sprays.

Continued development of crop specific sprayers for niche markets.

Distributor for South Africa appointed.



QUANTUM MIST™ GRAPE SPRAYERS



The ultimate performer in vineyards. The Quantum Mist offers outstanding spray coverage and improved efficiency. Each spray head is easily adjustable to achieve the best results. The high volume positive displacement pump and ceramic spray tips ensure excellent droplet deposition throughout the vine canopy.

- » Minimise drift
- » Reduce fuel use
- » Run at lower rpm
- » Increase coverage
- » Lower application rates
- » Increase spraying speeds

FEATURES

CHASSIS

Full length, hot-dipped galvanised chassis with jockey wheel and step.

MAIN TANK

UV-stabilised, high impact-resistance with external sight gauge and large flip-open filling lid.

- » Single-row 1500, 2000 and 3000 litre models available – **Now cable-drive**
- » 2-row 1500, 2000, 3000 and 4000 litre models available
- » 3-row 3000 and 4000 litre models available

QUANTUM MIST FANS

The QM500 (500mm) hydraulic drive fan head is the original design – made for larger, sprawl canopies and vigorous VSP canopies. Each fan delivers high-volume, turbulent, directional air at 24.5 M/sec*. Fitted with the 5-blade SARDI designed fan – tried, tested and proven.

The QM380 (380mm) hydraulic-drive fan head is designed for cool-climate grape canopies and those that are managed through trimming and pruning throughout the season. The air produced is very similar to the larger model – high-volume, directional for excellent coverage, produced at 17.7 M/sec*.

Cable-drive now available on all single-row and linkage models, see page 10 for details.

*Measured at 2500 fan rpm.

PUMPS

All Quantum Mist sprayers are fitted with AR (Annovi Reverberi) oil-bath positive displacement diaphragm pumps to provide excellent liquid supply to the nozzles. Typical operating pressure range is 5–12 bar at the nozzle.

FILTRATION; AGITATION

Each sprayer is fitted with a tank filling strainer, suction filter, pressure or nozzle filters and full venturi tank agitation backed with bypass agitation from the pump.

FLUSHING TANKS

Every Quantum Mist is fitted with a flushing tank as standard equipment. Rinsing the sprayer in the vineyard makes environmental sense.

SELF-STEERING DRAWBAR

Standard on all 1500, 2000, 3000 and 4000 litre 2 and 3-row machines. Vital for tighter turns to keep the trailing unit in the same track as the tractor. Optional on single-row sprayers.

TURBULENT AIR ADVANTAGE

High-volume, turbulent, directional air for excellent coverage.

The best way of delivering chemical sprays to the intended target is via a high volume, turbulent airstream of air; and the Quantum Mist does it perfectly, penetrating deep inside the canopy.

The fan heads can be directed to target specific areas of the canopy, ensuring the coverage is optimised for the conditions, and reducing off target drift.



FULLY ENCLOSED OIL SUPPLY SYSTEM

- » Option on 2 and 3-row Quantum Mist grape sprayers
- » Incorporates on-board oil tank and fully enclosed oil supply for fan operation
- » Optional hydraulically driven liquid pump can be fitted, driven by the tractor's oil supply
- » Ideal for use with tractors that have limited oil supply



LEFT AND RIGHT TERRACING KIT

- » Lift left/right hand booms independently
- » Ideal for terraced vineyards
- » Can be used for some overhead sprinkler blocks
- » Provides total control from the cab



HYDRAULIC OUTER-ROW ADJUSTMENT

- » Ideal for multi-row widths
- » 600mm adjustment from cab
- » Avoids time consuming manual adjustments
- » Hydraulic in-cab outer-row adjustment available as an option



AUTO SPRAY RATE CONTROL

- » A must for most growers to ensure exact application and assurance that spray programmes have been correctly followed
- » Displays spray rate in L/Ha or L/100m, speed, flow, and tank level
- » Stores up to 10 job configurations
- » Fan display available



IN-CAB FAN SENSORS AND CONTROL

- » With HV4000 controller fitted, fan speed sensors and controls can be used from console
- » Fan speed control used to adjust air output for differing canopy growth stages or different ages of vines
- » Ideal for early season applications, sensitive areas and increasing maximum output when required



TANDEM AXLE SUSPENSION

- » For total stability in multi-row applications
- » Standard on 3-row sprayers, optional on single and 2-row machines
- » Available in steering configuration on 3000 and 4000 litre 2 and 3-row sprayers



LEAF GUARDS

- » Fitted to lower fans to reduce build up of debris
- » Ensure fans keep operating at optimum air output



SELF-STEER DRAWBAR

- » Allows for tighter turns
- » Protects PTO driveshaft
- » Sprayer follows tractor tracks



2" QUICK FILL

- » Allows rapid filling from external source without the need for overhead tanks
- » With camlock connection and top/bottom internal dropper to minimise tank foaming



Quantum Mist Cable-drive sprayers provide solutions for specialised production systems and smaller horticultural holdings.



CABLE-DRIVE QUANTUM MIST™ SPRAYERS

The cable-drive system has been initially developed for single row Quantum Mist sprayers to enable smaller tractors to use the extremely successful Quantum Mist technology. For linkage sprayers, single-row sprayers and horizontal boom applications, the cable-drive system provides excellent options for growers with savings in power requirements and fuel use.



For canopy crops, such as grapes or other trellis-grown fruit, four fans – in either 380mm or 500mm configuration – are individually directly driven by a flexible cable from a central gearbox located on the sprayer frame. Croplands have been working on this design for two years with the aim of introducing the system as a very simple and reliable option. For horizontal use in crops such as strawberries or vegetables, up to five 380mm or 500mm fans can be driven using cable-drive.

