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CROPLANDS

OPTIMA™













GENERAL MANAGER'S WELCOME

Dear Customer

The 2019 OPTIMA Buyers' Guide is designed to assist you in the purchase of your new sprayer, or spare parts and accessories for your existing one.

As always, we are listening to our customers' needs, and as a result we have an exciting new range of skid mount, ute mount and ATV mount spot spraying units ready for release this year. With a new design tank and frame, fitted with trusted Croplands components we are sure your spot spraying jobs will be made much easier, faster, and safer with the Croplands new skid mount range. You will also find some 'HOT' new HYPRO pricing for all your centrifugal and 12-volt pump needs.

We have expanded our Nozzle Selection and Spraying Guide significantly with updated nozzle selection charts and loads of information of how to maximise your spray quality and minimise spray drift.

You can find more of our components in the Components Buyers' Guide which is available to download from the Croplands website. You can also search the product code via our website for products that carry the Parts Breakdown symbol.

I would like to take this opportunity to thank you for considering the Croplands OPTIMA range of spray equipment for your application needs.





SprayWise®

This stewardship program is a Nufarm initiative to deliver best practise spraying and drift management techniques. SprayWise has been instrumental in raising awareness amongst the farming community about important spray application parameters. SprayWise consolidates various tools, research results and training courses into one program to assist farmers better manage their spraying activities.



LIQUID FERTILISER READY

'LFR' means that this Croplands product has a pump and plumbing system specifically designed to handle liquid fertiliser through the appropriate nozzles to suit the application.



QR CODES

Croplands uses QR codes to link you to videos for more information about our products. Here's how to use them:

- 1. Download a QR Scanner from your app store
- 2. Hover your device over the code to scan it
- 3. It will take you directly to the link



PARTS BREAKDOWN AVAILABLE

Parts breakdowns are available at www.croplands.com.au or www.croplands.co.nz for products where you see this sign.





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CROPLANDS ARE COMMITTED TO CUSTOMER SERVICE



Australian Sales and Technical Support team (Gary, Clarry, David, Chris, Kierran, Steve and Kieran)

Our Sales Support teams are dedicated to providing our customers expert advice and support in finding a solution to your spraying needs.



New Zealand Sales Support team (Kris, Ash, John)

CROPLANDS OVERVIEW



ONE NUFARM

Croplands is a subsidiary of agricultural chemical company, Nufarm Ltd., along with agricultural seed company, Nuseed.

Nufarm has been a trusted brand for farmers for over 60 years and has worked alongside growers to provide a wide range of top quality crop protection products.

Nufarm has an extensive team of agricultural and horticultural specialists who offer local know how and support that assists in delivering the results farmers demand for their long-term sustainability.

Nufarm is the largest manufacturer of crop protection products in Australia with an extensive network of Regional Service Centres. Various acquisitions and solid organic growth have seen the

business rapidly expand. Nufarm is now ranked the 9th largest crop protection company in the world, with a clear leadership position in Australia and substantial operations in North and South America, Europe, New Zealand and Asia.

With Croplands, Nufarm and Nuseed together under the One Nufarm banner, they offer growers a very unique portfolio. Pulling together their products and people for SprayWise events and the like, they can not only demonstrate application equipment, but provide information on the best chemical mixes and tips on effective application. The One Nufarm group of companies hold strength in the knowledge they share with one another and their customers.

For information on these products, please feel free to call us on:

Australia

Freecall 1800 999 162, or Email sales@croplands.com.au

New Zealand

Freecall 0800 106 898, or **Email** sales@croplands.co.nz



Innovative Application Equipment





KEY SUPPLIERS

















Photos are for illustrative purposes only. Prices and specifications

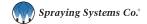
For indicative freight prices, see page 103.

are subject to change without notice. Prices effective January 2019.















CROPLANDS VISION

To create innovative application equipment for sustainable agriculture







CROPLANDS RANGE OF SPRAY EQUIPMENT BUYERS' GUIDES

HORTICULTURE

Croplands range of Horticultural Buyers' Guides comprises of Tree Crop, Vineyard and Vegetable.

The proven axial fan head technology of the Quantum Mist has single, two or three row capabilities for vineyards and the Tower and Ultra Tower sprayers are perfect for tree crops. Vegetable crops are covered by the Quantum Mist's horizon boom model, as well as Bargam trailed and self propelled sprayers. The Cropliner is well suited to tree crops with its powerful range of air blast fans.





Croplands has broadacre trailed sprayers to suit a range of property sizes. The compact Pinto 3000 and 4000 litre trailed sprayers suits smaller operations, while the robust Pegasus 5000 and 6000 are practical options for medium sized broadacre properties. The NEW Pegasus 7000 Plus with its versatile 1500 litres of extra tank capacity and the 8000 litre Pegasus trailed sprayers will handle those big acres with ease.



Croplands WEEDit Optical Spot Sprayers are the market leading solution for combatting herbicide resistance in fallow spraying situations. Available in the traditional 4000 or 6000 litre models. For a dual line/dual tank option consider the 7000 litre WEEDit, allowing blanket spraying while simultaneously spot spraying hard to kill weeds. For smaller broadacre and irrigation the WEEDit Toolbar Kit may be the best option. Now available with the 12 metre Toolbar is the PhantomDrive add-on platform to allow for driverless, autonomous spot spraying.





Croplands RoGator self propelled sprayers are tailored for the professional farmer or contract sprayer.

Just recently released is the new C Series RoGator – the RG1100C and RG1300C. These powerful performers have a revolutionary AWD SmartDrive package and intuitive Accuterminal controls and monitor, making them so easy to operate – even the beginner can apply like a pro! The RG1300 is also available with optional 48.5 metre aluminium Pommier boom for spraying those big acres.

The lightweight champion of the RoGator range is the RG700B - it travels smoothly over uneven terrain, with less soil compaction.



JEREMY DECK South VIC Territory Manager/OPTIMA Product Lead

With Croplands since 2011 Learnt to build, plumb and test units in the Croplands factory during the school holidays. Worked in Croplands customer service for 2 years.



STEVE ROSSVIC Territory Manager

With Croplands since 2016 18 years in the agricultural spraying industry. 2 years in tractor and machinery retail sales.



DAVID HAMILTON South NSW/VIC Territory Manager

With Croplands since 2006 Advanced Diploma of Viticultural Management. Certificate 3 in Engineering (Fabrication). Automotive apprenticeship and experience in the spare parts industry.



ANDREW GERMEIN
SA/TAS Territory Manager/
Horticulture Product Lead

With Croplands since 2018
21 years in agricultural
dealership machinery
sales and management,
specialising in the horticulture
product portfolio.



JOHN GRIFFITHS
Regional Manager (West)

With Croplands since 1997 Grew up on a grain and livestock property in south west WA. One of Croplands longest serving staff members. Croplands Self-propelled

specialist in the west.



GAVIN MERRITTWA Territory Manager

With Croplands since 2011 Grew up on family sheep cattle and grain farms. Involved in the spraying industry since 1992.





JEREMY RENNICK Regional Manager (North)

With Croplands since 2005

Experience with Croplands products since 1999. Worked with Croplands parent company, Nufarm for three years. Actively involved in Nufarm's stewardship program, SprayWise.



DAVE FARMER

Central NSW Territory Manager/Bargam Product Lead

Experience managing a mixed farming operation.
16 years experience working throughout NSW and Canada in agriculture. Advanced Certificate in Agriculture.

With Croplands since 2001



ROB GRAHAM Coastal QLD/NT Territory Manager

With Croplands since 2011

Grew up on the family farm in northern NSW. Spent 10 years in the cotton farming industry. Previous sales roles in the agricultural machinery industry.



CRAIG BLACKETT
South QLD/North NSW
Territory Manager

With Croplands since 2017 Over 30 years experience working in the Agricultural

working in the Agricultural industry working as a reseller agronomist and as a sales rep for a leading Ag Chem company.







ROB MARSHALL Regional Manager and NZ Upper South Island Territory Manager

With Croplands since 2002 Previous sales roles in the automotive and engineering industry. Currently studying part time towards a Diploma in Business.



VIC BARLOW
NZ Lower North Island
Territory Manager

With Croplands since 2011 Diploma in Horticulture. Experience as a Field Consultant for 11 years. Orchard Manager for almost 20 years.



GREG SMALL
NZ Waikato, Counties
Territory Manager

With Croplands since 2011 29 years in the spray equipment industry. Diverse scope of experience from build and design of sprayers to sales and management.



CHRIS WAITES

NZ Upper North Island (excluding Waikato/Counties), Central Otago, Southland Territory Manager

With Croplands since 2010
12 years in the horticultural and agricultural industry. Previous sales roles in horticultural supplies. Croplands NZ customer service and logistics for 6 years.





STACEY JAMESSales Support Manager

With Croplands since 2016 Extensive Customer Service Management and Sales Support experience across a range of industries. Bachelor of Management (Marketing).



SEAN MULVANEY

General Manager

With Croplands since 1997 Started as a Territory Manager, progressed to Sales Manager, and later General Manager. Diploma in Horticulture.



MICHAEL CLARKE Central QLD Territory Manager

With Croplands since 2018 Grew up on and worked on the land for many years – starting with livestock and moving into grains and fibre. Over 30 years experience in a range of agricultural industries.



SA Territory Manager

With Croplands since 2018 5 years experience in large agricultural machinery retail sales and branch sale management and 20 years experience in a mixed farming operation.



NEILL MOREY

Commercial Manager/ Regional Manager (South)

With Croplands since 2016 Previously worked in farm machinery dealership management. Bachelor Degree in Commerce.

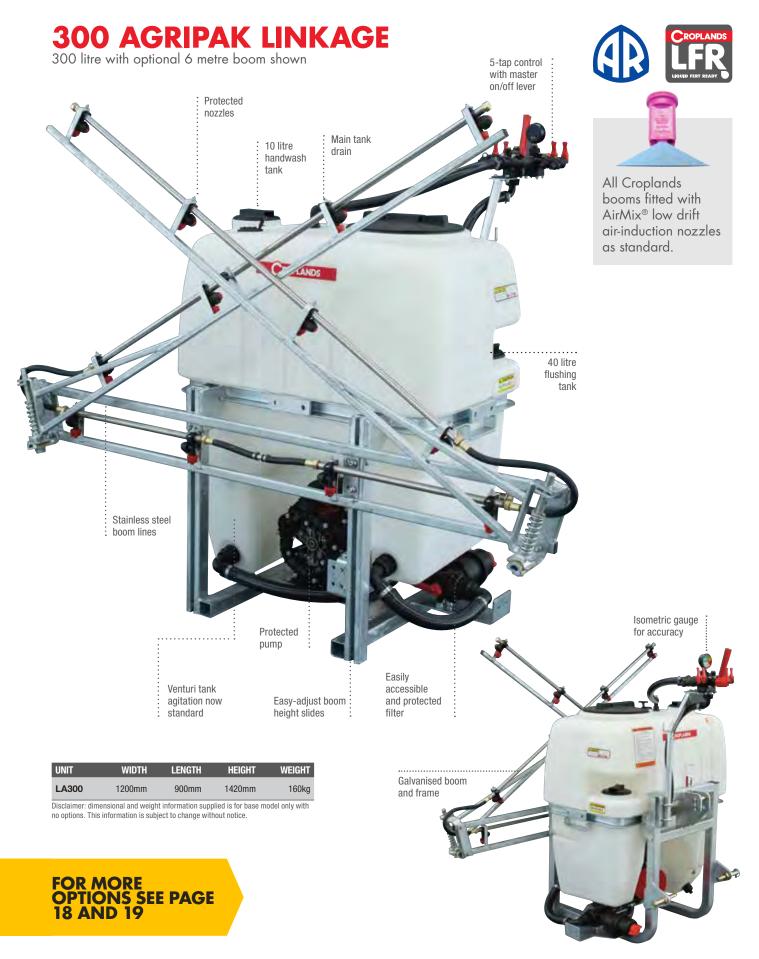


STEVE NORTON

Portfolio Manager

With Croplands since 2013

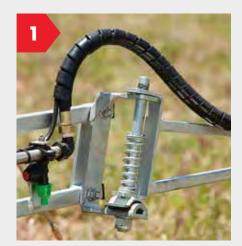
Over 30 years in the agricultural spraying industry both in Australia and America. 6 years in tractor and machinery sales.



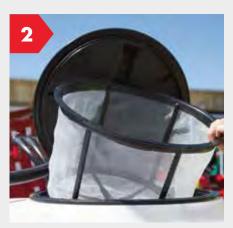


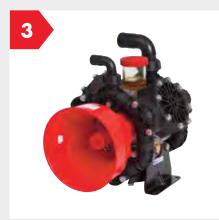
FEATURES AND OPTIONS INCLUDE

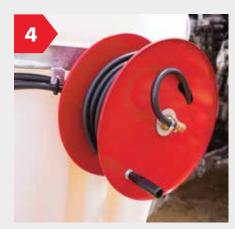
- Spring-loaded boom breakaways to protect from impacts
- 2. Large basket strainer to ensure clean water to the tank
- 3. Standard positive displacement triple diaphragm pump for smooth operation, high flow and wide pressure range
- 4. Optional hose reel with spray lance





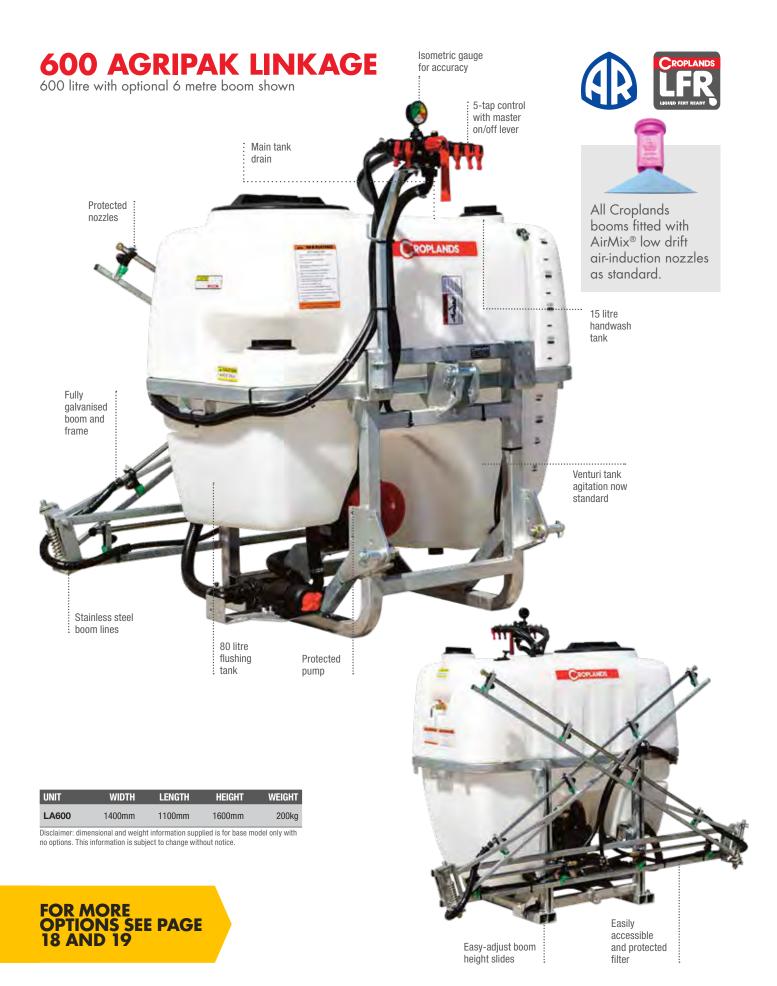






| ODDED CODE | PEGABLITIAN | A (E)(00E) | A (INO. 00T) | DDOD OAT |
|--------------|--|--------------|---------------|------------|
| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
| LA300 | 300 litre AgriPak linkage sprayer with AR80* liquid fertiliser-ready pump, UCM 5-way controller fitted (no hose reel or boom – see options) | 2,961.73 | 3,290.81 | X |
| LA300/MBX04 | As above with 4 metre MBX series boom fitted | 3,875.60 | 4,306.22 | Χ |
| LA300/MBX06 | As above with 6 metre MBX series boom fitted | 4,014.36 | 4,460.40 | Χ |
| LA300/MSCL-2 | As above with double-sided covered boom fitted | 4,354.06 | 4,837.84 | Χ |
| LA300/XTKIT | As above with XT boom kit fitted c/with X Tender boom jets. Standard X Tender nozzles fitted are # 24, which gives coverage of up to 8 metres width depending on height the XT boom kit is mounted. An Ideal choice for hill country or liquid fertiliser applications | 3,384.68 | 3,760.75 | X |
| LA300/MVB5-5 | 300 litre AgriPak linkage sprayer with AR30* 0–40 Bar pressure pump, ARGI40 2-way manual pressure controller and 5 nozzle per-side Vertiboom fitted. (No hose reel fitted. Not an option on this model) | 5,081.33 | 5,645.92 | Х |

^{*}The AR80 pump is the market leading Annovi Reverberi triple diaphragm positive displacement pump with poly heads and manifolds. This pump is rated from 0–20 Bar pressure and 80 litres per minute (open-flow). For more information see page 50. The AR30 pump is an Annovi Reverberi twin diaphragm pump rated from 0–40 Bar pressure and 32 litres per minute (open-flow). PTO shaft supplied with all AgriPak linkage models.



FEATURES AND OPTIONS INCLUDE

- Hand wash tank fitted standard ideal for hand washing or in-field filter clean
- 2. Every Croplands AgriPak has important safety information on the tank
- 3. A 3-way tap is located by the filter to allow tank selection it is recommended to use the fresh water flush tank to flush the system in the field after spraying
- 4. Optional heavy duty hose reel with Turbo400 spray gun
- 5. Easy-adjust boom slides make boom height adjustment a breeze













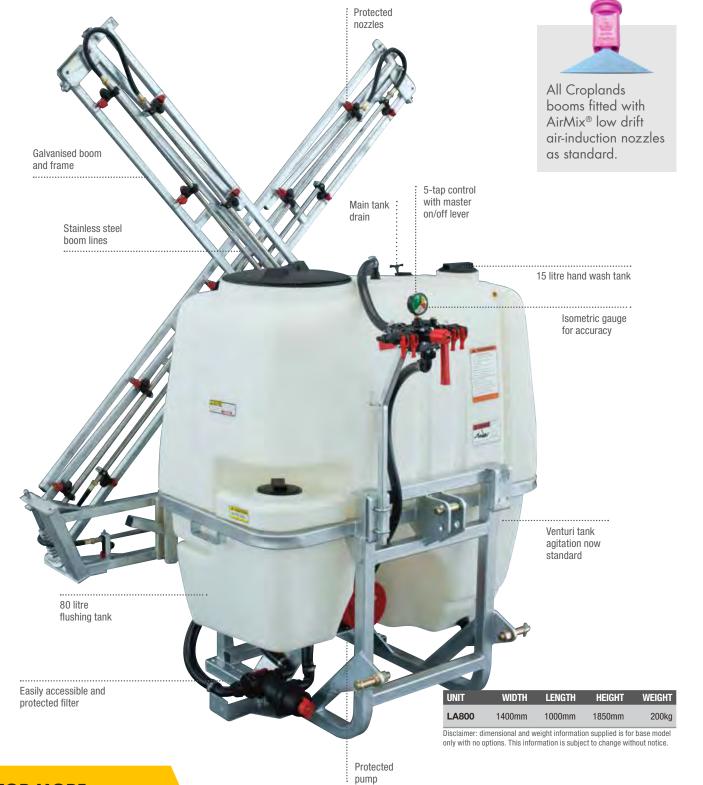
| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|--------------|---|--------------|---------------|------------|
| LA600 | 600 litre AgriPak linkage sprayer with flushing tank, hand-wash tank, AR80* liquid fertiliser-ready pump, UCM 5-way controller (no hose reel or boom – see options) | 3,937.80 | 4,375.33 | Χ |
| LA600/MBX06 | As above with 6 metre MBX series boom fitted | 4,727.27 | 5,252.52 | Χ |
| LA600/MAX08 | As above with 8 metre MAX series boom fitted – no self-leveller | 5,856.46 | 6,507.17 | Х |
| LA600/MAX08L | As above with 8 metre MAX series boom fitted and with self-leveller | 6,598.08 | 7,331.20 | Х |
| LA600/MAX10 | As above with 10 metre MAX series boom fitted – no self-leveller | 6,894.74 | 7,660.82 | Х |
| LA600/MAX10L | As above with 10 metre MAX series boom fitted and with self-leveller | 7,578.95 | 8,421.05 | X |

^{*}The AR80 pump is the market leading Annovi Reverberi triple diaphragm positive displacement pump with poly heads and manifolds. This pump is rated from 0–20 Bar pressure and 80 litres per minute (open-flow). For more information see page 50. PTO shaft supplied with all AgriPak linkage models.

800 AGRIPAK LINKAGE 800 litre with optional 12 metre boom shown







FOR MORE OPTIONS SEE PAGE 18 AND 19







- » Calibrated tank with clear volume markings
- » Rear mounted pump to protect from damage and allow PTO more overlap
- » Large lid with strainer
- » Translucent white UV-stabilised tank see level at a glance
- » Easy access drain for complete clean out
- » Handwash tank standard for safety
- » Large fresh water flush tank standard for in-field clean out
- » Quick-adjust boom slide mounts
- » Pictured with over-top support and hydraulic height adjuster fitted
- » Slide-out rear park legs for stability when parked with larger booms fitted
- » Venturi agitation standard with on/off control tap on PRV control
- » Optional MAX 12 metre boom with self-leveller pictured

FEATURES AND OPTIONS INCLUDE

- 1. In-cab electric controls (wireless and standard available)
- 2. Easy-adjust boom slides make boom height adjustment a breeze
- Hand wash tank fitted standard ideal for hand washing or in-field filter clean
- 4. Venturi agitator fitted to all Croplands AgriPak linkage models









| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|--------------|---|--------------|---------------|------------|
| LA800 | 800 litre AgriPak linkage sprayer with flushing tank, hand-wash tank, AR80* liquid fertiliser-ready pump, UCM 5-way controller (no hose reel or boom – see options) | 4,923.44 | 5,470.50 | Χ |
| LA800/MAX08 | As above with 8 metre MAX series boom fitted – no self-leveller | 6,306.22 | 7,006.90 | Χ |
| LA800/MAX08L | As above with 8 metre MAX series boom fitted and with self-leveller | 7,047.84 | 7,830.95 | Х |
| LA800/MAX10 | As above with 10 metre MAX series boom fitted – no self-leveller | 7,119.62 | 7,910.68 | Х |
| LA800/MAX10L | As above with 10 metre MAX series boom fitted and with self-leveller | 7,660.28 | 8,511.42 | Х |

^{*}The AR80 pump is the market leading Annovi Reverberi triple diaphragm positive displacement pump with poly heads and manifolds. This pump is rated from 0–20 Bar pressure and 80 litres per minute (open-flow). For more information see page 50. PTO shaft supplied with all AgriPak linkage models.







- » Calibrated tank with clear volume markings
- » Height adjustable control mount
- » Rear mounted pump to protect from damage and allow PTO more overlap
- » Large lid with strainer
- » Translucent white UV-stabilised tank see level at a glance
- » Easy access drain for complete clean out
- » Forklift points on bottom frame for safe loading/unloading
- » Handwash tank standard for safety
- » Large fresh water flush tank standard for in-field clean out
- » Quick-adjust boom slide mounts
- » Fold-up step standard
- » Over-top support standard for added strength
- » Four dedicated tie-down points for transport

FEATURES AND OPTIONS INCLUDE

- Easy access slide-out parking legs for safe parking
- 2. Optional chemical suction probe
- 3. Optional 30 or 60 litre chemical mixer
- 4. Easy access suction filter









| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|---------------|--|--------------|---------------|------------|
| LAC1000 | 1000 litre AgriPak linkage sprayer, AR80* pump, UCM 5-way controller (base model, no hose reel or boom). Venturi agitation fitted standard | 6,305.26 | 7,005.84 | X |
| LAC1000/8M | As above with 8 metre MAX manual fold boom – 3 sections | 8,132.63 | 9,036.25 | Χ |
| LAC1000/8ML | As above with 8 metre MAX manual fold boom with self-leveller fitted – 3 sections | 8,765.55 | 9,739.50 | Х |
| LAC1000/10M | As above with 10 metre MAX manual fold boom – 3 sections | 8,927.27 | 9,919.18 | Х |
| LAC1000/10ML | As above with 10 metre MAX manual fold boom with self-leveller fitted – 3 sections | 9,363.63 | 10,404.03 | Х |
| LAC1000/12ML | As above with 12 metre MAX manual fold boom with self-leveller fitted – 3 sections | 10,391.39 | 11,545.99 | X |
| LAC1000/MHL12 | As above with 12 metre hydraulic fold boom with self-leveller – 3 sections | 16,736.84 | 18,596.49 | X |
| LAC1000/MHL15 | As above with 15 metre hydraulic fold boom with self-leveller – 3 sections | 17,799.04 | 19,776.71 | Х |

^{*}The AR80 pump is the market-leading Annovi Reverberi triple diaphragm positive displacement pump with poly heads and minifolds. This pump is rated from 0–20 Bar pressure and 80 litres per minute (open flow). For more information see page 50. All Croplands AgriPak linkage models are supplied with a PTO shaft.



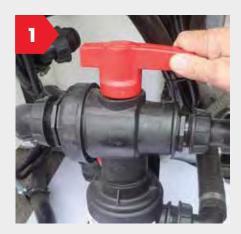
- » Calibrated and UV stabilised poly tank with sight tube and litres marked
- » Stabiliser legs fitted to the fame to keep unit safe from tipping when parked
- » Protected pump mounted beneath the tank for excellent suction and safety
- » Protected large suction filter with shut-off valve for easy cleaning
- » Large filling lid with strainer
- » Nozzles are protected on all booms to avoid damage
- » Stainless steel boom tubing with non-drip nozzle bodies
- » Easy access drain system for quick draining and clean out
- » Forklift points on bottom frame rails to assist with loading/unloading from a vehicle
- » Integrated 1,000mm hydraulic lift device
- » Integrated handwash tank standard
- » Integrated 170 litre flushing tank standard
- » 30 litre chemical mixer/induction unit standard
- » Clothing and glove locker
- » Folding access step for safety
- » 160 L/min pump standard
- » All Croplands booms fitted with AirMix® air-induction nozzles as standard

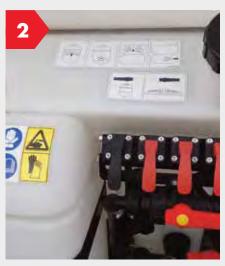


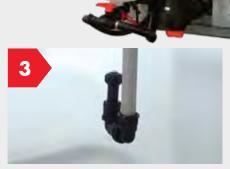


FEATURES AND OPTIONS INCLUDE

- Easy-access suction filter and tank selector
- 2. All functions easily accessed from the workstation
- 3. Tank rinsing standard
- 4. Dual venturi agitation and bypass agitation
- 5. 160 litre per minute pump standard











| DESCRIPTION – BASE MODELS (NO BOOM) | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|--|--|---|---|
| 1300 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. Choose a boom option from page 18, or for standard hydraulic fold 12 and 15 metres booms, see below | 14,105.26 | 15,672.51 | W |
| 1600 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. Choose a boom option from page 18, or for standard hydraulic fold 12 and 15 metres booms, see below | 15,157.89 | 16,842.10 | W |
| 1300 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 12 metre hydraulic fold MHL boom fitted with individual left/right fold | 24,196.16 | 26,884.63 | W |
| 1300 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 15 metre hydraulic fold MHL boom fitted with individual left/right fold | 25,488.05 | 28,320.05 | W |
| 1600 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 12 metre hydraulic fold MHL boom fitted with individual left/right fold | 25,248.80 | 28,054.22 | W |
| 1600 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 15 metre hydraulic fold MHL boom fitted with individual left/right fold | 26,540.67 | 29,489.63 | W |
| | 1300 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. Choose a boom option from page 18, or for standard hydraulic fold 12 and 15 metres booms, see below 1600 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. Choose a boom option from page 18, or for standard hydraulic fold 12 and 15 metres booms, see below 1300 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 12 metre hydraulic fold MHL boom fitted with individual left/right fold 1300 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 15 metre hydraulic fold MHL boom fitted with individual left/right fold 1600 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 12 metre hydraulic fold MHL boom fitted with individual left/right fold 1600 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 12 metre hydraulic fold MHL boom fitted with individual left/right fold | 1300 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic fold 12 and 15 metres booms, see below 1600 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. Choose a boom option from page 18, or for standard hydraulic fold 12 and 15 metres booms, see below 1300 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic felght adjuster. 30 litre chemical mixer fitted. 12 metre hydraulic fold MHL boom fitted with individual left/right fold 1300 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 15 metre hydraulic fold MHL boom fitted with individual left/right fold 1600 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 12 metre hydraulic fold MHL boom fitted with individual left/right fold 1600 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 12 metre hydraulic fold MHL boom fitted with individual left/right fold 1600 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 15 metre hydraulic height adjuster. 30 litre chemical mixer fitted. 15 metre hydraulic height adjuster. 30 litre chemical mixer fitted. 15 metre hydraulic | 1300 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic fold 12 and 15 metres booms, see below 1600 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. Choose a boom option from page 18, or for standard hydraulic height adjuster. 30 litre chemical mixer fitted. Choose a boom option from page 18, or for standard hydraulic fold 12 and 15 metres booms, see below 15,157.89 lectric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 12 metre hydraulic fold MHL boom fitted with individual left/right fold 1300 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 15 metre hydraulic fold MHL boom fitted with individual left/right fold 1300 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 15 metre hydraulic 25,248.05 28,320.05 fold MHL boom fitted with individual left/right fold 1600 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 12 metre hydraulic 25,248.80 28,054.22 fold MHL boom fitted with individual left/right fold 1600 litre linkage base unit with AR160 PTO-drive diaphragm pump. In-cab electric 3-section control unit, flushing and hand wash tank. 1,000mm integrated hydraulic height adjuster. 30 litre chemical mixer fitted. 15 metre hydraulic 26,540.67 29,489.63 |

For all other available options such as hose reels, manual fold booms, boom suspension, auto rate controllers etc, see pages 18 and 19.

LINKAGE OPTIONS

To add options to the base linkage sprayers listed on page 8–17, choose from those applicable below and next page.

Use base unit discount rate for options.

| | ORDER CODE | DESCRIPTION | SEE MORE | CAN BE FITTED TO | \$ (EX. GST) | \$ (INC. GST) |
|--|-----------------|--|------------------|---------------------------------------|-----------------|------------------|
| HOSE REEL OPTIONS | | | | | usi) | usi) |
| | L-R2412 | Heavy duty steel hose reel with 30 metres hose and Turbo gun | page 46 | 300, 600, 800, 1000, 1300, 1600 litre | 621.05 | 690.06 |
| L-R2412 | L-R3000 | Manual spring-loaded retractable reel, 16 metres hose and spray lance | page 46 | 300, 600 litre | 362.68 | 402.98 |
| BOOMS | | | | | | |
| | MSCL-2 | Adjustable-width covered boom | page 23 | 300, 600 litre | 1,654.55 | 1,838.39 |
| | MBX04 | 4 metre MBX series manual cross-fold boom | page 20 | 300, 600 litre | 934.93 | 1,038.81 |
| | MBX06 | 6 metre MBX series manual cross-fold boom | page 20 | 300, 600 litre | 1,241.15 | 1,379.05 |
| A //O | MAX08 | 8 metre MAX series manual cross-fold boom | page 21 | 600, 800, 1000 litre | 2,449.76 | 2,721.95 |
| | MAX08L | 8 metre MAX series manual cross-fold boom with self-levelling device | page 21 | 600, 800, 1000 litre | 3,183.74 | 3,537.49 |
| | MAX10 | 10 metre MAX series manual cross-fold boom | page 21 | 600, 800, 1000 litre | 3,153.11 | 3,503.45 |
| | MAX10L | 10 metre MAX series manual cross-fold boom with self-levelling device | page 21 | 600, 800, 1000 litre | 3,890.91 | 4,323.23 |
| | MAX12L | 12 metre MAX series manual cross-fold boom with self-levelling device | page 21 | 600, 800, 1000, 1300, 1600 litre | 4,489.95 | 4,988.83 |
| A A | GEX06H | 6 metre GEX series hydraulic cross-fold boom | page 23 | 300, 600, 800, 1000 litre | 5,210.53 | 5,789.47 |
| MAX08 | GEX08H | 8 metre GEX series hydraulic cross-fold boom | page 23 | 600, 800, 1000 litre | 6,626.79 | 7,363.10 |
| | GEX10H | 10 metre GEX series hydraulic cross-fold boom | page 23 | 600, 800, 1000, 1300, 1600 litre | 6,818.18 | 7,575.75 |
| | MHL12 | 12 metre Hydralink series hydraulic cross-fold boom with self-levelling device | page 22 | 1000, 1300, 1600 litre | 10,091.86 | 11,213.18 |
| | MHL15 | 15 metre Hydralink series hydraulic cross-fold boom with self-levelling device | page 22 | 1000, 1300, 1600 litre | 11,384.68 | 12,649.65 |
| BOOM EXTRAS | | | | | | |
| | MHL12-2-KIT | Second set of hydraulic hoses to allow individual left and right fold of MHL boom (note – ensure your tractor has sufficient hyd remotes) | Not pictured | 800, 1000, 1300, 1600 litre | 521.53 | 579.47 |
| DTEE TEE IET | GEX-2-KIT | Second set of hydraulic hoses to allow individual left and right fold of GEX boom (note – ensure your tractor has sufficient hyd remotes) | Not pictured | 300, 600, 800, 1000, 1300, 1600 litre | 521.53 | 579.47 |
| BILI-ILLULI | BOFLS | Adjustable boom-end nozzle with manual tap for fence line spraying. (Not for use with MSCL-2) | Pictured left | 300, 600, 800, 1000, 1300, 1600 litre | 124.40 | 138.22 |
| | BTEF-TEEJET | Electric fence line kit to clamp around boom tube - right hand side. Must have electric or auto-rate control fitted for this option | Pictured left | 300, 600, 800, 1000, 1300, 1600 litre | 409.57 | 455.07 |
| BOFLS | BTEF-TEEJETLH | Electric fence line kit to clamp around boom tube – left hand side. Must have electric or auto-rate control fitted for this option | Not pictured | 300, 600, 800, 1000, 1300, 1600 litre | 409.57 | 455.07 |
| BOOMLESS NOZZLE KITS | | Kit to mount Croplands XT boomless nozzle kit to | | | | |
| Semple of the season of the se | LT-XTBOOMKIT | your sprayer. Kit includes 2 x #10 XT nozzles on adjustable swivel nozzle bodies, steel bracket and 2 x clamps for mounting. Hose and fittings to your pump are not supplied | page 44 | 300, 600, 800, 1000 litre | 334.93 | 372.14 |
| LT-XTB00MKIT | LT-5880-KIT | Brass 5800-¾-2TOC20 BoomJet for high volume applications (other sizes available, talk to Croplands) | Not pictured | 600, 800, 1000, 1300, 1600 litre | 801.92 | 891.02 |
| HYDRAULIC BOOM LIFT D | EVICES | | | | | |
| | LP060-LIFT | 1000mm hydraulic boom-lift with hydraulic hose kit to tractor (requires 1 set hyd tractor remotes) | page 11 | 600 and 800 litre | 2,631.58 | 2,923.98 |
| | LT-GB360589000V | 1200mm hydraulic boom-lift with hydraulic hose kit to tractor (requires 1 set hyd tractor remotes) | Not pictured | 1000 litre | 2,751.20 | 3,056.89 |
| BOOM SUSPENSION OPTIO | ONS | | | | | |
| LT-GB383899000V | LT-GB383899000V | Airbag parallelogram suspension device to protect booms – ideal if a boom-lift device is not fitted or a nitrogen accumulator is not practical | Pictured left | 1000, 1300, 1600 litre | 2,933.01 | 3,430.42 |
| | | | | | | |



LINKAGE OPTIONS

| | ORDER CODE | DESCRIPTION | SEE MORE | CAN BE FITTED TO | \$ (EX. | \$ (INC. |
|------------------------|-----------------------|--|-----------------|---------------------------------------|----------|------------------------------|
| CHEMICAL MIXING and IN | | | OLL MONE | OAR DETRIED TO | GST) | GST) |
| L-H9351A-KIT | A5033301-KIT | 35 litre chemical mixing and induction hopper fitted at fixed height at the side of the linkage sprayer. Fully enclosed for safe mixing, with container rinse function | page 42 | 300, 600, 800, 1000 litre | 1,574.16 | 1,841.12 |
| | L-H9351A-KIT | 60 litre chemical mixing and induction hopper fitted at fixed height at the side of the linkage sprayer. Fully enclosed for safe mixing, with container rinse function | page 42 | 800, 1000 litre | 1,674.64 | 1,958.65 |
| PUMP AND PUMP DRIVE U | JPGRADES | | | | | |
| LT-140-C | LT-140-C | AR140LFP liquid fertiliser-ready pump in lieu of standard 80 litre pump. (133 L/min rated at 0-pressure, 0–15 Bar) | page 50 | 600, 800, 1000 litre | 1,574.16 | 1,841.12 |
| | LP-HYD | Hydraulic pump drive in lieu of PTO shaft-drive. Includes hyd hoses to tractor. Tractor model must be specified. Note – ensure your tractor has sufficient oil supply | Not pictured | 600, 800, 1000, 1300, 1600 litre | 1,674.64 | 1,958.65 |
| ELECTRIC AND AUTO-SPE | RAY RATE CONTROL | OPTIONS | | | | 6.32 849.49 3.40 2,120.94 |
| | LT-LA-IE2012 | ARAG single switch electric control kit fitted for boom shut-off using in-cab switchbox. (Boom section control is manually done using taps) (ARAG option available on request) | page 68 | 300, 600, 800, 1000 litre | 726.32 | 849.49 |
| Connect | LT-LA-IE2032A | ARAG 3-section electric control kit for individual on/ off of 3 boom sections. Includes master on/off and electric pressure adjustment from in-cab switchbox. (ARAG option available on request) | page 68 | 300, 600, 800, 1000 litre | 1,813.40 | 2,120.94 |
| LT-BA5000-GE05 | LT-IE2052A | ARAG electric in-cab controller with switchbox. 5-section electric valves for individual section shut off, electric pressure regulating valve and a master on/off can all be operated from the switchbox in the cab or vehicle. Requires a reliable 12-volt power supply. (ARAG option available on request) | - | 300, 600, 800, 1000, 1300, 1600 litre | 2,291.86 | 2,680.54 |
| | LT-BA5000-GEO3 | Croplands 3-section fully auto spray-rate control of spraying application. Dual screen display, 3 boom section control, auto spray-rate adjustment | page 69 | All models | 3,244.02 | 3,604.46 |
| a cacacata | LT-BA5000-GEO5 | Croplands 5-section fully auto spray-rate control of spraying application. Dual screen display, 5 boom section control, auto spray-rate adjustment | page 69 | 600, 800, 1000, 1300, 1600 litre | 3,631.58 | 4,247.46 |
| LT-BRAV0180-ARAG5 | LT-BRAVO180- ARAG5 | Bravo180 5-section fully auto spray-rate control of spraying application. Dual screen display, 5 boom section control, auto spray-rate adjustment | page 69 | 600, 800, 1000, 1300, 1600 litre | 5,344.49 | 6,250.87 |
| GUIDANCE AND FOAM MA | RKERS | | | | | |
| 8 M | A5200052 | Double-sided foam marker with in-cab left/right control | page 44 | All models | 1,394.26 | 1,630.72 |
| RV117-2295-001 | RV117-2295-001 | Raven CR7 system with a 7" field computer with customisable in-job layouts, ISO universal terminal and task controller capabilities, optional external GPS, compatible with direct injection, multi-product control including variable rate liquid, dry, and NH3 applications, slingshot – ready for file transfer, remote support, and OTA software updates | page 70 | All models | 3,315.42 | 3,683.80 |
| MATRIX430 | MATRIX430 | Matrix 430 GPS mapping system complete with patch antenna (antenna upgrade available, see page 70) | page 70 | All models | 1,912.92 | 2,237.33 |
| HT-PROBE | HT-PROBE | Optional suction probe fitted | page 15 | 600, 800, 1000 litre | 314.83 | 349.81 |

