Dear Customer,

Since Croplands inception in 1972, we have remained 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.

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™

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

PROVEN COVERAGE

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.

DON’T COMPROMISE, ASK FOR QUANTUM MIST™

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.
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

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

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

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

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

TANK SIZES
» 4000 litre
» 3000 litre
» 2000 litre

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

QM420 Fan
Fusion Controller
Micro Power Pack
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.
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.
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

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

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.

NOZZLES
A KEY TO SPRAY COVERAGE

NEW FOR 2019 2000 litre Quantum Mist™ Single-row fitted with QM500 fans
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**

**BRANDO 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

**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

**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

Quantum Mist™ Linkage with QM500 fans
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
- 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

**CROPAIR 600**
- Two speed 800mm fan with adjustable pitch blades for variable air outputs
- Over run clutch fitted to protect fan from sudden engagement/dischargement
- 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
- 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**
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

<table>
<thead>
<tr>
<th>NOZZLE</th>
<th>TYPE, SPECIFICATION AND USE</th>
<th>FEATURES</th>
</tr>
</thead>
</table>
| ALBUZ ATR 80 | 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 | • Easily dismantled for easy cleaning  
• Long wear life  
• Precision polished ceramic surface for perfect sealing  
• Ideal for fungicides and insecticides |
| ALBUZ ATR 60 | 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 | • 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

<table>
<thead>
<tr>
<th>NOZZLE</th>
<th>TYPE, SPECIFICATION AND USE</th>
<th>FEATURES</th>
</tr>
</thead>
</table>
| ALBUZ TVI | 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  
• 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

<table>
<thead>
<tr>
<th>PRESSURE</th>
<th>L/MIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAR</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>White 0.27, Lilac 0.36, Brown 0.44, Yellow 0.73, Orange 0.99, Red 1.38, Grey 1.6, Green 1.78, Black 2, Blue 2.45</td>
</tr>
<tr>
<td>6.0</td>
<td>White 0.29, Lilac 0.39, Brown 0.52, Yellow 0.8, Orange 1.08, Red 1.51, Grey 1.63, Green 1.94, Black 2.18, Blue 2.67</td>
</tr>
<tr>
<td>7.0</td>
<td>White 0.32, Lilac 0.42, Brown 0.56, Yellow 0.86, Orange 1.17, Red 1.62, Grey 1.76, Green 2.09, Black 2.35, Blue 2.87</td>
</tr>
<tr>
<td>8.0</td>
<td>White 0.34, Lilac 0.45, Brown 0.6, Yellow 0.92, Orange 1.24, Red 1.73, Grey 1.87, Green 2.22, Black 2.5, Blue 3.06</td>
</tr>
<tr>
<td>9.0</td>
<td>White 0.36, Lilac 0.48, Brown 0.64, Yellow 0.97, Orange 1.32, Red 1.83, Grey 1.98, Green 2.35, Black 2.64, Blue 3.24</td>
</tr>
<tr>
<td>10.0</td>
<td>White 0.38, Lilac 0.5, Brown 0.67, Yellow 1.03, Orange 1.39, Red 1.92, Grey 2.08, Green 2.47, Black 2.78, Blue 3.4</td>
</tr>
<tr>
<td>11.0</td>
<td>White 0.39, Lilac 0.52, Brown 0.7, Yellow 1.07, Orange 1.45, Red 2.01, Grey 2.17, Green 2.58, Black 2.58, Blue 3.56</td>
</tr>
<tr>
<td>12.0</td>
<td>White 0.41, Lilac 0.55, Brown 0.73, Yellow 1.12, Orange 1.51, Red 2.09, Grey 2.26, Green 2.69, Black 3.03, Blue 3.71</td>
</tr>
<tr>
<td>13.0</td>
<td>White 0.43, Lilac 0.57, Brown 0.76, Yellow 1.17, Orange 1.57, Red 2.17, Grey 2.35, Green 2.79, Black 3.14, Blue 3.85</td>
</tr>
<tr>
<td>14.0</td>
<td>White 0.44, Lilac 0.59, Brown 0.79, Yellow 1.21, Orange 1.63, Red 2.25, Grey 2.43, Green 2.89, Black 3.26, Blue 3.99</td>
</tr>
<tr>
<td>15.0</td>
<td>White 0.46, Lilac 0.61, Brown 0.81, Yellow 1.25, Orange 1.69, Red 2.33, Grey 2.51, Green 2.99, Black 3.36, Blue 4.12</td>
</tr>
<tr>
<td>16.0</td>
<td>White 0.47, Lilac 0.63, Brown 0.84, Yellow 1.29, Orange 1.74, Red 2.4, Grey 2.59, Green 3.08, Black 3.47, Blue 4.25</td>
</tr>
<tr>
<td>17.0</td>
<td>White 0.48, Lilac 0.64, Brown 0.86, Yellow 1.33, Orange 1.79, Red 2.47, Grey 2.67, Green 3.17, Black 3.57, Blue 4.37</td>
</tr>
<tr>
<td>18.0</td>
<td>White 0.5, Lilac 0.66, Brown 0.89, Yellow 1.37, Orange 1.84, Red 2.54, Grey 2.74, Green 3.25, Black 3.67, Blue 4.49</td>
</tr>
<tr>
<td>19.0</td>
<td>White 0.51, Lilac 0.68, Brown 0.91, Yellow 1.4, Orange 1.89, Red 2.6, Grey 2.81, Green 3.34, Black 3.76, Blue 4.81</td>
</tr>
<tr>
<td>20.0</td>
<td>White 0.52, Lilac 0.7, Brown 0.93, Yellow 1.44, Orange 1.94, Red 2.67, Grey 2.88, Green 3.42, Black 3.85, Blue 4.72</td>
</tr>
</tbody>
</table>