Croplands have a great device called the Visio for this purpose as an option.

A number of key benefits are provided with the cable drive system. The whole system is very quiet, very simple and easy to maintain. No electrical or hydraulic circuitry to the fans is required. It is fully serviceable – provided the outer cable sheath is not damaged, a new inner cable can be put in place within a few minutes. It's easy to understand how it works.

The central gearbox is driven by a hydraulic motor by the tractor hydraulics. The cables simply plug into the multiple outlet, central gearbox at one end, and the Quantum Mist fan head at the other. It couldn't be simpler.

For more information on oil-flow requirements to drive the distribution gearbox, as well as total power required for 4 or 5 fans (380mm or 500mm), please contact Croplands.

The hydraulic drive on the central gearbox incorporates a soft-start system to ensure the system starts slowly. The gearbox has a clutch over-run to allow the system to slow down when the fans are stopped to avoid damage to the cables themselves. Manual fan speed adjustment is fitted standard; electric fan speed adjustment is optional using an HV4000 auto-rate controller. If the operator requires a fan speed monitor using the manual speed adjustment system,



ALBUZ ATR

ALBUZ ATR ceramic hollow conejets now fitted to Quantum Mist sprayers



FEATURES AND SPECIFICATIONS

- » Wide pressure range, 5–25 bar
- » Easily dismantled for cleaning
- » Lower profile, less likely to be damaged
- » Precision polished ceramic surfaces to give precise flow rate
- » Extremely durable pink ceramic surfaces



2000 litre single-row Cable-drive Quantum Mist with 380mm fan, optional tandem axle and self-steer drawbar

SINGLE-ROW TRAILED CABLE-DRIVE QUANTUM MIST™

Available in 1500, 2000 and 3000 litre tank sizes, the cable-drive single row Quantum Mist provides an economical spraying solution incorporating the latest individual fan technology.

Four 380mm or 500mm cable-drive fans are fitted on adjustable height and width brackets for easy configuration to the crop needs. A 125 litre per minute PTO drive pump is fitted to the sprayer with larger pump models available on request.

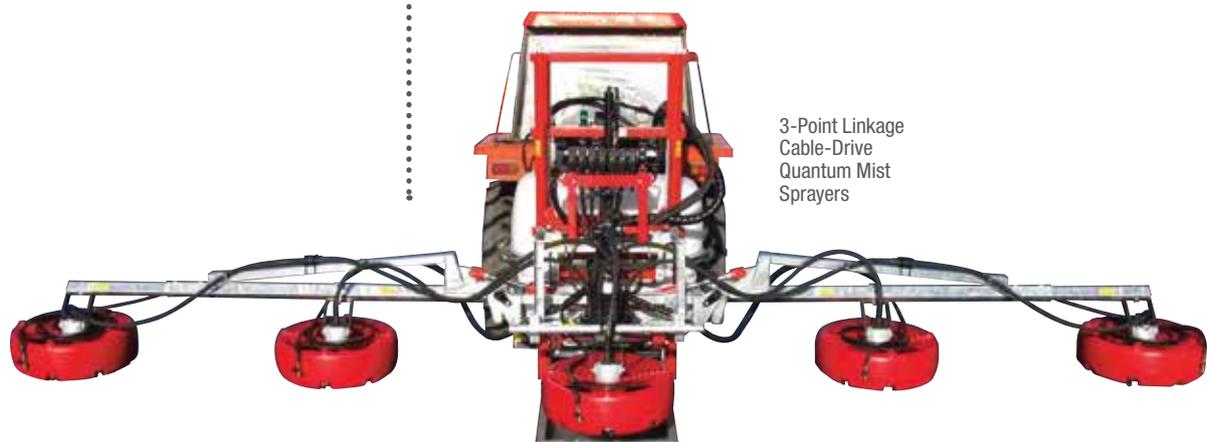
Flushing and handwash tanks are fitted standard to all models to allow for full cleanout in the field, as well as operator fresh water from the hand wash tank if needed. Ceramic ALBUZ conejets are fitted standard to ensure excellent droplet formation for maximum coverage. Options for the single-row range are: Electric or fully automatic spray rate control, self-steering drawbar, sprung single axle or sprung tandem axle, individual left/right terracing, flotation tyres and a 160 L/min pump option.

HORIZON ROW-CROP CABLE-DRIVE QUANTUM MIST™

The Horizon cable-drive Quantum Mist sprayer is built for row crops such as strawberries or vegetables.

Up to five 380 or 500mm fans can be mounted on the galvanised hydraulic fold boom. The outer wings of the boom slide in or out to match row spacing – these can be pre-set at the factory. Options include 500, 700 or 1000 litre tank sizes, hydraulic height adjustment and electric or auto-spray rate controls. A 115 L/min pump is standard.

Below: With many features in common with the single-row trailed models, the cable-drive linkage sprayer will suit row crop applications. A 500, 700 or 1000 litre tank is available in this range. Options include electric or auto-spray rate control and electric air-speed adjustment with the HV4000 fitted. Hydraulic boom fold is standard.



3-Point Linkage Cable-Drive Quantum Mist Sprayers



QUANTUM MIST™ TOWER



FOR INTENSIVE TREE CROPS

Growers of high-value tree crops such as pip and stonefruit or avocados have moved to more intensive plantings to maximise their returns and improve harvesting efficiency.

Often this has meant the conventional air-blast sprayer doesn't suit the orchard design.

The tree shape in these situations lends itself perfectly to the Quantum Mist Tower sprayer – built specifically for these intensive plantings.