MBX MANUAL FOLD BOOMS

AL STRY IN

QUICK GUIDE

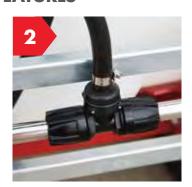
- » Rugged, galvanised steel construction
- » Nozzles are protected being placed above the boom rail
- » Stainless steel boom tubes for added strength and durability
- » Non-drip nozzles bodies with AirMix® low-drift nozzles fitted
- » Adjustable tension spring breakaway for each boom arm to ensure the arm returns to position
- » Folds neatly behind the sprayer or vehicle (not the MB02 which is fixed)









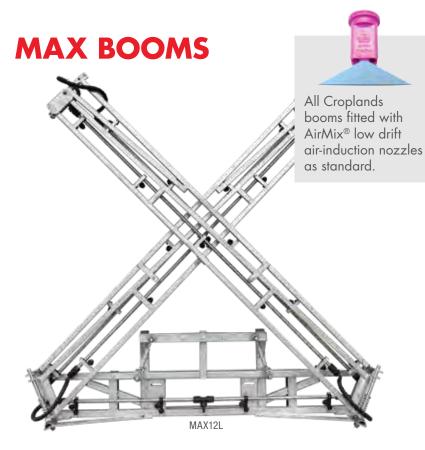




MBX04



| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| MB02 | One piece 2 metre boom with 4 non-drip nozzles at 500mm spacings | 290.91 | 322.50 | Х |
| MBX03 | 3 metre galvanised boom; 6 non-drip nozzles at 500mm spacings. 1.2 metres folded width. Ideal for RTVs, small sprayers and utes | 846.89 | 940.99 | Х |
| MBX04 | 4 metre galvanised boom; 8 non-drip nozzles at 500mm spacings. 1.2 metres folded width. Ideal for RTVs, small sprayers and utes | 934.93 | 1,038.81 | Х |
| MBX06 | 6 metre galvanised boom; 12 non-drip nozzles at 500mm spacing. Suitable for linkage sprayers, vehicles and traymount sprayers | 1,241.15 | 1,379.05 | Х |
| ATVBOOMKIT | Mounting kit to allow fitting of the MBX booms to vehicle trays and RTVs | 379.91 | 422.12 | Х |



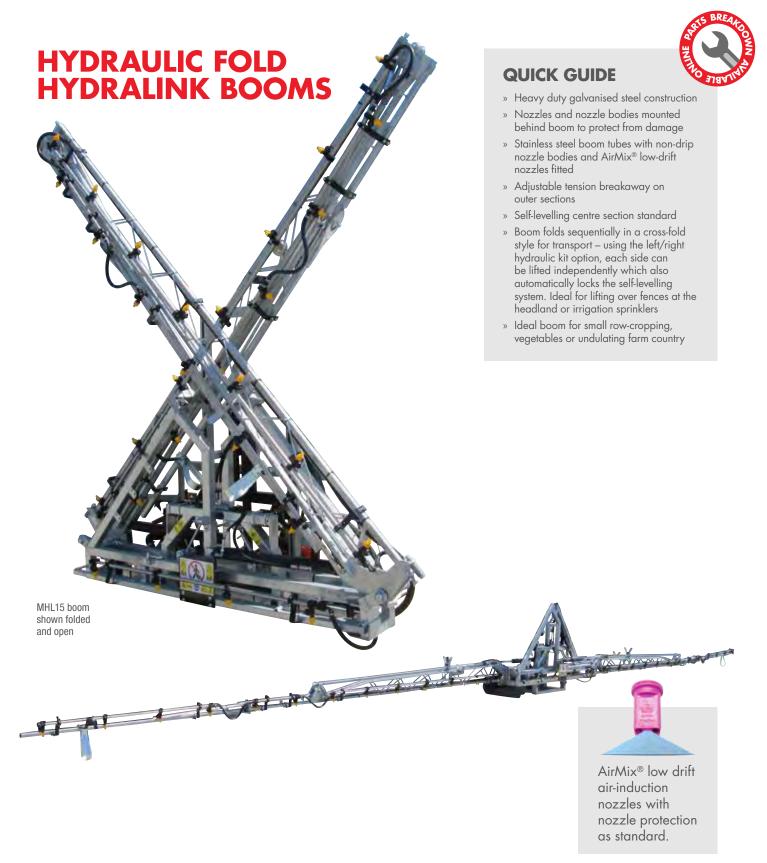


- » Hot-dipped galvanised finish
- » Available in 8, 10 and 12 metre boom widths
- » Can be plumbed in 3 sections
- » Stainless steel boom tubing
- » Non-drip nozzle bodies fitted with industry-leading AirMix® anti drift nozzles
- » Nozzle bodies fully protected
- » Self-returning breakaway on boom arms to protect against collision damage
- » Self-levelling device standard on 12 metre boom; optional on 8 and 10 metre boom. Self-leveller can be locked if required
- » Quick fitting features allowing to detach hose easier and quicker





| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| MAX08 | 8 metre MAX series cross-fold boom, without self-leveller | 2,449.76 | 2,721.95 | Х |
| MAX08L | 8 metre MAX series cross-fold boom, with self-leveller | 3,183.74 | 3,537.49 | Х |
| MAX10 | 10 metre MAX series cross-fold boom, without self-leveller | 3,153.11 | 3,503.45 | Х |
| MAX10L | 10 metre MAX series cross-fold boom, with self-leveller | 3,890.91 | 4,323.23 | Х |
| MAX12L | 12 metre MAX series boom with self-leveller (not available without self-leveller) | 4,489.95 | 4,988.83 | Х |



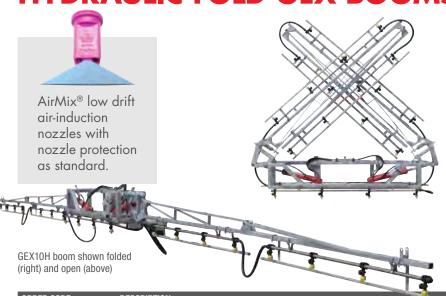
| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|-------------|--|--------------|---------------|------------|
| MHL12 | Heavy duty galvanised 12 metre hydraulic folding boom with 24 nozzles, twin ram with auto folding tips, hydraulically plumbed to fold both sides together. Central self-locking self-leveller standard | 10,091.86 | 11,213.18 | Χ |
| MHL15 | Heavy duty galvanised 15 metre hydraulic folding boom with 30 nozzles, twin ram with auto folding tips, hydraulically plumbed to fold both sides together. Central self-locking self-leveller standard | 11,384.68 | 12,649.65 | Х |
| MHL12-2-KIT | Second set of hydraulic hoses to allow left/right individual fold of MHL boom (text on your order) | 521.53 | 579.47 | W |

Booms shown on sprayers for illustration purposes only. Prices are for booms only.





HYDRAULIC FOLD GEX BOOMS



QUICK GUIDE

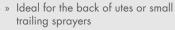
- » Galvanised steel construction
- » Nozzles protection fitted on outer sections
- » Stainless steel boom tubes with non-drip nozzles bodies and AirMix® low-drift nozzles fitted
- » Adjustable tension spring breakaway for each boom arm
- » Boom folds hydraulically in a cross-fold style. Note: the 8 and 10 metre models have a manual flip-over outer section which needs to be manually secured in the folded position prior to folding the boom for transport
- » Ideal boom for small row-cropping situations or vegetables

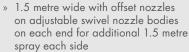
| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|-------------|--|--------------|---------------|------------|
| GEX06H | 6 metre galvanised hydraulic folding boom; 12 non-drip nozzle bodies, 2 rams for folding, hydraulically plumbed to fold together. Weight = 87kg | 5,210.53 | 5,789.48 | Χ |
| GEX08H | 8 metre galvanised hydraulic folding boom; 16 non-drip nozzle bodies, 2 rams for folding, hydraulically plumbed to fold together. 1 metre of each end is manually unfolded to make the boom 8 metres. Weight = 93kg | 6,626.79 | 7,363.10 | Х |
| GEX10H | 10 metre galvanised hydraulic folding boom; 20 non-drip nozzle bodies, 2 rams for folding, hydraulically plumbed to fold together. 2 metres of each end is manually unfolded to make the boom 10 metres. Weight = 96kg | 6,818.18 | 7,575.76 | Χ |
| MHL12-2-KIT | Second set of hydraulic hoses to allow left/right individual fold of GEX boom (text on your order) | 521.53 | 579.47 | W |



QUICK GUIDE

Firebreak boom:





» For spraying firebreaks, farm tracks, contours, ditches and fence lines

Under-tree boom:

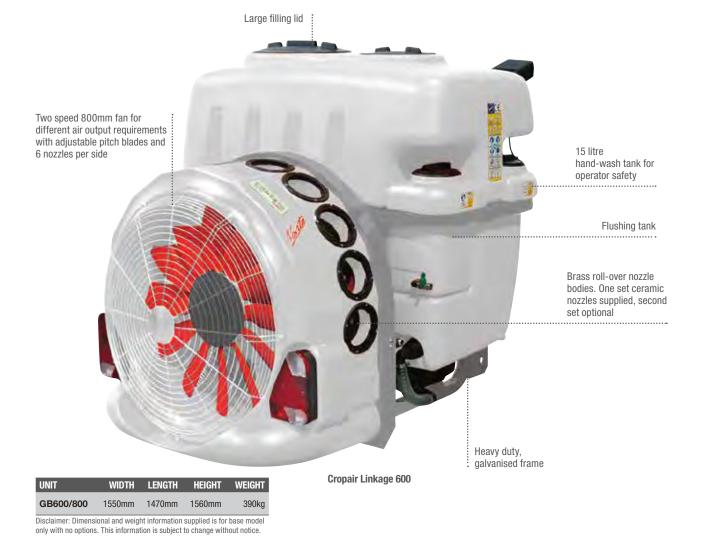
- Galvanised boom with breakaway
 extendable outer section with two nozzles, can be lifted up for transport
- » Perfect for spraying under trees or hedgerows

Shrouded booms:

- » Single or double sided options for sensitive greas
- » For spraying under sensitive crops such as grapes, trellis tomatoes and the like

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|--|--------------|---------------|------------|
| MC6 | 1.5 metre wide Firebreak boom | 507.18 | 563.53 | Χ |
| MSO | Treeliner boom with breakaway and 2 nozzles with manual-tap shut-off | 665.07 | 738.97 | Χ |
| MSCL | Single sided light covered boom with breakaway and 2 nozzles under spray shield | 586.60 | 651.78 | Χ |
| MSCL-2 | Double sided light covered boom with left/right shielded booms with breakaways, adjustable width, and a 600mm wide uncovered centre section with 2 nozzles | 1,654.55 | 1,838.39 | X |
| MVB5-5 | 5 nozzles per side Vertiboom. Ideal for small horticultural growers | 573.21 | 636.90 | X |











Cropair Linkage 600 litre



FAN

On the 600 litre Cropair with 800mm fan fitted, there is an option to blank off the air to outlets not being used – for example in vine crops. This allows more air to be distributed through the remaining outlets and to use low-gear fan speed to reduce the power required to drive the fan – especially useful with smaller tractors.



NOZZLES

On both the 300 and 600 Cropair models, each nozzle body is made of brass, with a non-drip diaphragm to avoid dripping when the main tap is shut off. A selection of two nozzle sizes can be fitted so when the nozzle body is 'rolled over', the nozzle required is easily selected. In the halfway position, the nozzle is shut off.



MANUAL-TAP CONTROL AND ISOMETRIC GAUGE

Each Cropair comes standard with manual-tap control for left/right shut off of the spray-ring on each side. A master on/off lever is also provided, along with a rotational pressure control (PRV) and isometric gauge to accurately set the spraying pressure. For electric controls, see more information on page 68.





For nozzle selection, refer to page 95.

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| GB600/800 | 600 litre Cropair with 800mm fan | 10,765.55 | 11,961.72 | X |
| GB300/500 | 300 litre Cropair with 500mm fan | 6,937.80 | 7,708.67 | Х |
| HT-IS4021 | Electric left/right 2-section on/off solenoids, electric pressure adjustment with integrated pressure filter and master switch with dump solenoid | 2,464.12 | 2,882.01 | Х |

300 LITRE TRAILED SPRAYER



QUICK GUIDE

- » Translucent UV-stabilised tank with large sump and graduated markings
- » 12-volt models standard with NEW hose reel, with 10 metres of 10mm hose and spray lance
- » Large, easy access lid with filling strainer
- » 12-volt, 20 litre per minute (open-flow) pump to enable use with booms to 6 metres
- » Easy access suction filter and regulator for pressure and flow adjustment
- » Safety hitch for safe towing
- » Flotation tyres on sturdy axle
- » Rugged, one-piece chassis
- » Handy parking stand

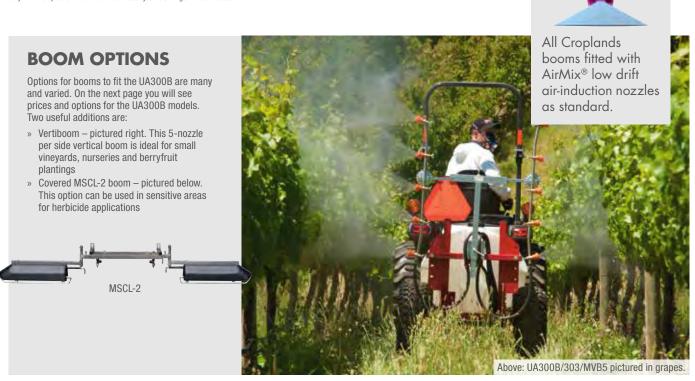
On models with boom fitted:

- » AirMix® air-induction low drift nozzles fitted standard
- » Fully protected non-drip nozzle bodies on stainless steel boom tubes
- » Spring loaded breakaways top protect boom arms from accidental impact damage

Above: UA300B Trailing sprayer with 4 metre boom and new 10m hose reel.

| UNIT | WIDTH | LENGTH | HEIGHT | WEIGHT |
|--------|--------|--------|--------|--------|
| UA300B | 2000mm | 1200mm | 1200mm | 120kg |

Disclaimer: dimensional and weight information supplied is for base model only with no options. This information is subject to change without notice.





Croplands trailed 300 litre sprayers are a very popular option for block-holders and smaller farms all over Australia and New Zealand.





XT Boom Kit in action.
For areas where a boom is not practical, consider the XT boom kit model – ideal for undulating conditions, firebreaks, contours and forestry work.



| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. Cat. | ACCESSORIES PAGE REF |
|-----------------|---|--------------|---------------|---------------|-------------------------|
| UA300B | Trailer with hitch and 300 litre tank only – no pump, boom or gun | 2,421.05 | 2,690.06 | Χ | 38, 39 |
| UA300B/20.1S | Trailing 300 litre sprayer, 20 L/min 12-volt pump, regulator kit, 10 metres of 10mm hose on handy hose reel with spray lance – ideal spot sprayer | 3,023.93 | 3,359.92 | Χ | 38, 39 |
| UA300B/20S/4BX | Trailing 300 litre sprayer, 20 L/min 12-volt pump, regulator kit, 10 metres of 10mm hose on handy hose reel with spray lance and 4 metre boom | 4,138.76 | 4,598.62 | Χ | 38, 39 |
| UA300B/20S/6BX | Trailing 300 litre sprayer, 20 L/min 12-volt pump, regulator kit, 10 metres of 10mm hose on handy hose reel with spray lance and 6 metre boom | 4,492.82 | 4,992.02 | Χ | 38, 39 |
| UA300B/20S/XTKI | Trailing 300 litre sprayer, 20 L/min 12-volt pump, regulator kit, 10 metres of 10mm hose on handy hose reel with spray lance and NEW XT boom kit fitted | 3,598.08 | 3,997.87 | Χ | 38, 39 |
| UA300B/20/HR20G | Honda powered AR252 pump fitted to the UA300B trailing sprayer with 20 metres of 10mm hose on hose reel with RL10 spray lance | 4,779.91 | 5,311.01 | Χ | - |
| UA300B/20/HR30G | Honda powered AR252 pump fitted to the UA300B trailing sprayer with 30 metres of 10mm hose on heavy-duty steel hose reel with RL10 spray lance | 5,162.68 | 5,736.32 | Χ | - |
| UA300B/20/100RC | Honda powered AR252 pump fitted to the UA300B trailing sprayer auto-rewind remote control RetraSpray reel fitted | 8,239.23 | 9,154.70 | Χ | _ |
| UA300B/303/MVB5 | Honda powered AR303 pump fitted to the UA300B trailing sprayer with 5 nozzle per side Vertiboom fitted. Ideal for small horticultural growers | 5,693.78 | 6,326.42 | Χ | - |

RETRASPRAY

Croplands RetraSpray 12-volt retractable reel will take all the work out of gun spraying. The time and effort saved is well worth the investment – up to 40% more productivity can be expected with the operator not having to lug a heavy hose around or to rewind over 100 kilos of hose up by hand when making a move to a new area. The Supa-slip hose on the reel will slip around rocks, tree stumps, posts and any other obstacle without snagging. Do yourself a favour and invest now.





12-volt Retractable Reels

- » 12-volt 1/5HP low rev motor directly coupled to the reel
- » Push button hose retraction standard, remote control for rewinding is optional
- » Spray gun not included, select from gun options below or supply your own from your existing rig
- » Connect to 12-volt DC power source using heavy duty power cable supplied
- » Remote control option includes roller guides for hose and remote wireless control for rewinding

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|----------------|---|--------------|---------------|------------|
| RSRL2-100RC | RetraSpray single reel with 100 metre hose and remote control | 3,148.33 | 3,498.14 | W |
| B26.901.165MK2 | Turbo400 with metal grip and protected lever, 50 Bar (725 psi) | 181.82 | 202.02 | Υ |
| RL10 | RL10 gun with 500mm steel lance, adjustable nozzle, suits 100 model | 86.13 | 95.70 | Υ |

Note: guns sold separately.

LINKAGE SPRAYERS

RSRL2-100RC

CAN BE FITTED TO

LA600/100RC

TRAYMOUNT SPRAYERS





View the Traymount Sprayer in action





TRAYMOUNT SPRAYERS © RetraSpray

500 RETRASPRAY TRAYMOUNT



QUICK GUIDE

- » Heavy duty hot-dip galvanised frame with carry handles
- » UV-stabilised tank with level markings
- » Large filling lid with basket strainer
- » Large sump for total emptying and easy draining and clean out
- » Genuine Honda motor to power the reliable AR diaphragm pump
- » 12-volt remote rewind reel option for effortless spraying and high productivity (RSRL100RC models)
- » For weed spraying, sheep jetting, fire fighting, water carting and pest control

| UNIT | WIDTH | LENGTH | HEIGHT | WEIGHT |
|------------------|--------|--------|--------|--------|
| US200C/252/100RC | 1360mm | 990mm | 805mm | 134kg |
| US300C/30/100RC | 1360mm | 990mm | 805mm | 148kg |
| US500/30/100RC | 1700mm | 1200mm | 1200mm | 220kg |
| US500/40/100RCT | 1700mm | 1200mm | 1200mm | 250kg |
| US600C/30/100RC | 1255mm | 1575mm | 990mm | 199kg |
| US600C/40/100RCT | 1300mm | 1575mm | 990mm | 239kg |

Disclaimer: dimensional and weight information supplied is for base model only with no options. This information is subject to change without notice.

200 RETRASPRAY TRAYMOUNT



300 RETRASPRAY TRAYMOUNT



| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------------|--|--------------|---------------|------------|
| US200C/252/100RC | NEW 200 litre traymount sprayer with galvanised frame, Honda powered 25 L/min pump, 12-volt auto retractable RetraSpray reel with 100m of non kink spray hose and Turbo Gun. 6 litre hand wash tank | 6,800.00 | 7,555.50 | W |
| US300C/30/100RC | NEW 300 litre traymount sprayer with galvanised frame, Honda powered 35 L/min pump, 12-volt auto retractable RetraSpray reel with 100m of non kink spray hose and Turbo Gun. 6 litre hand wash tank | 7,000.00 | 7,777.00 | W |
| US500/30/100RC | 500 litre traymount sprayer with galvanised frame, Honda powered 35 L/min pump, 12-volt auto retractable RetraSpray reel with 100m of non kink spray hose and Turbo Gun | 7,291.86 | 8,102.06 | W |
| US500/40/100RCT | 500 litre traymount sprayer with galvanised frame, Honda powered 46.3 L/min pump, Twin 12-volt auto retractable RetraSpray reels with 100m of non kink spray hose and Turbo Guns | 11,093.78 | 12,326.42 | W |
| US600C/30/100RC | NEW 600 litre traymount sprayer with galvanised frame, Honda powered 35 L/min pump, 12-volt auto retractable RetraSpray reel with 100m of non kink spray hose and Turbo Gun. 6 litre hand wash tank | 8,175.65 | 9,084.05 | W |
| US600C/40/100RCT | NEW 600 litre traymount sprayer with galvanised frame, Honda powered 46.3 L/min pump, Twin 12-volt auto retractable RetraSpray reels with 100m of non kink spray hose and Turbo Guns. 6 litre hand wash tank | 11,593.78 | 12,881.97 | W |

NEW 200/300/600 MANUAL REEL TRAYMOUNT





QUICK GUIDE

- » Heavy duty hot-dip galvanised frame with carry handles
- » UV-stabilised tank with level markings
- » Large filling lid with basket strainer
- » Large sump for total emptying and easy draining and clean out
- » Genuine Honda motor to power the reliable AR diaphragm pump
- » Steel hose reel with galvanised mount, 30 metres of high quality hose and Turbo400 gun
- » For weed spraying, sheep jetting, firefighting, water carting and pest control

| UNIT | WIDTH | LENGTH | HEIGHT | WEIGHT |
|-------------------|--------|--------|--------|--------|
| US200C/252/HR30TG | 1275mm | 1015mm | 725mm | 112kg |
| US300C/30/HR30TG | 1275mm | 1015mm | 725mm | 117kg |
| US600C/30/HR30TG | 1255mm | 1575mm | 990mm | 199kg |
| US600C/40/TWIN | 1220mm | 1475mm | 990mm | 239kg |

Disclaimer: dimensional and weight information supplied is for base model only with no options. This information is subject to change without notice.



| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|-----------------------|---|--------------|---------------|------------|
| US200C/252/ HR30TG | NEW 200 litre traymount sprayer with galvanised frame, Honda powered 25 L/min AR pump. Manual two tap controls, 30 metre hose reel and Turbo Gun. 6 litre hand wash tank | 4,176.10 | 4,640.10 | Х |
| US300C/30/HR30TG | NEW 300 litre traymount sprayer with galvanised frame, Honda powered 35 L/min AR pump. Manual two tap controls, 30 metre hose reel and Turbo Gun. 6 litre hand wash tank | 4,476.10 | 4,973.44 | Х |
| US600C/30/HR30TG | NEW 600 litre traymount sprayer with galvanised frame, Honda powered 35 L/min AR pump. Manual two tap controls, 30 metre hose reel and Turbo Gun. 6 litre hand wash tank | 5,476.07 | 6,084.52 | Х |
| US600C/40/TWIN | NEW 600 litre traymount sprayer with galvanised frame, Honda powered 46.3 L/min AR pump. Manual two tap controls, Twin 30 metre hose reels and Turbo Guns. 6 litre hand wash tank | 6,340.67 | 7,045.18 | Х |



500 LITRE TRAYMOUNT MANUAL REEL

(with frame)



QUICK GUIDE

- » Heavy duty hot-dip galvanised frame with carry handles
- » UV-stabilised tank with level markings
- » Large filling lid with basket strainer
- » Large sump for total emptying and easy draining and clean out
- » Genuine Honda motor to power the reliable AR diaphragm pump
- » Steel hose reel with galvanised mount, 30 metres of high quality hose and Turbo400 gun
- » For weed spraying, sheep jetting, firefighting, water carting and pest control

| UNIT | WIDTH | LENGTH | HEIGHT | WEIGHT |
|---------------------|--------|--------|--------|--------|
| US500/30/ HR30TG | 1700mm | 1200mm | 1200mm | 220kg |

Disclaimer: dimensional and weight information supplied is for base model only with no options. This information is subject to change without notice.



POWERED by HONDA

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|-----------------|---|--------------|---------------|------------|
| US500/30/HR30TG | CropPak 500 litre, AR30 pump, reel with 30 metre hose and Turbo Gun, galvanised skid-frame | 4,976.07 | 5,528.97 | X |
| US500/70/HR30TG | CropPak 500 litre, AR70 pump, reel with 30 metre hose and Turbo Gun, galvanised skid-frame. AR70 pump is ideal for use with a range of booms (see page 20 and 21) | 4,976.07 | 5,528.97 | X |
| US500/40/TWIN | CropPak 500 litre, AR40 pump, twin reel both with 30 metre hose and Turbo Gun, galvanised skid frame | 5,840.67 | 6,489.63 | Х |

1100 | 1500 PONY TRAILED SPRAYERS





QUICK GUIDE » Remote tank drain valve, for safe tank draining » Huge sump to ensure all tank liquid can be utilised » Large, easy access filling lid with filling strainer » Easy access suction filter with shut-off to allow cleaning in-field if needed » Fully galvanised chassis » Sprung axle fitted to protect chassis and boom from premature wear » 11.5/80 x 15.3 tubeless agricultural tyres on steel rims » Adjustable height swivel towing eye » Large side step for easy tank access » Liquid fertiliser ready Poly 3-diaphragm pump fitted standard (PTO shaft supplied) » See options listed on the next page BT-1100 shown

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| BT-1100 | Base model 1100 litre trailed sprayer with galvanised chassis, leaf-spring single axle, PTO-drive 80 L/min AR triple-diaphragm pump (0–20 Bar rated), ARUCM 5-manual tap control unit, 20 litre handwash tank and jockey wheel. No boom or reel fitted – add from options next page. PTO supplied | 7,673.68 | 8,526.31 | W |
| BT-1500 | Base model 1500 litre trailed sprayer with galvanised chassis, leaf-spring single axle, PTO-drive 80 L/min AR triple-diaphragm pump (0–20 Bar rated), ARUCM 5-manual tap control unit, 20 litre handwash tank and jockey wheel. No boom or reel fitted – add from options next page. PTO supplied | 7,946.32 | 8,829.24 | W |

Note: ensure your vehicle is approved for the laden or trailed weight of the sprayer you have chosen.

with MAX boom and electric controller option





OPTIONS FOR 1100 | 1500 PONY TRAILED

BOOM OPTIONS

For the Pony trailed sprayers. Ensure the folded width does not exceed your State specifications for transport if you plan to take these sprayers on public roads.

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT | SEE More |
|-----------------|---|--------------|---------------|-----------|-------------|
| BT-MAX08L | 8 metre MAX series manual cross-fold boom with self-leveller fitted at fixed height (can be adjusted by unbolting and refitting). Folded width = $2,055\mathrm{mm}$ | 3,183.74 | 3,537.49 | W | 21 |
| BT-MAX10L | 10 metre MAX series manual cross-fold boom fitted. Specifications as per MAX08L above | 3,890.91 | 4,323.23 | W | 21 |
| BT-MAX12L | 12 metre MAX series manual cross-fold boom fitted. Specifications as per MAX08L above | 4,489.95 | 4,988.83 | W | 21 |
| LT-GB383899000V | Parallelogram airbag suspension system for booms | 2,933.01 | 3,430.42 | W | 18 |



MAX10L 10 metre MAX boom with self-leveller



LT-GB383899000V airbag suspension

PUMP OPTIONS - TRAILED

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT | SEE More |
|------------|---|--------------|---------------|-----------|-------------|
| LT-140-C | 140 L/min PTO pump in lieu of standard 80 L/min model | 521.52 | 609.97 | W | 50 |
| BT-AR70-5H | AR70 Honda-powered motorised pump in lieu of PTO drive AR80 | 2,945.45 | 3,272.72 | W | - |



ELECTRIC AND AUTO SPRAY-RATE CONTROLLERS (IF BOOM IS FITTED)

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT | SEE More |
|---------------|---|--------------|---------------|-----------|-------------|
| LT-LA-IE2032A | 3-section control of 3 boom sections and pressure control | 1,813.40 | 2,120.94 | W | 68 |
| BA5000-GEO3 | 3-section auto-rate spray controller for fully automatic spray rate control | 3,244.02 | 3,604.46 | W | 69 |

FOAM MARKER AND GPS OPTION

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT | SEE MORE |
|------------|---|--------------|---------------|-----------|-------------|
| A5200052 | Double sided foam marker fitted | 1,394.26 | 1,549.17 | W | 44 |
| MATRIX430 | Basic GPS mapping system in lieu of a foam marker. Ideal for knowing where you have applied | 1,912.92 | 2,237.33 | W | 70 |



A5200052 foam marker



MATRIX430

30 | 60 | 100 CROPPAK





| FEATURE | BENEFIT |
|--------------------------------------|--|
| 1 3-stage filtration | Large filling screen under lid; large suction filter; pressure filter in lance handle |
| 2 Lance clips onto lid | Ensures neat storage and avoids lance dragging on the ground |
| 2 Large filling lid | Helps prevent spillage when filling |
| 3 Metal lance with adjustable nozzle | Superior to plastic, higher strength. Many accessories available to fit the lance – page 38 |
| 4 Large carry handles | Easy handling and for storing hose neatly |
| 5 6 metre hose | 6 metres of high quality 20 Bar rated spray hose fitted |
| 6 Large drain | Easy-to-use, large 'boat plug' drain for quick clean-out |
| 7 Large suction filter, easy access | Very large filtering area with easy-clean filter screen. Simple and quick to access |
| 8 Cavity mounted pump | Total protection against the elements and damage. Low pump position ensures excellent priming |
| 9 Quick-clip power connection | High quality electrical connector to the pump with waterproof plug for quick hook up and reliability |
| 10 Translucent tank | Easy to see liquid level in the tank |
| 10 Rugged design, locally made | Rotomolded tank has uniform thickness and can take high impact force |
| 10 UV stabilised tank | Excellent UV resistance. Many imported models have no UV inhibitor in the material |
| Heavy duty power cable | Long, heavy duty 12-volt power lead with rocker-switch for easy hook-up to your battery |
| | |

| UNIT | WIDTH | LENGTH | HEIGHT | WEIGHT |
|--------|-------|--------|--------|--------|
| US30S | 280mm | 640mm | 380mm | 9kg |
| US60S | 440mm | 760mm | 440mm | 11kg |
| US100S | 460mm | 1000mm | 460mm | 14kg |
| | | | | |

Disclaimer: dimensional and weight information supplied is for base model only with no options. This information is subject to change without notice.



On page 38 and 39 you will find a wide range of accessories available for use with the standard lance to make your purchase of a Croplands CropPak a worthwhile investment. Please ensure your vehicle's load rating can carry the sprayer you want before making your purchase.

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. Cat. | ACCESSORIES PAGE REF |
|------------|---|--------------|---------------|---------------|-------------------------|
| US30S | 30 litre CropPak, on-demand 6.8 L/min open-flow pump, 6 metres of spray hose, spray lance and electrical power lead with on/off switch | 506.22 | 562.47 | Х | 38, 39 |
| US60S | 60 litre CropPak, on-demand 6.8 L/min open-flow pump, 6 metres of spray hose, spray lance and electrical power lead with on/off switch | 588.52 | 653.91 | Х | 38, 39 |
| US100S | 100 litre CropPak, on-demand 6.8 L/min open-flow pump, 6 metres of spray hose, spray lance and electrical power lead with on/off switch | 636.37 | 707.08 | Х | 38, 39 |
| US100A/15 | 100 litre CropPak, on-demand 15 L/min open-flow pump, pressure regulator and gauge, 6 metres of spray hose, spray lance and electrical power lead with on/off switch | 832.54 | 925.04 | Х | 38, 39 |



200 | 400 CROPPAK

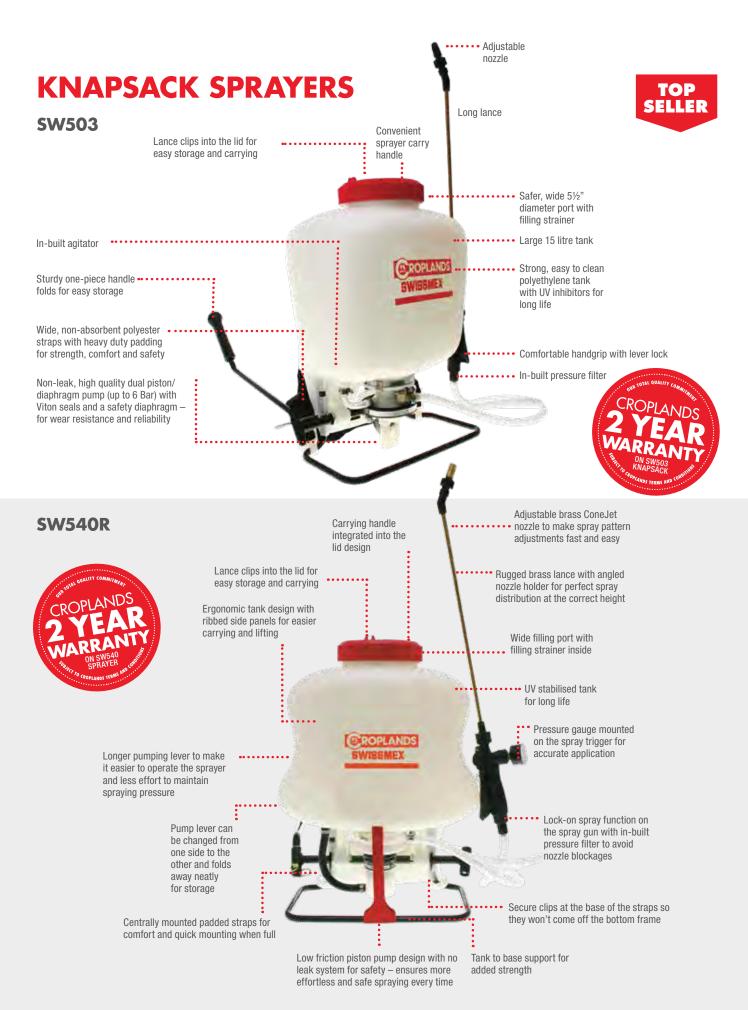
200 and 400 litre CropPaks – these flat-based 200/400 litre units are a great choice for a higher capacity utility sprayer. They will sit on a ute tray, RTV tray, tractor tray or trailer. The clever design includes cutaways in the tank to provide baffles to avoid sudden liquid movement – a must if being used on sloping country.



| FEATURE | BENEFIT |
|---------------------------------------|--|
| Metal lance with adjustable nozzle | Superior to plastic, higher strength. Many accessories available to fit the lance – page 38 and 39 |
| 2 Handy suction filter, easy access | Easy-clean filter screen. Simple and quick to access |
| 3 Lance clips onto lid | Ensures neat storage and avoids lance dragging on the ground |
| 3 Large filling lid | Helps prevent spillage when filling |
| 4 3-stage filtration | Large filling screen under lid; suction filter; pressure filter in lance handle |
| 5 Graduated, translucent tank | Easy to see liquid level in the tank with level marks |
| 5 Rugged design, locally made | Rotomolded tank has uniform thickness and can take high impact force |

| FEATURE | BENEFIT |
|-----------------------------------|--|
| 5 UV stabilised tank | Excellent UV resistance. Many imported models have no UV inhibitor in the material |
| 6 Carry handles | Ensures safe handling |
| 7 Baffled tank | Integrated baffles to avoid sudden liquid movement |
| 8 6 metre hose | 6 metres of high quality 20 Bar rated spray hose fitted |
| 9 Hose holders mounted on tank | To wrap hose around to avoid tangles and dragging hose |
| Heavy duty power cable | Long, heavy duty 12-volt power lead with rocker-switch for easy hook-up to your battery |
| Quick-clip power connection | High quality electrical connector to the pump with waterproof plug for quick hook up and reliability |

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. Cat. | ACCESSORIES PAGE REF |
|------------|--|--------------|---------------|---------------|-------------------------|
| US200 | 200 litre CropPak, on-demand 6.8 L/min open-flow pump, 6 metres of spray hose, spray lance and electrical power lead with on/off switch | 1,023.93 | 1,137.70 | Х | 38, 39 |
| US200/15 | 200 litre CropPak, on-demand 15 L/min open-flow pump, pressure regulator and gauge. 3-way valve enables connection to a boom. 6 metres of spray hose standard with spray lance. Power lead with on/off switch provided | 1,311.00 | 1,456.67 | Х | 38, 39 |
| US400/15 | (Not pictured) 400 litre CropPak, 12-volt 15 L/min Triplex pump with pressure adjusting regulator fitted, 6 metres hose and adjustable spray lance. Accessories available such as small booms | 1,813.40 | 2,014.89 | Х | 38, 39 |





AGRICULTURAL

INDUSTRIAL RANGE

SW189C

Heavy duty 15 litre knapsack designed for industrial use (diesel compatible); wide filling neck, rugged shut-off gun, adjustable nozzle, in-built pressure filter, brass lance. Lance clips into the handle for storage and transport. See page 38 for a full range of



SW319

High quality heavy duty 5 litre compression sprayer; wide filling neck, rugged shutoff gun, adjustable nozzle, pressure relief valve, in-built pressure filter, brass lance. Lance clips into the handle for storage and transport.

RANGE

See page 38 for a full range of accessories to suit.



SW322-315

accessories to suit.

High quality heavy duty 9 litre compression sprayer for use with selected solvents and diesel; wide filling neck, rugged shut-off gun, adjustable nozzle, pressure relief valve, in-built pressure filter, brass lance. Lance clips into the handle for storage and transport.

See page 38 for a full range of accessories to suit.

SW320

High quality heavy duty 7 litre compression sprayer; wide filling neck, rugged shut-off gun, adjustable nozzle, pressure relief valve, in-built pressure filter, brass lance. Lance clips into the handle for storage and transport.

See page 38 for a full range of accessories to suit.



PAKMAN (FITTED TO SPRAYER)

Chemical resistant foam back protector, designed to significantly increase comfort for prolonged spraying needs. Fits SW503 15 litre knapsack sprayers. A must for making spraying much more comfortable.



SW320-310

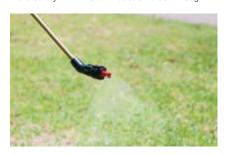
The Acid Sprayer resists hydrochloric muriatic and phosphoric acids. Ideal for staining and etching concrete, and dissolving of rust on metal surfaces.



AIRMIX® ANVIL TYPE AIR-INDUCTION FLAT FAN NOZZLE

Designed for use predominantly for knapsack sprayers, the TDAM-AN-04 nozzle has a spray pattern of approximately 120°, perfect for turf applications especially as it has the same Venturi air-induction system as the standard AirMix® flat fan nozzle range. Available in the ISO red size 04.