ALBUZ Equivalent* | TJV* | Purple 80–0050, Pink 80–0075, Orange 80–01, Green 80–015, Yellow 80–02, Lilac 80–005, Blue 80–03, Red 80–04, Red 80–04 |
| TeeJet Equivalent* | TXB80 | TX-V2, TX-V4, TX-V6, TX-V8, TX-VK8, TX-VK12, TX-VK18, TX-VK26, TX-VK26, TX-VK26, TX-VK26, TX-VK26 |

Note: Colours in table represent actual nozzle colour. ALBUZ TJV 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 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
- 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)

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.

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

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

*For oil flow and pressure requirements to drive Quantum Mist™ fans, please contact your Croplands Territory Manager, Fruitfed 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

NATIONAL DISTRIBUTORS

PGG Wrightson Stores
Nationwide, contact your local store

Fruitfed Supplies Stores
Nationwide, contact your local store

Alexandra
03 448 6999
Blenheim
03 578 3019
Cambridge
07 327 7129
Christchurch
03 345 0946
Cromwell
03 445 3739
Feilding
06 323 0050
Gisborne
06 863 1860
Hastings
04 873 0950
Katikati
07 549 1316
Kerikeri
09 407 9621
Kumeu
09 412 2711
Levin
06 366 0892
Martinborough
06 366 9699
Motueka
03 528 8660
Ngaruawahia
09 885 8600
Pukekohe
09 238 2713
Richmond
03 544 8115
Te Puke
07 573 7807
Whangarei
09 470 2520

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 HEAD OFFICE

Phone +61 8 8359 9300
Fax +61 8 8349 6175
Facebook www.facebook.com/Croplands
Twitter www.twitter.com/Croplands

CROPLANDS HEAD OFFICE

50 Cavan Road Dry Creek SA 5094
Technical Service +61 8 8359 9333

CROPLANDS ACCREDITED SERVICE AGENTS

SERVICE AGENT
Keri Keri Diesel Services
Norwood Farm Machinery
ME & AL Mannington
Norwood Farm Machinery
Splash Direct
The Equipment Centre
Norwood Farm Machinery
Calmans Sprayquip Services
Spraying Equipment Specialist
Tasman Sprayer Solutions
NS Rogers
Agrivit Ltd
Noble-Adams Machinery
Johnson Gliya Tractors
Jordan Mechanical

REGION
Keri Keri
Whangarei
Kumeu
Paihia
Bay of Plenty
Tauranga
Whangarei
Hastings
Tasman Region
Marlborough
Canterbury
South Canterbury
Central Otago

CONTACT
John Struthers
Greg Francis
Mike Manning
Kevin Hamilton
Craig Bell
Ben Spooner
Service Department
Greg Deck
Vodrek Kudratowski
Stu Flowers
Nathan Johns
Jeremy Watts
Aaron Witterock
Tony Scott-Walton
Neil Jordan

PHONE
09 407 3509
09 438 3719
09 412 8927
09 536 7189
07 573 0139
07 544 0194
06 867 0985
06 519 5270
04 478 2298
027 442 8681
03 528 9212
03 572 8767
03 346 7802
03 688 1133
027 290 5008

OUR RANGE OF BUYERS’ GUIDES

OPTIMA
Tree Crop
Self Propelled
Broadacre Trailed

YOUR CROPLANDS DEALER