With three Quantum Mist heads per side, the tower sprayer provides much more precise application to each sector of the

tree, with a total of 24 nozzles per tree-canopy side compared to a conventional sprayer with around 10 nozzles per side.

Better coverage with faster travel speeds makes total economic sense and is exactly what growers are discovering with the Quantum Mist Tower sprayer.



Quantum Mist Tower sprayer

STANDARD FEATURES

CHASSIS

All models have a full length hot-dipped galvanised chassis. The chassis is designed for moderate flex combined with high strength to allow for incremental movement under load.

The HS (slimline) model has an adjustable axle whilst the standard XL model has a fixed axle matched to the tank size.

MAIN TANK

UV-stabilised, high impact-resistance with external sight gauge and large easy access filling lid.

- » HS version – 2000 litre main tank, optional 80 litre flush tank, 15 litre handwash tank, with suction probe and chemical pre-mixer standard
- » XL version – 2000, 3000 or 4000 litre main tank, with 130/90/80 litre flush tank, 15 litre hand wash tank, with suction probe and chemical pre-mixer standard
- » The tank shape of the HS model is shaped to allow for narrow rows in intensive plantings – 1.4 metres wide from outside to outside of the wheels with the tank itself 1.3 metres at its widest point

QUANTUM MIST FANS

Six individual 500mm Quantum Mist fans for complete canopy coverage, effective for all spray applications. Comes with eight individual nozzles per fan, and up to 16 nozzles can be fitted on each fan as an option using double nozzle assemblies. Each fan can be individually adjusted, to maximise the coverage across different canopy types and stages. Leaf guards are fitted to the two bottom fans.

PUMPS

AR (Annovi Reveberi) 4-diaphragm positive displacement pump with an open-flow of 180 L/min, running at between 5 and 12 bar pressure in normal operating conditions. An optional brass head/manifold 200 L/min AR pump can be fitted where higher flows and pressures are required.

FILTRATION; AGITATION

Filtration is provided by a tank filling strainer, large suction filter and a pressure line filter or nozzle filters (main pressure filter is standard with electric controls and auto-rate controls). Tank agitation is provided by twin venturi agitators in the tank backed up with bypass from the pump.

FLUSHING TANKS

Separate flush tank fitted as standard (size dependant on main tank size selected).



SELF-STEERING DRAWBAR

Included in the chassis design is a self-steering drawbar system to allow for tighter turns and to ensure the sprayer tracks very closely to where the rear tractor wheels turn.

OPTIONAL FEATURES

TANDEM AXLE

A tandem simplicity-style axle option is available on all XL models. On the 3000 and 4000 litre model, a tandem steering axle is available – all tandem axles have mudflaps fitted.

FULLY ENCLOSED OIL SUPPLY SYSTEM

90 litre oil tank mounted on sprayer with self-steering drawbar linked to sprayer.

AUTO SPRAY RATE CONTROLLER

Several models of electric or auto-rate controls are available for the Quantum Mist Tower sprayer – the most commonly fitted is the HV4000 auto-rate controller with up to two shut-offs per side. The HV4000 provides automatic spray rate application with a back-lit contrast screen showing up to four functions at one time. For more information on the HV4000 and other controllers, see page 24.

IN-CAB FAN SPEED CONTROL

With the HV4000 controller fitted, an integrated in-cab fan speed control can be used from the console to adjust the air output for differing canopy growth stages. Ideal for early season applications, in sensitive areas, and for increasing maximum output when required.

WHEELS

Optional upgrade to 400 x 15.5 flotation tyres in lieu of standard type on the single-axle.

SPRAYER SELECTION GUIDE

STANDARD FEATURES AND OPTIONS

MODEL	TANK SIZE (LITRES)	PUMP (L/MIN)	CONTROLLER MODEL OPTIONS	FAN SIZE OPTIONS	AXLE AND WHEEL OPTIONS	FLUSH TANK	HANDWASH TANK
Quantum Mist™ single-row	1500, 2000, 3000	125 (STD), 160 optional	Manual, electric, MT3405, HV4000, Bravo 180	QM380, QM500	Flotation tyres, suspension axle, tandem suspension	STD	STD
Quantum Mist™ 2-row	1500, 2000, 3000, 4000	160					
Quantum Mist™ 3-row	3000, 4000	180 (STD), 250 optional			Tandem suspension (STD), steering optional		
Quantum Mist™ Tower	2000, 3000, 4000	180 (STD), 200 optional		QM500	Flotation tyres, (STD) tandem suspension, steering on 3000/4000		
Quantum Mist™ Linkage	700, 1000	115		QM380, QM500	N/A		
Quantum Mist™ Ultra Tower	4000	250 with 135 for agitation	Electric, MT3405, HV4000	QM500	Flotation tyres (STD), tandem suspension, tandem steering	STD	STD
Cropliner HS (slimline) Poly	2000	170 (STD), 140/200 optional	ARBMH50 (STD), electric, MT3405, HV4000, Bravo 180	820SV, 920DSV, 920SVLT	Flotation tyres	•	STD
Cropliner HS (slimline) F/glass (NZ only)	2000					N/A	
Cropliner XL	1500	140	ARBMH50 (STD), electric, MT3405, HV4000, Bravo 180	820LT, 820SV, 920DSV	Flotation tyres, suspension axle	STD	STD
	2000	170, optional 200		820LT, 820SV, 920DSV, 920SVLT	Flotation tyres, suspension axle, tandem suspension		
	3000						
	4000						N/A
Cropair	500, 700	81 (STD), 105 optional	Manual ARVDR50 (STD), electric	620SV, 820SV, 820LT, 920DSV	N/A	N/A	N/A