At around 500-550mm off the ground (standard height for most knapsack spray lances) the sprayed width is around 120cm - ideal for spraying turf or larger weed areas such as stockyards etc. Now you can spray much more safely with this air-induction breakthrough.



| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT |
|------------|--|--------------|---------------|-----------|
| SW319 | Compression sprayer 5 litre | 100.47 | 111.64 | Χ |
| SW320 | Compression sprayer 7 litre | 104.31 | 115.89 | Х |
| SW322-315 | Compression sprayer 9 litre – solvent model | 133.97 | 148.85 | Χ |
| SW503 | Knapsack 15 litre piston/diaphragm | 200.96 | 223.29 | Χ |
| SW540R | Knapsack 15 litre piston pump with safety chamber and gauge on lance | 215.32 | 239.24 | Х |
| SW189C | Knapsack sprayer 15 litre (diesel) | 207.65 | 230.73 | Х |
| PAKMAN | Back protector for SW503 | 71.77 | 79.74 | Χ |
| SW320-310 | Acid knapsack sprayer 7 litre | 104.31 | 115.89 | Χ |
| TDAM-AN-04 | AirMix® anvil type air-induction flat fan nozzle | 16.07 | 17.86 | Z |

CROPPAK AND SWISSMEX ACCESSORIES

Croplands spray lances, pictured below, are fitted to our range of CropPak sprayers, knapsack sprayers and compression sprayers. They can be used for a wide range of spraying applications up to 10 Bar pressure. See below for information on the great range of booms, spray guards, extensions and other accessories that fit these lances.

Learn more about spray lances, scan the QR code





| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|-----------------|---|--------------|---------------|------------|
| SW-LANCE-ASSY | Complete spray gun with brass lance, adjustable nozzle and hose connector fitted (in-built pressure filter) | 65.07 | 72.30 | Υ |
| SW-LANCE-ADJ-AS | Complete spray gun with extendable fibreglass lance, adjustable nozzle and hose connector fitted (in-built pressure filter) | 79.42 | 88.25 | Υ |

SPRAY BOOMS TO FIT THE LANCE ASSEMBLY



| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|--|--------------|---------------|------------|
| SW219-147C | 2-nozzle boom, narrow (pictured above right) | 21.05 | 23.39 | Υ |
| SW219-140C | 2-nozzle boom, 500mm (above) | 24.88 | 27.65 | Υ |
| SW219-148C | 2-nozzle boom, 750mm (above) | 28.71 | 31.89 | Υ |
| SW219-138C | 3-nozzle boom, 1,000mm (above) | 34.45 | 38.28 | Υ |
| SW219-151C | 3-nozzle boom, 1,500mm (above) | 48.80 | 54.22 | Υ |
| SW219-282C | 4-nozzle boom, 1,500mm (not pictured) | 64.11 | 71.23 | Υ |

EXTENSION LANCES AND NOZZLES









| | | | | _ |
|----|----|----|----|---|
| XR | 80 | 03 | -V | K |

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD CAT |
|------------|---|--------------|---------------|------------|
| ONDEN CODE | | \$ (LX. US1) | \$ (INC. 031) | FROD. GAI. |
| SW219-142C | 1,000mm spray lance extension to fit Swissmex trigger assembly, with nozzle | 22.97 | 25.52 | Υ |
| SW219-143C | 1,500mm spray lance extension to fit Swissmex trigger assembly, with nozzle | 28.71 | 31.89 | Υ |
| SW219-146C | 2,000mm spray lance extension to fit Swissmex trigger assembly, with nozzle | 35.41 | 39.35 | Υ |
| SW803-085 | Brass spray lance, 520mm (standard lance), nozzle not included | 28.71 | 31.89 | Υ |
| SW219-236C | Telescopic lance (to 940mm), with nozzle | 22.97 | 25.52 | Υ |
| SW803-262C | Plastic adjustable nozzle complete with cap and gasket | 6.69 | 7.44 | Υ |
| SW219-089C | Brass adjustable nozzle complete with cap and gasket | 25.84 | 28.71 | Y |
| XR8003-VK | 80° flat fan nozzle for use with spray guard or lance | 13.59 | 15.10 | Z |







DID YOU KNOW?

Did you know that Croplands range of CropPak sprayers use the Swissmex lance, so all the useful accessories on these two pages are suitable for use with the 12-volt CropPaks on page 34.

SPRAY GUARDS TO PROTECT SENSITIVE PLANTS. CONSTANT FLOW VALVE.



Learn more about spray guards, scan the QR code



SW219-099 SW219-117



SW219-852



Learn more about constant flow valves, scan the QR code

DID YOU KNOW?

Did you know by fitting a constant flow valve to your lance (left), you can reduce pumping by up to 30% and have constant pressure at the nozzle.

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| SW219-099 | Herbicide spray guard, 400mm, large (above left) | 12.44 | 13.82 | Υ |
| SW219-117 | Herbicide spray guard, 220mm, small (above centre) | 9.57 | 10.63 | Υ |
| SW219-852 | Constant flow valve, 1 Bar to 3 Bar pressure. *1 = 1 Bar, 2 = 1.5 Bar, 3 = 2 Bar, 4 = 3 Bar | 65.07 | 72.30 | Υ |

COMMON REPLACEMENT COMPONENTS AND KITS



Trigger, SW808-073C



Tail for trigger assembly, SW808-014



Elbow from tank, SW502-191



Tank lid, SW502-001C



Lid strainer, SW501-004



Lid seal, SW501-002



Diaphragm, SW503-031



Repair service kit, SWRPK120



Repair service kit, SWRPK503



Repair Service kit, SWRPK189

To make repairs to your Croplands Swissmex knapsack or compression sprayer, see the options below.

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|--|--------------|---------------|------------|
| SW808-073C | Complete trigger assembly (pictured above) | 22.01 | 24.46 | Υ |
| SWRPK120 | Repair/service kit for SW319 and SW320 (pictured above) | 22.78 | 25.31 | Υ |
| SWRPK189 | Repair/service kit for SW189 | 22.78 | 25.31 | Υ |
| SWRPK189C | Repair/service kit for SW189C | 34.16 | 37.96 | Υ |
| SWRPK503 | Repair/service kit for SW503 (diaphragm not included in kit – not pictured) | 22.78 | 25.31 | Υ |
| SW503-031 | Diaphragm to suit SW503 Knapsack (pictured above) | 11.48 | 12.76 | Υ |
| SW502-024C | Pump module for SW502 (not pictured) | 65.36 | 72.62 | Υ |
| SW502-191 | Elbow connector 90° – outlet to hose from tank (pictured above) | 11.67 | 12.97 | Υ |
| SW808-014 | Hose tail to fit $\frac{3}{8}$ " (10mm) hose – attached to back of trigger assembly (pictured above) | 3.25 | 3.61 | Y |
| SW502-001C | Red tank lid – suits all models (pictured above) | 19.42 | 21.58 | Y |
| SW501-002 | Lid seal (pictured above) | 19.91 | 22.12 | Υ |
| SW501-004 | Lid strainer (pictured above) | 11.58 | 12.87 | Υ |

apex

A range of handy sprayers for use in non-commercial situations. The compression sprayer range includes 1.5 litre, 5 litre and 10 litre models. The 15 litre model is a piston-type with shoulder straps and built in accumulator to hold pressure whilst in use.

The rechargeable and battery operated 12-volt units have additional features with the added benefit of not requiring manual pumping, allowing the operator to concentrate solely on the application at hand. Specifications and features are listed by each model.

COMPRESSION SPRAYERS



GRANULAR APPLICATOR



QUICK GUIDE

- » Clear lid to see what product is left
- » Adjustable application rate
- » Enclosed lubricated gearbox
- » Spreading width approximately up to 5 metres (depending on material being spread)



16 LITRE APEX BATTERY-POWERED KNAPSACK SPRAYER

QUICK GUIDE

- » Rechargeable 12-volt sealed lead/acid battery; voltmeter to see charge level at a glance
- Large battery gives longer spraying time – approximately 4 hours continuous use from full charge
- Large filling lid
- » 12-volt diaphragm pump for positive spraying pressure



30 LITRE APEX TROLLEY SPRAYER

QUICK GUIDE

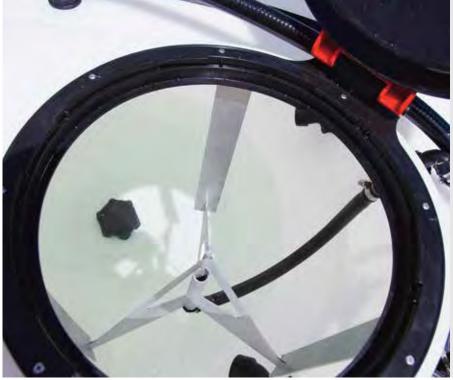
- » 3 L/min (open flow) 12-volt diaphragm pump powered by a large lead/acid rechargeable battery (charger included)
- » Large filling lid
- » Large drain for emptying and complete clean out
- » Spray lance with adjustable nozzle
- 10 metres of hose on handy rearmounted reel
- » Sturdy steel frame

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| ASBBS-16 | 16 litre 12-volt rechargeable knapsack sprayer | 200.00 | 222.22 | Χ |
| ASAT-30M3 | 30 litre trolley sprayer with 3 L/min pump (open-flow), 10 metre hose and reel | 526.32 | 584.80 | Χ |
| ASNS-1.5A | 1.5 litre hand-held compression sprayer. Suction strainer on the inlet tube. Nickel-coated nozzle for longer life. Excellent sealing for better compression and spraying quality | 11.43 | 12.70 | Х |
| ASFM-5A | 5 litre compression sprayer with lance. Pressure relief valve to avoid over-pressurisation and to relieve pressure prior to emptying. Trigger gun with 450mm lance and adjustable nozzle. 1.2 metre hose length. Lance is vertically stored. Positive pump action. Light weight (1.4kg empty). 100mm filling neck with splash-shield rim | 32.48 | 36.09 | Х |
| ASFM-10A | 10 litre compression sprayer with lance. Pressure relief valve to avoid over-pressurisation and to relieve pressure prior to emptying. Trigger gun with 450mm lance and adjustable nozzle. 1.2 metre hose length. Lance is vertically stored. Positive pump action. Light weight (1.8kg empty). 125mm filling neck with splash-shield rim | 37.27 | 41.42 | Х |
| ASGS-10 | 10 litre granular applicator. Granular applicator for spreading granulated formulations and fertilisers. Clear lid to see what product is left. Adjustable for application rate and direction. Fully enclosed and lubricated gearbox. Spreading width approximately up to 5 metres (depending on material being spread) | 91.86 | 102.07 | Х |



BATCH MASTER 1200 STAND ALONE BATCHING SYSTEM





Above: Stainless steel knife to puncture containers combined with rinsing function.

QUICK GUIDE

- » 1200 litre capacity
- 6.5HP Honda GX 200 powered
 3 inch Banjo pump, 1100 litres per minute open flow capacity for rapid mixing and filling
- » 3" (80mm) external filling port for fresh water
- » High-flow venturi for rapid liquid chemical induction from a shuttle source
- » Stainless steel knife inside tank lid for rapid container or bag puncture to speed up mixing
- » Huge mixing nozzles to completely mix contents quickly and efficiently
- » Large Banjo taps for easy control of mixing, filling and batching processes
- » Safe operating platform
- » Forklift points
- » Hot-dipped galvanised frame
- » Extra lid for overhead tank-filling if needed

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|--|--------------|---------------|------------|
| L-H9800 | Batch Master 1200 batching system complete | 9,368.42 | 10,409.36 | W |

CHEMICAL MIXING AND TRANSFER

30 LITRE CHEMICAL MIXER



30 LITRE QUICK GUIDE

- » Can handle liquids, powders and granulated products
- » Venturi suction system with integrated drain valve
- » Three venturi options to adapt to the pump type being used
- » Easy to understand tap controls for chemical mixing, mixer rinse and container cleaning system
- » Integrated lifting handle
- » Simple mounting system to ensure easy fit up to existing sprayers
- » Optional suction probe



See how to use Croplands Chemical Mixers, scan the QR code

60 LITRE CHEMICAL MIXER



60 LITRE QUICK GUIDE

- » Large access lid, fully sealed for safety
- » External and internal level markings
- » Dual filling and product agitation jets for rapid mixing
- » Container rinse nozzle capable of rinsing up to 20 litre containers
- » Mixer rinsing nozzle mounted directly under the lid for complete cleaning
- » Large taps for easy operation
- » Venturi with shut off valve
- » Sturdy handle and mount
- » Optional drop-down bracket available
- » Simple to follow guidelines using Croplands QR code
- » High flow capacity via large venturi

STAND ALONE 60 LITRE MIXER



STAND ALONE 60 LITRE QUICK GUIDE

- » Trolley mounted Croplands chemical mixer for stand-alone mixing operations
- » Same features as itemised at left unit without pump requires a pressurised water source to allow mixing, filling and venturi to operate correctly – the pump on the sprayer could be used
- » Unit with 240-volt pump best used where a water tank and power is available but no existing pressurised water source is available

*Pentair Venturi

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|--|--------------|---------------|------------|
| A5033301 | 30 litre chemical mixer and transfer hopper for use with smaller trailed sprayers, linkage sprayers and traymount units. Includes universal mount, 3-tap control bank, container rinse and venturi options to match to the pump size and type being used | 1,574.16 | 1,749.06 | Х |
| L-H9351A | Croplands 60 litre chemical mixer and transfer hopper for use with larger trailed sprayers, linkage sprayers and traymount units. Includes universal mount, taps for mixing, container rinse and system cleaning. Cleaning nozzle mounted directly under lid for complete clean out. Internal and external markings | 1,674.64 | 1,860.71 | Х |
| L-H9353B | Croplands 60 litre chemical mixer as described above on a handy trolley frame. Ideal for use at a chemical mixing station where an external pressurised water supply is available using an existing filling pump or similar | 2,535.88 | 2,817.65 | Х |
| L-H9353C | Croplands 60 litre chemical mixer as described above on a handy trolley frame with 240-volt centrifugal pump fitted. Ideal for use at a chemical mixing station where an external water tank is available along with mains power to power the pump | 3,631.58 | 4,035.09 | Х |
| L-H9355A | Optional spring-loaded drop down mount for Croplands 60 litre mixer model L-H9351A. Ideal where operator height is an issue | 1,066.99 | 1,185.54 | Х |



EASYFLOW

CLOSED TRANSFER SYSTEM FOR CROP PROTECTION PRODUCTS

The EasyFlow closed transfer system is designed as a fully closed system for introducing crop protection, herbicides or pest control products into a spray tank or chemical mixer in total safety.

A clever locking system prevents any chance of coming into contact with the product being introduced. The mounting system is simple to install.



SHUSF-1105

View the EasyFlow system in action, scan the QR code





QUICK GUIDE

- » Fully closed system for introducing chemicals to your spray tank or mixer
- » Kit includes components needed to install the system, instructions for installation and three chemical container adaptors
- » For use with containers up to 10 litres capacity with 63mm neck threads
- » Fully sealed for total safety
- » External fresh water source is needed for rinsing
- » Completely simple to install and use

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| AT16077 | EasyFlow tank adaptor kit – includes tank adaptor and 5 x container (jug) adaptors | 697.61 | 775.12 | W |
| AT16071 | Wedge plate kit (2 plates and seals) – allows for fitting the tank adaptor to angled surfaces | 18.18 | 20.20 | W |
| | · | | | |

MIXING JUGS









| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| L-H9001 | Croplands calibrated 1 litre measuring jug | 13.40 | 14.89 | Χ |
| L-H9003 | Croplands calibrated 3 litre measuring jug | 21.05 | 23.39 | X |
| L-H9005 | Croplands calibrated 5 litre measuring jug | 27.75 | 30.83 | Χ |
| L-H9025 | Croplands heavy duty 25 litre calibrated mixing bucket with pouring spout | 52.63 | 58.48 | X |

CHEMICAL TRANSFER



QUICK GUIDE

- » Easy and accurate chemical transfer is achieved with the AgRunner chemical transfer unit
- » Pump has nylon housing with Viton seals to ensure maximum performance for today's agricultural chemicals
- » A multiple pump-chamber design ensures long life and durability

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|----------------|---|--------------|---------------|------------|
| SHUSF-1105PTSI | The AgRunner portable mini bulk transfer system uses a 12-volt SHURflo chemical transfer pump for pumping liquid agricultural chemicals from bulk containers into chemical mixers or spray tanks. The unit has a handy carry frame to protect the pump unit, pump-mounted flow indicator, 6 metres of power cable, shut-off gun, 4 metres discharge hose, and a camlock inlet fitting with shut-off and 4 metres inlet hose | 2,100.47 | 2,333.86 | W |
| SHUSF-1105 | 12-volt SHURflo pump unit only, Viton valves, Santoprene diaphragms with internal bypass and 6 metre power cable. On/off switch on the pump. 29 L/min output at 15 psi pressure. Draws 14 amps | 1,104.39 | 1,227.10 | Х |
| SHUFM-1100I | Pump-mounted electronic flowmeter with LCD display and long-life lithium battery | 535.88 | 595.43 | W |
| L-H9562A | 3 pin Envirodrum male coupling | 597.13 | 663.47 | Χ |
| L-H9556 | 3 pin Envirodrum rinsing socket (must be connected to fresh water source) | 238.27 | 264.75 | Х |

L-H9556

CROPLANDS XT BOOM KIT

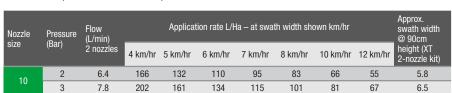
The Croplands XT boomless nozzle kit enables your spray application to be targeted into places a conventional boom may not reach. This kit delivers a uniform spray pattern over a distance of up to 6.5 metres (a wider swath may be possible if the kit is mounted higher than the 90cm as stated in the table below).

Ideal uses would be forestry – spraying under trees; farm tracks and undulating pasture land.

Other useful features and uses include:

- » Under trees in orchards
- » Golf courses and turf applications
- » Hedge rows and fencelines
- » Firebreaks
- » Large droplets for reduced drift risk and to assist with coverage on woody weeds
- » Spraying around obstacles where a conventional boom is not able to be used

Standard set up is with #10 nozzles as per the chart below*.





XT Boom Kit in action

*Disclaimer: all values are calculated application rates in L/ha based on the swath width in the far right column and assuming the pressure and flow can be achieved using the pump on your sprayer.

90cm height from the spray target is recommended using Croplands UA300B trailed sprayers but may vary depending on the sprayer being fitted to, the available mounting height, and the vehicle the XT kit is being fitted to.

If the height is adjusted upwards the application rate will be lower; if the kit is adjusted to spray wider than the table suggests, the application rate will be lower. The reverse will be true if the height and/or width is reduced.

XTNOZZLEKIT

Larger nozzle sizes are available on request. Ensure your pump has adequate flow to achieve the desired spray rate and sprayed width. For more information visit hypro.pentair.com and search on XT X Tender nozzles.

XT BOOMKIT

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|-------------|---|--------------|---------------|------------|
| XTBOOMKIT | Kit to mount Croplands XT boomless nozzle kit to your sprayer. Kit includes 2 x #10 XT nozzles on adjustable swivel nozzle bodies, steel bracket and 2 x clamps for mounting. Hose and fittings to your pump are not supplied | | 372.14 | X |
| XTNOZZLEKIT | XT boomless nozzle kit, includes 2 x #10 XT nozzles on adjustable swivel nozzle bodies, no bracket, clamps or hoses supplied | 286.13 | 317.92 | Х |

PRESSURE REGULATOR KIT



| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| UOPRK | Pressure regulator kit for use with most 12-volt pumps such as FloJet and SHURflo. Ideal for regulating pressure and flow when a small spray boom is being used | 107.18 | 119.09 | Х |

FOAM MARKER AND FOAM CONCENTRATE



| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|--|--------------|---------------|------------|
| A5200052 | Double-sided foam marker kit with in-cab switchbox for use on booms up to approximately 18 metres (depending on speed of travel) | 1,394.26 | 1,630.72 | Х |





All tanks are supplied with a lid and outlet. All prices are ex-store. Dimensions may change without notice.

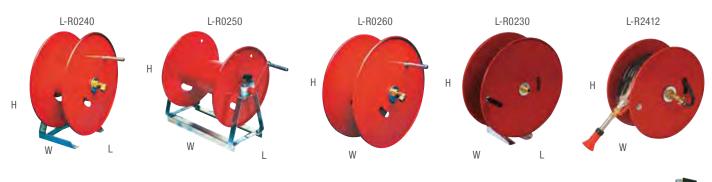
| | | | | DIMENSIONS (MN | N) | | | | | |
|------------|-------------|----------------|-------|----------------|-------|----------|--------------|--------------|---------------|------------|
| ORDER CODE | POSITION | LITRE CAPACITY | L | W | н | STRAINER | FREESTANDING | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
| P20 | (not shown) | 20 | 300 | 300 | 400 | No | No | 195.21 | 216.90 | Χ |
| P30B | Α | 30 | 625 | 300 | 333 | Yes | Yes | 240.19 | 266.88 | Χ |
| P50 | В | 50 | 450 | 410 | 400 | Yes | No | 221.05 | 245.61 | Х |
| P60B | С | 60 | 740 | 380 | 380 | Yes | Yes | 280.38 | 311.53 | Χ |
| P60L | D | 60 | 440 | 440 | 545 | No | Yes | 226.79 | 251.99 | Χ |
| P100L | E | 100 | 440 | 440 | 810 | No | Yes | 250.72 | 278.57 | Χ |
| P100 | F | 100 | 975 | 400 | 425 | Yes | Yes | 316.75 | 351.94 | Χ |
| P120 | G | 120 | 610 | 470 | 600 | Yes | No | 288.04 | 320.05 | Χ |
| P125L | Н | 125 | 440 | 440 | 960 | No | Yes | 291.86 | 324.29 | Χ |
| P200 | ı | 200 | 900 | 600 | 600 | Yes | No | 365.55 | 406.16 | Χ |
| P200B | J | 200 | 1,160 | 580 | 539 | Yes | Yes | 728.23 | 809.15 | Χ |
| P300 | K | 300 | 1,100 | 550 | 550 | Yes | No | 443.06 | 492.29 | Χ |
| P300B | L | 300 | 1,269 | 750 | 753 | Yes | No | 762.68 | 847.43 | Χ |
| P400 | M | 400 | 1,490 | 627 | 760 | Yes | Yes | 1,372.25 | 1,524.73 | Χ |
| P400C | N | 400 | 1,190 | 760 | 650 | Yes | No | 630.62 | 700.69 | Χ |
| P450 | 0 | 450 | 1,070 | 750 | 580 | Yes | No | 586.60 | 651.78 | Χ |
| P500C | Р | 500 | 1,190 | 760 | 825 | Yes | No | 688.04 | 764.49 | Χ |
| P500 | Q | 500 | 1,200 | 600 | 1,100 | Yes | No | 712.92 | 792.13 | Χ |
| P700 | (not shown) | 700 | 1,350 | 640 | 1,200 | Yes | No | 839.23 | 932.48 | Χ |
| P800 | R | 800 | 1,740 | 1,000 | 770 | Yes | Yes | 2,333.01 | 2,592.23 | Χ |
| P1000L | S | 1,000 | 1,350 | 800 | 1,500 | Yes | No | 1,466.03 | 1,628.92 | Χ |
| P1100A | Т | 1,100 | 1,400 | 1,279 | 890 | Yes | Yes | 1,629.66 | 1,810.74 | Χ |
| P1500A | U | 1,500 | 1,400 | 1,430 | 1,150 | Yes | No | 2,104.31 | 2,338.12 | Χ |
| P2000 | ٧ | 2,000 | 2,200 | 1,300 | 1,030 | Yes | No | 1,986.60 | 2,207.33 | Χ |
| P3000 | W | 3,000 | 2,200 | 1,300 | 1,300 | Yes | No | 2,871.77 | 3,190.85 | Χ |
| P4000A | Х | 4,000 | 2,200 | 1,300 | 1,670 | Yes | No | 3,366.51 | 3,740.56 | Χ |

Dimensions may vary from tank to tank.

HOSE REELS

Croplands range of manual hose reels include nine models listed below that are made of steel. A steel reel, complete with high quality fittings, that will last years and is a good investment for that reason. The steel on the reel itself is sand-blasted and powder coated for high corrosion resistance. A galvanised base on the larger basemount models is heavy duty and hot dip zinc plated. The smaller L-R0150 reel has a clever swivel-base design and locking pin.

All Croplands spray hoses are specifically made for Croplands – the pressure hose in particular has added longitudinal nylon fibres to ensure the hose will not stretch, along with added nitrile compound internally so it will not break down and de-laminate like cheaper hoses often do. Being black in colour our hose resists sun damage for many years longer than coloured hose.



| UNIT | WIDTH | LENGTH | HEIGHT | WEIGHT |
|---------|-------|--------|--------|--------|
| L-R3000 | 220mm | - | 490mm | - |
| L-R0240 | 270mm | 450mm | 560mm | - |

Disclaimer: Dimensional and weight information supplied is for base model only with no options. This information is subject to change without notice

| UNIT | WIDTH | LENGTH | HEIGHT | WEIGHT |
|---------|-------|--------|--------|--------|
| L-R0250 | 540mm | 450mm | 510mm | _ |
| L-R0260 | 200mm | - | 450mm | _ |
| L-R0230 | 270mm | 580mm | 630mm | - |
| L-R2412 | 270mm | 450mm | 560mm | _ |



*All bare capacities are for 10mm spray hose. L=length, W=width, H=height; dimensions may change without notice and do not include side-bracket on side-mount reels.

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|--|--------------|---------------|------------|
| L-R0240 | Base mount model, 50 metre capacity* (bare reel) | 516.75 | 574.16 | Χ |
| L-R1412 | Base mount model comes with 30 metres of 10mm spray hose and Turbo400 spray gun | 716.75 | 796.39 | Χ |
| L-R0260 | Side-mount (with bracket), 50 metre capacity* (bare reel) | 381.82 | 424.25 | Χ |
| L-R2412 | Side-mount (with bracket), comes with 30 metres of 10mm spray hose and Turbo400 spray gun | 621.05 | 690.06 | Χ |
| L-R2412HP | Replacement reel for US500/30/HR30TG high pressure (40 Bar) | 764.58 | 764.58 | Χ |
| L-R0250 | Large base mount model, 100 metre capacity* (bare reel) | 947.37 | 1,052.63 | Χ |
| L-R0230 | Slim-line steel hose reel, galvanised base mount model, 100 metre capacity* (bare reel) | 573.21 | 636.90 | Χ |
| L-R3000 | High-impact poly reel, spring retractable; 15 metres of 10mm spray hose and threaded end-fitting (no gun fitted) | 362.68 | 402.98 | Х |

Pressure gai

Glycerine-filled gauges in 63mm and 100mm sizes.









L-G1432

L-G1426

A908006

| ORDER CODE | DESCRIPTION | MAX PRESS BAR | MAX PRESS KPA | MAX PRESS PSI | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|--|------------------|------------------|------------------|--------------|---------------|------------|
| A908006 | Pressure gauge, 40mm, 0-600 kPa | 6 | 600 | 90 | 30.62 | 34.02 | Υ |
| L-G1426 | Isometric pressure gauge, 63mm, 1/4" bottom-entry | 25 | 2,500 | 360 | 37.32 | 41.46 | Υ |
| L-G1425 | Pressure gauge, 63mm, 1/4" bottom-entry | 25 | 2,500 | 360 | 32.54 | 36.15 | Υ |
| L-G1430 | Pressure gauge, 63mm, 1/4" bottom-entry | 40 | 4,000 | 580 | 32.54 | 36.15 | Υ |
| L-G1432 | Pressure gauge, 63mm, 1/4" bottom-entry | 60 | 6,000 | 870 | 32.54 | 36.15 | Υ |
| L-G1602 | Pressure gauge, 100mm, 1/4" bottom-entry | 25 | 2,500 | 360 | 84.21 | 93.57 | Υ |
| L-G1611 | Pressure gauge, 100mm, 3/8" bottom-entry | 16 | 1,600 | 230 | 84.21 | 93.57 | Υ |
| L-G1612 | Pressure gauge, 100mm, 3/8" bottom-entry | 25 | 2,500 | 360 | 84.21 | 93.57 | Υ |
| L-G1660 | Pressure gauge, 100mm, 3/8" bottom-entry | 60 | 6,000 | 870 | 99.53 | 110.58 | Υ |
| L-G1626 | Isometric pressure gauge, 100mm, 3/8" bottom-entry | 25 | 2,500 | 360 | 92.82 | 103.13 | Υ |





SPRAY GUNS AND LANCES

| ORDER CODE | # | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|-----------------|----|---|--------------|---------------|------------|
| SW-LANCE-ASSY | 1 | Swissmex gun and lance | 65.07 | 72.30 | Υ |
| SW-LANCE-ADJ-AS | 2 | Swissmex gun and extendable lance | 79.42 | 88.25 | Υ |
| RL10 | 3 | RL10 gun with 500mm steel lance, adjustable nozzle | 86.13 | 95.70 | Υ |
| AA30L-PP | 4 | TeeJet GunJet poly spray gun, 10 Bar (150 psi) | 111.96 | 124.40 | V |
| AA30L-1/4 | 5 | TeeJet GunJet drip-free spray gun, 17 Bar (250 psi) | 136.84 | 152.05 | V |
| AA31 | 6 | TeeJet forged brass trigger gun, 35 Bar (500 psi) | 159.81 | 177.57 | V |
| AA43HA-8 | 7 | TeeJet heavy duty high pressure gun, 55 Bar (800 psi) | 332.05 | 368.95 | V |
| AA43LA-8 | 8 | TeeJet heavy duty medium pressure gun, 14 Bar (200 psi) | 332.05 | 368.95 | V |
| B26.901.165MK2 | 9 | Turbo400 with metal grip and protected lever, 50 Bar (725 psi) | 181.82 | 202.02 | Υ |
| B46.901.46RG | 10 | Turbo400RG gun with ergonomic grip and positive-notch droplet selection, 40 Bar (580 psi) | 222.01 | 246.68 | Υ |
| B7.901.10 | 11 | Evolution turbine gun, 60 Bar (850 psi) | 320.58 | 356.20 | Υ |
| B35.901.16 | 12 | Spot spray gun, pistol type, 40 Bar (580 psi) | 129.19 | 143.54 | Υ |

HOSES

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| HCVT20 | Hose 20mm vinyl clear | 5.17 | 5.74 | Υ |
| HSC20 | Clear wire spiral hose, 20mm | 13.40 | 14.89 | Υ |
| HEP25 | Hose 25mm suction (black) | 9.57 | 10.63 | Υ |
| HEP32 | Hose 32mm suction (black) | 14.36 | 15.95 | Υ |
| HEP40 | Hose 40mm suction (black) | 14.36 | 15.95 | Υ |
| HPW10 | Hose 10mm 20 Bar for pesticide and herbicide | 3.25 | 3.61 | Υ |
| HPW10/40 | Hose 10mm 40 Bar for pesticide and herbicide | 8.42 | 9.36 | Υ |
| HPW10-30 | Hose 10mm 20 Bar for pesticide and herbicide (30 metres) | 94.74 | 105.26 | Υ |
| HPW10-100 | Hose 10mm 20 Bar for pesticide and herbicide (100 metres) | 320.58 | 356.20 | Υ |
| HPW12 | Hose 12mm 20 Bar for pesticide and herbicide | 3.83 | 4.26 | Υ |
| HPW12/40 | Hose 12mm 40 Bar for pesticide and herbicide | 9.57 | 10.63 | Υ |
| HPW12-30 | Hose 12mm 20 Bar for pesticide and herbicide (30 metres) | 113.87 | 126.53 | Υ |
| HPW12-100 | Hose 12mm 20 Bar for pesticide and herbicide (100 metres) | 381.82 | 424.25 | Υ |
| HPW20 | Hose 20mm 20 Bar for pesticide and herbicide | 11.48 | 12.76 | Υ |
| HPW20-50 | Hose 20mm 20 Bar for pesticide and herbicide (50 metres) | 591.39 | 657.10 | Υ |
| HPW25 | Hose 25mm 20 Bar for pesticide and herbicide | 14.36 | 15.95 | Υ |
| HPW32 | Hose 32mm 20 Bar for pesticide and herbicide | 22.97 | 25.52 | Υ |



CLAMPS

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|---------------|---------------------------------------|--------------|---------------|------------|
| COBRAC13/8 | Cobra clamp for 8mm hose | 1.34 | 1.49 | Z |
| COBRAC15/8 | Cobra clamp for 10mm hose | 1.34 | 1.49 | Z |
| COBRAC18-19/8 | Cobra clamp for 12mm hose | 1.43 | 1.59 | Z |
| COBRAC24/8 | Cobra clamp for 20mm hose | 1.53 | 1.70 | Z |
| TR38HC | Hose clamp 10mm steel band worm drive | 2.68 | 2.98 | Z |
| TR12HC | Hose clamp 12mm steel band worm drive | 2.97 | 3.30 | Z |
| TR34HC | Hose clamp 20mm steel band worm drive | 3.83 | 4.26 | Z |
| TR1HC | Hose clamp 25mm steel band worm drive | 2.87 | 3.19 | Z |
| TR114HC | Hose clamp 32mm steel band worm drive | 4.02 | 4.47 | Z |
| TR112HC | Hose clamp 40mm steel band worm drive | 4.31 | 4.78 | Z |
| TR2HC | Hose clamp 50mm steel band worm drive | 4.68 | 5.20 | Z |
| TR3HC | Hose clamp 75mm steel band worm drive | 4.88 | 5.43 | Z |
| | | | | |



FIREFIGHTERS

DID YOU KNOW?

All Croplands firefighters are powered by genuine Honda motors. The Honda motor uses an advanced electronic ignition with automatic compression release providing effortless starts in all weather and conditions.







SHUB55H firefighter pump

BT1500/FF2 – heavy duty 1500 litre trailed firefighter on galvanised chassis – hook up and go at a moment's notice when the need arises

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| SHUMB25LK | MiniBlaze firefighter kit, 2.5HP petrol motor. Quick fill priming port, 1" discharge, 5 metres of 20mm hose with nozzle, 2.5 metres suction hose with filter. Tool kit supplied. Flow rate 50–150 L/min | 626.18 | 695.75 | Χ |
| SHUB55H | Honda GX160-powered Onga firefighter pump. Industrial grade nylon impeller, alloy housing, 3-way discharge outlets and carry handle. 1 ½" priming port. Flow range 100–500 L/min in the 2–5 Bar pressure range. Price is for pump only | 955.98 | 1,062.20 | W |
| US500/FF1 | Traymount 500 litre firefighter. Galvanised frame, SHUB55H pump, heavy duty steel hose reel with 30 metres of 20mm delivery hose, adjustable nozzle and 3 metre suction kit with filter | 3,826.79 | 4,251.99 | W |
| BT1100/FF | Trailed 1100 litre firefighter with sprung axle, galvanised chassis, eye-hitch, ag-tyres, SHUB55H pump, heavy duty steel hose reel with 30 metres of 20mm delivery hose, adjustable nozzle and 3 metre suction kit with filter. Ideal for farm use (not pictured) | 6,578.95 | 6,925.21 | W |
| BT1500/FF | Trailed 1500 litre firefighter with sprung axle, galvanised chassis, eye-hitch, ag-tyres, SHUB55H pump, heavy duty steel hose reel with 30 metres of 20mm delivery hose, adjustable nozzle and 3 metre suction kit with filter. Ideal for farm use (not pictured) | 6,842.11 | 7,202.22 | W |
| BT1500/FF2 | Pro-series trailed 1500 litre firefighter with sprung axle, galvanised chassis with mudguards, tow-hitch, brakes, lights, Land Cruiser wheels, SHUB55H pump, heavy duty steel hose reel with 30 metres of 20mm delivery hose, adjustable nozzle and 3 metre suction kit with filter | 10,717.71 | 11,908.56 | W |

Please note: trailed firefighters are not legal for road use.





DECK MOUNT TURF SPRAYERS



QUICK GUIDE

- » 400 and 600 litre capacities
- » AR115 PTO drive pump supplied with 6-spine shaft (other drive options available)
- » 15 litre handwash tank
- » Adjustable de-mount legs
- » 6, 8 or 10 metre hydraulic fold GEX series booms as options
- » Standard with one double-acting hydraulic service with manual divertor to select left/right and simultaneous fold – requires a set of hydraulic ports – more options available including electric control
- » Electric or fully auto spray-rate control options
- » Available by indent only talk to your Croplands Territory Manager

ENVIROSAFE COVERED BOOMS



QUICK GUIDE

- » 4.5 or 5.5 metre EnviroSafe fully covered booms to suit linkage, deck-mount or trailed sprayers
- » Manual or hydraulic fold options
- » Forward tilt ram supplied standard to allow boom to be inclined forwards to access nozzles and for parking
- » Pivoting wheels to allow boom to follow ground contours and stay at the perfect spraying height
- » Available by indent only talk to your Croplands Territory Manager

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| DECKMOUNT | 400 or 600 litre deck mount sprayers for a range of turf vehicles such as Kubota, Toro Diesel, Jacobsen, Cushman and John Deere. A wide range of options available for indenting the right machine for your requirements. Contact Croplands for further information | POA | POA | W |
| ENVIROSAFE | 4.5 or 5.5 metre EnviroSafe booms with various options for boom control, nozzle selection and to fit linkage or turf vehicles. Contact Croplands for further information | POA | POA | W |

LOW PRESSURE DIAPHRAGM PUMPS

POLY PUMP RANGE FOR A WIDER RANGE OF APPLICATIONS

Annovi Reverberi (AR) has developed a new range of diaphragm pumps to suit the changing demands of agriculture. The heads and manifolds of this new range are made from reinforced polypropylene or nylon to allow use with a wider range of products including liquid fertilisers.

For information on controllers to suit our pumps, refer to page 55.



AR330LFP





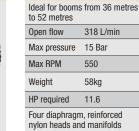
AR80LFP

Ideal for booms up to 12 metres 76 L/min Open flow Max pressure 20 Bar Max RPM 550 Weight HP required Triple diaphragm, reinforced poly heads and manifolds











Available with CF32

AR410LFP

to 52 metres

Open flow

Max RPM

HP required

heads and manifolds

Available with CF32

Weight

Max pressure

AR140LFP

Available with C

Ideal for booms up to 18 metres Open flow 132 L/min Max pressure 15 Bar Max RPM 550 Weight 16kg HP required 5.2 Triple diaphragm, reinforced nylon heads and manifolds





Ideal for booms from 28 metres to 36 metres Open flow 242 L/min

Max pressure 15 Bar Max RPM 550 Weight 45kg HP required 9 Triple diaphragm, reinforced nylon heads and manifolds





Available with CF32

AR160LFP

Ideal for booms up to

Available with CF25

Available with C

| Z1-Z4 metres | | | | |
|--|-----------|--|--|--|
| Open flow | 166 L/min | | | |
| Max pressure | 15 Bar | | | |
| Max RPM | 550 | | | |
| Weight | 25kg | | | |
| HP required | 6.8 | | | |
| Four diaphragm, reinforced nylon heads and manifolds | | | | |



For more information on hydraulic motors and kits to suit CF25/32 models contact Croplands.



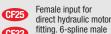
Ideal for booms up to 36 metres

| Open flow | 273 L/min | | | | | |
|--|-----------|--|--|--|--|--|
| Max pressure | 15 Bar | | | | | |
| Max RPM | 550 | | | | | |
| Weight | 45kg | | | | | |
| HP required | 10.7 | | | | | |
| Triple diaphragm, reinforced nylon heads and manifolds | | | | | | |
| | | | | | | |



Cardan shaft - pump is fitted with a 1 3/8" male 6-spline shaft





Female input for

shaft on one side

401 L/min

15 Bar

75.5kg

149



Note: All flow information is at zero pressure, open flow

| MODEL | | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|---------------|---|--------------|---------------|------------|
| AR80LFP C | AR80 LFP series triple diaphragm polypropylene pump with 6-spline male shaft | 1,035.41 | 1,150.46 | Υ |
| AR140LFP C | AR140 LFP series triple diaphragm reinforced nylon pump with 6-spline male shaft | 1,651.67 | 1,835.19 | Υ |
| AR160LFP CF25 | AR160 LFP series four diaphragm reinforced nylon pump with 6-spline male shaft one side, 25mm keyed female input on the other | 2,396.17 | 2,662.41 | Υ |
| AR185LFP CF25 | AR185 LFP series four diaphragm reinforced nylon pump with 6-spline male shaft one side, 25mm keyed female input on the other | 2,649.76 | 2,944.18 | Υ |
| AR245LFP CF32 | AR245 LFP series triple diaphragm reinforced nylon pump with 6-spline male shaft one side, 32mm keyed female input on the other | 2,917.71 | 3,241.89 | Υ |
| AR275LFP CF32 | AR275 LFP series triple diaphragm reinforced nylon pump with 6-spline male shaft one side, 32mm keyed female input on the other | 3,608.61 | 4,009.57 | Υ |
| AR330LFP CF32 | AR330 LFP series four diaphragm reinforced nylon pump with 6-spline male shaft one side, 32mm keyed female input on the other | 4,311.00 | 4,790.00 | Υ |
| AR410LFP CF32 | AR410 LFP series six diaphragm reinforced nylon pump with 6-spline male shaft one side, 32mm keyed female input on the other | 6,378.95 | 7,087.72 | Υ |



LOW PRESSURE DIAPHRAGM PUMPS

ALLOY PUMPS WITH ANODISED OR COATED HEADS AND MANIFOLDS

The Annovi Reverberi (AR) range of diaphragm pumps have been industry leaders for more than 60 years. Croplands have been fitting AR pumps to their entire sprayer range for 40 years, and supplying farmers and growers with these high quality pumps for the same duration. Rugged, reliable and robust, an AR pump will give years of good service if looked after and maintained.







| Open flow | 25 L/min | |
|-----------------|---------------|----------|
| Max pressure | 25 Bar | A Silver |
| Max RPM | 650 | |
| Weight | 4kg | |
| HP required | 1.45 | |
| Twin diaphragi | n pump | |
| Ideal for small | boom sprayers | |
| Available with | C T SP CRGI | |
| | | |

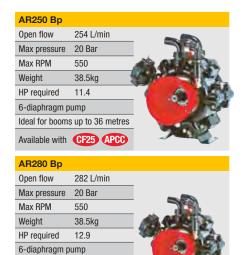
| AR70 Bp | | |
|-----------------|-------------------|--|
| Open flow | 72 L/min | |
| Max pressure | 20 Bar | |
| Max RPM | 550 | |
| Weight | 11.8kg | |
| HP required | 3.4 | |
| Twin diaphragn | n pump | |
| Ideal for booms | s up to 12 metres | |
| Available with | C T SP CR | |

| AR115 Bp | | |
|-----------------|-------------------|--------------------------|
| Open flow | 114 L/min | |
| Max pressure | 20 Bar | **** |
| Max RPM | 550 | P. Tanasa and P. Company |
| Weight | 15.5kg | |
| HP required | 5.5 | |
| Triple diaphrag | m pump | |
| Ideal for booms | s up to 15 metres | 96 |
| Available with | C | |
| AR135 Bp | | |
| Open flow | 132 L/min | |
| Max pressure | 20 Bar | |
| Max RPM | 550 | 1000 |
| Weight | 15.5kg | |
| HP required | 6.8 | |
| Triple diaphrag | m numn | |

Ideal for booms up to 18 metres

SP CR

Available with



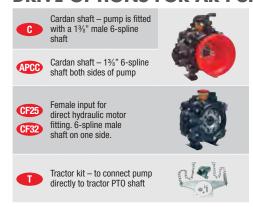
CF25 Note: All flow information is at zero pressure, open flow

Ideal for booms to 36 metres

or more Available with

| MODEL | (| | C | | CR | | (S | | • | | | 25 CF32 | PROD. CAT. |
|-------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|----------------|
| | \$ (EX. GST) | \$ (INC. GST) | 07 till |
| AR252 | 721.52 | 801.69 | | | 1,152.15 | 1,280.17 | 645.93 | 717.70 | 938.75 | 1,043.06 | | | Υ |
| AR70 | 1,035.41 | 1,150.45 | 1,572.25 | 1,746.94 | | | 983.73 | 1,093.04 | 1,256.46 | 1,396.07 | | | Υ |
| AR115 | 1,427.74 | 1,586.38 | | | | | | | | | | | Υ |
| AR135 | 1,470.81 | 1,634.23 | 2,041.14 | 2,267.94 | | | 1,505.26 | 1,672.51 | 1,777.99 | 1,975.54 | | | Υ |
| AR250 | | | | | | | | | | | 2,996.16 | 3,329.07 | Υ |
| AR280 | | | | | | | | | | | 3,225.84 | 3,584.26 | Υ |

DRIVE OPTIONS FOR AR PUMPS





For petrol and electric drive models, see following pages along with spare parts information.



For common parts such as diaphragms, valves, o-rings and repair kits visit croplands.com.au and access the Croplands OPTIMA Components Guide.

MEDIUM AND HIGH PRESSURE DIAPHRAGM PUMPS

AR medium pressure pumps are rated up to 40 Bar pressure. This range is ideal for hand gun spraying where flow and pressure are important – particularly for spraying brush weeds. The high pressure pumps are typically used for Airblast sprayers in tree crops. The brass models are particularly good at resisting copper compounds.

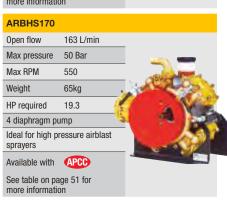
For information on controllers to suit our pumps, refer to page 55.





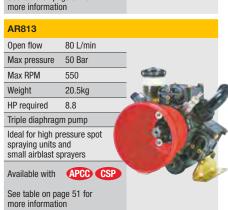
AR303 Open flow 35 L/min Max pressure 40 Bar Max RPM 550 Weight 9kg HP required 3 Triple diaphragm pump Ideal for spot spraying units Available with C CR See table on page 51 for more information

| Available Willi | U Un | |
|--------------------------------------|--------------------|---------------------|
| See table on parmore information | | |
| AR503 | | |
| Open flow | 54 L/min | |
| Max pressure | 40 Bar | |
| Max RPM | 550 | _ |
| Weight | 11.5kg | |
| HP required | 5.6 | |
| Triple diaphragr | n pump | |
| Ideal for spot sp | raying units | 61 B3 B |
| Available with | C T SP CR CRGI CSP | grant of the second |
| See table on par more information | | |



Note: All flow information is at zero pressure, open flow.

| AR30 | | |
|------------------|---------------|----------|
| Open flow | 35 L/min | |
| Max pressure | 40 Bar | |
| Max RPM | 550 | |
| Weight | 9.3kg | F THE P. |
| HP required | 2.9 | d 2 - 17 |
| Twin diaphragn | n pump | 100 |
| Ideal for spot s | praying units | () () |
| Available with | C T SP CRGI | |
| See table on pa | age 51 for | |





| AR40 | | |
|-------------------|--------------|---------|
| Open flow | 46.3 L/min | |
| Max pressure | 40 Bar | |
| Max RPM | 550 | |
| Weight | 9.5kg | F The P |
| HP required | 3.5 | da = 7 |
| Twin diaphragm | pump | 200 |
| Ideal for spot sp | raying units | |
| Available with | CRGI | |
| See table on page | | |
| | | |

| AR1064 | | |
|---|-----------|-------|
| Open flow | 105 L/min | |
| Max pressure | 50 Bar | |
| Max RPM | 550 | |
| Weight | 23.5kg | TINK) |
| HP required | 13.1 | |
| 4 diaphragm pu | ımp | A |
| Ideal for high prospraying units a small airblast s | and . | |
| Available with | APCC | |
| See table on pa | | |

| | See table on pa more information | | | | | |
|-----|-------------------------------------|-----------|---------|-----|---|---|
| | AR1604 | | | | | |
| | Open flow | 153 L/min | | | | |
| | Max pressure | 50 Bar | d | | | |
| | Max RPM | 550 | 8 | | | |
| | Weight | 40kg | 016 | - 2 | | |
| • | HP required | 18 | | | | Þ |
| la. | 4 diaphragm pu | ımp | - 20 | • | | - |
| | Ideal for high prairblast sprayer | | • | V | | |
| | Available with | APCC | <u></u> | | 2 | • |
| | See table on pa more information | | | | | |

| MODEL | | | • | R | C | RGI | S | P | | | CSP A | APCC APCC | PROD. |
|----------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|-------------|-----------------|-------|
| MODEL | \$ (EX. GST) | \$ (INC. GST) | \$ (EX. GST |) \$ (INC. GST) | CAT. |
| AR30 | 995.21 | 1,105.78 | | | 1,531.10 | 1,701.22 | 916.74 | 1,018.60 | 1,220.09 | 1,355.66 | | | Υ |
| AR40 | | | | | 1,599.00 | 1,776.66 | | | | | | | Y |
| AR303 | 974.15 | 1,082.39 | 1,409.56 | 1,566.18 | | | | | | | | | Y |
| AR503 | | | 1,835.41 | 2,039.34 | 1,952.15 | 2,169.06 | 1,110.05 | 1,233.39 | 1,413.40 | 1,570.44 | 1,279.42 | 1,421.57 | Y |
| AR813 | | | | | | | | | | | 1,669.85 | 1,855.39 | Y |
| AR1064 | | | | | | | | | | | 1,887.08 | 2,096.76 | Υ |
| AR1604 | | | | | | | | | | | 2,746.41 | 3,051.56 | Υ |
| ARBHS170 | | | | | | | | | | | 4,466.98 | 4,963.32 | Υ |
| ARBHS200 | | | | | | | | | | | 4,585.64 | 5,095.15 | Υ |



more information

AR MOTORISED POSITIVE DISPLACEMENT PUMPS

Croplands have a great range of petrol and electric drive pumps for spraying and semi-industrial applications. Powered by genuine Honda engines, the petrol powered models are bullet proof and will run day in, day out. A full range of spare parts are available for our range, and Honda dealers throughout New Zealand and Australia can supply engine parts and service when needed.



HONDA



AR252-EM



AR252-4H

To petrol drive larger AR pumps, please contact Croplands for options and pricing. Note, to fit electric start on the AR petrol-driven motorised pumps on this page, please add the following code and price to your order.

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|------------------------|--------------|---------------|------------|
| AR-ES | Electric start kit for | 668.90 | 743.20 | Х |

AR252 dual diaphragm pump fitted with gearbox, genuine Honda motor and ARGR30 pressure regulator AR252-4H Ideal for smaller hand-gun or boom spraying applications and on small trailed and RTV sprayers

» Maximum pressure 25 Bar, open-flow 25 L/min

» AR252 pump with single-phase electric motor and ARGR30 pressure regulator

» Very popular positive displacement pump for use in agriculture for fertiliser injection systems

» Maximum pressure 25 Bar, open-flow 25 L/min

AR252-EM

AR30-EM

AR30-ET

AR30-5H

AR303-6H

AR40-6H

AR135-6H

AR30 with single-phase electric motor and ARGI40 pressure regulator
 A larger positive displacement pump for use with fertiliser or chemical injection and industrial applications

» Maximum pressure 40 Bar, open-flow 32 L/min

» The ET version of the AR30 with 3-phase motor fitted has the same specifications as the EM model

» Available for indent only for agricultural or industrial applications

» Maximum pressure 40 Bar, open-flow 32 L/min

» AR30 dual diaphragm pump with gearbox, genuine Honda motor and ARGI40 pressure regulator

 $\ensuremath{\text{"}}$ Ideal for gun spraying in glasshouses, nurseries and on utility-mounted sprayers units

» Very reliable for higher pressure applications where hand-guns are used

» Maximum pressure 40 Bar, open-flow 32 L/min

 AR303 triple diaphragm pump with gearbox, genuine Honda motor and ARGI40 pressure regulator
 Ideal for gun spraying in glasshouses, nurseries and on utility-mounted

sprayers units

» Smooth running for higher pressure applications where hand-guns are used

» Maximum pressure 40 Bar, open-flow 35 L/min

 AR40 dual diaphragm pump with gearbox, genuine honda motor and ARGI40 pressure regulator
 Ideal for gun spraying in glasshouses, nurseries and on utility-mounted

 Ideal for gun spraying in glasshouses, nurseries and on utility-mounted sprayer units

» Very reliable for higher pressure applications where hand guns are used

» Maximum pressure 40 bar, open flow 46.3L/min

 AR70 dual diaphragm pump with gearbox, genuine Honda motor and ARECM-2 pressure regulator
 Suited to boom spraying applications where spraying pressure require.

AR70-5H» Suited to boom spraying applications where spraying pressure required is under 10 Bar

» Can also be used in spot spraying applications

» Maximum pressure 20 Bar, open-flow 72 L/min

» AR135 triple diaphragm pump with gearbox, genuine Honda motor and ARECM-2 pressure regulator

» Suited to boom spraying applications where spraying pressure required is under 10 Bar

» Ideal for booms up to around 18 metres in width mounted on utes or vehicles

Maximum pressure 20 Bar, open-flow 132 L/min

PETROL AND ELECTRIC DRIVE MODEL

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|--|--------------|---------------|------------|
| AR252-4H | AR252 pump powered by Honda GX200QX Engine, rated at 4.1 kW. Pressure Regulator supplied and fitted to the pump | 2,049.76 | 2,277.51 | Χ |
| AR252-EM | AR252 pump powered by single phase electric motor. Installation required by a registered electrician. Pressure regulator supplied and fitted to the pump | 1,410.53 | 1,567.25 | Х |
| AR30-EM | AR30 pump powered by single phase electric motor. Installation required by a registered electrician. Pressure regulator supplied and fitted to the pump | 2,736.84 | 3,040.94 | Х |
| AR30-ET | AR30 pump powered by three-phase electric motor. Installation required by a registered electrician. Pressure regulator supplied and fitted to the pump | 2,531.11 | 2,812.34 | Х |
| AR30-5H | AR30 pump powered by Honda GX200QX Engine, rated at 4.1 kW. Pressure regulator supplied and fitted to the pump | 2,592.35 | 2,880.39 | Х |
| AR40-6H | AR40 pump powered by Honda GX200QX Engine, rated at 4.1 kW. Pressure regulator supplied and fitted to the pump | 2,690.00 | 2,988.88 | Χ |
| AR303-6H | AR303 pump powered by Honda GX200QX Engine, rated at 4.1 kW. Pressure regulator supplied and fitted to the pump | 2,262.20 | 2,513.56 | Χ |
| AR70-5H | AR70 pump powered by Honda GX200QX Engine, rated at 4.1 kW. Pressure regulator supplied and fitted to the pump | 3,033.49 | 3,370.55 | Χ |
| AR115-5H | AR115 pump powered by Honda GX200QX Engine, rated at 4.1 kW. Pressure regulator supplied and fitted to the pump | 3,469.85 | 3,855.39 | Χ |
| AR135-6.5H | AR135 pump powered by Honda GX200QX Engine, rated at 4.1 kW. Pressure regulator supplied and fitted to the pump | 3,469.85 | 3,855.39 | X |
| | | | | |

PARTS AND ACCESSORIES

DIAPHRAGMS

| ORDER CODE | DIAPHRAGMS FOR PUMP MODELS | MATERIAL | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|--|----------|--------------|---------------|------------|
| AR1040083 | AR80LFP-C | BLUEFLEX | 39.80 | 44.20 | Υ |
| AR550086 | AR70, 115, 125, 135, 145, 160, 185, 250, 280, 370, 500 (20 Bar max), AR140FLP-C | HPDS | 51.20 | 56.89 | Υ |
| AR620080 | AR30 (40 Bar max), AR503 (50 Bar max) | GOMMA | 31.20 | 34.67 | Υ |
| AR800086 | AR19 and 252 (20 Bar max) | HPDS | 25.94 | 28.82 | Υ |
| AR1040081 | AR813, 1064 (50 Bar max), AR80LFP-C | GOMMA | 35.51 | 39.46 | Υ |
| AR2240080 | ARBHA140, BHS140, BHS160/170, BHS200 (50 Bar max) | GOMMA | 44.59 | 49.54 | Υ |



HPDS diaphragms – AR550086

VALVES

| CODE | VALVES FOR PUMP MODELS | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|-----------|--|--------------|---------------|------------|
| AR759051 | AR70, 115, 125, 135, 145, 160, 185, 250, 280, 370, 500 (20 Bar max). ARBHA140, BHS140, BHS160/170, AR2HS200 (50 Bar max) | 45.94 | 51.04 | Υ |
| AR1409050 | AR30 (40 Bar max). AR503, 813, 1064 (50 Bar max) | 32.16 | 35.73 | Υ |
| AR809060 | AR252 (25 Bar max) | 19.72 | 21.91 | Υ |
| AR2429050 | AR80LFP-C, AR140FLP-C | 46.74 | 51.93 | Υ |



Valves - AR759051

VALVE O-RINGS

| CODE | VALVE O-RINGS FOR PUMP MODELS | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|-----------|--|--------------|---------------|------------|
| AR680070 | AR125, 145, 160, 185, 250, 280, 370, 500 (20 Bar max). ARBHA140, BHS140, BHS160/170, BHS200 (50 Bar max) | 3.25 | 3.61 | Υ |
| AR320030 | AR70, 115, 135 (20 Bar max) | 3.25 | 3.61 | Υ |
| AR620030 | AR30 (40 Bar max). AR503, 813, 1064 (50 Bar max) | 2.01 | 2.23 | Υ |
| AR880830 | AR252 (25 Bar max) | 0.77 | 0.86 | Υ |
| AR3460240 | AR80LFP-C, AR140FLP-C | 8.91 | 9.90 | Υ |



DISCS

| CODE | DISC FOR ARGI40 REGULATOR | \$ (EX. GST) | \$ (INC. GST) | PROD CAT |
|----------|---------------------------|--------------|---------------|----------|
| AR110121 | Vulkulan disc | 10.15 | 11.28 | Υ |
| AR1922 | 5 pack of Vulkulan discs | 43.44 | 48.26 | Υ |

AR110121

REPAIR KITS

| CODE | COMMON REPAIR KITS | \$ (EX. GST) | \$ (INC. GST) | PROD CAT |
|--------|---|--------------|---------------|----------|
| PR66 | 2 X AR550086 for AR70 pump | 99.81 | 110.90 | Υ |
| PR67 | 4 valves and 0-rings for AR70 | 187.27 | 208.08 | Υ |
| AR2374 | Kit (8 x 680070 and 8 x 759051) for 4-diaphragm pumps | 369.66 | 410.73 | Υ |
| AR1917 | Valve and O-rings kit for AR30 | 182.29 | 202.54 | Υ |
| AR1925 | Kit reg overhaul (GI40) for ARGI40 regulator | 57.42 | 63.80 | Υ |



SAFETY RELIEF VALVES

| CODE | SAFETY RELIEF VALVES | \$ (EX. GST) | \$ (INC. GST) | PROD CAT |
|--------|--|--------------|---------------|----------|
| AR1432 | Valve safety (20 Bar) – safety relief valve with reset | 58.47 | 64.97 | Υ |
| AR1433 | Valve safety (40 Bar) – safety relief valve with reset | 60.96 | 67.73 | Υ |
| AR1434 | Valve safety (50 Bar) – safety relief valve with reset | 60.96 | 67.73 | Υ |



AR pump with gearbox fitted

GEAR BOXES

| CODE | COMMONLY USED GEARBOXES FOR AR PUMPS | \$ (EX. GST) | \$ (INC. GST) | PROD CAT |
|--------|--------------------------------------|--------------|---------------|----------|
| AR1613 | Gearbox (AR19/202/252 1:4.3) | 443.54 | 492.82 | Υ |
| AR1636 | Gearbox (AR30 1:5.9) | 788.52 | 876.13 | Υ |
| AR1639 | Gearbox (AR50;503;703 and 904 1:5.9) | 862.39 | 958.21 | Υ |
| AR1671 | Gearbox (AR70/115/120 1:5.9) | 960.96 | 1,067.73 | Υ |



For more information, refer to Croplands Components Guide online visit www.croplands.com.au



MANUAL CONTROL VALVES AND REGULATORS

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| ARGR30 | Controller for AR252 pump, max flow 40 L/min, maximum operating pressure 25 Bar (360 psi). Mounting kit not included. (*See AR892 for remote mount kit.) | 131.11 | 145.67 | Y |
| AR892 | Remote mount kit for ARGR30, includes mount plate and bolts, extra tap, hosetails and inlet/outlet fitting | 76.84 | 85.38 | Y |
| ARGI40 | 3-outlet (2-taps supplied) manual controller suited to the AR30 pump. Can be pump mounted or remote mounted*. (*See AR980 for remote mount kit). Max flow 80 L/min, maximum pressure 40 Bar (580 psi) | 220.09 | 244.55 | Y |
| AR980 | Remote mount kit for ARGI40, includes mount plate and bolts, extra tap, hosetail and inlet/outlet fitting | 95.69 | 106.32 | Y |
| ARRM40I | Two-way controller to suit AR503 pump. Can be pump mounted or remote mounted*. (*See AR985 for remote mount kit.) Max flow 90 L/min, maximum pressure 40 Bar (580 psi) | 248.80 | 276.44 | Y |
| AR985 | Remote mount kit for ARRM40I, includes mount plate and bolts, extra tap, hosetails and inlet/outlet fitting | 93.49 | 103.88 | Y |
| ARVDR50 | Two-way controller to suit AR813 or AR1064 pump. Can be pump mounted or remote mounted*. (*See AR998 for remote mount kit.) Max flow 130 L/min, maximum pressure 50 Bar (725 psi) | 464.12 | 515.68 | Y |
| AR998 | Remote mount kit for ARVDR50, includes mount plate and bolts, extra tap, hosetails and inlet/outlet fitting | 110.91 | 123.23 | Y |
| ARECM-4 | Remote mount 4-way controller suitable for most 20 Bar rated diaphragm pumps. 4 individual shut-off taps and gauge fitted. Comes with remote mount plate fitted. Max flow 150 L/min, maximum pressure 20 Bar (290 psi). 2-tap version also available | 389.47 | 432.75 | Y |
| ARUCM-5 | Remote mount 5-way controller suitable for most 20 Bar rated diaphragm pumps. 5 individual shut-off taps, master shut-off lever and gauge fitted. Comes with remote mount plate fitted. Max flow 150 L/min, maximum pressure 20 Bar (290 psi). 2-tap and 6-tap version also available. Fitted as standard on all AgriPak linkages | 659.33 | 732.58 | Y |
| ARIDROM-4 | Remote mount pressure compensating 4-way controller suitable for most 20 Bar rated diaphragm pumps. Bypass taps on each section can be adjusted for pressure compensation of +/- 15%. 4 individual shut-off taps, master shut-off lever and gauge fitted. Comes with remote mount plate fitted. Max flow 150 L/min, maximum pressure 20 Bar (290 psi). 2-tap and 6-tap version also available | 973.21 | 1,081.35 | Y |
| 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*. (*See AR996 for remote mount kit.) Max flow 200 L/min, maximum pressure 50 Bar (725 psi) | 590.43 | 656.04 | Y |
| AR996 | Remote mounting kit for ARBMH50 controller includes mount plate and bolts, hosetails and inlet/outlet fitting | 50.05 | 55.61 | Y |

HYPRO PUMPS

NEW TECHNOLOGY

LIFE GUARD SILICON CARBIDE PUMP SEALS

Croplands stocks a good range of Hypro pumps for agricultural sprayers – mostly with Life Guard seals fitted. Stocking pumps with this seal material helps our customers with a pump that will last longer and help resist seal failure.

Typically, the standard seal will fail quite quickly if the pump is run dry for long. Life Guard seals dramatically improve the dry-run survivability of the seal in the case where a pump is run dry for any reason.

The Life Guard seal is much more resistant to abrasive products as well, improving the working life of the pump.



9310 SERIES FORCEFIELD CENTRIFUGAL PUMPS

ForceField Technology is a superior wet seal technology that provides the ultimate protection for the mechanical seal and avoids costly downtime.

It protects the mechanical seal against common failures related to dry run and chemical bonding by using a barrier fluid to keep it cool and lubricated

ForceField Centrifugal Pumps actively maintain a pressure differential between the barrier fluid and the pumping solution, which results in longer life and worry free operation.





HYPRO CENTRIFUGAL PUMP MODELS

| ORDER CODE | SPECIFICATIONS | OUTPUT AND INPUT INFORMATION | \$ (EX. GST) | \$ (INC. GST) | PROD. CA |
|--------------|--|--|--------------|---------------|----------|
| 9203C-B | 9203C series pedestal-mount centrifugal pump Equipped with Life Guard seals for longer seal life Cast iron housing with nylon impeller Shaft rotation: counter clockwise when looking at the shaft-end Port sizes: 1–½" NPT inlet; 1–¼" NPT outlet Input shaft size: %" (15.9mm) solid shaft Weight: 8.6kg Fitted to a number of OEM sprayers | Max fluid temp: 60° C Max pressure: 11.7 Bar (170 psi) Max L/min flow: 530 Max RPM: 6000 435 L/min flow at 2.8 Bar pressure and 4200 RPM | 852.58 | 947.31 | X |
| 9203C-BR | As for the model 9203C-B but with clockwise rotation Preferred pump for many 0EM sprayers Suits 4000 series Spra-Coupe models | • As for model 9203C-B | 868.95 | 965.50 | Х |
| 9303C-HM1C-B | 9303C series pedestal-mount centrifugal pump with hydraulic motor fitted (for open centre, closed centre and load-sensing systems) Equipped with Life Guard seals for longer seal life Cast iron housing with nylon impeller Liquid Port sizes: 1—½" NPT inlet; 1—¼" NPT outlet Hydraulic motor: internal gear gerotor; max motor psi = 3000 Hydraulic ports: ½" NPT inlet, ¾" NPT outlet Hydraulic motors seal: double-lip Teflon Weight: 11.8kg Fitted to a number of OEM sprayers Fitted standard to Croplands 4000 and 6000 litre WEEDit sprayers | Max fluid temp: 60° C Max pressure: 9 Bar (130 psi) Max L/min flow: 432 Max hyd flow required: 49.2 L/min 397 L/min flow at 3.4 Bar pressure and 45.4 L/min hydraulic flow | 1,695.09 | 1,883.44 | Х |
| 9313C-M08 | | | | | |
| | ForceField-equipped upgrade option for 9303C-HM1C (and B) pump models – see above | Max pressure: 9.4 Bar (137 psi) Max L/min flow: 712 Max hyd flow required: 49.2 L/min | 2,557.74 | 2,841.93 | Х |

• Max hyd flow required: 49.2 L/min





| ORDER CODE | SPECIFICATIONS | OUTPUT AND INPUT INFORMATION | \$ (EX. GST) | \$ (INC. GST) F | ROD. CAT. |
|-----------------|--|--|--------------|-----------------|-----------|
| 9303C-HM5C-B | 9303C series pedestal-mount centrifugal pump with hydraulic motor fitted (for open centre, closed centre and load-sensing systems) Equipped with Life Guard seals for longer seal life Cast iron housing with nylon impeller Liquid port sizes: 1–½" NPT inlet; 1–¼" NPT outlet Hydraulic motor: internal gear gerotor; max motor psi = 3000 Hydraulic ports: ½" NPT inlet, ¾" NPT outlet Hydraulic motor seal: double-lip Teflon Weight: 11.8kg Fitted to a number of OEM sprayers | Max fluid temp: 60° C Max pressure: 10 Bar (145 psi) Max L/min flow: 556 Max hyd flow required: 60.6 L/min 450 L/min flow at 4.1 Bar pressure and 56.8 L/min hydraulic flow | 1,695.09 | 1,883.44 | Х |
| 9303C-HM5C-B-SP | | | | | |
| | 9303C series pedestal-mount self-priming centrifugal pump with hydraulic motor fitted (for open centre, closed centre and load-sensing systems) Equipped with Life Guard seals for longer seal life Cast iron housing with nylon impeller Liquid port sizes: 1–½" NPT inlet; 1–¼" NPT outlet Hydraulic motor: internal gear gerotor; max motor psi = 3000 Hydraulic ports: ½" NPT inlet, ¾" NPT outlet Hydraulic motor seal: double-lip Teflon Weight: 17.3kg Fitted to a number of OEM sprayers | Max fluid temp: 60° C Max pressure: 9.7 Bar (140 psi) Max L/min flow: 530 Max hyd flow required: 60.5 L/min 356 L/min flow at 3.4 Bar pressure and 53 L/min hydraulic flow | 2,250.88 | 2,500.98 | х |
| 9303S-HM5C | | | | | |
| | 9303S stainless steel series pedestal-mount centrifugal pump with hydraulic motor fitted (for open centre, closed centre and load-sensing systems) Equipped with Life Guard seals for longer seal life Stainless steel housing with polypropylene impeller Liquid port sizes: 1–½" NPT inlet; 1–¼" NPT outlet Hydraulic motor: internal gear gerotor; max motor psi = 3000 Hydraulic ports: ½" NPT inlet, ¾" NPT outlet Hydraulic motor seal: double-lip Teflon Weight: 11.8kg Preferred pump for many 0EM sprayers | Max fluid temp: 60° C Max pressure: 10 Bar (145 psi) Max L/min flow: 556 Max hyd flow required: 49.2 L/min 450 L/min flow at 4.1 Bar pressure and 56.8 L/min hydraulic flow | 2,811.73 | 3,124.14 | X |
| 9306C-HM5C-B | 9306C series pedestal-mount centrifugal pump with hydraulic motor fitted (for open centre, closed centre and load-sensing systems) Equipped with Life Guard seals for longer seal life Cast iron housing with nylon impeller Liquid port sizes: 2" NPT Inlet; 1–½" NPT outlet Hydraulic motor: internal gear gerotor; max motor psi = 3000 Hydraulic ports: ½" NPT inlet, ¾" NPT outlet Hydraulic motor seal: double-lip Teflon Weight: 15kg Fitted to a number of OEM sprayers Suits RG series RoGator sprayer models — replaces part number AC579304D1 | Max fluid temp: 60° C Max pressure: 9.6 Bar (140 psi) Max L/min flow: 803 Max hyd flow required: 64.4 L/min 803 L/min flow at 4.1 Bar pressure and 60.6 L/min hydraulic flow Internal threaded | 1,957.92 | 2,175.46 | х |
| 9306S-HM5C-3U | 9360S series centrifugal pump with hydraulic motor fitted (for open centre, closed centre and load-sensing systems) Equipped with Life Guard seals for longer seal life Stainless steel housing with nylon impeller Liquid port sizes: 300 x 220 (3U) universal flange Hydraulic motor: internal gear gerotor; max motor psi = 3000 Hydraulic ports: ½" NPT inlet, ¾" NPT outlet Hydraulic motor seal: double-lip Teflon Weight: 15kg Fitted to a number of OEM sprayers | Max fluid temp: 60° C Max pressure: 9.6 Bar (140 psi) Max L/min flow: 1181 Max hyd flow required: 64.4 L/min 1018 L/min flow at 3.4 Bar pressure and 60.6 L/min hydraulic flow | 3,519.72 | 3,910.80 | Х |

HYPRO PUMPS

| ORDER CODE | SPECIFICATIONS | OUTPUT AND INPUT INFORMATION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|---------------|---|--|--------------|---------------|------------|
| 9306C-HM5C-3U | 9306C series centrifugal pump with hydraulic motor fitted (for open centre, closed centre and load-sensing systems) Equipped with Life Guard seals for longer seal life Cast iron housing with nylon impeller Liquid port sizes: 300 x 220 (3U) universal flange Hydraulic motor: internal gear gerotor; max motor psi = 3000 Hydraulic ports: ½" NPT inlet, ¾" NPT outlet Hydraulic motor seal: double-lip Teflon Weight: 15kg Fitted to a number of OEM sprayers | Max fluid temp: 60° C Max pressure: 9.6 Bar (140 psi) Max L/min flow: 1181 Max hyd flow required: 64.4 L/min 1018 L/min flow at 3.4 Bar pressure and 60.6 L/min hydraulic flow | 2,133.27 | 2,370.30 | X |
| 9316C3U-M10 | | | | | |
| 0 | ForceField equipped upgrade option for 9306C-HM5C-3U pump | Suits WEEDit Sprayers | 2,779.05 | 3,087.84 | Х |
| 9306S-HM5C | 9306S series pedestal-mount stainless steel centrifugal pump with hydraulic motor fitted (for open centre, closed centre and load-sensing systems) Equipped with Life Guard seals for longer seal life Stainless steel housing with polypropylene impeller Liquid port sizes: 2" NPT Inlet; 1−½" NPT outlet Hydraulic motor: internal gear gerotor; max motor psi = 3000 Hydraulic ports: ½" NPT inlet, ¾" NPT outlet Hydraulic motor seal: double-lip Teflon Weight: 15kg Fitted to a number of OEM sprayers Optional stainless steel pump for Croplands WEEDit 7000 litre sprayer (replaces cast iron 9306C-HM5C-BU − 2 pumps fitted standard) Suits RG series RoGator sprayer models as a stainless steel option − replaces part number AC579304D1 | Max fluid temp: 60° C Max pressure: 9.6 Bar (140 psi) Max L/min flow: 803 Max hyd flow required: 64.4 L/min 803 L/min flow at 4.1 Bar pressure and 60.6 L/min hydraulic flow | 3,292.09 | 3,657.88 | X |

POLY TRANSFER PUMPS

| ORDER CODE | SPECIFICATIONS | OUTPUT AND INPUT INFORMATION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|----------------|--|--|--------------|---------------|------------|
| 9342P-HM5C-5SF | Poly transfer pump, 2" with hydraulic motor drive Polypropylene housing Suction lift 7.62 metres 5-vane impeller 2" NPT inlet and 2" NPT outlet ports Hydraulic ports: ½" NPT inlet, ¾" NPT outlet Optional for Croplands 4000 and 6000 litre WEEDit® sprayers as a filling pump | Max pressure: 4 Bar (58 psi) Max L/min flow: 757 Max hyd flow required: 42 L/min | 1,337.96 | 1,486.62 | Х |
| 9343P-GM10-SP | Poly transfer pump, 3" with hydraulic motor drive Polypropylene housing Suction lift 7.62 metres Poly impeller with stainless steel insert "MPT inlet and 3" NPT outlet ports Hydraulic ports: ½" NPT inlet, ¾" NPT outlet Optional for Croplands RoGator sprayers as a filling pump | Max pressure: 3 Bar (44 psi) Max L/min flow: 1730 Max hyd flow required: 60 L/min | 2,092.46 | 2,324.96 | Х |

Hypro pumps are fitted standard to Croplands RoGator self-propelled sprayers. For information on which models suit the various models of RoGators, contact Croplands or your local Croplands self-propelled dealer.







SHURflo

The Croplands range of 12-volt pumps includes popular models from SHURflo – the leading supplier of diaphragm pumps for agriculture and turf applications. These 12-volt models are commonly used on spot sprayers and small multi-tip boom sprayers.

We have included two heavier duty pumps to accommodate the needs of customers using their pumps in more demanding conditions. The higher flow 5059 series allows for continuous spraying for small booms up to approximately 6 metres – ideal for use in RTV and ATV vehicles, the back of utility vehicles, and small trailed sprayers. This pump model will perform very well in these situations and would be an ideal replacement if you have had failures with your existing set-up in the past.

We also have the fin-cooled high flow SHU2088-313-145 pump. It can handle tough going and is already proving very popular in the hot climates of Northern Australia on planters and in small boom situations. For really tough conditions, consider this model.

| DUM D MODEL | PEOPLETION | MAX MAX L/MIN PRESSURE | | PORT | MAX | PRESSURE | INTERNAL | \$ (EX. | \$ (INC. | PROD | |
|-----------------|---|---------------------------|-----|------|-------------|----------|----------|----------|----------|--------|------|
| PUMP MODEL | DESCRIPTION | (OPEN FLOW) | PSI | BAR | SIZE | AMPS | SWITCH | BYPASS | GST) | GST) | CAT. |
| SHU8000-547-189 | SHURflo 12-volt DC bypass diaphragm pump Santoprene diaphragm; Viton valves 12-volt sealed motor Self-priming to 2.4 metres Proven pump head design Internal bypass for smooth flow operation Ag-chemical resistant materials | 6.8 | 107 | 7.4 | ½"M | 7.3 | ✓ | √ | 111.40 | 123.78 | X |
| SHU2088-343-135 | SHURflo 12-volt DC auto-demand diaphragm pump Santoprene diaphragm; Viton valves Self-priming to 3.7 metres Can run dry without damage Built in check valve Ag-chemical resistant materials | 11.4 | 40 | 2.8 | ½" M | 9.5 | √ | × | 204.50 | 227.23 | Х |
| SHU2088-313-544 | SHURflo 12-volt DC bypass diaphragm pump Santoprene diaphragm; Viton valves 12-volt sealed motor Self-priming to 2.4 metres Proven pump head design Internal bypass for smooth flow operation Ag-chemical resistant materials | 15.1 | 45 | 2.5 | ½"M | 13 | ✓ | √ | 271.82 | 299.00 | Х |
| SHU50593611D011 | SHURflo 12-volt DC bypass diaphragm pump Santoprene diaphragm; Viton valves 12-volt sealed motor Self-priming to 2.4 metres Proven pump head design Internal bypass for smooth flow-operation | 20.1 | 90 | 6.2 | ½"M | 20.9 | × | √ | 277.40 | 308.22 | Х |
| SHU255-613 | SHURflo bowl strainer 50 mesh screen ½" male inlet, ½" female outlet Viton o-ring | | | | | | | | 24.68 | 27.43 | Y |

SHURFLO PUMP ACCESSORIES AND PARTS

| ORDER CODE | DESCRIPTION |
|-------------|--|
| SHU234-2926 | ½" NPT – 14 female x 12mm (½") straight swivel barb (polypropylene) |
| SHU234-2916 | ½" NPT – 14 female x 10mm (¾") straight swivel barb (polypropylene) |
| SHU244-5286 | ½" NPT – 14 male x 3%" coupling/adaptor (polypropylene) |
| SHU234-3926 | ½" NPT – 14 female x 12mm (½") elbow swivel barb (polypropylene) |
| SHU234-3916 | ½" NPT – 14 female x 10mm (%") elbow swivel barb (polypropylene) |
| SHU234-KIT | 2 of each part numbers SHU234-2926, SHU234-2916, SHU244-5286, SHU234-3926, SHU234-3916 |



DIAPHRAGM/DRIVE ASSEMBLY KIT

| PUMP MODEL | PART ORDER CODE |
|-------------------|-----------------|
| SHU8000-547-189 | SHU94-385-32 |
| SHU2088-343-135 | SHU94-238-03 |
| SHU5059-1311-D011 | SHU94-910-04 |

PRESSURE SWITCH KIT

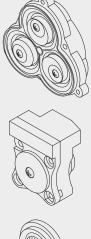
| PUMP MODEL | PART ORDER CODE |
|-------------------|-----------------|
| SHU8000-547-189 | SHU94-229-08 |
| SHU2088-343-135 | SHU94-230-36 |
| SHU5059-1311-D011 | SHU94-910-02 |

VALVE ASSEMBLY KIT

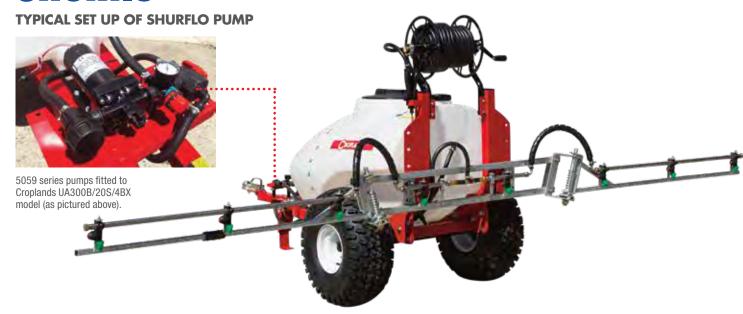
| PUMP MODEL | PART ORDER CODE |
|-------------------|-----------------|
| SHU8000-547-189 | SHU94-391-46 |
| SHU2088-343-135 | SHU94-232-05 |
| SHU5059-1311-D011 | SHU94-910-05 |

CHECK VALVE KIT

| PUMP MODEL | PART ORDER CODE |
|-------------------|-----------------|
| SHU8000-547-189 | SHU94-374-08 |
| SHU2088-343-135 | SHU94-237-05 |
| SHU5059-1311-D011 | SHU94-910-03 |



SHURflo

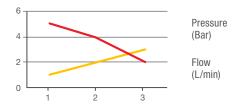




FLOJET PUMPS

The FloJet range of 12-volt pumps is designed for small spot spraying and boom spraying operations. FloJet pumps perform well if used correctly and flushed out after use.