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 Citrus Apples Stonefruit Bananas Other

Vineyard/orchard area (Ha):

Terrain: Flat Undulating Hilly Terraced Contoured

Row spacing (m):

Canopy height (m): Tree height (m)

Canopy width (m) Tree diameter (m)

Overhead irrigation height (m) (if applicable):

CV SHAFT	SELF-STEER DRAWBAR	FULLY ENCLOSED OIL SYSTEM	SUCTION PROBE	QUICK FILL	SINGLE SIDE VOLUTE	FAN SENSORS	TERRACING KIT	OUTER-ROW WIDTH ADJUSTMENT	UPPER TOWER ADJUSTMENT
•	•	N/A	•	•	N/A	•	•	N/A	N/A
N/A	STD	•	•	STD	N/A	•	•	•	N/A
N/A	STD	•	•	STD	N/A	•	•	•	N/A
N/A	STD	•	STD	STD	N/A	•	N/A	N/A	N/A
N/A	N/A	N/A	•	•	N/A	•	•	N/A	N/A
N/A	STD	•	STD	STD	N/A	•	N/A	N/A	•
•	•	N/A	•	•	•	N/A	N/A	N/A	N/A
•	•	N/A	•	•	•	N/A	N/A	N/A	N/A
•	•	N/A	•	•	•	N/A	N/A	N/A	N/A
•	•	N/A	•	•	•	N/A	N/A	N/A	N/A
•	•	N/A	STD	STD	•	N/A	N/A	N/A	N/A
•	•	N/A	STD	STD	•	N/A	N/A	N/A	N/A
N/A	N/A	N/A	•	N/A	•	N/A	N/A	N/A	N/A

• optional STD standard N/A not available

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/m) from tractor remotes

QUANTUM MIST™ ULTRA TOWER



The Quantum Mist Ultra Tower is perfect for larger tree spraying of crops such as citrus, avocados and mangos.

The Ultra Tower allows you to cover ground faster with time saving and reduced fuel costs compared to traditional air blast technology.

Unbeatable canopy coverage in tall tree crops.

STANDARD FEATURES

CHASSIS

Full length hot-dipped galvanised chassis with jockey wheel or stand and pull out step.

FLUSHING TANKS

Separate 80 litre flush tank fitted as standard.

MAIN TANK

4000 litre UV-stabilised; high impact-resistance polyethylene tank with external sight gauge and large easy access filling lid.

SELF-STEERING DRAWBAR

Included in the chassis design is a self-steering drawbar system to allow for tighter turns and to ensure the sprayer tracks very closely to where the rear tractor wheels turn.

QUANTUM MIST FANS

Eight individual 500mm Quantum Mist fans for complete canopy coverage, effective for all spray applications. Comes with eight ceramic ALBUZ conejet nozzles per fan, and up to 16 nozzles can be fitted on each fan as an option using double nozzle assemblies. Each fan can be individually adjusted, to maximise the coverage across different canopy types and growth stages. Leaf guards are fitted to the two bottom fans.

HYDRAULICALLY FOLDING TOWER

The top section folds hydraulically for transport and shed storage.

PUMPS

Annovi Reverberi oil-bath positive displacement diaphragm pumps with chemical resistant diaphragms and corrosion resistant cast anodised body.

FILTRATION; AGITATION

Fitted with a tank filling strainer, large suction filter, and pressure filter or nozzle filters. Full venturi tank agitation backed with bypass agitation from the pump.



OPTIONAL FEATURES

AUTO SPRAY RATE CONTROLLER

Select from the HV4000 or BRAVO180 controllers, setup with 2 or 4-section controls (see page 24 for more information).

IN-CAB FAN SPEED SENSOR AND CONTROL

With the HV4000 controller fitted, rpm sensors can be added as an option to the fan system to monitor one or all eight fans.

Electric fan speed control can be used from the HV4000 console to adjust the air output for differing canopy growth stages. Ideal for early season applications, in sensitive areas, and for increasing maximum output when required.

HYDRAULIC TOWER WIDTH ADJUSTMENT

Hydraulic width option for the upper-section for accommodating differing tree shapes.

FULLY ENCLOSED OIL SUPPLY SYSTEM

120 litre oil tank and PTO driven oil pump mounted on self-steering drawbar assembly to drive all fans independently of the tractor oil supply. Tractor oil supply drives liquid pump. Ideal option for tractors with a limited oil supply.

Quantum Mist Ultra Tower sprayer



NEW AND IMPROVED FAN

Quieter and with greater output, the new 920 DSV fan featured on the Cropliner uses less horsepower and saves fuel.

CROPLINER

For growers interested in a more conventional air-blast sprayer design, Croplands has a full stable of models with some crop-specific features and options to round out the package.

FANS

From the smaller 620SV fan through to the new 920DSV fan, there will be a model to match up to the tree shape and size on your orchard. Along with the standard version of the 920mm DSV fan, the LT (Linear Tower) directional volute fan is available. Every fans cowling and back plate is made of steel – either galvanised or fully stainless. Croplands' range of fans is second to none, with high volume air available to really penetrate into the canopy for exceptional coverage. Every Cropliner fan has a heavy-duty gearbox and a centrifugal clutch with relineable shoes running on a steel-lined clutch hub. This will ensure years of use in the demanding environment of horticulture.

DSV FAN

With many developments and innovations to the fan blade, clutch and gear box the new Croplands DSV fan is specifically designed to give greater coverage with a reduced horsepower requirement, enhanced fan efficiency and increased tractor reliability. Less reliance on horse power means a considerable saving on fuel and much quieter operating noise levels from both the fan and the tractor.