Note that FloJet pumps are rated for intermittent use. Also, all flow ratings in the information below are described as open-flow at zero pressure. The graph at right – for the FL3501-506 model – shows that when pressure is demanded from a FloJet pump, flow decreases. This should be taken into account when planning which pump is suitable for your application.



TRIPLEX AND PENTAFLEX MODELS

3501 Triplex Pump

FL3501-506

- Fully sealed motor for corrosion resistance
- Pressure switch for spot spraying and an internal bypass to ensure pump does not pulsate with small nozzle sizes
- · Low pulsation and noise
- · Superior pump head sealing
- Excellent priming
- · Compact size
- %" threaded ports for use with hosetails or threaded nipples Ideal for small boom or spot spraying and some other agricultural uses.



3521 Triplex Pump

FL3521-139

- Maximum flow of 15.1 L/min (open-flow)
- Internal bypass gives this model superior, smooth liquid delivery for multiple nozzles
- Plug-in bayonet connections (½") with quick release clips Suited for small booms and high volume spot spraying. Triplex design makes it an excellent priming option.



| PUMP MODEL | WITH Press. Switch | MAX L/MIN (OPEN FLOW) | VOLTS | MAX PRESS. (BAR) | INLET AND OUTLET | INTERNAL BYPASS | DIAPHRAGM Material | VALVE Material | AMPS | PUMP \$ (EX. GST) | PUMP \$ (INC. GST) | PROD. CAT. |
|------------|--------------------------|--------------------------|--------|------------------------|------------------------------------|--------------------|-----------------------|-------------------|------|----------------------|-----------------------|------------|
| FL3501-506 | Yes | 7.8 | 12V DC | 3.4 | 3/8" hosebarb | Yes | S | S | 8 | 238.27 | 264.75 | Υ |
| FL3521-139 | Yes | 15.1 | 12V DC | 4 | Plug-in bayonet and ½" hosebarb | Yes | S | V | 9 | 314.83 | 349.81 | Υ |

Note: All FloJet diaphragm pumps are rated for intermittent use.

DIAPHRAGMS

| | **** | |
|------------|-------------|--|
| PUMP MODEL | PART NO. | |
| FL3501-506 | FL20419-012 | |
| FL3521-139 | FL20419-015 | |



PRESSURE SWITCHES

| PUMP MODEL | PART NO. | |
|------------|-------------|--|
| FL3811-133 | FL02091-150 | |
| FL3501-506 | FL02091-060 | |
| FL3521-139 | FL02091-060 | |



VALVES

| PUMP MODEL | PART NO. | |
|------------|-------------|--|
| FL3811-133 | FL20407-022 | |
| FL3501-506 | FL20407-033 | |
| FL3521-139 | FL20407-021 | |



Valve



500 AND 300 FERTILISER AND SEED SPREADER





QUICK GUIDE

AGR-XT300C and AGR-XT500C include:

- » Spun steel hopper, epoxy coated for maximum corrosion resistance
- » Ideal for spreading in pastures, crops, turf areas and fields
- » Ruggedly built made of STEEL
- » Sealed gearbox rated for the towing load
- » Stainless steel spinner and vanes fitted as standard equipment
- » Clevis hitch standard, ball-coupling optional at extra cost
- » Agitator optional at extra cost
- » AGR-XT300C
 - » Standard with easy to reach shutter control lever – ideal for use with your ATV 4-wheeler
 - » 250 litre capacity, maximum payload 300kg
 - » Dry weight: 111kg
- » AGR-XT500C
 - » Standard with remote-mount manual shutter control – perfect for use with your RTV
 - » 350 litre capacity, maximum payload 400kg
 - » Dry weight: 115kg

ACCESSORIES

MECHANICAL REMOTE CONTROL



AGITATOR FOR USE WITH SOME FERTILISER PRODUCTS



AGR-PA251400

DOUBLE-SIDED CONVEYOR



| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|----------------|---|--------------|---------------|------------|
| AGR-XT500C | 350 litre trailed fertiliser spreader complete | 2,869.85 | 3188.72 | W |
| AGR-XT300C | 250 litre trailed fertiliser spreader complete | 2,200.00 | 2,444.44 | W |
| AGR-COM1000V27 | Remote control for 350 litre 3-PTL linkage spreader | 573.21 | 636.90 | W |
| AGR-CON8000V02 | Double-sided conveyor | 668.89 | 743.22 | W |
| AGR-PA251400 | Agitator for hopper on 350 litre 3-PTL linkage spreader | 94.74 | 105.26 | W |
| AGR-XA500T | Hopper cover to suit XA500 spreader | 286.13 | 317.92 | W |

TRAILED 150 FERTILISER AND SEED SPREADER

r capable of material you rist grounds and

The AGR-SP150C trailed spreader has a 150 litre capacity hopper capable of carrying up to approximately 180kg of fertiliser, depending on the material you are spreading. This unit is ideal for small holdings, turf areas, sports grounds and lifestyle farms for use with a ride-on mower, ATV 4-wheel motorcycle or RTV vehicle. It is not suitable on hill country but ideal on flat or gently undulating areas. If kept clean, the 150 trailed spreader should give years of use.





AGR-SP150C

DID YOU KNOW?

Croplands range of spreaders are fully tested using the industry standard salt-spray test to ensure corrosion resistance from new.

QUICK GUIDE

- » Spun steel hopper with epoxy coated hopper for excellent resistance to corrosion
- » Pressed, epoxy coated tubular frame for strength and long life
- » Aluminium-cased gearbox with sealed bearings
- » 15 x 6.00 pneumatic 2-ply turf tyres
- » Adjustable height drawbar with 5 height settings
- » 5-position adjustment for output utilising a simple lever and preset locking nut
- \sim Length = 1,520mm
- » Height = 1,110mm
- \rightarrow Width = 830mm
- » Weight (empty) = 41kg
- » Max Load = 180kg

| FERTILISER TYPE | TYPICAL SPEED RANGE (KM/HR) | APPROX SPREADING WIDTH* (METRES) |
|---|--------------------------------------|---|
| Coarse Grain Fertiliser | 8–12 | 6–8 |
| Medium Grain Fertiliser | 8–12 | 5–7 |
| Fine Grain Fertiliser | 8–12 | 5–6 |
| Medium Grain Crystalline Fertilisers | 8–12 | 4–5 |
| Ammonium Sulphate | 8–12 | 6–8 |

ACCESSORIES

MECHANICAL REMOTE CONTROL





TRAILER HITCH COUPLING

AGITATOR



AGR-SPA001V30

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|----------------|---|--------------|---------------|------------|
| AGR-SP150C | 150 litre trailed fertiliser spreader complete | 1,281.34 | 1,423.71 | W |
| AGR-COM1000V27 | Remote control for 150 litre trailed spreader | 573.21 | 636.90 | W |
| AGR-SPA001V30 | Agitator for hopper on 150 litre trailed spreader | 94.74 | 105.26 | W |

3 POINT LINKAGE 500 FERTILISER AND SEED SPREADER



The AGR-XA500C 3-point linkage spreader utilises a PTO (power take-off) drive system via a driveshaft which is supplied with the spreader. This turns the stainless steel spinner for spreading fertiliser or seed. Ruggedly built with a spun-steel epoxy coated hopper, this unit is ideal for small tractors capable of carrying up to around 400kg on the linkage with a 540RPM PTO-spline drive to operate the spreader. This unit will be ideal for small farms, grasslands, cropping areas, turf areas and pasture. For row crops, there is an optional double sided conveyor available.



QUICK GUIDE

- » Spun steel hopper with epoxy coating for excellent resistance to corrosion
- » Pressed, epoxy coated tubular frame for strength and long life
- » Aluminium-cased gearbox with sealed bearings
- » Stainless steel spinner with adjustable stainless steel vanes
- » Filtering grid in the hopper
- » Optional articulated agitator, remote control, double sided conveyor and filtering grid for the hopper
- » Easy-to-reach 5-position adjustment for output utilising a simple lever and preset locking nut
- » Length = 1,230mm
- » Height = 1,140mm
- Width = 1,190mm
- Weight (empty) = 63.5kg
- » Max Load = 400kg
- » Capacity = 350 litres

| FERTILISER TYPE | TYPICAL SPEED RANGE (KM/HR) | APPROX SPREADING WIDTH* (METRES) |
|---|--------------------------------------|---|
| Coarse Grain Fertiliser | 4–16 | 15–18 |
| Medium Grain Fertiliser | 4–16 | 14–16 |
| Fine Grain Fertiliser | 4–16 | 10–12 |
| Medium Grain Crystalline Fertilisers | 4–16 | 6–8 |
| Ammonium Sulphate | 4–16 | 8–10 |

ACCESSORIES

MECHANICAL REMOTE CONTROL



AGITATOR FOR USE WITH SOME FERTILISER PRODUCTS



AGR-PA251400

DOUBLE-SIDED CONVEYOR



| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|----------------|---|--------------|---------------|------------|
| AGR-XA500C | 350 litre 3-PTL linkage spreader | 1,100.47 | 1,222.75 | W |
| AGR-COM1000V27 | Remote control for 350 litre 3-PTL linkage spreader | 573.21 | 636.90 | W |
| AGR-CON8000V02 | Double-sided conveyor | 668.89 | 743.22 | W |
| AGR-PA251400 | Agitator for hopper on 350 litre 3-PTL linkage spreader | 94.74 | 105.26 | W |
| AGR-XA500T | Hopper cover to suit XA500 spreader | 286.13 | 317.92 | W |

TANK AND EQUIPMENT CLEANER, SPRAYSUITS AND GLOVES

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| L-H9704 | Spraymate tank and equipment cleaner, 600g | 33.49 | 37.22 | X |
| L-H230* | Disposable protective suit. Suitable for single or limited repeat use for protection against dust while mixing chemicals. Not rainfast. *Denotes size as follows: $1 = Medium$; $2 = Large$; $4 = XL$; $5 = XXL$ | 18.18 | 20.20 | Х |
| L-H700* | Nitrile protective spray gloves, 330mm. *Denotes size as follows: 3 = size 10; 5 = size 11 | 9.57 | 10.63 | X |
| L-H710* | Nitrile protective spray gloves, long, 460mm. *Denotes size as follows: 2 = size 9; 3 = size 10; 4 = size 11 | 24.88 | 27.65 | Х |

TANK CLEANER

- » Thoroughly clean your sprayer when changing from one pesticide to another with Spraymate™ tank and equipment cleaner
- » Powerful detergents remove residues from inaccessible areas in the tank and spray lines
- » It also removes rust and hard water scale and leaves a protective film to prevent corrosion during storage, prolonging the life of your sprayer



COVERALLS

- » Tyvek® Barrier Man Coveralls are disposable coveralls designed to protect workers from hazardous materials, or sensitive products and processes from contamination by people. Available in white, sizes medium to XXL
- » Please specify size

L-H230

GLOVES

- » Offers resistance to solvents and oils with good flexibility and dexterity. Excellent abrasion and puncture resistance
- » Sizes: 9-11. Please specify size



RESPIRATORS AND PROTECTIVE MASKS

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| L-H3016 | K80-T9R respirator complete with helmet, blower unit and belt, single filter and 12-volt cable-charger for connection to a continuous 12-volt power source such as a tractor or vehicle. This unit will operate for approximately 30 minutes without the 12-volt power source from a small battery in the blower unit. Optional 240-volt charger available to charge the battery for 30 minutes of use if required as a stand-alone function. Designed to be continuously powered while in use. Agricultural use only | 1,674.64 | 1,860.71 | W |
| L-H3017 | K80-T5 respirator complete with helmet, blower unit and belt, single filter and rechargeable battery pack — also carried on the belt. Designed to be charged overnight and powered by the battery pack during use. Approximately 6 hours operating time for 1 overnight charge. This will diminish as batteries degrade. For agricultural use only. Unit not pictured | 1,674.64 | 1,860.71 | W |

KASCO FILTER GUIDE

| ORDER CODE | DESCRIPTION | CLASS | COLOUR ON Cartridge | PROTECTION AGAINST | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|---------------|----------------|-------|------------------------|---|--------------|---------------|------------|
| KASCO-0601/19 | ZA2P3 Filter | P3R | | Particles, liquid and solid aerosols, organic vapours and gases | 115.79 | 128.65 | Χ |
| KASCO-0601/25 | ZA2B2P3 Filter | A2P3R | | Particles, liquid and solid aerosols, organic vapours and gases, inorganic vapours and gases. Suitable for HiCane use | 266.65 | 296.28 | Х |

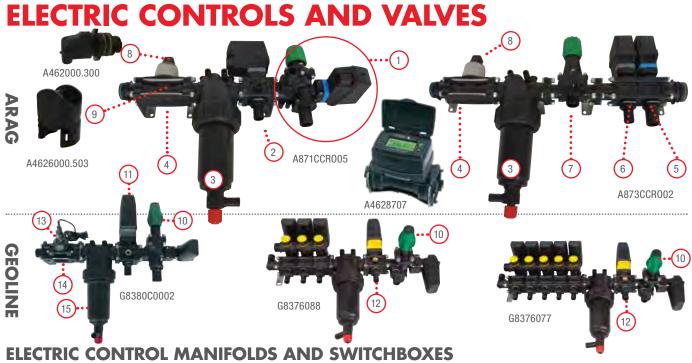


Please note: once opened replace after 6 months





| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| L-H3300 | SR100 silicone mask for superior face seal. Double anti-clog exhaust valves, filter not included | 150.24 | 166.94 | Χ |
| L-H3500 | Particle filter P3 (210/310) particles, wet and dry dust, aerosols, mould, bacteria, viruses, smoke, mist and fumes | 47.84 | 53.16 | Х |
| L-H3501 | Pre-filter 221-1 (pack of 10) | 11.48 | 12.76 | Х |
| L-H3502 | Gas filter A1 (217) organic vapour such as solvents – regular capacity | 56.46 | 62.74 | Х |
| L-H3503 | Gas filter A2 (218) organic vapour such as solvents – high capacity | 61.24 | 68.05 | Х |
| L-H3505 | Gas filter ABEK1 (297) organic vapour such as solvents and inorganic vapour, acid gas and ammonia | 67.95 | 75.50 | Х |



| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| A871CCRO05 | Control manifold for auto-rate controllers, for pumps up to 180 L/min, manual PRV, electric bypass (7 sec), dump valve, 80-mesh flushing filter, ARAG Wolf flowmeter, mounting brackets (boom shut-off valves not included) | 1,179.91 | 1,311.01 | Χ |
| A873CCRO02 | Control manifold for auto-rate controllers, for pumps up to 280 L/min, manual PRV, electric bypass (7 sec), dump valve, 80-mesh flushing filter, ARAG Wolf flowmeter, mounting brackets (boom shut-off valves not included) | 1,205.74 | 1,339.71 | Х |
| G8380C0002 | Control manifold for auto rate controllers, for pumps up to 180 L/min, manual PRV, electric by pass (7 section), dump valve, 80-mesh flushing filter, Geoline flowmeter, mounting brackets. (Boom shut off valves not included) | 1,184.68 | 1,316.32 | Х |
| G8376088 | Control manifold for basic electric control systems. Max flow 180 L/min, 20 Bar rated. Kit includes manual PRV, Regulating valve, dump valve, pressure filter and 3 proportional electric boom shut-off valves | 1,237.32 | 1,374.80 | Χ |
| G8376077 | Control manifold for basic electric control systems. Max flow 180 L/min, 20 Bar rated. Kit includes manual PRV, Regulating valve, dump valve, pressure filter and 5 proportional electric boom shut-off valves | 1,633.49 | 1,814.99 | Χ |
| A4628707 | Highly accurate programmable flowmeter with LCD display and sapphire bearing paddle turbine. 40–800 L/min reading of actual flow, or you can view litres pumped. 2 separately resettable counters. 2 x AA batteries required. Will require T7 male fittings (A249177) | 953.11 | 1,059.01 | Υ |
| G8406008 | 3 section electric switch box and tractor cables. Requires GC00900009 valve cable to connect control manifold. Suitable for G8376088 control manifold | 301.43 | 334.92 | Х |
| GC00900009 | 3 section 5 metre valve cable. Requires G8406008 electric switch box. Suitable for G8376088 control manifold | 173.49 | 192.77 | U |
| G8406010 | 5 section electric switch box and tractor cables. Requires GC00900011 valve cable to connect control manifold. Suitable for G8376077 control manifold | 334.93 | 372.14 | Х |
| GC00900011 | 5 section 5 metre valve cable. Requires G8406010 electric switch box. Suitable for G8376077 control manifold | 228.71 | 254.12 | U |

CONTROL MANIFOLD COMPONENTS

Valves, filters and flowmeters to repair/update your control manifold.

| PART REF | ORDER CODE | DESCRIPTION | MAX PRESS | MAX FLOW | PORTS/ Bypass | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|-------------|--------------|---|--------------|-----------|------------------|--------------|---------------|------------|
| 1 | A8710502 | Dump valve/PRV/inlet assembly | 20 Bar | 180 L/min | 32mm | 370.34 | 411.49 | Χ |
| 2 | A8630024S | Electric bypass valve, 7 second open/close | 20 Bar | 150 L/min | 25mm | 431.96 | 479.95 | U |
| 3 | A32621135 | 80-mesh flushing filter with manifold flanges | 20 Bar | 150 L/min | 40mm | 105.36 | 117.06 | V |
| 4 | A46264A0 | Wolf Flow Meter 10/200L | 20 Bar | 200 L/min | | 475.60 | 528.44 | Υ |
| 5 | A8730001 | Dump valve, hi-flow, 0.6 sec | 20 Bar | 120 L/min | 32mm | 430.43 | 478.26 | U |
| 6 | A8730020S | Electric bypass valve, hi-flow, 7 second open/close | 20 Bar | 150 L/min | 25mm | 401.24 | 445.82 | U |
| 7 | A465522 | Manual PRV | 20 Bar | 200 L/min | 32mm | 123.44 | 137.16 | Χ |
| 8 | A4626000.300 | Sensor for Wolf Paddle Flow Meter | - | - | - | 432.35 | 480.39 | U |
| _ | UP-402 | Proximity sensor BA and HV4000 | - | - | - | 186.60 | 207.33 | Υ |
| 9 | A4626000.503 | Paddle assembly for Wolf Flow Meter | - | - | - | 213.78 | 237.53 | U |
| 10 | G8370025 | Manual main valve 3 wire | | | | 363.63 | 404.04 | V |
| 11 | G8386006 | Servo valve (7 section) | | | | 241.15 | 267.94 | Χ |
| 12 | G8386004 | Electric bypass valve, 28 second open/close | | | | 241.15 | 267.94 | Χ |
| 13 | GS02000020 | Flow sensor square wave | | | | 153.11 | 170.12 | Υ |
| 14 | GF01001000 | Flow meter 10–100 | | | | 473.68 | 526.32 | Υ |
| 15 | G8125013 | Filter flange self clean | | | | 66.13 | 73.47 | U |



ELECTRIC AND MANUAL VALVE KITS



To make up your own bank of 2-wire or 3-wire motor valves (see below for valve options), order the correct kit for bolts, nuts and 0-rings as shown. For end-caps and inlet/outlet fittings, see the valve adaptors section below.

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|-------------|-------------------------|--------------|---------------|------------|
| A463000.920 | Kit for 2 valves, 150mm | 35.02 | 38.91 | U |
| A463000.930 | Kit for 3 valves, 207mm | 39.91 | 44.34 | U |
| A463000.940 | Kit for 4 valves, 264mm | 45.84 | 50.94 | U |
| A463000.950 | Kit for 5 valves, 321mm | 53.01 | 58.90 | U |
| A463000.970 | Kit for 7 valves, 436mm | 68.71 | 76.34 | U |

VALVE ADAPTORS

On the inlet and outlet of each motor valve there is a range of adaptors and fittings commonly used to go with the mounting kit (above). Use the valve adaptors diagram above to choose the adaptors/fittings you require.

| ORDER CODE | E | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|-----------|---------------------------------------|--------------|---------------|------------|
| A463 | 3000.130 | Male adaptor (A) ¾" (BSP) | 8.52 | 9.46 | U |
| A463 | 3000.140 | Male adaptor (A) 1" (BSP) | 8.52 | 9.46 | U |
| A463 | 3011.120 | End cap (B) | 2.68 | 2.98 | U |
| A463 | 3011.130 | Pressure gauge adaptor (C) 1/4" (BSP) | 17.99 | 19.99 | U |
| A463 | 3000.030 | Male adaptor (D) ¾" (BSP) | 7.56 | 8.40 | U |
| A463 | 3000.040 | Male adaptor (D) 1" (BSP) | 7.56 | 8.40 | U |
| A463 | 3000.050 | Male adaptor (D) 1 1/4" (BSP) | 7.56 | 8.40 | U |
| A463 | 3011.110 | End cap (E) | 3.63 | 4.04 | U |
| A463 | 3001.113 | Hosetail (F) 13mm | 6.89 | 7.66 | U |
| A463 | 3001.116 | Hosetail (F) 16mm | 6.89 | 7.66 | U |
| A463 | 3001.119 | Hosetail (F) 19mm | 6.89 | 7.66 | U |
| A463 | 3001.125M | Hosetail (F) 25mm | 7.56 | 8.40 | U |
| AG10 | 0071V | O-ring to suit 863 flanges (Viton) | 6.22 | 6.91 | U |

ELECTRIC AND MANUAL VALVES

If you are updating your spraying control system, Croplands has a wide range of valves and valve kits to suit your application.

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|--|--------------|---------------|------------|
| A8630011 | Single electric boom shut-off valve, 3-wire for use with auto-rate controllers or basic electric controls, with bypass (suitable for 2 and 3-wire applications) | 394.93 | 438.81 | U |
| A8630001 | Single electric boom shut-off valve, 3-wire for use with auto-rate controllers or basic electric controls (suitable for 2 and 3-wire applications) | 370.91 | 412.12 | U |
| A8730001 | Electric boom shut-off valve, high flow (120 L/min), 3-wire for use with auto-rate controllers | 430.43 | 478.26 | U |
| A863CCRO05 | Electric valve bank, 3-section complete with flushing tap, gauge port and mounting brackets | 992.35 | 1,102.61 | Χ |
| A863CCRO06 | Electric valve bank, 5-section complete with flushing tap, gauge port and mounting brackets | 1,597.13 | 1,774.58 | Χ |
| A463CCRO09 | 2-bank manual valves complete with mounting brackets, 20 Bar | 167.46 | 186.07 | U |
| A463CCRO10 | 3-bank manual valves complete with mounting brackets, 20 Bar | 260.28 | 289.20 | U |
| A463051 | Manual shut-off valve, 13mm tail, 20 Bar | 57.42 | 63.80 | V |
| A463050 | Blank ARAG valves | 45.94 | 51.04 | V |
| G8372071 | Electric valve bank, 5 section complete with gauge port and mounting brackets. | 1,047.84 | 1,164.27 | Χ |
| G8531032 | Electric valve bank, 3 section complete with gauge port and mounting brackets. (Not pictured) | 625.84 | 695.38 | Х |
| G8388005 | Single electric boom shut off valve, 3 wire for use with auto rate controllers or basic electric controls, with bypass. (Suitable for 2 and 3 wire applications) | 204.79 | 227.54 | Х |
| G8388002 | Single electric boom shut off valve, 3 wire for use with auto rate controllers or basic electric controls (suitable for 2 and 3 wire applications) | 194.26 | 215.85 | Х |

ELECTRIC CONTROL KITS

If you need to upgrade your sprayer to control your boom or air-assisted sprayer, Croplands has the right range of electric controls to suit all applications. Options include 20 Bar rated systems for broadacre and low pressure air-assisted sprayers and 40 Bar rated systems for high pressure sprayers.

Also fitted as options to Croplands Linkage sprayers – see page 19.



ELECTRIC CONTROL KITS UP TO 20 BAR PRESSURE

(To suit linkage and boom sprayers; low-pressure air sprayers)

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|--|--------------|---------------|------------|
| I-E2012 | Entry level electric in-cab control with switchbox. One electric on/off valve shuts off the complete boom from the cab. 3 manual taps on the control manifold can be used for each boom section. A manual pressure regulator with gauge is supplied to allow working pressure to be set for the system | 726.32 | 807.02 | X |
| I-E2032 | Electric in-cab controller with switchbox. 3-section electric valves for individual section shut off, electric pressure regulating valve and a master on/off can all be operated from the switchbox in the cab or vehicle. Requires a reliable 12-volt power supply | 1,813.40 | 2,014.89 | X |
| I-E2052 | As above for 5-section control | 2,291.86 | 2,546.51 | X |



ELECTRIC CONTROL KITS UP TO 40 BAR PRESSURE

(To suit high pressure orchard sprayers to 40 Bar

| (10 Suit High pressure | suchard sprayers to 40 bar) | | | |
|------------------------|--|--------------|---------------|------------|
| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
| I-S4020 | Electric in-cab controller with switchbox. 2-section high-pressure electric valves for individual left/right shut off and a master on/off can all be operated from the switchbox in the cab. Requires a reliable 12-volt power supply | 1,363.63 | 1,515.15 | Х |
| I-S4021 | Electric in-cab controller with switchbox. 2-section high-pressure electric valves for individual left/right shut off, electric pressure regulating valve and a master on/off can all be operated from the switchbox in the cab or vehicle. Requires a reliable 12-volt power supply | 2,464.12 | 2,737.91 | Х |



SPRAY MONITORS AND AUTO SPRAY-RATE CONTROLLERS

To know your application rate, a spray monitor is a useful option to see speed, flow rate and spray application rate. For fully automatic spray rate control, Croplands has a number of excellent options to choose from to help your farming enterprise become more efficient.







SPRAY MONITORS

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | DDUD CAT |
|----------------|--|--------------|---------------|-------------|
| ONDEN CODE | DESCRIPTION | φ (LA. GS1) | \$ (INO. GS1) | FIIOD. GAI. |
| A4670610-HA | The Visio Hectare meter is a handy viewer to hook up to a vehicle or tractor to measure area, distance and speed. Supplied in the kit is the Visio multi-function display, mounting bracket and a speed-sensor that will need to be mounted to read the rotation of a wheel or PTO shaft | 622.01 | 691.12 | K |
| A4670610-SR100 | The Visio spray monitor comes in a kit to fit up to a boom or orchard sprayer to measure spray application rate, litres used, area, distance and speed. Supplied in the kit is the Visio multi-function display, mounting bracket, speed-sensor that will need to be mounted to read the rotation of a wheel or PTO shaft, a 5–100 L/min flowmeter and all necessary cables. The kit will require some extra fittings to fit to an existing sprayer – consult your Croplands Dealer or service agent | 1,233.49 | 1,370.54 | К |
| A4670610-SR200 | As above but with a higher flow rated flowmeter (10–200 L/min) | 1,233.49 | 1,370.54 | K |







AUTO SPRAY-RATE CONTROLLERS

| BA5000-GE03 | |
|-------------|--|
| | |

HV2400-BRAG2

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|----------------|---|--------------|---------------|------------|
| BA5000-GEO3 | Croplands fully auto spray-rate controller for use on linkage sprayers. Optional as a fit-up to any new Croplands sprayer or as an upgrade to an existing sprayer. Features include: • Display of two functions on screen • Large back-lit display • Heavy duty switches • Up to 10 pre-set application rates • Fully programmable • Alarm settings and integrated diagnostics Kit includes: spray manifold with flowmeter, 3-section valve bank, looms, mount and operating instructions. The kit will require some extra fittings to fit to an existing sprayer — consult your Croplands Dealer or service agent Note: if you require a kit for a trailed broadacre sprayer, contact Croplands to ensure the correct length looms are supplied | 3,244.02 | 3,604.47 | К |
| BA5000-GEO5 | As above but with 5 sections Note: if you require a kit for a trailed broadacre sprayer, contact Croplands to ensure the correct length looms are supplied | 3,631.58 | 4,035.09 | K |
| HV2400-BRAG2 | Croplands fully auto spray-rate controller for use on horticultural sprayers. Has the same features as the BA5000 (specifications listed above) with the added option on Litres per 100 metres for application. Kit includes: spray manifold with flowmeter, 2-section high pressure valve bank, looms, mount and operating instructions. The kit will require some extra fittings to fit to an existing sprayer – consult your Croplands Dealer or service agent | 3,826.79 | 4,251.99 | К |
| HV2400-BRAG4 | As above for horticulture but with 4 high pressure section valves | 4,400.96 | 4,889.96 | K |
| BRAVO180-ARAG3 | ARAG Bravo180S fully auto spray-rate controller for use on linkage sprayers. Optional as a fit-up to any new Croplands sprayer or as an upgrade to an existing sprayer. Features include: • Display of two functions on screen • Large back-lit display • Heavy duty switches • Up to 10 pre-set application rates • Fully programmable • Visual and sound alarm settings • Programmable units of measure • GPS input for speed Kit includes: spray manifold with flowmeter, 3-section valve bank, looms, mount and operating instructions. The kit will require some extra fittings to fit to an existing sprayer — consult your Croplands Dealer or service agent Note: If you require a kit for a trailed broadacre sprayer, contact Croplands to ensure the correct length looms are supplied | 4,554.06 | 5,060.07 | К |
| BRAVO180-ARAG5 | Same specifications as above with a 5-section valve bank | 5,344.49 | 5,938.32 | K |
| | re information on oute rate controllers, contact Croplands | | | |

For more comprehensive information on auto-rate controllers, contact Croplands.

GPS GUIDANCE SYSTEMS







GD430-GL0-P-L - MATRIX 430



| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|----------------|--|--------------|---------------|------------|
| GD430-GLO-P-L | Portable, simple guidance Matrix 430 system for use in agriculture. 110mm (4.3") full colour, high-contrast touch-screen with on-screen numerical prompts. Minimal set up needed – guidance options include straight A-B, curved A-B, circle pivot and last pass. Handy return-to-point and boundary functions standard. Area counter displays applied area during operation and elapsed time counter measures current job-time. Standard with patch antenna for use where satellite reception is good. Optional RXA-30 antenna (listed below) | 1,912.92 | 2,125.47 | W |
| RXA-30 | Upgrade antenna for Matrix 430 to improve GPS reception in areas where signal is weak. Enhances performance of the Matrix 430 | 764.59 | 849.54 | W |
| RV117-2295-001 | Raven CR7 system with a 7" field computer with customisable in-job layouts, ISO universal terminal and task controller capabilities, optional external GPS, compatible with direct injection, multi-product control including variable rate liquid, dry, and NH3 applications, slingshot – ready for file transfer, remote support, and OTA software updates. Simple to set up and operate, you'll be running confidently in minutes | 3,315.42 | 3,683.80 | Υ |

TOOLS FOR ACCURATE SPRAYING

Croplands have a great range of extremely useful tools for checking or upgrading the performance of your sprayer. We provide advice and equipment to test and maintain your sprayer – to ensure your application is optimised. In the nozzle section to follow, on page 71 to 100, you will find some excellent information for determining your application options in broadacre and horticulture. Below you will find tools to make calibration and maintenance of your nozzles much easier.

ELECTRONIC SPRAY TIP PRESSURE TESTER

- » Can measure pressure in psi, kPa and Bar
- » Accurate to within +/- 1 psi, 0.07 Bar or 7kPa
- » 5 year battery life* (*depending on how much use)
- » Quick cap connector easy fit up to the nozzle body
- » LCD display shows nozzle pressure and unit of measure
- » For test gauge use only not for continuous use
- » Reads from 3 to 160 psi (11 Bar)
- » Absolutely foolproof



L-H9210

Santan

L-H9200

SPOT-ON CALIBRATOR

- » Waterproof design, no moving parts
- » Easy one-hand operation, electronic display
- » Reads in GPM or litres per minute
- » Accurate to 0.01 L/min
- » Battery life approx two years (has battery warning indicator)
- » Clear design allows for easy cleaning. Warning: only test your nozzles with water, not with mixed chemicals. Damage to the unit may occur

NOZZLE CLEANER AND NOZZLE CAP MULTI TOOL IN A HANDY PACK

- » Air-blast nozzle cleaner simply charge it with air and it will blow out any grit or residue blocking your nozzle
- » Multi tool with brush, plastic pick for removing a pre-orifice or residue, spanner wrench to make undoing nozzles so much easier and a utility hook for removing nozzle filters and the like. A must for all farmers



L-H9220



L-H6001

WINDMATE™ HAND HELD WEATHER METER

- » Eight functions including temperature, wet bulb temperature, wind speed and direction, dewpoint, relative humidity, Delta T and comfort index. For more information see page 88 in the nozzle section
- » You simply cannot do without a WindMate™ to be sure you are spraying when conditions are right

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|--|--------------|---------------|------------|
| L-H9210 | Electronic pressure testing gauge | 238.27 | 264.75 | Χ |
| L-H9220 | Nozzle cleaner and nozzle multi tool kit | 94.74 | 105.26 | Χ |
| L-H9200 | Spot-on nozzle calibrator | 324.40 | 360.44 | Χ |
| L-H6001 | WindMate [™] hand held weathermeter | 266.99 | 296.65 | Х |



NOZZLE SELECTION AND SPRAYING



Spraying is a job that most farmers and growers do on a regular basis – whether it is for pest or disease control, selective or broadcast weed control, fertiliser applications or soil additives.

The key aspects of this part of farming are covered in the following sections:

BROADACRE SECTION

| SprayWise Stewardship Program | 71 |
|--|-------|
| Nozzle – Cereal Segment Guide | 72–73 |
| Nozzle Application Chart | 74–75 |
| Spray Quality Comparison Chart | 76–77 |
| Agrotop Nozzle Selection | 78 |
| ALBUZ Nozzle Selection | 79 |
| Hypro Nozzle Selection | 80 |
| TeeJet Nozzle Selection | 81 |
| Nozzle Caps | 82 |
| Nozzle Bodies and Filters | 83 |
| Tips For Selecting Nozzles – Broadacre | 84-89 |
| Wide Angle Flat Spray Nozzle | 90 |
| Fertiliser Nozzles | 90 |
| | |

HORTICULTURAL SECTION

| Specialised Nozzles – Off-centre, TurfJet, BoomJet, FloodJet | 91 |
|---|-------|
| Orchard and Vineyard Nozzle Selection Guide | 92–94 |
| Ceramic Cone Nozzles for Tree and Vine Crops | 95 |
| Nozzle Bodies and Caps for Horticulture | 96 |
| Turbodrop® Narrow Angle Air-Induction Nozzles | 97 |
| Ceramic Disc and Core Nozzles with Application Chart | 98 |
| Spray Coverage in Horticulture | 99 |

SPRAYWISE STEWARDSHIP PROGRAM

This stewardship program is a Nufarm initiative to encourage best practise spraying and drift management techniques. Since its introduction, SprayWise has been instrumental in raising awareness amongst the farming community about important spray application parameters. SprayWise consolidates various tools, research results and training courses into one program to assist farmers better manage their spraying activities.



AVAILABLE NOW -SPRAYWISE BROADACRE APPLICATION HANDBOOK

Used widely by most specialist application consultants and supplied with all Croplands Broadacre sprayers.

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|--------------|--|-----------------|------------------|---------------|
| SPRAYWISEBK | SprayWise Broadacre Application Handbook | 22.73 | 25.00 | W |
| SPRAYWISELOG | SprayWise Logbook | 31.82 | 35.00 | W |
| SPRAYWISEHK | SprayWise Horticulture Application Handbook | 23.64 | 26.00 | W |







SprayWise Broadacre Application Handbook SprayWise Logbook

SprayWise Horticulture Application Handbook

NOZZLE – CEREAL SEGMENT GUIDE

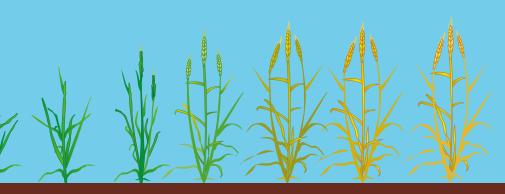
PRODUCT RECOMMENDATION FOR CEREAL CROPPING PROGRAM.



Growth Stage Pre-plant Emergence Tillering Stem Elongation

Pre-emergent Nozzles Pre-orifice Nozzles Low Pressure Air-induction Nozzles TTI TURBO TEEJET INDUCTION FLAT FAN TIP TURBODROP XL (D) GAT **ALBUZ ADI** TDAM CVI PRESSURE RANGE PRESSURE RANGE PRESSURE RANGE PRESSURE RANGE PRESSURE RANGE · Ideal pressure range: · Ideal pressure range: · Ideal pressure range: Ideal pressure range: • Ideal pressure range: · Ideal pressure range: 2-4 Bar 3-4 Bar 2-3 Bar 1.5-3 Bar · Uses: weed control, plant . Uses: weed control and plant · Uses: weed control and · Uses: weed control and · Uses: weed control and health and liquid fertilisers health, both contact and plant health plant health plant health • Up to 90% drift reduction systemic ✓ Variable droplet spectra from ✓ Standard in Polymer ✓ Two 110° air-induction ✓ Pink ceramic orifice ✓ Excellent value, proven $\checkmark \ \, \text{Pink ceramic orifice for}$ performer for excellent wear and coarse to fine as pressure √ High-pressure flat fan nozzles directed long life and precise at 30°, one forward one spray precision spray quality increases air-induction nozzle Predominantly coarse-Compact design, easy to Excellent drift reduction at Predominantly Very medium droplets for ✓ Two-piece with pre-orifice dismantle and clean good coverage Coarse to Coarse lower pressures ✓ Improves coverage on upright targets and soil Two-piece for easy ✓ Excellent coverage Compact design Available in 80° disassembly clods potential for selected Protected air inlets to and 110° New style fast-cap that suits Hypro, Arag and ✓ Fast cap fitting use and the right avoid blockage ✓ Anti-clogging design spraying conditions and protected double Two-piece for easy TeeJet nozzle holders air-intake orifice cleaning, no seals Compact design Also available as an off-centre nozzle Also available as an off-centre nozzle





Heading Ripening Harvest **Fallow**

Fungicide Nozzles

CVI – TWIN



PRESSURE RANGE

- Ideal pressure range: 2 Bar
- Uses: contact and systemic products
- \checkmark Pink ceramic orifice for long life and precise spray quality
- The inclination of the jets improves the penetration into the vegetation
- ✓ Air-induction nozzle
- ✓ Angle between the jets 65°

See pages 82-85 for spray quality data, flow rates and caps

Pre-emergent Nozzles

TURBODROP XL (D)



TTI TURBO TEEJET INDUCTION FLAT FAN TIP



PRESSURE RANGE



- Ideal pressure range:
- Uses: weed control, plant health
- and liquid fertilisers • Up to 90% drift reduction



- · Ideal pressure range: 3-4 Bar
- Uses: weed control and plant health, both contact and systemic
- ✓ Variable droplet spectra from coarse to fine as pressure increases
- Excellent drift reduction at lower pressures
- Two-piece for easy disassembly
- Fast cap fitting
- ✓ Standard in Polymer
- ✓ High-pressure
- air-induction nozzle ✓ Two-piece with pre-orifice

| | | DUAL ANG | GLE NOZZLES | | LOW | / PRESSURE AIR-INDUC | TION | |
|----------------|---|-------------------------------|-------------------------------|---------------------|-------------------------------|-------------------------------|--|-------------------------------|
| | | ALBUZ | HYPR0 | AGROTOP | ALBUZ | HYPR0 | HYPR0 | TEEJET |
| MOD | EL | CVI-TWIN | Guardian Air Twin | AirMix [®] | CVI | Guardian Air | ULD-120 | AIXR |
| NOZZLE SIZE | BAR | | | | a | | | |
| 01 | 1.5 2.0 3.0 4.0 5.0 6.0 7.0 8.0 | Not available in this size | Not available in this size | M M F F | Not available in this size | Not available in this size | Not available in this size | Not available in this size |
| 015 | 1.5 2.0 3.0 4.0 5.0 6.0 7.0 | VC VC VC | Not available in this size | XC C C C | VC VC VC | UG XC C M M M | UC XC VC C C M M | VC C C M M |
| 02 | 1.5 2.0 3.0 4.0 5.0 6.0 7.0 8.0 | VC VC C | C M M M M M F F F | C C M M | VC VC C | XC VC M M M M M | UC XC C C M M | VC VC C M M |
| 025 | 1.5 2.0 3.0 4.0 5.0 6.0 7.0 8.0 | VC VC C | UC VC M M M | VC C C M | VC VC C | XC VC C M M M | XC XC C C M M | XC VC VC C C |
| 03 | 1.5 2.0 3.0 4.0 5.0 6.0 7.0 | VC VC C | VC C M M M | VC C C C | VC VC C | UC XC VC C M M | M XC XC C G M M | XC VC VC C C |
| 04 | 8.0 1.5 2.0 3.0 4.0 5.0 6.0 7.0 8.0 | VC C C | M VC C M M M M M | VC C C C | VC C C | XC VC C M M | M UC UC UC XC XC VC C | XC XC VC VC C |
| 05 | 1.5 2.0 3.0 4.0 5.0 6.0 7.0 | VC C | Not available in this size | VC C C M | VC C C | XC VG C C C M M | UC UC XC XC VC VC C | XC XC VC C C |

NOTE: SPRAY QUALITY DATA may appear finer than previous versions of this chart as manufacturers undertake new testing requirements. All data has been sourced from the manufacturer's websites as at May 2017 (date catalogue sourced from was published is listed in the chart), except for Agrotop TurboDrop TD (iso exit) and AirMix® which were sourced from Nufarm SprayWise Publications, published 2012. ? = data not published. Always check current spray quality information according to ASABE 572.1 or BCPC for older data. Compiled and updated by bill.gordon@au.nufarm.com 0418 794 514





| | | - | HIGH | PRESSURE AIR-INDU | CTION | | PRE-C | PRIFICE | INCLINED FLAT FAN |
|----------------|---|----------------------------|-------------------------------|----------------------------|----------------------------------|--------------------------------|-----------------------|-------------------------------|------------------------------|
| | | ALBUZ | AGROTOP | AGROTOP | TEEJET | TEEJET | ALBUZ | TEEJET | HYPRO |
| MODE | :L | AVI | TD-XL D | TurboDrop TD | тті | AITTJ60 TwinJet | ADI-110 | DG-110 | FC-3D100 |
| NOZZLE SIZE | BAR 1.5 | | | 8 | | | > | | 37 |
| 01 | 2.0 3.0 4.0 5.0 6.0 7.0 8.0 | VC C C C | Not available in this size | Data not available | Not available in this size | Not available in this size | M M F | Not available in this size | Not available in this size |
| 015 | 3.0 4.0 5.0 6.0 7.0 | VC C C C | Not available in this size | C C C | UC UC XC XC XC | Not available in this size | M M M | M F F | C M M F F |
| 02 | 1.5 2.0 3.0 4.0 5.0 6.0 7.0 | VC C C C | UC UC XC XC XC VC | C C C | UC UC UC XC XC | XC VC C C M | M M M | M M M | C M M F F |
| 025 | 8.0 1.5 2.0 3.0 4.0 5.0 6.0 7.0 | VC C C C | UC UC XC XC VC | VC VC VC VC | UC UC UC XC XC | XC VC C C M | M M M | Not available in this size | C C M M F F |
| 03 | 8.0 1.5 2.0 3.0 4.0 5.0 6.0 7.0 | XC VC C | UC UC XC XC XC | VC C C | UC UC UC UC XC | UC XC VG C C M | C M M | C M M | VC C M M M F |
| 04 | 8.0 1.5 2.0 3.0 4.0 5.0 6.0 7.0 | XC VC VC VC | UC UC XC XC | VC VC VC C | UC UC UC XC XC | UC XC VC C C | VC C M | C M M | VC VC C M M |
| 05 | 8.0 1.5 2.0 3.0 4.0 5.0 6.0 7.0 8.0 | XC XC XC VC VC | UC UC UC UC XC | C Data not available | UC UC UC UC VC XC | UC XC VC VC C M | Data not available | C C M | VC VC C C M M |

NOTE: SPRAY QUALITY DATA may appear finer than previous versions of this chart as manufacturers undertake new testing requirements. All data has been sourced from the manufacturer's websites as at May 2017 (date catalogue sourced from was published is listed in the chart), except for Agrotop TurboDrop TD (iso exit) and AirMix® which were sourced from Nufarm SprayWise Publications, published 2012. ? = data not published. Always check current spray quality information according to ASABE 572.1 or BCPC for older data. Compiled and updated by bill.gordon@au.nufarm.com 0418 794 514

| | | | L/ | HA A | T VARI | OUS SI | PEEDS | (KM/H | IR) BAS | SED ON | I A 50 | CM NC | ZZLE | SPACIN | IG | |
|------------------------|--------------|-----|--------------|-------------|--------|-------------|-------|-------|---------|--------|--------|-------|------|--------|-----|------------|
| | | BAR | L/min/nozzle | 4 | 6 | 8 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| | | 1.5 | 0.28 | 84 | 56 | 42 | 33 | 30 | 28 | 26 | 24 | 22 | 21 | 20 | 19 | 18 |
| 1 | | 2.0 | 0.32 | 97 | 64 | 48 | 39 | 35 | 32 | 30 | 28 | 26 | 24 | 23 | 21 | 20 |
| 1 | | 3.0 | 0.40 | 119 | 79 | 59 | 47 | 43 | 40 | 36 | 34 | 32 | 30 | 28 | 26 | 25 |
| | 01 | 4.0 | 0.46 | 13 <i>7</i> | 91 | 68 | 55 | 50 | 46 | 42 | 39 | 36 | 34 | 32 | 30 | 29 |
| 1 | Orange | 5.0 | 0.51 | 153 | 102 | 77 | 61 | 56 | 51 | 47 | 44 | 41 | 38 | 36 | 34 | 32 |
| 1 | o . ugo | 6.0 | 0.56 | 167 | 112 | 84 | 67 | 61 | 56 | 52 | 48 | 45 | 42 | 39 | 37 | 35 |
| 1 | | 7.0 | 0.60 | 181 | 121 | 90 | 72 | 66 | 60 | 56 | 52 | 48 | 45 | 43 | 40 | 38 |
| 1 | | 8.0 | 0.65 | 194 | 129 | 97 | 77 | 70 | 65 | 60 | 55 | 52 | 48 | 46 | 43 | 41 |
| 1 | | 1.5 | 0.42 | 126 | 84 | 63 | 50 | 46 | 42 | 39 | 36 | 34 | 32 | 30 | 28 | 27 |
| | | 2.0 | 0.42 | 145 | 97 | 72 | 58 | 53 | 48 | 45 | 41 | 39 | 36 | 34 | 32 | 31 |
| 1 | | 3.0 | 0.40 | 178 | 118 | 89 | 71 | 65 | 59 | 55 | 51 | 47 | 44 | 42 | 39 | 37 |
| | 015 | | | | | | | | | | | | | | | |
| ١,, | 015 | 4.0 | 0.68 | 205 | 137 | 103 | 82 | 75 | 68 | 63 | 59 | 55 | 51 | 48 | 46 | 43 |
| ≝ | Green | 5.0 | 0.76 | 229 | 153 | 115 | 92 | 83 | 76 | 71 | 65 | 61 | 57 | 54 | 51 | 48 |
| ₽ | | 6.0 | 0.84 | 251 | 167 | 126 | 100 | 91 | 84 | 77 | 72 | 67 | 63 | 59 | 56 | 53 |
| QUALITIES | | 7.0 | 0.91 | 272 | 181 | 136 | 109 | 99 | 91 | 84 | 78 | 72 | 68 | 64 | 60 | 57 |
| \ A | | 8.0 | 0.96 | 287 | 191 | 144 | 115 | 104 | 96 | 88 | 82 | 77 | 72 | 68 | 64 | 60 |
| SPRAY | | 1.5 | 0.56 | 167 | 112 | 84 | 67 | 61 | 56 | 52 | 48 | 45 | 42 | 39 | 37 | 35 |
| S. | | 2.0 | 0.65 | 194 | 129 | 97 | 77 | 70 | 65 | 60 | 55 | 52 | 48 | 46 | 43 | 41 |
| 3 F. | | 3.0 | 0.79 | 237 | 158 | 119 | 95 | 86 | 79 | 73 | 68 | 63 | 59 | 56 | 53 | 50 |
| Ž | 02 | 4.0 | 0.91 | 274 | 182 | 13 <i>7</i> | 109 | 100 | 91 | 84 | 78 | 73 | 68 | 64 | 61 | 58 |
| CODING | Yellow | 5.0 | 1.02 | 306 | 204 | 153 | 122 | 111 | 102 | 94 | 87 | 82 | 76 | 72 | 68 | 64 |
| | | 6.0 | 1.12 | 335 | 223 | 168 | 134 | 122 | 112 | 103 | 96 | 89 | 84 | 79 | 74 | 71 |
| COLOUR | | 7.0 | 1.21 | 362 | 241 | 181 | 145 | 132 | 121 | 111 | 103 | 96 | 90 | 85 | 80 | 76 |
| 8 | | 8.0 | 1.29 | 387 | 258 | 193 | 155 | 141 | 129 | 119 | 110 | 103 | 97 | 91 | 86 | 81 |
| | | 1.5 | 0.70 | 209 | 140 | 105 | 84 | 76 | 70 | 64 | 60 | 56 | 52 | 49 | 47 | 44 |
| 8 | | 2.0 | 0.81 | 242 | 161 | 121 | 97 | 88 | 81 | 74 | 69 | 64 | 60 | 57 | 54 | 51 |
| ΙĒ | | 3.0 | 0.99 | 296 | 197 | 148 | 118 | 108 | 99 | 91 | 85 | 79 | 74 | 70 | 66 | 62 |
| NOT RELATED TO | 025 | 4.0 | 1.14 | 342 | 228 | 171 | 137 | 124 | 114 | 105 | 98 | 91 | 86 | 80 | 76 | 72 |
| ļ | Lilac | 5.0 | 1.27 | 382 | 255 | 191 | 153 | 139 | 127 | 118 | 109 | 102 | 96 | 90 | 85 | 80 |
| ARE N | | 6.0 | 1.40 | 419 | 279 | 209 | 168 | 152 | 140 | 129 | 120 | 112 | 105 | 99 | 93 | 88 |
| N A | | 7.0 | 1.51 | 452 | 302 | 226 | 181 | 165 | 151 | 139 | 129 | 121 | 113 | 106 | 101 | 95 |
| SIZES | | 8.0 | 1.61 | 484 | 322 | 242 | 193 | 176 | 161 | 149 | 138 | 129 | 121 | 114 | 107 | 102 |
| N N | | 1.5 | 0.84 | 251 | 167 | 126 | 100 | 91 | 84 | 77 | 72 | 67 | 63 | 59 | 56 | 53 |
| NOZZLE | | 2.0 | 0.97 | 290 | 193 | 145 | 116 | 105 | 97 | 89 | 83 | 77 | 73 | 68 | 64 | 61 |
| 9 | | 3.0 | 1.18 | 355 | 237 | 178 | 142 | 129 | 118 | 109 | 101 | 95 | 89 | 84 | 79 | 75 |
| ~ | 03 | 4.0 | 1.37 | 410 | 273 | 205 | 164 | 149 | 137 | 126 | 117 | 109 | 103 | 96 | 91 | 86 |
| 3 F. | Blue | 5.0 | 1.53 | 459 | 306 | 229 | 183 | 167 | 153 | 141 | 131 | 122 | 115 | 108 | 102 | 97 |
| Ž | | 6.0 | 1.68 | 503 | 335 | 251 | 201 | 183 | 168 | 155 | 144 | 134 | 126 | 118 | 112 | 106 |
| Ö | | 7.0 | 1.81 | 543 | 362 | 271 | 217 | 197 | 181 | 167 | 155 | 145 | 136 | 128 | 121 | 114 |
| JR C | | 8.0 | 1.93 | 580 | 387 | 290 | 232 | 211 | 193 | 179 | 166 | 155 | 145 | 137 | 129 | 122 |
| NOTE: COLOUR CODING FO | | 1.5 | 1.12 | 335 | 223 | 168 | 134 | 122 | 112 | 103 | 96 | 89 | 84 | 79 | 74 | <i>7</i> 1 |
| 8 | | 2.0 | 1.29 | 387 | 258 | 193 | 155 | 141 | 129 | 119 | 110 | 103 | 97 | 91 | 86 | 81 |
| Ë | | 3.0 | 1.58 | 474 | 316 | 237 | 189 | 172 | 158 | 146 | 135 | 126 | 118 | 111 | 105 | 100 |
| 2 | 04 | 4.0 | 1.82 | 547 | 365 | 273 | 219 | 199 | 182 | 168 | 156 | 146 | 137 | 129 | 122 | 115 |
| | Red | 5.0 | 2.04 | 612 | 408 | 306 | 245 | 222 | 204 | 188 | 175 | 163 | 153 | 144 | 136 | 129 |
| | Red | 6.0 | 2.23 | 670 | 447 | 335 | 268 | 244 | 223 | 206 | 191 | 179 | 167 | 158 | 149 | 141 |
| | | 7.0 | 2.41 | 724 | 482 | 362 | 289 | 263 | 241 | 223 | 207 | 193 | 181 | 170 | 161 | 152 |
| | | 8.0 | 2.58 | 774 | 516 | 387 | 309 | 281 | 258 | 238 | 221 | 206 | 193 | 182 | 172 | 163 |
| | | 1.5 | 1.40 | 419 | 279 | 209 | 168 | 152 | 140 | 129 | 120 | 112 | 105 | 99 | 93 | 88 |
| | | 2.0 | 1.61 | 484 | 322 | 242 | 193 | 176 | 161 | 149 | 138 | 129 | 121 | 114 | 107 | 102 |
| | | 3.0 | 1.97 | 592 | 395 | 296 | 237 | 215 | 197 | 182 | 169 | 158 | 148 | 139 | 132 | 102 |
| | 0.5 | | | | | | | | | | | | | | | |
| | 05 Proven | 4.0 | 2.28 | 684 | 456 | 342 | 273 | 249 | 228 | 210 | 195 | 182 | 171 | 161 | 152 | 144 |
| | Brown | 5.0 | 2.55 | 764 | 510 | 382 | 306 | 278 | 255 | 235 | 218 | 204 | 191 | 180 | 170 | 161 |
| | | 6.0 | 2.79 | 837 | 558 | 419 | 335 | 304 | 279 | 258 | 239 | 223 | 209 | 197 | 186 | 176 |
| | | 7.0 | 3.02 | 905 | 603 | 452 | 362 | 329 | 302 | 278 | 258 | 241 | 226 | 213 | 201 | 190 |
| Щ | | 8.0 | 3.22 | 967 | 645 | 483 | 387 | 352 | 322 | 298 | 276 | 258 | 242 | 228 | 215 | 204 |

| | | | L/ | /HA | AT V | ARIO | US SP | EEDS | (KM/ | HR) E | BASED | ON | A 500 | M N | OZZL | E SPA | CING | | |
|---------------------------------|---------|-----|--------------|-----|------|------|------------|------|------|-------|-------|-----|----------|-----|------|-------|------|-----|----|
| | | BAR | L/min/nozzle | | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 32 | 34 | 36 | 38 | 40 |
| | | 1.5 | 0.28 | 17 | 16 | 15 | 15 | 14 | 13 | 13 | 12 | 12 | 12 | 11 | 10 | 10 | 9 | 9 | 8 |
| | | 2.0 | 0.32 | 19 | 18 | 18 | 1 <i>7</i> | 16 | 15 | 15 | 14 | 14 | 13 | 13 | 12 | 11 | 11 | 10 | 10 |
| | | 3.0 | 0.40 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 18 | 17 | 16 | 16 | 15 | 14 | 13 | 12 | 12 |
| | 01 | 4.0 | 0.46 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 14 |
| | Orange | 5.0 | 0.51 | 31 | 29 | 28 | 27 | 26 | 24 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 | 15 |
| | Ordinge | 6.0 | 0.56 | 33 | 32 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 |
| | | 7.0 | 0.60 | 36 | 34 | 33 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 21 | 20 | 19 | 18 |
| | | 8.0 | 0.65 | 39 | 37 | 35 | 34 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 24 | 23 | 22 | 20 | 19 |
| | | | | _ | | | | | | | _ | | | | | | | | |
| | | 1.5 | 0.42 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 19 | 18 | 17 | 17 | 16 | 15 | 14 | 13 | 13 |
| | | 2.0 | 0.48 | 29 | 28 | 26 | 25 | 24 | 23 | 22 | 21 | 21 | 20 | 19 | 18 | 17 | 16 | 15 | 14 |
| | | 3.0 | 0.59 | 36 | 34 | 32 | 31 | 30 | 28 | 27 | 26 | 25 | 24 | 24 | 22 | 21 | 20 | 19 | 18 |
| | 015 | 4.0 | 0.68 | 41 | 39 | 37 | 36 | 34 | 33 | 32 | 30 | 29 | 28 | 27 | 26 | 24 | 23 | 22 | 21 |
| TES | Green | 5.0 | 0.76 | 46 | 44 | 42 | 40 | 38 | 37 | 35 | 34 | 33 | 32 | 31 | 29 | 27 | 25 | 24 | 23 |
| 15 | | 6.0 | 0.84 | 50 | 48 | 46 | 44 | 42 | 40 | 39 | 37 | 36 | 35 | 33 | 31 | 30 | 28 | 26 | 25 |
| 12 | | 7.0 | 0.91 | 54 | 52 | 49 | 47 | 45 | 43 | 42 | 40 | 39 | 37 | 36 | 34 | 32 | 30 | 29 | 27 |
| FOR SPRAY QUALITIES | | 8.0 | 0.96 | 57 | 55 | 52 | 50 | 48 | 46 | 44 | 43 | 41 | 40 | 38 | 36 | 34 | 32 | 30 | 29 |
| PR/ | | 1.5 | 0.56 | 33 | 32 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 |
| R S | | 2.0 | 0.65 | 39 | 37 | 35 | 34 | 32 | 31 | 30 | 29 | 28 | 27 | 26 | 24 | 23 | 22 | 20 | 19 |
| | | 3.0 | 0.79 | 47 | 45 | 43 | 41 | 40 | 38 | 36 | 35 | 34 | 33 | 32 | 30 | 28 | 26 | 25 | 24 |
| COLOUR CODING | 02 | 4.0 | 0.91 | 55 | 52 | 50 | 48 | 46 | 44 | 42 | 41 | 39 | 38 | 36 | 34 | 32 | 30 | 29 | 27 |
| | Yellow | 5.0 | 1.02 | 61 | 58 | 56 | 53 | 51 | 49 | 47 | 45 | 44 | 42 | 41 | 38 | 36 | 34 | 32 | 31 |
| ŏ | | 6.0 | 1.12 | 67 | 64 | 61 | 58 | 56 | 54 | 52 | 50 | 48 | 46 | 45 | 42 | 39 | 37 | 35 | 34 |
| Į Ž | | 7.0 | 1.21 | 72 | 69 | 66 | 63 | 60 | 58 | 56 | 54 | 52 | 50 | 48 | 45 | 43 | 40 | 38 | 36 |
| 06 | | 8.0 | 1.29 | 77 | 74 | 70 | 67 | 64 | 62 | 59 | 57 | 55 | 53 | 52 | 48 | 45 | 43 | 41 | 39 |
| 0 | | 1.5 | 0.70 | 42 | 40 | 38 | 36 | 35 | 34 | 32 | 31 | 30 | 29 | 28 | 26 | 25 | 23 | 22 | 21 |
| D T | | 2.0 | 0.81 | 48 | 46 | 44 | 42 | 40 | 39 | 37 | 36 | 35 | 33 | 32 | 30 | 28 | 27 | 25 | 24 |
| ATE | | 3.0 | 0.99 | 59 | 56 | 54 | 51 | 49 | 47 | 46 | 44 | 42 | 41 | 39 | 37 | 35 | 33 | 31 | 30 |
| ZEL/ | 025 | 4.0 | 1.14 | 68 | 65 | 62 | 59 | 57 | 55 | 53 | 51 | 49 | 47 | 46 | 43 | 40 | 38 | 36 | 34 |
| 1 2 | Lilac | 5.0 | 1.14 | 76 | 73 | 69 | 66 | 64 | 61 | 59 | 57 | 55 | 53 | 51 | 48 | 45 | 42 | 40 | 38 |
| Ž | LIIUC | 6.0 | 1.40 | 84 | 80 | 76 | 73 | 70 | 67 | 64 | 62 | 60 | 58 | 56 | 52 | 49 | 47 | 44 | 42 |
| ARE | | | | | | | 79 | 75 | | 70 | | | | | | | | | |
| NOZZLE SIZES ARE NOT RELATED TO | | 7.0 | 1.51 | 90 | 86 | 82 | 84 | | 72 | | 67 | 65 | 62 67 | 60 | 57 | 53 | 50 | 48 | 45 |
| SIZ | | 8.0 | 1.61 | | 92 | 88 | - | 81 | 77 | 74 | 72 | 69 | | 64 | 60 | 57 | 54 | 51 | 48 |
| ZLE | | 1.5 | 0.84 | 50 | 48 | 46 | 44 | 42 | 40 | 39 | 37 | 36 | 35 | 33 | 31 | 30 | 28 | 26 | 25 |
| OZ | | 2.0 | 0.97 | 58 | 55 | 53 | 50 | 48 | 46 | 45 | 43 | 41 | 40 | 39 | 36 | 34 | 32 | 31 | 29 |
| Ž | | 3.0 | 1.18 | 71 | 68 | 65 | 62 | 59 | 57 | 55 | 53 | 51 | 49 | 47 | 44 | 42 | 39 | 37 | 36 |
| [| 03 | 4.0 | 1.37 | 82 | 78 | 75 | 71 | 68 | 66 | 63 | 61 | 59 | 57 | 55 | 51 | 48 | 46 | 43 | 41 |
| 9 | Blue | 5.0 | 1.53 | 92 | 87 | 83 | 80 | 76 | 73 | 71 | 68 | 66 | 63 | 61 | 57 | 54 | 51 | 48 | 46 |
| Ž | | 6.0 | 1.68 | 101 | 96 | 91 | 87 | 84 | 80 | 77 | 74 | 72 | 69 | 67 | 63 | 59 | 56 | 53 | 50 |
| NOTE: COLOUR CODING FOR | | 7.0 | 1.81 | 109 | 103 | 99 | 94 | 90 | 87 | 83 | 80 | 78 | 75 | 72 | 68 | 64 | 60 | 57 | 54 |
| Ž | | 8.0 | 1.93 | 116 | 111 | 105 | 101 | 97 | 93 | 89 | 86 | 83 | 80 | 77 | 73 | 68 | 64 | 61 | 58 |
| 70 | | 1.5 | 1.12 | 67 | 64 | 61 | 58 | 56 | 54 | 52 | 50 | 48 | 46 | 45 | 42 | 39 | 37 | 35 | 34 |
| ا ت | | 2.0 | 1.29 | 77 | 74 | 70 | 67 | 64 | 62 | 59 | 57 | 55 | 53 | 52 | 48 | 45 | 43 | 41 | 39 |
|)TE | | 3.0 | 1.58 | 95 | 90 | 86 | 82 | 79 | 76 | 73 | 70 | 68 | 65 | 63 | 59 | 56 | 53 | 50 | 47 |
| Ž | 04 | 4.0 | 1.82 | 109 | 104 | 99 | 95 | 91 | 88 | 84 | 81 | 78 | 75 | 73 | 68 | 64 | 61 | 58 | 55 |
| | Red | 5.0 | 2.04 | 122 | 117 | 111 | 106 | 102 | 98 | 94 | 91 | 87 | 84 | 82 | 76 | 72 | 68 | 64 | 61 |
| | | 6.0 | 2.23 | 134 | 128 | 122 | 117 | 112 | 107 | 103 | 99 | 96 | 92 | 89 | 84 | 79 | 74 | 71 | 67 |
| | | 7.0 | 2.41 | 145 | 138 | 132 | 126 | 121 | 116 | 111 | 107 | 103 | 100 | 96 | 90 | 85 | 80 | 76 | 72 |
| | | 8.0 | 2.58 | 155 | 147 | 141 | 135 | 129 | 124 | 119 | 115 | 111 | 107 | 103 | 97 | 91 | 86 | 81 | 77 |
| | | 1.5 | 1.40 | 84 | 80 | 76 | 73 | 70 | 67 | 64 | 62 | 60 | 58 | 56 | 52 | 49 | 47 | 44 | 42 |
| | | 2.0 | 1.61 | 97 | 92 | 88 | 84 | 81 | 77 | 74 | 72 | 69 | 67 | 64 | 60 | 57 | 54 | 51 | 48 |
| | | 3.0 | 1.97 | 118 | 113 | 108 | 103 | 99 | 95 | 91 | 88 | 85 | 82 | 79 | 74 | 70 | 66 | 62 | 59 |
| | 05 | 4.0 | 2.28 | 137 | 130 | 124 | 119 | 114 | 109 | 105 | 101 | 98 | 94 | 91 | 85 | 80 | 76 | 72 | 68 |
| | Brown | 5.0 | 2.55 | 153 | 146 | 139 | 133 | 127 | 122 | 118 | 113 | 109 | 105 | 102 | 96 | 90 | 85 | 80 | 76 |
| | DIOWII | 6.0 | 2.79 | 167 | 159 | 152 | 146 | 140 | 134 | 129 | 124 | 120 | 115 | 112 | 105 | 99 | 93 | 88 | 84 |
| | | 7.0 | 3.02 | 181 | 172 | 164 | 157 | 151 | 145 | 139 | 134 | 120 | 125 | 121 | 113 | 106 | 101 | 95 | 90 |
| | | | | | | | | | | | | | | | | | | | |
| Ш | | 8.0 | 3.22 | 193 | 184 | 176 | 168 | 161 | 155 | 149 | 143 | 138 | 133 | 129 | 121 | 114 | 107 | 102 | 97 |

AGROTOP NOZZLE SELECTION

| | LOW PRESSURE AIR-INDUCTION NOZZLES | LOW PRESSU | JRE NOZZLES |
|-------------------------------|--|---|--|
| | AIRMIX® | TURBODROP CERAMIC | TURBODROP XL (D) |
| NOZZLE OPTIONS | NO. 1 SELLER | | |
| KEY INFORMATION | PRESSURE RANGE 10 1-6 BAR 100 110° Ideal pressure range: 1-6 Bar Uses: weed control and plant health Up to 90% drift reduction | PRESSURE RANGE 2 4 6 B 1 10 2-10 BAR 110° Ideal pressure range: 4-8 Bar Uses: weed control, plant health and liquid fertilisers Up to 95% drift reduction | PRESSURE RANGE 10 1-8 BAR 110° Ideal pressure range: 2-4 Bar Uses: weed control, plant health and liquid fertilisers Up to 90% drift reduction |
| KEY BENEFITS | Excellent value Proven performer Predominantly Coarse-Medium droplets for good coverage Compact design Protected air inlets to avoid blockage Two-piece for easy cleaning, no seals Also available as an off-centre nozzle | ✓ Ceramic injector orifice and exit nozzle ✓ Small droplet size variation over pressure range ✓ Up to three times the life of polyacetal nozzles ✓ Two-piece for easy disassembly ✓ Excellent penetration using high pressure | ✓ Variable droplet spectra from coarse to fine as pressure increases ✓ Excellent drift reduction at lower pressures ✓ Two-piece for easy disassembly |
| SPRAY QUALITY | | See pages 76–77 | |
| AVAILABLE SIZES | 01 to 06 | 01 to 10 | 01 to 08 |
| ORDER CODE | TDAM-110*** | TDCFFC1100*** | TD-XLD*** |
| | | *** Denotes nozzle size (i.e. 015, 02, 025, 03 etc) | |
| SINGLE NOZZLE PRICE | \$ (EX. GST) 11.00 | \$ (EX. GST) 23.90 | \$ (EX. GST) 15.90 |
| SINGLE NOZZLE PRICE | \$ (INC. GST) 12.22 | \$ (INC. GST) 26.60 | \$ (INC. GST) 17.65 |
| PROD. CAT. | Z | Y | Υ |
| 10 PACK AirMix® nozzles – | \$ (EX. GST) 105.25 | | |
| sizes 015 to 04 | \$ (INC. GST) 116.95 | | |
| ORDER CODE | PR**-TDAM | | |
| | ** Denotes size: 10 = 015, 11 = 02, 12 = 03, 13 = 04, 14 = 025 | , NA | NA |
| 100 PACK AirMix® nozzles – | \$ (EX. GST) 1004.80 | IVA | IVA |
| sizes 015 to 04 | \$ (INC. GST) 1116.45 | | |
| ORDER CODE | PR**-TDAM100 ** Denotes size: 10 = 015, 11 = 02, 12 = 03, 13 = 04, 14 = 025 | | |

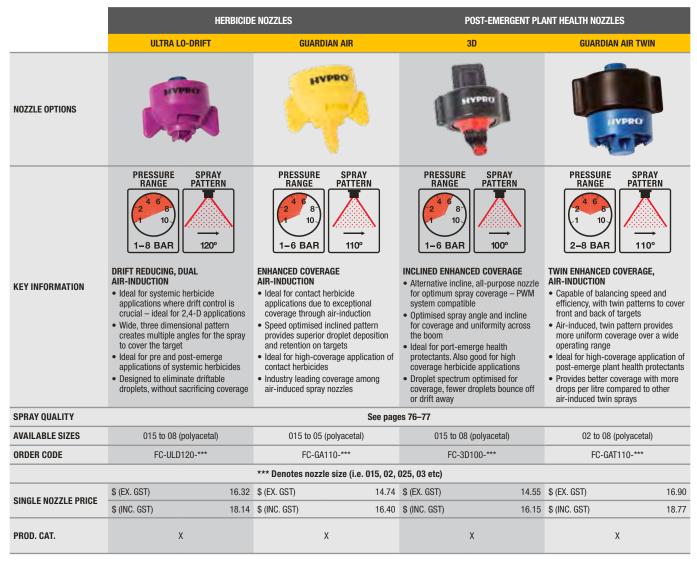


ALBUZ NOZZLE SELECTION

| | LOW PRESSURE AIR-INDUCTION NOZZLES | LOW PRESSURE NOZZLES | PRE-ORIFICE NOZZLE | DUAL ANGLE NOZZLE |
|---------------------|---|--|---|---|
| | CVI | AVI | ADI | CVI-TWIN |
| NOZZLE OPTIONS | (Alama) | 1100 | | |
| | PRESSURE RANGE 1-4 BAR 10 1-4 BAR 10 80° & 110° 10eal pressure range: 1.5–3 Bar Uses: weed control and plant health Up to 90% drift reduction | PRESSURE RANGE SPRAY PATTERN 3-5 BAR 80° & 110° • Ideal pressure range: 3-3.5 Bar • Uses: weed control, plant health and liquid fertilisers • Up to 95% drift reduction | PRESSURE RANGE SPRAY PATTERN 2-4 BAR 110° • Ideal pressure range: 2-3 Bar • Uses: weed control and plant health • Reduces fine droplets by 50% | PRESSURE RANGE SPRAY PATTERN 10 1-4 BAR 110° • Ideal pressure range: 2 Bar • Uses: contact and systemic products |
| KEY BENEFITS | Pink ceramic orifice for long life and precise spray quality Predominantly Very Coarse to Coarse Available in 80° and 110° Anti-clogging design and protected double air-intake orifice Compact design Also available as an off-centre nozzle | Y Pink ceramic orifice for excellent wear and spray precision Anti-clogging design and double air-intake orifice Available in 80° and 110° Also available as an off-centre nozzle and as a twin nozzle | Pink ceramic orifice for excellent wear and spray precision Compact design, easy to dismantle and clean Excellent coverage potential for selected use and the right spraying conditions | Pink ceramic orifice for long life and precise spray quality The inclination of the jets improves the penetration into the vegetation Air-induction nozzle Angle between the jets 65° |
| SPRAY QUALITY | | See pag | es 76–77 | |
| AVAILABLE SIZES | 015 to 05 | 01 to 10 | 01 to 04 | 015 to 05 |
| ORDER CODE | AZ-CVI-110*** (110°) AZ-CVI-80*** (80°) | AZ-AVI-***-110C (110°) AZ-AVI-***-80C (80°) | AZ-ADI-***-110C | AZ-CVIT-110*** |
| | | *** Denotes nozzle size | (i.e. 015, 02, 025, 03 etc) | |
| SINGLE NOZZLE PRICE | \$ (EX. GST) 24.90 | \$ (EX. GST) 24.90 | \$ (EX. GST) 11.48 | \$ (EX. GST) 30.62 |
| | A (INC. 00T) | ₾ (INO_CCT) 07.05 | ¢ (INC CCT) 10.75 | \$ (INC. GST) 32.25 |
| | \$ (INC. GST) 27.65 | \$ (INC. GST) 27.65 | \$ (INC. GST) 12.75 | \$ (INC. GST) 32.25 |

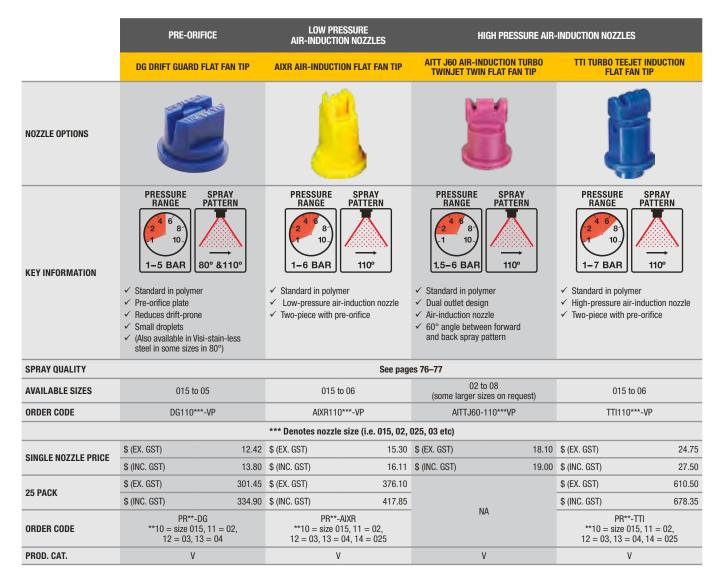


HYPRO NOZZLE SELECTION





TEEJET NOZZLE SELECTION





NOZZLE CAPS CAP COLOUR OPTIONS



Quick TeeJet Cap



Quick

TeeJet

CP19438-EPR
(EPDM Standard)
CP19438-VI
(Viton Optional Standard)

Cap Seal (Vitori Optionial Standard)

1 2 3 4 5 6 7 8 10

Black White Red Blue Green Yellow Brown Orange Lilac

| CAP | NOZZLES/SEALS TO SUIT CAPS | ORDER CODE *Denotes colour code as shown above – not all colours may be available. | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|---------------------|--|--|---|--------------|---------------|------------|
| ∞ • 8 | AirMix® TeeJet XR, DG, TT, AIXR | 114441-*-CELR | Cap and seat gasket set | 2.53 | 2.81 | V |
| | (smaller capacities to size 08) • ALBUZ AXI, ADI, CVI, CVI TWIN, CVI 80 | PR20-* | Pack of 10 caps and seats | 22.01 | 24.46 | V |
| | a Cool for use with personal | CP19438-EPR | Seal for nozzle caps, EPDM | 1.24 | 1.38 | V |
| | Seal for use with nozzle caps | PR60 | Pack of 10 seals for nozzle caps | 13.21 | 14.68 | V |
| | Seal for use with nozzle caps | CP19438-VI | Seal for nozzle caps, Viton | 5.36 | 5.96 | ٧ |
| | TeeJet XR, DG, TT and AIXR flat spray tips (for sizes 10 to 20) | 25610-*-NYR | Cap and seat gasket set | 2.97 | 3.30 | V |
| | TeeJet flat spray tips (smaller capacities) – see above. Tips can be positioned in choice of 2 spray plane directions: parallel or perpendicular to wings of Quick TeeJet cap | 25596-*-NYR | Cap and seat gasket set | 2.97 | 3.30 | V |
| | TJ TwinJet / TJ60-Spray Tip / ALBUZ AVI, AVI TWIN, ESI, EXA, AIUB TeeJet / TTI Air- induction Turbo TeeJet SJ3 StreamJet | 114443-*-CELR | Cap and seat gasket set | 2.89 | 3.22 | V |
| | TF-VS Turbo FloodJet / TK-VS FloodJet | 25600-*-NYR | Cap and seat gasket set | 2.97 | 3.30 | V |
| | TK FloodJet / FL FullJet / TX ConeJet / TG Full Cone | 114445-*-CELR | Cap and seat gasket set | 2.89 | 3.22 | V |
| | Ceramic Disc-Core/TXB ConeJet ALBUZ TVI, ATR | 26278-1-NYR | Cap and seat gasket set | 3.25 | 3.61 | V |
| 3 13 | For use with Hardi nozzle bodies TeeJet flat fan spray tips Turbo TeeJet spray tips AirMix® nozzles | 23306H-1-CELR | Cap and seat gasket for Hardi retro-fit cap to suit Hardi spray bodies. Available in black only | 3.06 | 3.40 | V |
| * | For use with Hardi nozzle bodies TJ TwinJet Al TeeJet, AIUB TeeJet spray tips flat TTI Air-induction Turbo TeeJet | 21398H-1-CELR | Cap and seat gasket for Hardi retro-fit cap to suit Hardi spray bodies. Available in black only | 3.06 | 3.40 | V |

| | ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|---|-----------------|---|--------------|---------------|------------|
| | CP1325 | TeeJet® brass 11/16" threaded cap | 3.44 | 3.82 | V |
| | CP8027-NYB | TeeJet® nylon 11/16" threaded cap | 1.92 | 2.13 | V |
| | CP8027-1-NYB | TeeJet® nylon 11/16" threaded cap, extra long | 2.48 | 2.76 | V |
| | CP3942 | TeeJet® brass blanking plug | 1.15 | 1.28 | V |
| • | 19843-NYR | Blanking cap with seal, black only | 4.88 | 5.43 | V |
| ス | QJ90-2-NYR | Twin-cap quick adaptor with seal | 9.66 | 10.74 | V |
| • | QJ4676-1/4-NYR | QJ adaptor cap comes with gasket and ¼" female thread | 5.74 | 6.37 | V |
| | QJ4676-90-1/4-N | QJ adaptor cap, 90°, comes with gasket and 1/4" female thread | 9.66 | 10.74 | ٧ |



NOZZLE BODIES

| ORDER CODE | DESCRIPTION | REPLACES | FEATURES | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|--|---|--|---|--------------|---------------|------------|
| 4221N-B122 4221N-B123 | PROFLO ½" single drop nozzle body for wet boom | TeeJet: QJ17560A-1/2-NYB ARAG: 402745 | Low pressure drop at any given flow rate Unique check valve design reduces restrictions – supports faster field speeds and direct fertiliser applications | 8.61 | 9.57 | V |
| | PROFLO ¾" single drop nozzle body for wet boom | TeeJet: QJ17560A-3/4-NYB ARAG: 402755 | Bayonet attachment for correct flat fan nozzle alignment Compact design – less interference with boom structures 10mm nib 20 Bar rated | 8.61 | 9.57 | V |
| 4243N-B322 4243N-B323 4243N-B324 | PROFLO ½" triple drop nozzle body for wet boom | TeeJet: QJ363C-1/2-NYB | Tab for boom clamp provided Low pressure drop at any given flow rate Unique check valve design reduces restrictions — | 39.23 | 43.59 | V |
| P | PROFLO ¾" triple drop nozzle body for wet boom | TeeJet: QJ363C-3/4-NYB | supports faster field speeds and direct fertiliser applications Turret-indexing design eliminates seizing issues common on other types | 46.89 | 52.11 | V |
| | PROFLO 1" triple drop nozzle body for wet boom | TeeJet: QJ363C-1-NYB | Bayonet attachment for correct flat fan nozzle alignment Compact design 10mm nib 20 Bar rated | 46.89 | 52.11 | V |
| 24216-1/2-NYB | Compact triple nozzle body | for wet booms – ½" | Vertical turret for use in situations where space is an issue | 52.82 | 58.69 | V |
| 24216-3/4-NYB | Compact triple nozzle body | for wet booms – ¾" | Vertical turret for use in situations where space is an issue. (Also available in 1") | 52.82 | 58.69 | V |
| A402735 | Single drop nozzle body for | wet boom – 7mm nib | Hinged clamp single nozzle body with diaphragm check valve for quick connect caps with 7mm nib – suits MBX and MAX series manual fold booms | 9.13 | 10.14 | Y |
| QJ39685-2-500-N | Dry boom nozzle body – ½' | tee type | Dry boom nozzle body with diaphragm check valve for quick connect caps – tee type | 14.36 | 15.95 | V |
| QJ39685-1L-500N | Dry boom nozzle body – ½' | left elbow | Dry boom nozzle body with diaphragm check valve for quick connect caps – left elbow for boom end | 14.36 | 15.95 | V |
| QJ39685-1R-500N | Dry boom nozzle body – ½' | right elbow | Dry boom nozzle body with diaphragm check valve for quick connect caps – right elbow for boom end | 14.36 | 15.95 | V |
| B716.617.2 | Brass roll-over nozzle body | | High pressure roll-over nozzle body with non- drip diaphragm check valve – comes with 2 caps (no nozzles supplied). For more information on horticultural nozzle holders, see page 96 | 43.06 | 47.85 | Y |

NOZZLE FILTERS

| | ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|-----------|----------------|--|--------------|---------------|------------|
| | 8079-PP-* | TeeJet® polypropylene strainer, *50, *80 or *100 mesh screen | 3.06 | 3.40 | V |
| - | PR51 | Pack of 10 x 8079-PP-50 strainers | 29.28 | 32.54 | V |
| 25 | PR52 | Pack of 10 x 8079-PP-100 strainers | 29.28 | 32.54 | V |
| | 4193A-PP-5-*SS | TeeJet® polypropylene strainer with check valve for 5 psi, *50 or *100 mesh screen | 9.28 | 10.32 | V |
| A | 4193A-5-*SS | TeeJet® brass strainer with check valve for 5 psi, *50 or *100 mesh screen | 12.63 | 14.04 | V |
| | 4067-SS-* | TeeJet® cup strainer, *50 or *100 mesh screen | 3.93 | 4.36 | V |
| | 4514-NY-* | TeeJet® nylon slotted strainer, for suspended solids, *10, *20 and *32 | 3.25 | 3.61 | V |

TIPS FOR SELECTING NOZZLES - BROADACRE

Often a single nozzle will not be able to do all of the spray tasks that the operator may require, however with at least two well chosen nozzles most operations should be able to be completed.