PUMPS

Every Cropliner is fitted with a 50 bar rated oil-bath AR diaphragm pump matched to the model size. The 2000, 3000 and 4000 litre models have a brass head/manifold pump fitted standard.

CHASSIS

The proven chassis design, fully galvanised, will last the life of the Cropliner sprayer, and comes standard with excellent features such as a heavy-duty bumper, a leaf guard, and a large step for safety when accessing the filling or mixing lids.

NOZZLES

All nozzle bodies on our air-blast sprayers are brass, and have a roll-over function that give two individual nozzle selections by turning the body 180 degrees – and they can be fully shut off with a 90 degree turn.

DSV FAN CROPLINER

- » Up to 37% more air than previous model
- » Quieter operation
- » More nozzles for better coverage
- » More efficient fan with lower horsepower requirements
- » Improved productivity

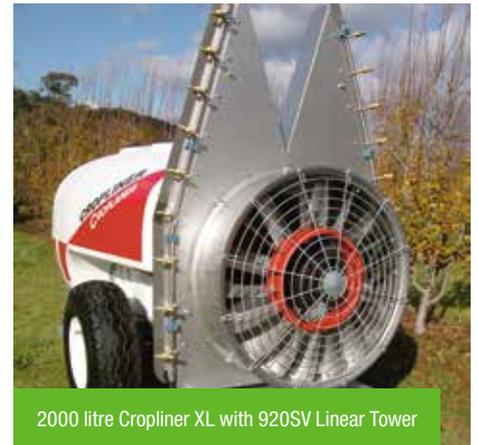
NEW



Cropliner 2000 featuring updated 920 DSV fan



Cropliner HS



2000 litre Cropliner XL with 920SV Linear Tower

CROPLINER HS

1. Heavy-duty oil-bath brass diaphragm pump provides positive displacement at high pressure to ensure excellent droplet atomisation at all times
2. UV-stabilised poly tank for all models. High impact resistance
3. Large mixing and filling lid making tank access and filling simple and easy
4. Agitation is supplied from the pump bypass and pressure venturi agitation to ensure tank mix is continuously agitated
5. Optional flush tank to take care of the operator and ensure the tank can be rinsed in the orchard where it should be done
6. 820 SV and 920 DSV fan models. Stainless steel shroud, heavy-duty adjustable blades, 2-speed heavy-duty gearbox and large centrifugal clutch for maximum durability in the demanding orchard environment
7. Bumper bar and leaf guard to protect your fan from accidental damage
8. 6-stud steel rims, tubeless tyres and heavy-duty hubs and stubs are standard on the adjustable axle
9. Full-length galvanised chassis is fitted with an adjustable drawbar, step and wheel scrapers

CROPLINER XL

From 1500 litre to 4000 litre tank sizes. Fan options include 820mm and 920mm DSV fan, 820mm and 920mm SV fan on the Linear Tower. Every Cropliner XL is fitted with an AR 0-50 bar diaphragm pump and heavy-duty PTO shaft.

OPTIONAL LINEAR TOWER FAN

For certain applications, the Linear Tower Fan provides directed air capacity to ensure spray coverage is placed exactly where it is needed. Available in 820mm and 920mm fan sizes with either seven or nine nozzles per side respectively. Ideal for vine crops, trellis-grown crops or certain dwarf tree applications.

ALBUZ ATR NOZZLES

ALBUZ ATR ceramic hollow conejets now fitted to Cropliner sprayers

FEATURES AND SPECIFICATIONS

- » Wide pressure range, 5-25 bar
- » Easily dismantled for cleaning
- » Lower profile, less likely to be damaged
- » Precision polished ceramic surfaces to give precise flow rate
- » Extremely durable pink ceramic surfaces



Suspension on tandem axle for XL series sprayers



Brass pumps in 170 and 200 L/min models, 170 standard on 2000, 3000 and 4000 models



Flotation tyres available on most models



Brass roll-over nozzle body



Fully automatic spray rate controller HV4000

For orchards and berry production, the self-propelled Cropliner offers maximum practicality and comfort.

CROPLINER SP



Cropliner SP

The Cropliner Self Propelled sprayer is perfectly designed to suit the needs of orchards and is an impressive machine that should be considered when upgrading your spraying equipment. The Cropliner SP can go more places than your current tractor and trailed or linkage sprayer combination, thanks to its low and compact design.

This unit is built with operator comfort and practicality in mind, with an air conditioned fully enclosed cab with carbon filters, featuring radio/CD player and excellent visibility from the windscreen and rear camera.

With four wheel steer the tight turning capability of the Cropliner SP means that properties with narrow headlands are no challenge, and you will increase your spraying efficiency by quickly getting into the next row. This unit is mechanically driven, with a top speed of 20 km/hr.

FEATURES

- » 1000 litre fibreglass tank, with paddle wheel agitation
- » AR 135 diaphragm pump belt driven direct from the engine
- » 900mm fan with double spray ring and 14 ALBUZ ATR nozzles/side with double roll over bodies
- » Standard with HV4000 auto rate controller
- » Hyundai 65 hp diesel engine (turbo)
- » 5 speed manual transmission with a high and low range gearbox
- » 4 wheel drive, 4 wheel steer, crab steer, 2 wheel steer
- » Air conditioned cabin with carbon filter
- » Full time rear camera
- » Head lights, reversing light
- » Dimensions are L: 4245, H: 1465, W: 1340

NEW 2000L MODEL COMING SOON



Self-propelled Cropliner in berry production

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.

TANK SIZES

In the Cropair linkage range, a 500 litre and 700 litre model give options for smaller holdings, or where a trailing machine is not an option.

PUMPS

Every Cropliner or Cropair is fitted with a 50 bar rated oil-bath AR diaphragm pump matched to the model size.

NOZZLES

All nozzle bodies on our air-blast sprayers are brass, and have a roll-over function that give two individual nozzle selections by turning the body 180 degrees – and they can be fully shut off with a 90 degree turn.

SINGLE-SIDED VOLUTE

The single-sided volute suits the 920DSV fan, allows one-sided spraying and is ideal for very tall trees or shelter belts.

AIRBLAST APPLICATION

Matching a fan to the needs of the orchard is the key to choosing the right option for your needs.



700 litre Cropair shown with 920mm DSV fan and optional single-sided volute



500 litre Cropair shown with 820mm Linear Tower fitter



500 litre Cropair with 820mm fan

For controlled herbicide use, the Herbiliner is the best option for no drift, precise application.

HERBILINER



Croplands Herbiliner trailed herbicide applicators can provide up to 3-row application with features and options well suited to the task. Either as a linkage mounted single-row sprayer, or coupled to a trailing herbicide tank and chassis, with optional herbicide injection, the system gives growers another tool for ensuring these jobs are done on time and efficiently.

HERBILINER

Available in 1500, 2000 and 3000 litre sizes, with options of 2 or 3-row configuration, the Herbiliner features:

- » Positive displacement diaphragm pump
- » Electric section control
- » Galvanised chassis
- » Front-mounted hydraulic fold boom
- » Covered booms
- » Suction probe
- » Flushing and hand-wash tank
- » Optional self-steering drawbar
- » Optional tandem suspension axle
- » Quick fill option

HERBILINER PLUS

The Herbiliner Plus has some extra options, and is based on the same chassis design as the Quantum Mist vineyard sprayer. A rear mounted folding boom assembly allows a hydraulic terracing kit to be fitted, a hydraulically operated outer-row adjustment kit option, and can be made in tank sizes of 2000 and 3000 litre.



Injection system fitted to Herbiliner Plus



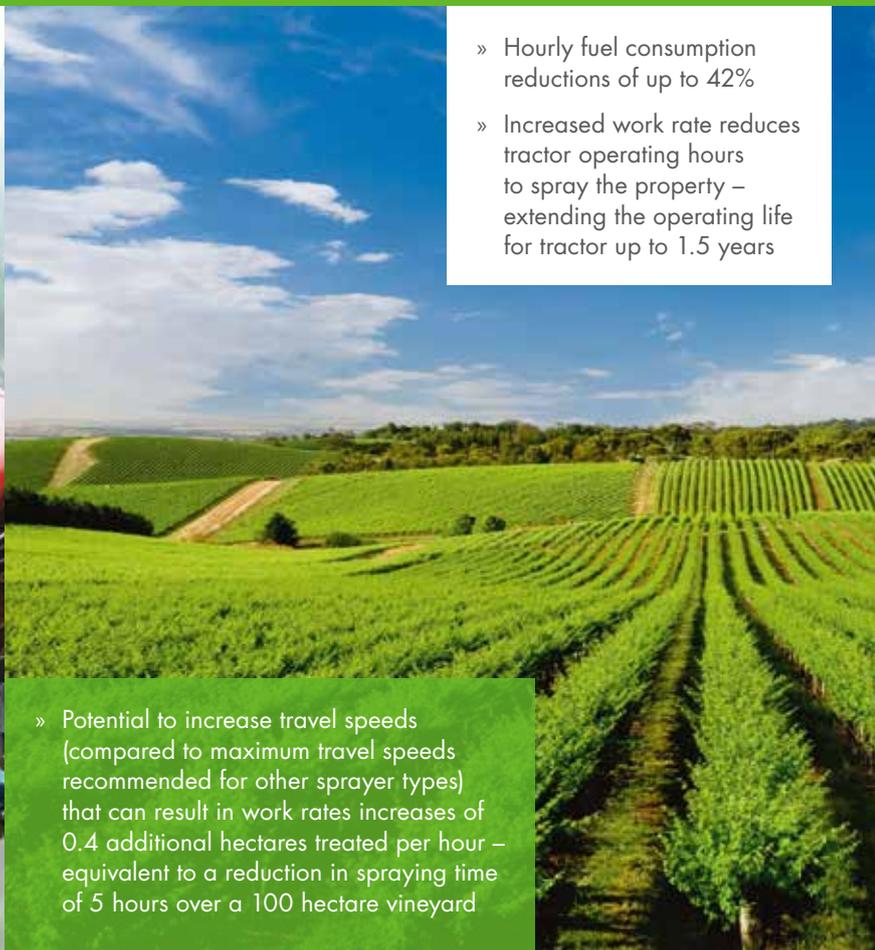
» The Quantum Mist 3 row sprayer tested showed up to a 12.75% reduction in decibel compared to other brand sprayers, reducing noise discomfort to operators and neighbours.



WHY MORE AUSTRALIAN VINEYARD MANAGERS ARE CHOOSING THE QUANTUM MIST 3 ROW SPRAYER



» Consistent application rates and coverage across all three rows sprayed



» Hourly fuel consumption reductions of up to 42%
» Increased work rate reduces tractor operating hours to spray the property – extending the operating life for tractor up to 1.5 years

» Potential to increase travel speeds (compared to maximum travel speeds recommended for other sprayer types) that can result in work rates increases of 0.4 additional hectares treated per hour – equivalent to a reduction in spraying time of 5 hours over a 100 hectare vineyard

All comparisons were made between a Quantum 2000 trailed sprayer and the equivalent 3 row trailed spray from another brand.