It is useful for applicators to consider the range of jobs they may do throughout the season, and group similar jobs by application volume and spray quality required. The diagram below summarises this for either high or low volume applications, with either a coarse or larger spray quality or a medium spray quality.

SUGGESTED SPRAY QUALITY AND APPLICATION VOLUMES FOR A RANGE OF SPRAYING SITUATIONS

| TYPICAL APPLICATION VOLUME | MEDIUM SPRAY QUALITY (LOWER DRIFT RISK AREAS) | COARSE SPRAY QUALITY | EXTREMELY COARSE SPRAY QUALITY (HIGHER DRIFT RISK AREAS) |
|--|---|--|---|
| LOWER RANGE 50-60 L/ha (low stubble load) to 70-80 L/ha (high stubble load) | *Only where permitted on label Fully translocated herbicides Small to medium sized targets | Fallow spraying with fully translocated herbicides such as Glyphosate and Group I products, 2,4-D and other group/products | Fully translocated herbicides Medium sized targets, water soluble pre-emergent herbicides Very sensitive areas or NIGHT SPRAYING |
| HIGHER RANGE 70-80 L/ha (low stubble load) to 100 + L/ha (high stubble load/dense crop canopy) | *Only where permitted on label Contact type products. Small, vertical targets In crop spraying of fungicides and insecticides Retention and coverage on large cereal crops and hard to wet leaf surfaces Requires good conditions for spraying and reasonable buffers to mitigate spray drift risk Penetration and coverage in large and broadleaf crops | Good stubble penetration Pre-emergents Fully Translocated herbicides Contact herbicides onto moderate sized targets Translocated products onto hard to wet surfaces at the higher application volumes Penetration through large cereal crops. Reasonable retention on large, easy to wet broadleaf crops | Pre-emergents Medium sized targets with fully translocated summer fallow herbicides Very sensitive areas or NIGHT SPRAYING (no inversion) |

In the above example a low pressure air-induction, such as an AirMix® nozzle, may do jobs indicated by the BLUE arrow, whereas a high pressure air-induction may be required, such as a TurboDrop or TeeJet TTI, to complete jobs indicated by the RED arrows.

APPLICATORS SHOULD ALWAYS REFER TO THE LABEL TO CONFIRM THE SPRAY QUALITY AND APPLICATION VOLUME REQUIREMENTS FOR EACH.





SPRAYING IN STUBBLE

Stubble retention is an important strategy for conserving soil moisture. When combined with narrower row spacings or increased harvest heights, the remaining stubble can present a challenge to gaining effective spray coverage onto the soil or onto weeds in fallow and in crop.

To optimise spray coverage in the lower parts of the stubble and onto the soil it may be useful for the applicator to use water sensitive paper (WSP) to determine where the droplets are landing.

Spray coverage can be assessed by measuring the percentage of the WSP that is covered by using the SNAPCARD APP which is free to download.



The SNAPCARD APP allows the cards to be photographed and coverage to be measured.

SPRAYING SMALL TARGETS

In broadacre spraying the applicator can adjust the spray coverage by changing droplet size and/or the water volume. The ability to hit small targets can be increased with higher water volumes or by producing more droplets, such as a medium spray quality versus a coarse (where permitted on label). If only few droplets hit a target, then using robust product rates increase the likelihood of delivering the lethal dose. In general, if coverage on small targets critical for the mode of action, such as contact herbicides, then increasing the water rate is more efficient than using smaller droplets.

To optimise application when targeting small grasses it is advisable to increase water rates, regardless of the spray quality or chemistry.

If the water rate used is too low (50–70 L/ha) a MEDIUM spray quality is likely to be more successful than a COARSE spray quality – but only under ideal conditions. Adverse weather conditions, such as inappropriate wind speeds or heat, smaller droplets may reduce the overall level of control compared to that of a COARSE spray quality.

SUGGESTED SPRAY QUALITY AND APPLICATION VOLUMES FOR A RANGE OF SPRAYING SITUATIONS



70cm high, 'stripper front', 4.7 t/ha residue



<10cm high, <2.2 t/ha residue

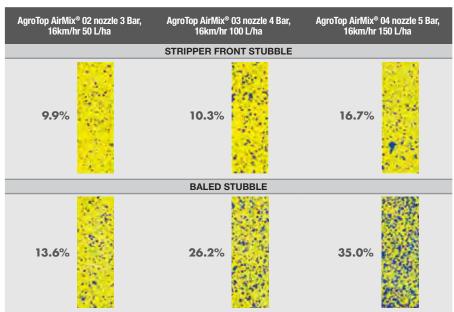


Table 1. Spray card analysis for stripper and baled stubble treatments, medium droplet size.

Information from the Hart field side group, trials on stubble penetration and pre-emergent efficacy (S.A. 2015–2016, funded by SAGIT) images by Dr Sarah Noack.

TOP TIPS

- Increase product rate
- Increase water volume
- Use a COARSE spray quality or larger
- Reduce spraying speeds
- Decrease fan angle in erected stubble
- Increase spray height in erected stubble (only with minimum COARSE spray quality)
- Consider 25cm nozzle spacings if your boom has this facility
- Consider using slower spraying speeds







Most robust results on small targets are generally achieved with water rates above 80 L/ha. Many trials over recent years indicate that control of even small grass targets, when using these water rates, is at least as reliable with a COARSE spray quality as it is with a FINE/MEDIUM spray quality.



THE FOLLOWING DIAGRAM INDICATES SUITABLE CONDITIONS FOR SPRAYING, BASED ON A 24 HOUR CYCLE.



Windspeeds must be **above 4 km/h** and **less than 15-20 km/h** (refer to label) blowing away from sensitive areas

Medium spray quality: Delta T: 2-10
Coarse spray quality: Delta T: 2-12

To start spraying, the sun should be about 20 degrees above the horizon, and wind speed and direction consistent for 30-40 minutes



Likely to be the best conditions for spraying



Windspeed should be **above 4-5km/h** after Sunrise to start spraying



Spraying can only occur if the operator can be certain that a surface temperature inversion is not present.

The safest option is not to spray during this period.



Plan NOT TO SPRAY during this period







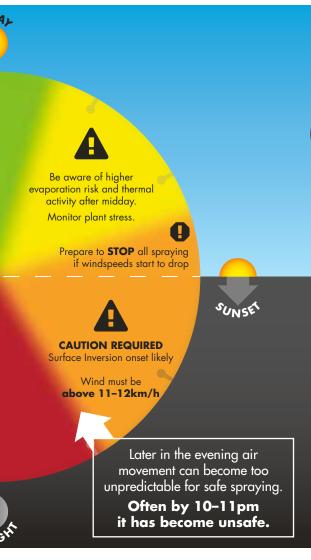
MANAGING AND MINIMISING THE POTENTIAL FOR SPRAY DRIFT TO OCCUR.

Spray drift is a major concern in all agricultural areas. The presence of sensitive areas located within close proximity to the spray target area introduces the possibility of off-target deposition. It is more important than ever that the agricultural industry demonstrates responsible chemical usage to reduce the need for severe application restrictions. For further information on chemical application or involvement in a SprayWise training course, please contact your local Nufarm or Croplands Territory Manager.

How the sprayer is set up and operated will determine how much of the applied product remains in the air, The conditions at the time of spraying and immediately afterwards will determine where the airborne product may move.

THE MAIN FACTORS THAT INFLUENCE THE RISK OF SPRAY DRIFT OCCURRING ARE:

- ✓ Conditions at the time of spraying
- √ Spray quality/nozzle choice
- √ Sensitivity of the target
- ✓ Product choice and rate (including water volume)
- √ Adjuvant choice
- √ Boom height
- √ Spraying speed





Monitor conditions closely

Consider using larger spray quality, higher water rates and managing evaporation with suitable adjuvants (ie. Collide, Activator)





Often spraying into the early evening is possible in summer when air movement has continued to mix the air and prevent a surface temperature inversion forming.



Pay very close attention to changes in wind speed and wind direction throughout the evening.

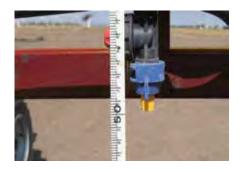
Only use XC or UC spray quality, reduce spraying speed and boom height to minimise risk of droplets remaining airborne.



PLAN

- Utilise tools such as spraywisedecisions.com.au to plan the most appropriate application windows
- Spraying in a cotton area? Check cottonmap.com.au for neighbouring fields prior to application
- Read the product label
- Communicate with neighbours
- Upskill yourself by attending a Nufarm SprayWise training course or one run by specialist application consultants





BOOM HEIGHT/FALSE TARGET

- Boom height needs to be adjusted to the height of the false target (stubble height) or the height of the target – whichever is greater
- Keep boom height to a minimum (i.e. 500mm above target/false target for 110° nozzles at 500mm nozzle spacing)
- Increasing the boom height from 500mm to 700mm may double the amount of driftable fines and a boom height increase from 500mm to 1,000mm multiplies them up to four times



SPRAY QUALITY

- A COARSE spray quality or larger must be used when applying Group I products – EXTREMELY COARSE may be warranted if night spraying
- Choose the nozzle producing the coarsest spray quality without compromising efficacy
- If needed, include drift-reducing adjuvants such as Collide 700, Activator or Bonza
- Use nozzles at appropriate pressure: conventional nozzles 1.5–3 Bar, pre-orifice nozzles 2–4 Bar, low pressure air-induction nozzles 3–5 Bar, high pressure air-induction nozzles 4–8 Bar

SELECTING THE RIGHT DELTA T CONDITIONS FOR SPRAYING

- preferred delta T conditions for spraying
- delta T conditions marginal
 - delta T conditions unsuitable for spraying
- Conditions are marginal for 'COARSE' or greater spray quality and unsuitable for 'MEDIUM' or finer spray quality.

100 90 delta T 80 value (°C) 70 Relative Humidity (%) 60 50 40 30 20 20 10 15 30 35 40 45 50 Dry Temperature °C

NEVER SPRAY DURING A LOW-LEVEL INVERSION





Droplet size classifications are based on BCPC specification and are in accordance with ASAE Standard S-572.

SprayWise®

SPRAY QUALITY

Systems of nozzle classification (BCPC, ASAE, and ASABE 572.1) have been developed around the world to unify and simplify the description of droplet size ranges that different nozzles produce. Accordingly nozzles can be classified as producing ULTRA COARSE, EXTREMELY COARSE, VERY COARSE, COARSE, MEDIUM, FINE and VERY FINE and ULTRA FINE spray qualities.

Applicators should be aware that spray quality information using ASABE S572.1 includes an adjuvant in the spray solution to better reflect actual tank mixes, other standards use water alone.

The spray quality a nozzle produces is very important. Generally, a MEDIUM spray quality will increase potential for coverage, but small droplets are very prone to drift and environmental loss (evaporation) especially in warm conditions. On the other hand, COARSE spray quality with larger droplets, particularly using pre-orifice or air-induction nozzles, will greatly reduce drift potential but may compromise coverage – especially on small targets using low spray application volume. Choosing the coarsest spray quality without compromising efficacy is the trick.

Refer to the information provided by the chemical manufacturer on their product label, or consult the Nufarm SprayWise Boom Spray Application Guide – available from Nufarm or Croplands. Croplands and Nufarm have selected the best nozzles from around the globe to help our farmers and growers maximise their results when spraying is necessary.



WIDE ANGLE FLAT SPRAY NOZZLE

Thanks to the exceptional wear resistance of ALBUZ® pink ceramic, these nozzles can be used to spray suspension fertilisers. Flat jet (30° to 165° angle) providing coarse droplets without drift.



^{***} Denotes sizes as follows:

AZ-MSI-025 = Lillac, AZ-MSI-03 = Blue, AZ-MSI-04 = Red, AZ-MSI-05 = Brown, AZ-MSI-06 = Grey, AZ-MSI-08 = White, AZ-MSI-10 = Light Blue, AZ-MSI-15 = Light Green

| | | | | FLOW F | RATE | | | |
|-----|--------|------|------|--------|------|-------|------------|-------------|
| BAR | Lillac | Blue | Red | Brown | Grey | White | Light Blue | Light Green |
| 0.5 | 0.42 | 0.51 | 0.68 | 0.85 | 1.02 | 1.35 | 1.69 | 2.54 |
| 1 | 0.59 | 0.71 | 0.94 | 1.18 | 1.42 | 1.89 | 2.36 | 3.54 |
| 1.5 | 0.72 | 0.86 | 1.15 | 1.43 | 1.72 | 2.29 | 2.87 | 4.3 |
| 2 | 0.82 | 0.99 | 1.32 | 1.65 | 1.98 | 2.63 | 3.29 | 4.94 |
| 2.5 | 0.92 | 1.1 | 1.47 | 1.83 | 2.2 | 2.93 | 3.66 | 5.5 |
| 3 | 1 | 1.2 | 1.6 | 2 | 2.4 | 3.2 | 4 | 6 |
| 3.5 | 1.08 | 1.29 | 1.72 | 2.15 | 2.58 | 3.45 | 4.31 | 6.46 |
| 4 | 1.15 | 1.38 | 1.84 | 2.3 | 2.76 | 3.67 | 4.59 | 6.89 |
| BAR | | | | ANG | LE | | | |
| 1 | 96 | 96 | 96 | 104 | 108 | 117 | 133 | 150 |
| 1.5 | 103 | 103 | 104 | 110 | 114 | 122 | 140 | 154 |
| 2 | 107 | 108 | 111 | 114 | 118 | 127 | 142 | 156 |
| 3 | 112 | 113 | 116 | 116 | 124 | 132 | 144 | 160 |
| 4 | 116 | 116 | 121 | 122 | 128 | 135 | 147 | 162 |

FERTILISER NOZZLES

The timely and accurate application of fertiliser can make an enormous difference to crop yields. Liquid application is becoming more and more popular to improve response and to provide increased accuracy, especially where the risk of applying dry fertiliser by conventional spinner-type applicators could mean unwanted nutrient contaminating waterways. Typically uptake of liquid fertiliser is rapid and can provide the right boost to your crop at the right time.

| NOZZLE | SIZES | TYPE, SPECIFICATION AND USE | FEATURES | \$ (EX. GST) | \$ (INC. GST) | PROD. Cat. | SIZE/ORDER CODE | FLOW RATE (L/MIN) | | | | | | |
|-----------|-----------|--|---|-----------------|------------------|---------------|--------------------|-------------------|------|------|--------|-------|------|------|
| | | | | | | | | | | PRES | SURE (| (BAR) | | |
| | | | | | | | ALBUZ ESI | 1 | 1.5 | 2 | 2.5 | 3 | 3.5 | 4 |
| ALBUZ ESI | | | 6 streams provide very coarse droplets for excellent distribution | | | | AZ-ESI-015 | 0.37 | 0.44 | 0.50 | 0.55 | 0.60 | 0.64 | 0.68 |
| | | Specifically designed for fertiliser application | Long wear life | | | | AZ-ESI-02 | 0.52 | 0.61 | 0.68 | 0.74 | 0.80 | 0.85 | 0.90 |
| | 015 to 06 | Pink ceramic calibrated pre-orifice | Allows a wide range of applications at varying speeds | 11.40 | 12.65 | 7 | AZ-ESI-025 | 0.64 | 0.76 | 0.85 | 0.93 | 1.00 | 1.06 | 1.10 |
| | 013 10 00 | • Pressure range: 1–4 Bar | ISO colour coded. Tip only (caps and seal extra) | 11.40 | 12.00 | ۷ | AZ-ESI-03 | 0.77 | 0.91 | 1.02 | 1.12 | 1.20 | 1.28 | 1.35 |
| | | Uses: predominant use in ground crops | Fits standard 50cm nozzle body spacings | | | | AZ-ESI-04 | 1.03 | 1.21 | 1.36 | 1.49 | 1.60 | 1.70 | 1.80 |
| | | | • 110° pattern | | | | AZ-ESI-05 | 1.35 | 1.56 | 1.73 | 1.87 | 2.00 | 2.11 | 2.22 |

| | | | | | | | PRESSURE (BAR) | | | | | | | |
|-----------|-----------|--|---|-------|-------|---|----------------|------|------|------|------|------|------|--|
| | | | | | | | HYPRO ESI | 1 | 1.5 | 2 | 2.5 | 3 | 4 | |
| Hypro ESI | | | 6 streams provide very coarse | | | | FC-ESI-110015 | 0.35 | 0.42 | 0.49 | 0.55 | 0.60 | 0.69 | |
| | | Specifically designed for fartilizer application. | droplets for excellent distribution • Long wear life | | | | FC-ESI-11002 | 0.46 | 0.57 | 0.65 | 0.73 | 0.80 | 0.92 | |
| 4 | 015 to 00 | fertiliser applicationPink ceramic calibrated | Allows a wide range of applications at varying speeds | 15 45 | 17.00 | 7 | FC-ESI-110025 | 0.58 | 0.71 | 0.82 | 0.91 | 1.00 | 1.15 | |
| | 015 to 20 | pre-orificePressure range: 1–4 Bar | Includes cap and seal | 15.45 | 17.20 | ۷ | FC-ESI-11003 | 0.69 | 0.85 | 0.98 | 1.10 | 1.20 | 1.39 | |
| | | Uses: soil seeded crops | Fits standard 50cm nozzle body spacings | | | | FC-ESI-11004 | 0.92 | 1.13 | 1.31 | 1.46 | 1.60 | 1.85 | |
| | | | • 110° pattern | | | | FC-ESI-11005 | 1.15 | 1.41 | 1.63 | 1.83 | 2.00 | 2.31 | |



NOZZLES - SPECIALISED APPLICATION

(BANDING, OFF-CENTRE, TURF, FLOOD AND BOOMJET)

| NOZZLE | TYPE AND DES | CRIPTION | SAMPLE ORDER CODE | SIZE RANGE, MATERIAL SPRAY ANGLE | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT |
|--------|--------------|--|--------------------------|---|--------------|---------------|-----------|
| | ALBUZ OCI | Ceramic Off centre | AZ-0CI-02-80C | • 02, 03 and 04 sizes • Pink ceramic • 80° | 32.55 | 36.15 | Z |
| | ALBUZ AVI | Air-induction Off centre | AZ-AVIOC-8002 | • 01 to 04 sizes • Pink ceramic • 80° | 48.8 | 54.2 | Z |
| | Turbo | Wide angle flat spray pattern Extremely coarse droplets | ¼TTJ05-VP | • 02 to 15 polymer | 22.8 | 25.3 | W |
| | TurfJet | Designed for turf applications 1.5–5 Bar pressure range | ¼TTJ05-VS | • 02 to 15 stainless steel | 44.1 | 49 | V |
| | Turbo | Wide angle flat spray pattern Extremely coarse droplets | TF-VP4 | • 2 to 10 polymer | 7.75 | 8.60 | ., |
| | FloodJet | Precise distribution pattern 1–3 Bar pressure range | TF-VS4 | • 2 to 10 steel | 33.95 | 37.75 | V |
| | FloodJet | Wide angle flat spray pattern 1–3 Bar pressure range | TK-VS3 | 2 to 10 stainless steel tip, polymer body | 30.60 | 34.00 | V |
| | BoomJet | Large capacity boomless nozzle Extra-wide flat spray projection Ideal for difficult access areas when spraying Useful for liquid fertiliser applications | 5880-¾-2T0C20 | • 10 to 40 brass | 661.35 | 734.80 | V |
| | ХР | Boomless flat spray nozzles Useful for roadside, end-row, orchard or forestry applications Extra wide spray nattorn | B¼XP20L-VP B¼XP20R-VP | • 10, 20 and 25¼" acetal left and right options | 114.85 | 127.60 | V |
| | BoomJet | Extra-wide spray pattern Left and right options 1-4 Bar pressure range Excellent distribution | B½XP40L-VP B½XP40R-VP | • 40 and 80 ½" acetal left and right options | 138.75 | 154.15 | V |

SPRAYWISE ORCHARD/VINEYARD NOZZLE SELECTION

STEP 1.

Work out the dilute L/100m rate from the SprayWise Dilute table per row (page 93).

For example, a 1.5 metre grape VSP canopy has a dilute volume of 30 L/100m row (1.5 \times 20 L).

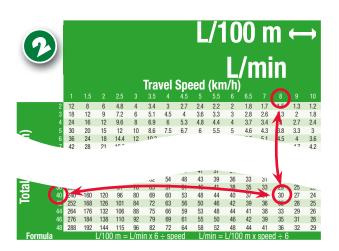
Use table 1 (page 94) to sanity check what this L/100m rate represents in L/ha. Select your row spacing and follow the column down until you reach 30 or the nearest number. If you follow the row to the left the table will give you the per ha volume. Or you can work reverse from the per ha rate to find the L/100m rate.

| | | | R | ow | Spa | cin | g (m |) | |
|------|------|------|------|----|-----|-----|------|------|------|
| | | 1.6 | 1.8 | 2 | 2.1 | 2.4 | 2.5 | 2.7 | 2.8 |
| | 100 | 1.6 | 1.8 | 2 | 2.1 | 2.4 | 2.5 | 27 | 2.8 |
| | 150 | 2.4 | 2.7 | 3 | 3.1 | 3.6 | 3.8 | 4 | 4.2 |
| | 200 | 3.2 | 3.6 | 4 | 4.2 | 4.8 | 5 | 5.4 | 5.6 |
| | 250 | 4 | 4.5 | 5 | 5.2 | 6 | 6.3 | 6.7 | 7 |
| | 700 | 11.2 | 12.6 | 14 | 15 | 17 | 17.5 | 18.9 | 19.6 |
| L/ha | 750 | 12 | 13.5 | 15 | 16 | 18 | 18.8 | 20 | 21 |
| = | 800 | 12.8 | 14.4 | 16 | 17 | 19 | 20 | 22 | 22 |
| | 900 | 14.4 | 16.2 | 18 | 19 | 21 | 23 | 24 | 25 |
| | 7000 | 16 | 18 | 20 | 21 | 24 | 25 | ŽĪ | 28 |
| | 1100 | 11.0 | 19.8 | 22 | 23 | 26 | 20 | 30 | 31 |
| | 1200 | 19.2 | 22 | 24 | 25 | 29 | 30 | 22 | 34 |
| | 1300 | 21 | 23 | 26 | 27 | 31 | 33 | 35 | 36 |
| | 1400 | 22 | 25 | 28 | 29 | 33 | 35 | 38 | 39 |

STEP 2.

Work out the total flowrate of your pump per minute/row by matching the per 100m rate with your speed.

For example, you want to drive 8 km/hr. Find 8 km/hr on the top of table 2 and follow the column down until you reach 30 or the nearest number. If you follow the row to the right the table will give you the total flowrate you need per row to put out 30 L/100m at 8 km/hr. The flowrate is 40 L/min per row.



STEP 3.

Work out the individual flow rate for each nozzle. If all nozzle are the same size you can simply divide the total flow rate per row by the number of nozzles per row.

For example, we have 24 nozzles per row and needed a total flow rate of 40 L/min. Each nozzle needs to put out 1.66 L/min (40/24). If several nozzle sizes are preferred the volume needs to be split. For example, rather than looking at all 24 nozzles putting out the same you could look at 12 nozzles putting out 25 L/min and 12 nozzles putting out 15 L/min.

STEP 4.

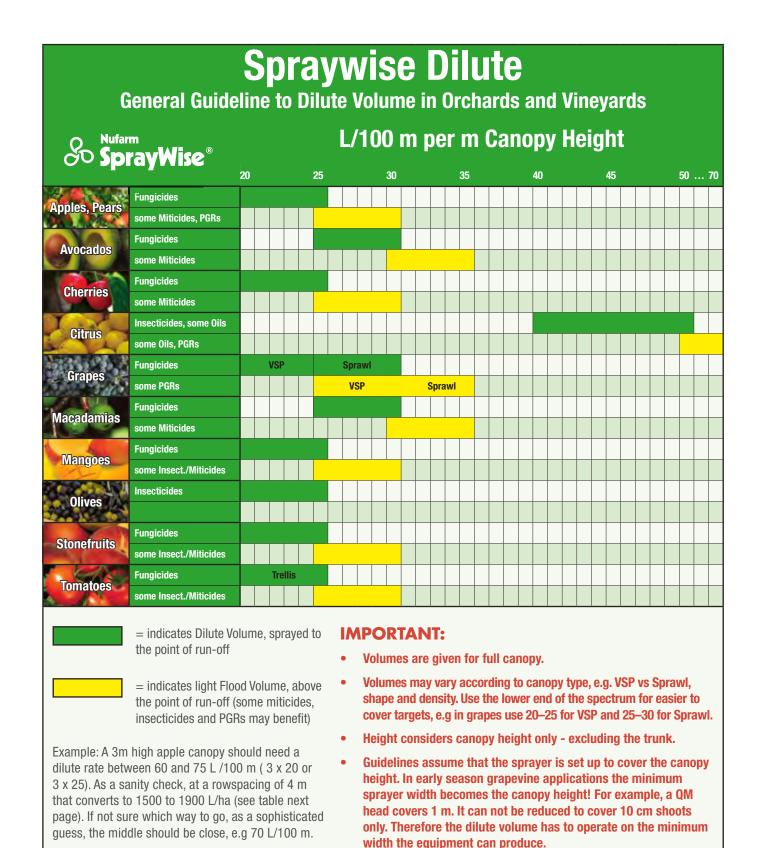
Match up pressure and nozzles size to achieve these outputs in table on page 95.

ATR HOLLOW CONE FLOWRATE CHART

| | PDECCUPE | | | | |
|-----|----------|--------|--------|------|------|
| | PRESSURE | Yellow | Orange | Red | Grey |
| | 5 | 0.73 | 0.99 | 1.38 | 1.5 |
| | <u></u> | 0.8 | 1.08 | 1.51 | 1.63 |
| | 7 | 0.86 | 1.17 | 1.62 | 1.76 |
| | 8 | 0.92 | 1.24 | 1.73 | 1.87 |
| BAR | 9 | 0.97 | 1.32 | 1.83 | 1.98 |
| DAN | 10 | 1.03 | 1.39 | 1.92 | 2.08 |
| | 11 | 1.07 | 1.45 | 2.01 | 2.17 |
| | 12 | 1.12 | 1.51 | 2.09 | 2.26 |
| | 13 | 1.17 | 1.57 | 2.17 | 2.35 |
| | 14 | 1.21 | 1.63 | 2.25 | 2.43 |







Rate for Early Season Applications in Deciduous Tree/Vine Crops (in L/100 m per m Canopy Height)

| | (iii L/100 iii pei iii Galiopy neight) | | | | | | | | | | | | |
|------------------------------|--|--------------------------------|-------------------------|--|--|--|--|--|--|--|--|--|--|
| Budburst | 1st Spray BB + 10 days | 2nd Spray BB+20 days | 3rd Spray BB+30 days | | | | | | | | | | |
| 14L (70 % of 20 L) | 16L (80 % of 20 L) | 18L (90 % of 20 L) | Full rate | | | | | | | | | | |

| | | | | | | | | | | | | L/ | ha | — | → L | /10 | 00 | m | | | | | | | Tat | le uni | t L/10 | 00 m |
|------|---------------------|------|------|-----|------|------|-------|---------|--------|-------|-------|--------|--------|----------|-------|-------|-----|------|------|------|--------|--------|--------|-------|-------|--------|--------|------|
| | | | | | | | | | | | | | Ro | w S | oacir | ıg (m | 1) | | | | | | | | | | | |
| | | 1.6 | 1.8 | 2 | 2.1 | 2.4 | 2.5 | 2.7 | 2.8 | 2.9 | | 3.1 | 3.2 | 3.3 | 3.5 | 3.6 | | 4.5 | 5 | 5.5 | 6 | 6.5 | | 7.5 | 8 | 8.5 | 9 | 10 |
| | 100 | 1.6 | 1.8 | 2 | 2.1 | 2.4 | 2.5 | 2.7 | 2.8 | 2.9 | 3 | 3.1 | 3.2 | 3.3 | 3.5 | 3.6 | 4 | 4.5 | 5 | 5.5 | 6 | 6.5 | 7 | 7.5 | 8 | 8.5 | 9 | 10 |
| | 150 | 2.4 | 2.7 | 3 | 3.1 | 3.6 | 3.8 | 4 | 4.2 | 4.4 | 4.5 | 4.7 | 4.8 | 5 | 5.3 | 5.4 | 6 | 6.8 | 7.5 | 8.3 | 9 | 9.8 | 10.5 | 11.3 | 12 | 12.8 | 13.5 | 15 |
| | 200 | 3.2 | 3.6 | 4 | 4.2 | 4.8 | 5 | 5.4 | 5.6 | 5.8 | 6 | 6.2 | 6.4 | 6.7 | 7 | 7.2 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 20 |
| | 250 | 4 | 4.5 | 5 | 5.2 | 6 | 6.3 | 6.7 | 7 | 7.3 | 7.5 | 7.8 | 8 | 8.3 | 8.8 | 9.0 | 10 | 11.3 | 12.5 | 13.8 | 15 | 16.3 | 17.5 | 18.8 | 20 | 21 | 23 | 25 |
| | 300 | 4.8 | 5.4 | 6 | 6.3 | 7.1 | 7.5 | 8.1 | 8.4 | 8.7 | 9 | 9.3 | 9.6 | 10 | 10.5 | 10.8 | 12 | 13.5 | 15 | 16.5 | 18 | 19.5 | 21 | 23 | 24 | 26 | 27 | 30 |
| | 350 | 5.6 | 6.3 | 7 | 7.3 | 8.3 | 8.8 | 9.4 | 9.8 | 10.2 | 10.5 | 10.9 | 11.2 | 11.7 | 12.3 | 12.6 | 14 | 15.8 | 17.5 | 19.3 | 21 | 23 | 25 | 26 | 28 | 30 | 32 | 35 |
| | 400 | 6.4 | 7.2 | 8 | 8.3 | 9.5 | 10 | 10.8 | 11.2 | 11.6 | 12 | 12.4 | 12.8 | 13.3 | 14 | 14.4 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 40 |
| | 450 | 7.2 | 8.1 | 9 | 9.4 | 11 | 11.3 | 12.1 | 12.6 | 13.1 | 13.5 | 14 | 14.4 | 15 | 15.8 | 16.2 | 18 | 20 | 23 | 25 | 27 | 29 | 32 | 34 | 36 | 38 | 41 | 45 |
| | 500 | 8 | 9 | 10 | 10 | 12 | 12.5 | 13.5 | 14 | 14.5 | 15 | 15.5 | 16 | 16.7 | 17.5 | 18 | 20 | 23 | 25 | 28 | 30 | 33 | 35 | 38 | 40 | 43 | 45 | 50 |
| | 600 | 9.6 | 10.8 | 12 | 13 | 14 | 15 | 16.2 | 16.8 | 17.4 | 18 | 18.6 | 19.2 | 20 | 21 | 22 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 | 51 | 54 | 60 |
| | 700 | 11.2 | 12.6 | 14 | 15 | 17 | 17.5 | 18.9 | 19.6 | 20 | 21 | 22 | 22 | 23 | 25 | 25 | 28 | 32 | 35 | 39 | 42 | 46 | 49 | 53 | 56 | 60 | 63 | 70 |
| | 750 | 12 | 13.5 | 15 | 16 | 18 | 18.8 | 20 | 21 | 22 | 23 | 23 | 24 | 25 | 26 | 27 | 30 | 34 | 38 | 41 | 45 | 49 | 53 | 56 | 60 | 64 | 68 | 75 |
| | 800 | 12.8 | 14.4 | 16 | 17 | 19 | 20 | 22 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 32 | 36 | 40 | 44 | 48 | 52 | 56 | 60 | 64 | 68 | 72 | 80 |
| | 900 | 14.4 | 16.2 | 18 | 19 | 21 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 32 | 32 | 36 | 41 | 45 | 50 | 54 | 59 | 63 | 68 | 72 | 77 | 81 | 90 |
| | 1000 | 16 | 18 | 20 | 21 | 24 | 25 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 35 | 36 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 100 |
| co. | 1100 | 17.6 | 19.8 | 22 | 23 | 26 | 28 | 30 | 31 | 32 | 33 | 34 | 35 | 37 | 39 | 40 | 44 | 50 | 55 | 61 | 66 | 72 | 77 | 83 | 88 | 94 | 99 | 110 |
| L/ha | 1200 | 19.2 | 22 | 24 | 25 | 29 | 30 | 32 | 34 | 35 | 36 | 37 | 38 | 40 | 42 | 43 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 | 102 | 108 | 120 |
| | 1300 | 21 | 23 | 26 | 27 | 31 | 33 | 35 | 36 | 38 | 39 | 40 | 42 | 43 | 46 | 47 | 52 | 59 | 65 | 72 | 78 | 85 | 91 | 98 | 104 | 111 | 117 | 130 |
| | 1400 | 22 | 25 | 28 | 29 | 33 | 35 | 38 | 39 | 41 | 42 | 43 | 45 | 47 | 49 | 50 | 56 | 63 | 70 | 77 | 84 | 91 | 98 | 105 | 112 | 119 | 126 | 140 |
| | 1500 | 24 | 27 | 30 | 31 | 36 | 38 | 40 | 42 | 44 | 45 | 47 | 48 | 50 | 53 | 54 | 60 | 68 | 75 | 83 | 90 | 98 | 105 | 113 | 120 | 128 | 135 | 150 |
| | 1600 | 26 | 29 | 32 | 33 | 38 | 40 | 43 | 45 | 46 | 48 | 50 | 51 | 53 | 56 | 58 | 64 | 72 | 80 | 88 | 96 | 104 | 112 | 120 | 128 | 136 | 144 | 160 |
| | 1700 | 27 | 31 | 34 | 35 | 40 | 43 | 46 | 48 | 49 | 51 | 53 | 54 | 57 | 60 | 61 | 68 | 77 | 85 | 94 | 102 | 111 | 119 | 128 | 136 | 145 | 153 | 170 |
| | 1800 | 29 | 32 | 36 | 38 | 43 | 45 | 49 | 50 | 52 | 54 | 56 | 58 | 60 | 63 | 65 | 72 | 81 | 90 | 99 | 108 | 117 | 126 | 135 | 144 | 153 | 162 | 180 |
| | 1900 | 30 | 34 | 38 | 40 | 45 | 48 | 51 | 53 | 55 | 57 | 59 | 61 | 63 | 67 | 68 | 76 | 86 | 95 | 105 | 114 | 124 | 133 | 143 | 152 | 162 | 171 | 190 |
| | 2000 | 32 | 36 | 40 | 42 | 48 | 50 | 54 | 56 | 58 | 60 | 62 | 64 | 67 | 70 | 72 | 80 | 90 | 100 | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 200 |
| | 2500 | 40 | 45 | 50 | 52 | 60 | 63 | 67 | 70 | 73 | 75 | 78 | 80 | 83 | 88 | 90 | 100 | 113 | 125 | 138 | 150 | 163 | 175 | 188 | 200 | 213 | 225 | 250 |
| | 3000 | 48 | 54 | 60 | 63 | 71 | 75 | 81 | 84 | 87 | 90 | 93 | 96 | 100 | 105 | 108 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 | 300 |
| | 4000 | 64 | 72 | 80 | 83 | 95 | 100 | 108 | 112 | 116 | 120 | 124 | 128 | 133 | 140 | 144 | 160 | 180 | 200 | 220 | 240 | 260 | 280 | 300 | 320 | 340 | 360 | 400 |
| | 5000 | 80 | 90 | 100 | 104 | 119 | 125 | 135 | 140 | 145 | 150 | 155 | 160 | 167 | 175 | 180 | 200 | 225 | 250 | 275 | 300 | 325 | 350 | 375 | 400 | 425 | 450 | 500 |
| | 6000 | 96 | 108 | 120 | 125 | 143 | 150 | 162 | 168 | 174 | 180 | 186 | 192 | 200 | 210 | 216 | 240 | 270 | 300 | 330 | 360 | 390 | 420 | 450 | 480 | 510 | 540 | 600 |
| | 7000 | 112 | 126 | 140 | 146 | 167 | 175 | 189 | 196 | 203 | 210 | 217 | 224 | 233 | 245 | 252 | 280 | 315 | 350 | 385 | 420 | 455 | 490 | 525 | 560 | 595 | 630 | 700 |
| | 8000 | 128 | 144 | 160 | 167 | 190 | 200 | 216 | 224 | 232 | 240 | 248 | 256 | 266 | 280 | 288 | 320 | 360 | 400 | 440 | 480 | 520 | 560 | 600 | 640 | 680 | 720 | 800 |
| | 9000 | 144 | 162 | 180 | 188 | 214 | 225 | 243 | 252 | 261 | 270 | 279 | 288 | 300 | 315 | 324 | 360 | 405 | 450 | 495 | 540 | 585 | 630 | 675 | 720 | 765 | 810 | 900 |
| 0.0 | 10000 | 160 | 180 | 200 | 208 | 238 | 250 | 270 | 280 | 290 | 300 | 310 | 320 | 333 | 350 | 360 | 400 | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 | 850 | 900 | 1000 |
| Co | onversion Factor | 62.5 | 55.5 | 50 | 47.6 | 41.7 | 40 | 37.0 | 35.7 | 34.5 | 33.3 | 32.3 | 31.3 | 30.3 | 28.6 | 27.8 | 25 | 22.2 | 20 | 18.2 | 16.7 | 15.4 | 14.3 | 13.3 | 12.5 | 11.8 | 11.1 | 10 |
| F | ormula | | | | | | L/100 |) m = 1 | L/ha - | ÷ 100 | x row | spacir | ng (m) | | | | | | | | L/ha : | = L/10 | 00 m > | 100 - | ÷ row | spacin | ig (m) | |