HV4000 AUTO-RATE CONTROLLER

Designed specifically for the horticultural grower, the HV4000 offers unique features that set it apart for use in vineyards and orchards:

- » On-the-go spray rate adjustment
- » Push button auto/manual feature for spot treatments
- » Solenoid and motorised ball valve compatible
- » Ten individual operating histories to display total area, flow, distance and hours
- » User-friendly menu, contrast screen with backlit keys for night operation
- » Control up to four individual spray lines
- » Flow based control
- » Tank volume indicator
- » Multiple row widths
- » Application rate displayed in L/ha or L/100 metres
- » Full screen monitoring
- » Programmable alarms
- » Data logger (optional)
- » Fully programmable
- » Optional fan speed sensors for up to 12 fans on Quantum Mist

CONTROLLERS



BRAVO180



MT3405F



A4670610



I-E2022



ARUCM-4



ARBMH50

ORDER CODE	PRODUCT DESCRIPTION
MT3405F	Entry-level Auto Spray Rate controller. Automatically adjusts spraying rate to compensate for speed changes. Dual LCD display can read a dual combination of speed, litres per hectare, litres per minute, area per hour and litres used. Records total litres used and area covered. Suitable for applications up to 20 bar pressure
I-E2022	2-section (L/R) electric control with proportional bypass shut-off valves, electric pressure adjustment and in-cab switch box. 20 bar rated
I-S4021	40 bar rated 2-section electric control unit with two on/off high-pressure solenoids, master on/off switch and electrically adjustable pressure switch all operated from an in-cab switchbox (no image)
ARBMH50	Two-outlet manual controller suited to high-pressure 50 bar rated diaphragm pumps. Rotary selector lever controls individual left and right shut-off or master shut off with either pressure bypass or non-pressure bypass. Can be pump mounted or remote mounted. Max flow 200 L/min, max pressure 50 bar (725 psi)
ARUCM-4	Remote mount 4-way controller suitable for most 20 bar rated diaphragm pumps. 4 individual shut-off taps, master shut-off lever and gauge fitted. Remote mount plate fitted. Max flow 150 L/min, max pressure 20 bar (290 psi). 2-tap and 6-tap version also available
A4670610	The Visio is an innovative multi-function viewer for use with a variety of sensors utilising selectable software to detect inputs such as pressure, flow, and speed. It can output such data as area, L/ha, flow rate, litres used and pressure in bar
BRAVO180	Bravo 180 new generation spray rate controller, features include: Multi-function LCD display, 2 or 4 section control. Can display spray rate in L/ha or L/100m, speed, flow, area tank level and other functions. Stores up to 10 job configurations. Visual and audible alarms. Suitable to match up to 20 or 40-bar sprayer configurations

APPLICATION TOOLS



SPRAYWISE CONVERSION TABLE

Are you confused about water rates in tree crop and vine applications?

Croplands and Nufarm have developed an easy to follow table to simplify the process and answer your questions on dosage rates converting L/ha to L/100m.

To obtain a free copy contact Croplands on freecall 1800 999 162.



SARDI FLUORESCENT DYE

For thorough spray coverage analysis, all sprayer operators or owners of sprayers should consider investing in Croplands SARDI fluorescent dye.

The dye is tank-mixed with water and sprayed onto the target crop. There are no residue issues as this is food grade quality dye. A UV-light is needed to assess coverage results.

ORDER CODE	DESCRIPTION
L-M1111	1 litre fluorescent dye
L-M1115	5 litre fluorescent dye

OIL-FLOW REQUIREMENTS

A guide for oil-flow requirements for various Quantum Mist™ models, measured at the tractor remotes*:

MODEL	OIL FLOW REQUIREMENTS
Single-row with four QM380 fans	18 L/min at 2000psi
Single-row with four QM500 fans	22 L/min at 2750psi
Two-row with eight QM380 fans	36 L/min at 2000psi
Two-row with eight QM500 fans	44 L/min at 2750psi
Three-row with twelve QM380 fans	54 L/min at 2000psi
Three-row with twelve QM500 fans	66 L/min at 2750psi
Six-head tower with six QM500 fans	55 L/min at 2750 psi
Eight-head ultra tower with eight QM500 fans	80 L/min at 2750 psi

*Use as a guide only. Specifications can change without notice. Please note cable drive systems have comparable oil requirements.



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.

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)

NOZZLE SELECTION

TREE CROP AND VINE NOZZLES

The most common nozzle type used in horticulture are cone type nozzles. Generally they are used at high pressures from 5 to 20 bar and above. Cone nozzles can come as a fully assembled single nozzle body, eg. ALBUZ ATR, or in separate parts that need to be assembled into a nozzle body, commonly referred to as cores and discs. Hollow cone nozzles generally produce a FINE to VERY FINE spray quality with a narrow droplet spectrum. The small, consistent droplet size and the low energy levels favour deposition and coverage and make them the preferred nozzle

type in air-assisted vine and tree spraying. In contrast to a hollow cone set up, the cores of solid cone nozzles have an extra hole in the centre that allows part of the liquid to pass straight to the disc and fill the inner cone pattern. Those droplets travel straight with the airstream, have more kinetic energy and may reach as far as four metres without air-assist. Distance is improved but the potential for deposition and coverage on short distance is reduced. Solid cones are generally used to achieve better coverage on distanced targets such as the top of a tree.

NOZZLE	TYPE AND DESCRIPTION	SIZE RANGE, MATERIAL AND SPRAY ANGLE
	ALBUZ ATR Hollow cone, ALBUZ 60° and 80°, 5–20 bar (optimum 10–15 bar), pink ceramic	**03 to 28 sizes, ceramic, 60° and 80° spray angle

ALBUZ ATR HOLLOW CONE FLOWRATE CHART

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

The ALBUZ ATR is NOT ISO colour coded. The nozzle colour is NOT related to a specific output.

AIR-INDUCTION NOZZLES FOR HORTICULTURE

In some situations, spray drift while spraying tree and vine crops with an air-assisted sprayer can be a problem. Usually this is the case for growers whose property is close to urban development.

A new nozzle has been introduced from ALBUZ as an alternative to the standard cone nozzles. The TVI nozzle is constructed of polypropylene, ceramic for excellent wear characteristics.

NOZZLE	TYPE AND DESCRIPTION	SIZE RANGE, MATERIAL SPRAY ANGLE
	ALBUZ TVI TVI, hollow cone 80°, high-pressure air-induction, drift reducing, 5–20 bar (optimum 10–16 bar)	0050 to 05 sizes, pink ceramic (3 components), 80°
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 80-03



CROPLANDS RANGE OF SPRAYING EQUIPMENT FOR HORTICULTURE, AS USED BY...

Wine Grapes

- » Grant Burge Wines
- » Brown Brothers
- » Casella Wines
- » Tyrell's Wines
- » Australian Vintage Limited
- » McWilliams Wines



Apples

- » Thompson Orchards
- » Montague Orchards
- » Batlow Co-op

Berries

- » Costa Exchange



Citrus

- » Minter Magic
- » Colignan Producers

Olives

- » Olive Grove

Mangoes

- » One Harvest



Macadamia

- » Bundaberg Sugar

Almonds

- » Olam Australia



Avocados

- » Giofrelle Fresh Fruit
- » I and A Tolson

Strawberries

- » Gallace Farms
- » Jenning and Sons
- » Meander Valley

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Your Croplands dealer

NATIONWIDE DEALER LISTING

ACT/NSW		
Bathurst	On-Trac Ag	02 6332 5655
Bowral	Total Farm & Garden Equipment	02 4861 2210
Canberra	S & J Morrison	02 6235 5835
Corindi	NFS-Ag	0409 042 286
Corowa	O'Connors	02 60331 666
Goulburn	Goulburn Farm Machinery	02 4821 4148
Griffith	Guidolin Agrimac	02 6964 3400
Hexham	Kentan Machinery	02 4964 8275
Orange	On-Trac Ag	02 6362 5566
Tumut	Tumut Farm Machinery	02 6947 6422
Wagga Wagga	Norwood Farm Machinery Centre	02 6921 2148
Young	Carruthers Machinery	02 6382 7233
NT		
Darwin	HD Pump Sales & Service	08 8947 1008
Humpty Doo	HD Pump Sales & Service	08 8988 1254
QLD		
Atherton	Tableland Pumps & Pipes	07 4091 2277
Ayr	A & B Rural	07 4783 4488
Bowen	Bartec Rural Services	07 4785 2322
Bundaberg	Lindsay Rural	07 4150 0500
Gatton	Lockyer Farm Machinery	07 5462 1888
Innisfail	GF Rural Supplies	07 4061 1066
Kingaroy	First Avenue Machinery Sales	07 4162 1246
Mareeba	Think Water Mareeba	07 4092 7788
Rockhampton	Milne Bros. Equipment	07 4927 1888
Thulimbah	Vedelago Mechanical Repairs	07 4685 2200
Tully	GF Rural Supplies	07 4068 1002
Wamuran	Suncoast Rural & Water	07 5432 4511
SA		
Adelaide	Kubpower	08 8139 7200
Bordertown	O'Connors	08 8752 1311
Littlehampton	Central Hills Machinery	08 8391 1414
Naracoorte	Kubpower	08 8762 0123
Renmark	Riverland Farm Machinery	08 8586 3688
Roseworthy	Gawler Farm Machinery	08 8524 8131
Saddleworth	AW Vater & Co	08 8847 4020
Summertown	Squires Sales and Service	08 8390 3017
TAS		
Kingston	Southern Machinery	03 6229 1133
Longford	T P Jones & Co	03 6391 3140
Youngtown	T P Jones & Co	03 6343 1666
VIC		
Ballarat	Cervus Equipment	03 5334 7555
Birchip	O'Connors	03 5492 2311
Colac	Swayn & McCabe	03 5231 5022
Echuca	Agpower	03 5482 2264
Horsham	O'Connors	03 5382 1727
Lilydale	Agpower	03 9739 5006
Maffra	Cervus Equipment	03 5147 1122
Mildura	Sunrise Ag	03 5023 0284
Shepparton	O'Connors	03 5821 4555
Swan Hill	Sunrise Ag	03 5032 0099
Wangaratta	McGregor Machinery	03 5722 9933
Warracknabeal	O'Connors	03 5398 1877
Wodonga	Norwood Farm Machinery Centre	02 6059 7100
WA		
Albany	Ratten and Slater Machinery	08 9842 8529
Boyup Brook	Greenline	08 9765 1305
Carnarvon	Carnarvon Tractors	08 9941 3622
Cowaramup	Cowaramup Tractor Sales	08 9755 5207
Donnybrook	Machinery West	08 9731 0700
Forrestdale	Growers Agrishop	08 9397 2800
Moora	Cunninghams Ag	08 9651 1038
Muclea	CD Tractor Sales & Service	08 9571 4117
Perth	Greenline	08 9277 1140
Perth	Sprayline Spraying Equipment	08 9250 6100
Wangara	Boya Equipment	08 9409 2008