| | | | | | | | | | | | | | | | | | | | | | , | | | | | | | | | Tabl | | | 14.04 | |
|--|----------|------------|----------|----------|----------|----------|----------|------------|----------|----------|------------|----------|--------------|---------------|-------------|--------------|--------------|------------|---------------|------------|--------------|------------|--------|----------------|-------|----------|----------|------------|------------|------------|------------|------------|----------|-----------|
| | | | | | | | | | | | | | | | | 00 | m | 1 + | \rightarrow | | m | in | | | | | | | | labi | e un | it = L | L/100 | m |
| | | | | | | | Trav | rel S | Spec | ed (I | km/ | h) | | | | | ••• | | | | | | | Trav | rel S | Spe | ed (| km/ | h) | | | | | |
| | | | 1.5 | | 2.5 | | 3.5 | | 4.5 | 5 | 5.5 | 6 | 6.5 | | | | | | | 1.5 | | 2.5 | | 3.5 | | 4.5 | 5 | 5.5 | 6 | 6.5 | | | | |
| | 2 | 12 | 8 | 6 | 4.8 | 4 | 3.4 | 3 | 2.7 | 2.4 | 2.2 | 2 | 1.8 | 1.7 | 1.5 | 1.3 | 1.2 | | 360 | 240 | 180 | 144 | 120 | 103 | 90 | 80 | 72 | 65 | 60 | 55 | 51 | 45 | 40 | 36 |
| | | 18 | 12 | 9 | 7.2 | 6 | 5.1 | 4.5 | 4 | 3.6 | 3.3 | 3 | 2.8 | 2.6 | 2.3 | 2 | 1.8 | | 372 | 248 | 186 | 149 | 124 | 106 | 93 | 83 | 74 | 68 | 62 | 57 | 53 | 47 | 41 | 37 |
| | | 24 | 16 | 12 | 9.6 | 8 | 6.9 | 6 | 5.3 | 4.8 | 4.4 | 4 | 3.7 | 3.4 | 3 | 2.7 | 2.4 | 64 | 384 | 256 | 192 | 154 | 128 | 110 | 96 | 85 | 77 | 70 | 64 | 59 | 55 | 48 | 43 | 38 |
| | 5 | 30 | 20 | 15 | 12 | 10 | 8.6 | 7.5 | 6.7 | 6 | 5.5 | 5 | 4.6 | 4.3 | 3.8 | 3.3 | 3 | 66 | 396 | 264 | 198 | 158 | 132 | 113 | 99 | 88 | 79 | 72 | 66 | 61 | 57 | 50 | 44 | 40 |
| | | 36 | 24 | 18 | 14.4 | 12 | 10.3 | 9 | 8 | 7.2 | 6.5 | 6 | 5.5 | 5.1 | 4.5 | 4 | 3.6 | 68 | 408 | 272 | 204 | 163 | 136 | 117 | 102 | 91 | 82 | 74 | 68 | 63 | 58 | 51 | 45 | 41 |
| | | 42 | 28 | 21 | 16.8 | 14 | 12 | 10.5 | 9.3 | 8.4 | 7.6 | / | 6.5 | 6 | 5.3 | 4.7 | 4.2 | 70 | 420 | 280 | 210 | 168 | 140 | 120 | 105 | 93 | 84 | 76 | 70 | 65 | 60 | 53 | 47 | 42 |
| | 8 | 48 54 | 32 36 | 24 | 19.2 | 10 | 15./ | 12 13.5 | 10.7 | 9.6 | 8.7 9.8 | 8 | 7.4 8.3 | 6.9 7.7 | 6.8 | 5.3 6 | 4.8 5.4 | 72 74 | 432 444 | 288 296 | 216 | 173 178 | 144 | 123 127 | 108 | 96 99 | 86 89 | 79 81 | 72 74 | 66 68 | 62 63 | 54 56 | 48 49 | 43 44 |
| | | 60 | 40 | 30 | 24 | 20 | 17.4 | 15.5 | 12 2 | 12 | 10.9 | 10 | 9.2 | 9.6 | 7.5 | 6.7 | 6 | 74 76 | 456 | 304 | 228 | 182 | 152 | 130 | 11/ | 101 | 91 | 83 | 76 | 70 | 65 | 57 | 51 | 46 |
| = | | 66 | 44 | 33 | 26 | 22 | 19 | 17 | 14.7 | 13.2 | 12 | 11 | 10.2 | 9.4 | 8.3 | 7.3 | 6.6 | 78 | 468 | 312 | 234 | 187 | 156 | 134 | 117 | 104 | 94 | 85 | 78 | 72 | 67 | 59 | 52 | 47 |
| I∵≣ | 12 | 72 | 48 | 36 | 29 | 24 | 21 | 18 | 16 | 14.4 | 13.1 | 12 | 11.1 | 10.3 | 9 | 8 | 7.2 | 80 | 480 | 320 | 240 | 192 | 160 | 137 | 120 | 107 | 96 | 87 | 80 | 74 | 69 | 60 | 53 | 48 |
| = | 13 | 78 | 52 | 39 | 31 | 26 | 22 | 20 | 17.3 | 15.6 | 14.2 | 13 | 12 | 11.1 | 9.8 | 8.7 | 7.8 | 85 | 510 | 340 | 255 | 204 | 170 | 146 | 128 | 113 | 102 | 93 | 85 | 78 | 73 | 64 | 57 | 51 |
| | 14 | 84 | 56 | 42 | 34 | 28 | 24 | 21 | 18.7 | 16.8 | 15.3 | 14 | 12.9 | 12 | 10.5 | 9.3 | 8.4 | 90 | 540 | 360 | 270 | 216 | 180 | 154 | 135 | 120 | 108 | 98 | 90 | 83 | 77 | 68 | 60 | 54 |
| လွ | | 90 | 60 | 45 | 36 | 30 | 26 | 23 | 20 | 18 | 16.4 | 15 | 13.8 | 12.9 | 11.3 | 10 | 9 | | 570 | 380 | 285 | 228 | 190 | 163 | 143 | 127 | 114 | 104 | 95 | 88 | 81 | 71 | 63 | 57 |
| 쁭 | | 96 | 64 | 48 | 38 | 32 | 27 | 24 | 21 | 19.2 | 17.5 | 16 | 14.8 | 13.7 | 12 | 10.7 | 9.6 | | 600 | 400 | 300 | 240 | 200 | 171 | 150 | 133 | 120 | 109 | 100 | 92 | 86 | 75 | 67 | 60 |
| 12 | | 102 | 68 | 51 | 41 | 34 | 29 | 26 | 23 | 20 | 18.5 | 17 | 15.7 | 14.6 | 12.8 | 11.3 | 10.2 | 110 | 660 | 440 | 330 | 264 | 220 | 189 | 165 | 147 | 132 | 120 | 110 | 102 | 94 | 83 | 73 | 66 |
| 를 기계를 받는다. | | 108 | 72 | 54 | 43 | 36 | 31 | 27 | 24 | 22 | 19.6 | 18 | 16.6 | 15.4 | 13.5 | 12 | 10.8 | 120 | 720 | 480 | 360 | 288 | 240 | 206 | 180 | 160 | 144 | 131 | 120 | 111 | 103 | 90 | 80 | 72 |
| Total Flow Rate of All Nozzles (L/min) | 19 | 114 | 76 | 57 | 46 | 38 | 33 | 29 | 25 | 23 | 21 | 19 | 17.5 | 16.3 | 14.3 | 12.7 | 11.4 | 130 | 780 | 520 | 390 | 312 | 260 | 223 | 195 | 173 | 156 | 142 | 130 | 120 | 111 | 98 | 87 | 78 |
| ⋖ | 20 | | 80 | 60 | 48 | 40 | 34 | 30 | 27 | 24 | 22 | 20 | 18.5 | 17.1 | 15 | 13.3 | 12 | 140 | 840 | 560 | 420 | 336 | 280 | 240 | 210 | 187 | 168 | 153 | 140 | 129 | 120 | 105 | 93 | 84 |
| - | 22 | 132 | 88 | 66 | 53 | 44 | 38 | 33 | 29 | 26 | 24 | 22 | 20 | 18.9 | 16.5 | 14.7 | 13.2 | 150 | 900 | 600 | 450 | 360 | 300 | 257 | 225 | 200 | 180 | 164 | 150 | 138 | 129 | 113 | 100 | 90 |
| a) | 24 | 144 | 96 | 72 | 58 | 48 | 41 | 36 39 | 32 | 29 31 | 26 | 24 | 22 | 21 | 18 | 16 | 14.4 | 160 | 960 | 640 | 480 | 384 | 320 | 274 | 240 | 213 | 192 | 175 | 160 | 148 | 137 | 120 | 107 | 96 102 |
| at | 26 28 | 156 168 | 104 | 78 84 | 62 67 | 52 56 | 45 48 | 42 | 35 37 | 34 | 28 31 | 26 28 | 26 | 24 | 19.5 21 | 17.3 18.7 | 15.6 16.8 | 170 180 | 1020 | 680 720 | 510 540 | 408 | 360 | 309 | 255 | 227 | 204 | 185 196 | 170 180 | 157 166 | 146 154 | 128 135 | 110 | 102 |
| <u>~</u> | 20 30 | 180 | 120 | 90 | 72 | 60 | 51 | 45 | 40 | 36 | 33 | 30 | 28 | 26 | 23 | 20 | 18 | | 1140 | 760 | 570 | 456 | 380 | 326 | 285 | 253 | 228 | 207 | 190 | 175 | 163 | 143 | 120 | 114 |
| 3 | 32 | 192 | 128 | 96 | 77 | 64 | 55 | 48 | 43 | 38 | 35 | 32 | 30 | 27 | 24 | 21 | 19.2 | 200 | 1200 | 800 | 600 | 480 | 400 | 343 | 300 | 267 | 240 | 218 | 200 | 185 | 171 | 150 | 133 | 120 |
| 유 | 34 | 204 | 136 | 102 | 82 | 68 | 58 | 51 | 45 | 41 | 37 | 34 | 31 | 29 | 26 | 23 | 20 | 220 | 1320 | 880 | 660 | 528 | 440 | 377 | 330 | 293 | 264 | 240 | 220 | 203 | 189 | 165 | 147 | 132 |
| <u> </u> | 36 | 216 | 144 | 108 | 86 | 72 | 62 | 54 | 48 | 43 | 39 | 36 | 33 | 31 | 27 | 24 | 22 | | 1440 | 960 | 720 | 576 | 480 | 411 | 360 | 320 | 288 | 262 | 240 | 222 | 206 | 180 | 160 | 144 |
| <u>.c</u> | | 228 | 152 | 114 | 91 | 76 | 65 | 57 | 51 | 46 | 41 | 38 | 35 | 33 | 29 | 25 | 23 | 260 | 1560 | 1040 | 780 | 624 | 520 | 446 | 390 | 347 | 312 | 284 | 260 | 240 | 223 | 195 | 173 | 156 |
| <u>.</u> | | 240 | 160 | 120 | 96 | 80 | 69 | 60 | 53 | 48 | 44 | 40 | 37 | 34 | 30 | 27 | 24 | 280 | 1680 | 1120 | 840 | 672 | 560 | 480 | 420 | 373 | 336 | 305 | 280 | 258 | 240 | 210 | 187 | 168 |
| | | 252 | 168 | 126 | 101 | 84 | 72 | 63 | 56 | 50 | 46 | 42 | 39 | 36 | 32 | 28 | 25 | 300 | 1800 | 1200 | 900 | 720 | 600 | 514 | 450 | 400 | 360 | 327 | 300 | 277 | 257 | 225 | 200 | 180 |
| | 44 | 264 | 176 | 132 | 106 | 88 | 75 | 66 | 59 | 53 | 48 | 44 | 41 | 38 | 33 | 29 | 26 | 350 | 2100 | 1400 | 1050 | 840 | 700 | 600 | 525 | 467 | 420 | 382 | 350 | 323 | 300 | 263 | 233 | 210 |
| | | 276 | 184 | 138 | 110 | 92 | 79 | 69 | 61 | 55 | 50 | 46 | 42 | 39 | 35 | 31 | 28 | 400 | 2400 | 1600 | 1200 | 960 | 800 | 686 | 600 | 533 | 480 | 436 | 400 | 369 | 343 | 300 | 267 | 240 |
| | | 288 | 192 | 144 | 115 | 96 | 82 | 72 | 64 | 58 | 52 | 48 | 44 | 41 | 36 | 32 | 29 | | 2700 | | | 1080 | 900 | 771 | 675 | 600 | 540 | 491 | 450 | 415 | 386 | 338 | 300 | 270 |
| | 50 | 300 | 200 | 150 | 120 | 100 | 86 | 75 | 67 | 60 | 55 | 50 | 46 | 43 | 38 | 33 | 30 | 500 | | | 1500 | | 1000 | | 750 | 667 | 600 | 545 | 500 | 462 | 429 | 375 | 333 | 300 |
| | 52 | 312 | 208 | 156 | 125 | 104 | 89 | 78 | 69 | 62 | 57 | 52 | 48 | 45 | 39 | 35 | 31 | 600 | 3600 | | | 1440 | 1200 | 1029 | 900 | 800 | 720 | 655 | 600 | 554 | 514 | 450 | 400 | 360 |
| | 54 | 324 | 216 | 162 | 130 | 108 | 93 | 81 | 72 | 65 | 59 | 54 | 50 | 46 | 41 | 36 | 32 | 700 | | | 2100 | | 1400 | 1200 | 1050 | 933 | 840 | 764 | 700 | 646 | 600 | 525 | 467 | 420 |
| | 56 | 336 | 224 | 168 | 134 | 112 | 96 | 84 | 75 | 67 | 61 | 56 | 52 | 48 | 42 | 37 | 34 | 800 | | | 2400 | | | | 1200 | 1067 | 960 | 873 | 800 | 738 | 686 | 600 | 533 | 480 |
| Form | 58 Ma | 348 | 232 | 174 | 139 | 116 | 99 | 87 | 77 | 70 | 63 | 58 | 54 100 m | 50 | 44 min v | 39 | 35 | | | | | | | 1543 | 1350 | 1200 | 1080 | 982 | 900 | 831 | 771 | 675 | 600 | 540 |
| Form | iula | | | | | | | | | | | _ L/ | <u>100 m</u> | <u>า = L/</u> | TIIIT X | (b ÷ € | speed | | _/mm | = L/ | <u>100 n</u> | TX SL | reea - | . 0 | | | | | | | | | | |

3

Total Flow (L/min) \longleftrightarrow Single Nozzle Flow (L/min)

To obtain single nozzle flow rates simply divide the Total Flow/min by the numbers of nozzles per row.

For example, having 24 nozzles per row and spraying 36 L/min requires a nozzle size that delivers a flowrate1.5 L/min.

Formula: Total output L/min = no of nozzles x single nozzle output • Single nozzle output = Total output ÷ no of nozzles





NOZZLES FOR HORTICULTURE - TREE AND VINE

CERAMIC CONE NOZZLES FOR HORTICULTURE – TREE AND VINE CROPS



^{**}Colour codes: WE = white, LC = lilac, BN = brown, YW = yellow, OE = orange, RD = red, GY = grey, GN = green, BK = black, BE = blue, PE = purple

| NOZZLE TYPE | ORDER CODE | \$ (EX. GST) | \$ (INC. GST) | PROD. Cat. |
|---|--|---|------------------|----------------------|
| ALBUZ TVI | A7 T// ++++ 000 | | | |
| | AZ-TVI-****-80C **** denotes size, see table below | 32.55 | 36.15 | Z |
| FEATURES AND SPECI Air-induction hollow (venture system) Large drops filled widrift control Precision polished p Compact length (19) Perfect sealing of syprecise flow rate Ideal for fungicides and control ISO colour coding (see | cone nozzle ith air for ink ceramic surfaces mm) virl chamber for and insecticides se droplets for | PRESSU RANGI 8 12 16 4 2 5-25 B | PAT | PRAY ITERN B0° |

NOZZLE TYPE ORDER CODE \$ (EX. GST) \$ (INC. GST) PROD. CAT. ALBUZ ATR 60° AZ-ATR-**-60C ** denotes colour, e.g. YW 11.67 13.00 Z

^{**}Colour codes: WE = white, LC = lilac, BN = brown, YW = yellow, OE = orange, RD = red, GY = grey, GN = green, BK = black, BE = blue, PE = purple

ALBUZ 60° AND 80° ATR HOLLOW CONE NOZZLE CHART

| | | | | | | L/MIN | | | | | |
|-----|-------|-------|-------|--------|--------|-------|------|-------|-------|------|--------|
| BAR | White | Lilac | Brown | Yellow | Orange | Red | Grey | Green | Black | Blue | Purple |
| 5 | 0.27 | 0.36 | 0.48 | 0.73 | 0.99 | 1.38 | 1.5 | 1.78 | 2 | 2.45 | 3.05 |
| 6 | 0.29 | 0.39 | 0.52 | 0.8 | 1.08 | 1.51 | 1.63 | 1.94 | 2.18 | 2.67 | 3.32 |
| 7 | 0.32 | 0.42 | 0.56 | 0.86 | 1.17 | 1.62 | 1.76 | 2.09 | 2.35 | 2.87 | 3.57 |
| 8 | 0.34 | 0.45 | 0.6 | 0.92 | 1.24 | 1.73 | 1.87 | 2.22 | 2.5 | 3.06 | 3.81 |
| 9 | 0.36 | 0.48 | 0.64 | 0.97 | 1.32 | 1.83 | 1.98 | 2.35 | 2.64 | 3.24 | 4.03 |
| 10 | 0.38 | 0.50 | 0.67 | 1.03 | 1.39 | 1.92 | 2.08 | 2.47 | 2.78 | 3.4 | 4.23 |
| 11 | 0.39 | 0.52 | 0.7 | 1.07 | 1.45 | 2.01 | 2.17 | 2.58 | 2.9 | 3.56 | 4.43 |
| 12 | 0.41 | 0.55 | 0.73 | 1.12 | 1.51 | 2.09 | 2.26 | 2.69 | 3.03 | 3.71 | 4.61 |
| 13 | 0.43 | 0.57 | 0.76 | 1.17 | 1.57 | 2.17 | 2.35 | 2.79 | 3.14 | 3.85 | 4.79 |
| 14 | 0.44 | 0.59 | 0.79 | 1.21 | 1.63 | 2.25 | 2.43 | 2.89 | 3.26 | 3.99 | 4.96 |
| 15 | 0.46 | 0.61 | 0.81 | 1.25 | 1.69 | 2.33 | 2.51 | 2.99 | 3.36 | 4.12 | 5.12 |
| 16 | 0.47 | 0.63 | 0.84 | 1.29 | 1.74 | 2.4 | 2.59 | 3.08 | 3.47 | 4.25 | 5.28 |
| 17 | 0.48 | 0.64 | 0.86 | 1.33 | 1.79 | 2.47 | 2.67 | 3.17 | 3.57 | 4.37 | 5.43 |
| 18 | 0.50 | 0.66 | 0.89 | 1.37 | 1.84 | 2.54 | 2.74 | 3.25 | 3.67 | 4.49 | 5.58 |
| 19 | 0.51 | 0.68 | 0.91 | 1.4 | 1.89 | 2.6 | 2.81 | 3.34 | 3.76 | 4.61 | 5.73 |
| 20 | 0.52 | 0.70 | 0.93 | 1.44 | 1.94 | 2.67 | 2.88 | 3.42 | 3.85 | 4.72 | 5.87 |

SPRAY QUALITY INFORMATION FOR TVI NOZZLES

| | | | | TVI | 80° | | | |
|-----|-------------------|-----------------|------------------|-----------------|-----------------|-----------------|---------------|--------------|
| BAR | Purple 80-0050 | Pink 80-0075 | Orange 80-001 | Green 80-015 | Yellow 80-02 | Lilac 80-025 | Blue 80-03 | Red 80-04 |
| 5 | | | UC | UC | UC | UC | UC | UC |
| 7 | UC | VC | UC | UC | UC | UC | UC | UC |
| 10 | XC | VC | XC | XC | XC | XC | UC | UC |
| 15 | VC | C | VC | VC | VC | XC | UC | UC |

ALBUZ 80° TVI HOLLOW CONE NOZZLE CHART

| | L/MIN | | | | | | | |
|-----|-------------------|-----------------|------------------|-----------------|-----------------|-----------------|---------------|--------------|
| BAR | Purple 80-0050 | Pink 80-0075 | Orange 80-001 | Green 80-015 | Yellow 80-02 | Lilac 80-025 | Blue 80-03 | Red 80-04 |
| 5 | - | 0.39 | 0.52 | 0.77 | 1.03 | 1.29 | 1.55 | 2.07 |
| 6 | - | 0.42 | 0.57 | 0.85 | 1.13 | 1.41 | 1.70 | 2.26 |
| 7 | 0.31 | 0.46 | 0.61 | 0.92 | 1.22 | 1.53 | 1.83 | 2.44 |
| 8 | 0.33 | 0.49 | 0.65 | 0.98 | 1.31 | 1.63 | 1.96 | 2.61 |
| 9 | 0.35 | 0.52 | 0.69 | 1.04 | 1.39 | 1.73 | 2.08 | 2.77 |
| 10 | 0.37 | 0.55 | 0.73 | 1.10 | 1.46 | 1.83 | 2.19 | 2.92 |
| 11 | 0.38 | 0.57 | 0.77 | 1.15 | 1.53 | 1.91 | 2.30 | 3.06 |
| 12 | 0.40 | 0.60 | 0.80 | 1.2 | 1.6 | 2.00 | 2.40 | 3.20 |
| 13 | 0.42 | 0.62 | 0.83 | 1.25 | 1.67 | 2.08 | 2.50 | 3.33 |
| 14 | 0.43 | 0.65 | 0.86 | 1.30 | 1.73 | 2.16 | 2.59 | 3.46 |
| 15 | 0.45 | 0.67 | 0.89 | 1.34 | 1.79 | 2.24 | 2.68 | 3.58 |
| 16 | 0.46 | 0.69 | 0.92 | 1.39 | 1.85 | 2.31 | 2.77 | 3.70 |
| 17 | 0.48 | 0.71 | 0.95 | 1.43 | 1.90 | 2.38 | 2.86 | 3.81 |
| 18 | 0.49 | 0.73 | 0.98 | 1.47 | 1.96 | 2.45 | 2.94 | 3.92 |
| 19 | 0.50 | 0.75 | 1.01 | 1.51 | 2.01 | 2.52 | 3.02 | 4.03 |
| 20 | 0.52 | 0.77 | 1.03 | 1.55 | 2.07 | 2.58 | 3.10 | 4.13 |
| 21 | 0.53 | 0.79 | 1.06 | 1.59 | 2.12 | 2.65 | 3.17 | 4.23 |
| 22 | 0.54 | 0.81 | 1.08 | 1.62 | 2.17 | 2.71 | 3.25 | 4.33 |
| 23 | 0.55 | 0.83 | 1.11 | 1.66 | 2.22 | 2.77 | 3.32 | 4.43 |
| 24 | 0.57 | 0.85 | 1.13 | 1.70 | 2.26 | 2.83 | 3.39 | 4.53 |
| 25 | 0.58 | 0.87 | 1.15 | 1.73 | 2.31 | 2.89 | 3.46 | 4.62 |

NOZZLE BODIES AND CAPS FOR HORTICULTURE

- Caps for use with TurboDrop® Al nozzles in horticultural applications
- Nozzle bodies and o-rings used on Croplands sprayers for horticulture

Note – the complete nozzle body, when ordered from Croplands, comes with a cap/caps to suit. When ordering caps and o-rings to suit TurboDrop® Al nozzles, use the codes on the right-hand side of the table below.

- » Choose the correct cap to suit the nozzle body on your sprayer
- » The TurboDrop® uni narrow angle nozzles click together and remain in the cap once assembled. They cannot be disassembled – so choose the cap you need
- » Suitable o-rings are required for a complete seal see table below



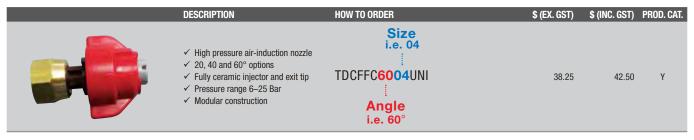
| NOZZLE BODY | FITTED TO | CAP AND O-RING TO ORDER | DESCRIPTION | ORDER CODE | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|--|---|-------------------------|---------------------------------|------------|--------------|---------------|------------|
| B716.617.2 (standard type) | Croplands Cropliner® sprayers, Silvan models and other brands | B716.605.3 | Brass cap | B716.605.3 | 2.39 | 2.66 | Y |
| | Croplands Cropliner® sprayers for organic spraying | B716.605.3 | Brass cap | B716.605.3 | 2.39 | 2.66 | Y |
| B73.610.105 (organic type) | Croplands Cropliner® and Cropliner SP® front entry fan models | B75.605.46 | Brass cap | B75.605.46 | 2.39 | 2.66 | Y |
| B75.617.6E (standard type) | Croplands Cropliner® and Cropliner SP® front entry fan models | B75.605.46 | Brass cap | B75.605.46 | 2.39 | 2.66 | Y |
| B264.612.172 | Croplands Quantum Mist® sprayers | B256.605.7 | Nickel plated cap | B256.605.7 | 3.44 | 3.82 | V |
| B67.617.67 | Croplands Quantum Mist® tower sprayers | B256.605.7 | Nickel plated cap | B256.605.7 | 2.29 | 2.54 | Y |
| O-rings to seal the caps on all listed nozzle bodies above | Croplands Quantum Mist® sprayers | B73.602.22 | 0-ring, 16mm 0.D. x 10.8 l.D | B73.602.22 | 2.29 | 2.54 | Y |

PRICING FOR NOZZLE BODIES SHOWN IN TABLE ABOVE

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT |
|--------------|--|--------------|---------------|-----------|
| B716.617.2 | Standard swing-over nozzle body, suits Croplands Cropliner sprayers. | 43.05 | 47.84 | Υ |
| B73.610.105 | Organic model swing-over nozzle body, suits Croplands Cropliner sprayers for organic applications. | 39.25 | 43.60 | Υ |
| B75.617.6E | Swing-over nozzle body for Croplands front-entry fan models | 46.90 | 52.11 | Υ |
| B264.612.172 | Single swivel nozzle body for Croplands Quantum Mist® sprayers | 13.68 | 15.20 | Υ |
| B67.617.67 | Non-drip body with shut off for Croplands Quantum Mist® sprayers | 41.24 | 45.82 | Υ |



TURBODROP® NARROW ANGLE AI NOZZLES



For choosing the right cap to suit the TurboDrop® narrow angle Al nozzles and nozzle body, see previous page.

KEY FEATURES

- Narrow angle horticultural flat fan venturi nozzle designed specifically for horticultural applications
- All wearing components made from high quality ceramic material – ideal for reducing wear when using abrasive powders and granulated formulations in suspension
- ISO colour coded for easy identification
- Coarse to extra coarse droplet for effective drift reduction, even at high pressure
- High droplet speed for good projection and excellent penetration over a wide pressure range
- European JKI approved for up to 90% drift reduction

USES

- Axial-type air-blast fans for specific applications (i.e. HiCane application in kiwifruit)
- Top nozzles on airblast fans to reduce drift in upper canopies
- Croplands Quantum Mist sprayers for early season spray applications to reduce drift and improve coverage on tree branches, buds and vine cordons

PRESSURE RANGE





| | | | NOZZLE | SIZE (ISO COLOUR C | ODED) AND OUTPUT IN | L/MIN | | |
|-----|------|------|--------|--------------------|---------------------|-------|------|------|
| BAR | 01 | 15 | 02 | 025 | 03 | 04 | 05 | 06 |
| 6 | 0.57 | 0.85 | 1.13 | 1.41 | 1.70 | 2.26 | 2.83 | 3.39 |
| 7 | 0.61 | 0.92 | 1.22 | 1.53 | 1.83 | 2.44 | 3.05 | 3.67 |
| 8 | 0.65 | 0.98 | 1.31 | 1.63 | 1.96 | 2.61 | 3.26 | 3.92 |
| 9 | 0.69 | 1.04 | 1.39 | 1.73 | 2.08 | 2.77 | 3.46 | 4.16 |
| 10 | 0.73 | 1.09 | 1.46 | 1.82 | 2.19 | 2.92 | 3.65 | 4.38 |
| 12 | 0.80 | 1.20 | 1.60 | 2.00 | 2.40 | 3.20 | 4.00 | 4.80 |
| 14 | 0.86 | 1.29 | 1.73 | 2.16 | 2.59 | 3.46 | 4.32 | 5.19 |
| 16 | 0.92 | 1.38 | 1.85 | 2.31 | 2.77 | 3.70 | 4.62 | 5.54 |
| 18 | 0.98 | 1.47 | 1.96 | 2.45 | 2.94 | 3.92 | 4.90 | 5.88 |
| 20 | 1.03 | 1.55 | 2.07 | 2.58 | 3.10 | 4.13 | 5.16 | 6.20 |
| 22 | 1.08 | 1.62 | 2.17 | 2.71 | 3.25 | 4.33 | 5.41 | 6.50 |
| 24 | 1.13 | 1.70 | 2.26 | 2.83 | 3.39 | 4.53 | 5.65 | 6.79 |
| 25 | 1.15 | 1.73 | 2.31 | 2.89 | 3.47 | 4.62 | 5.77 | 6.93 |

NOZZLES FOR HORTICULTURE

NOZZLES - DISCS AND CORES

| NOZZLE | TYPE AND DESCRIPTION | SAMPLE ORDER CODE | ТҮРЕ | SIZE RANGE, MATERIAL | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|--------|---|-------------------|------|---------------------------|--------------|---------------|------------|
| | Disc and Core Jets: Full and hollow cone spray patterns Medium to fine | AZ-AD4 | Disc | • 1 to 7 • Pink ceramic | 6.70 | 7.40 | Z |
| 4 | droplets for use in air assisted situations • 5–20 Bar recommended range | AZ-AC35 | Core | • 13 to 56 • Pink ceramic | 10.50 | 11.70 | Z |

DISC AND CORE ALBUZ CERAMIC - FLOWRATES

| | DICC CITE | CODE CIZE | ORIFICES | L/MIN | | | | ANGLES | | | | |
|-------------|-----------|-----------|----------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| | DISC SIZE | CORE SIZE | DIAMETER | 3 BAR | 4 BAR | 5 BAR | 6 BAR | 10 BAR | 15 BAR | 20 BAR | 10 BAR | 20 BAR |
| | AD 1 | AC 3 | 0,8 | 0,24 | 0,27 | 0,3 | 0,33 | 0,41 | 0,49 | 0,56 | 70° | 79° |
| | AD 2 | AC 13 | 1,02 | 0,31 | 0,35 | 0,39 | 0,42 | 0,53 | 0,64 | 0,73 | 87° | 97° |
| | AD 3 | AC 13 | 1,2 | 0,36 | 0,41 | 0,45 | 0,49 | 0,61 | 0,74 | 0,84 | 89° | 98° |
| | AD 4 | AC 13 | 1,56 | 0,45 | 0,52 | 0,57 | 0,62 | 0,78 | 0,93 | 1,06 | 99° | 103° |
| | AD 5 | AC 13 | 2 | 0,55 | 0,62 | 0,69 | 0,75 | 0,94 | 1,13 | 1,29 | 102° | 105° |
| | AD 1 | AC 23 | 0,8 | 0,28 | 0,32 | 0,35 | 0,38 | 0,48 | 0,57 | 0,65 | 66° | 74° |
| | AD 2 | AC 23 | 1,02 | 0,37 | 0,43 | 0,47 | 0,51 | 0,64 | 0,77 | 0,88 | 83° | 93° |
| | AD 3 | AC 23 | 1,2 | 0,44 | 0,51 | 0,56 | 0,61 | 0,76 | 0,92 | 1,04 | 84° | 92° |
| | AD 4 | AC 23 | 1,56 | 0,56 | 0,64 | 0,71 | 0,77 | 0,97 | 1,16 | 1,32 | 92° | 98° |
| | AD 5 | AC 23 | 2 | 0,72 | 0,82 | 0,91 | 0,99 | 1,24 | 1,49 | 1,7 | 96° | 99° |
| | AD 6 | AC 23 | 2,4 | 0,85 | 0,97 | 1,07 | 1,16 | 1,46 | 1,75 | 2 | 99° | 101° |
| 쀨 | AD 1 | AC 25 | 0,8 | 0,41 | 0,46 | 0,51 | 0,55 | 0,7 | 0,84 | 0,95 | 50° | 60° |
| 8 | AD 2 | AC 25 | 1,02 | 0,59 | 0,67 | 0,74 | 0,8 | 1,01 | 1,21 | 1,38 | 57° | 66° |
| \geq | AD 3 | AC 25 | 1,2 | 0,72 | 0,81 | 0,9 | 0,98 | 1,23 | 1,48 | 1,68 | 63° | 69° |
| HOLLOW CONE | AD 4 | AC 25 | 1,56 | 1,02 | 1,16 | 1,28 | 1,39 | 1,75 | 2,1 | 2,39 | 75° | 80° |
| 오 | AD 5 | AC 25 | 2 | 1,41 | 1,6 | 1,77 | 1,92 | 2,42 | 2,9 | 3,3 | 77° | 80° |
| | AD 6 | AC 25 | 2,4 | 1,73 | 1,97 | 2,18 | 2,37 | 2,98 | 3,57 | 4,07 | 82° | 85° |
| | AD 7 | AC 25 | 2,8 | 2,07 | 2,36 | 2,61 | 2,83 | 3,57 | 4,28 | 4,87 | 88° | 91° |
| | AD 1 | AC 45 | 0,8 | 0,48 | 0,55 | 0,61 | 0,66 | 0,83 | 1 | 1,14 | 32° | 39° |
| | AD 2 | AC 45 | 1,02 | 0,73 | 0,83 | 0,92 | 1 | 1,26 | 1,51 | 1,72 | 46° | 53° |
| | AD 3 | AC 45 | 1,2 | 0,92 | 1,05 | 1,16 | 1,26 | 1,58 | 1,9 | 2,16 | 48° | 52° |
| | AD 4 | AC 45 | 1,56 | 1,35 | 1,54 | 1,7 | 1,85 | 2,32 | 2,79 | 3,17 | 59° | 60° |
| | AD 5 | AC 45 | 2 | 1,92 | 2,19 | 2,42 | 2,63 | 3,31 | 3,97 | 4,52 | 68° | 70° |
| | AD 6 | AC 45 | 2,4 | 2,46 | 2,79 | 3,09 | 3,35 | 4,22 | 5,07 | 5,77 | 72° | 75° |
| | AD 7 | AC 45 | 2,8 | 3,01 | 3,43 | 3,79 | 4,11 | 5,18 | 6,21 | 7,07 | 79° | 80° |
| | AD 1 | AC 46 | 0,8 | 0,55 | 0,62 | 0,69 | 0,75 | 0,94 | 1,13 | 1,29 | 23° | 27° |
| | AD 2 | AC 46 | 1,02 | 0,92 | 1,05 | 1,16 | 1,26 | 1,58 | 1,9 | 2,16 | 26° | 30° |
| | AD 3 | AC 46 | 1,2 | 1,2 | 1,37 | 1,51 | 1,64 | 2,06 | 2,48 | 2,82 | 30° | 30° |
| | AD 4 | AC 46 | 1,56 | 2,03 | 2,32 | 2,56 | 2,78 | 3,5 | 4,2 | 4,78 | 35° | 35° |
| | AD 5 | AC 46 | 2 | 3,11 | 3,54 | 3,91 | 4,24 | 5,34 | 6,41 | 7,3 | 40° | 42° |
| | AD 6 | AC 46 | 2,4 | 4,12 | 4,69 | 5,18 | 5,62 | 7,08 | 8,49 | 9,67 | 45° | 46° |
| | AD 7 | AC 46 | 3,230 | 5,49 | 6,40 | 7,10 | 7,84 | 10,16 | 12,43 | 14,33 | 55° | 53° |
| | AD 1 | AC 31 | 0,8 | 0,53 | 0,61 | 0,67 | 0,73 | 0,92 | 1,1 | 1,25 | 39° | 39° |
| | AD 2 | AC 31 | 1,02 | 0,82 | 0,93 | 1,03 | 1,12 | 1,41 | 1,69 | 1,92 | 87° | 95° |
| | AD 3 | AC 31 | 1,2 | 0,87 | 0,99 | 1,1 | 1,19 | 1,5 | 1,8 | 2,05 | 65° | 62° |
| | AD 1 | AC 35 | 0,8 | 0,53 | 0,61 | 0,67 | 0,73 | 0,92 | 1,1 | 1,25 | 34° | 40° |
| | AD 2 | AC 35 | 1,02 | 0,92 | 1,05 | 1,16 | 1,26 | 1,58 | 1,9 | 2,16 | 39° | 39° |
| CONE | AD 3 | AC 35 | 1,2 | 1,28 | 1,46 | 1,61 | 1,75 | 2,2 | 2,64 | 3 | 44° | 42° |
| 8 | AD 4 | AC 35 | 1,56 | 2,08 | 2,37 | 2,62 | 2,84 | 3,58 | 4,3 | 4,89 | 77° | 72° |
| | AD 5 | AC 35 | 2 | 2,62 | 2,98 | 3,3 | 3,58 | 4,51 | 5,41 | 6,16 | 37° | 34° |
| II. | AD 2 | AC 56 | 1,02 | 0,88 | 1 | 1,11 | 1,2 | 1,52 | 1,82 | 20,7 | 21° | 20° |
| | AD 3 | AC 56 | 1,2 | 1,19 | 1,36 | 1,5 | 1,63 | 2,05 | 2,46 | 2,8 | 28° | 32° |
| | AD 4 | AC 56 | 1,56 | 2,05 | 2,33 | 2,58 | 2,8 | 3,52 | 4,23 | 4,81 | 35° | 38° |
| | AD 5 | AC 56 | 2 | 3,46 | 3,94 | 4,36 | 4,73 | 5,96 | 7,15 | 8,14 | 43° | 40° |
| | AD 6 | AC 56 | 2,1 | 5,11 | 5,82 | 6,43 | 6,98 | 8,78 | 10,54 | 12 | 56° | 49° |
| | AD 7 | AC 56 | 2,3 | 6,87 | 7,81 | 8,64 | 9,38 | 11,8 | 14,17 | 16,12 | 68° | 64° |
| | ,,,,,,, | 7.0 00 | 2,0 | 0,0. | -,,,, | 5,5 . | 0,00 | ,0 | , | . 5,12 | | |



CHECKING SPRAY COVERAGE

The appearance of a spray cloud interacting with the canopy does not provide accurate indications about coverage achieved in the canopy. More often than not the perception of the human eye is not even close to the real coverage achieved. For example, the plumes of high volume applications will generally look reassuringly better than the hardly visible plumes from low volume applications. Yet, coverage with the lower volume is often equivalent or even better.

Hard to cover surfaces may not allow deposition and what looks superficially like an effective plume may not translate into actual coverage. Therefore, for any realistic assessment of spray coverage it becomes imperative to create some unbiased standard with the help of spray indicators.



CLAY MARKERS

Their main use pattern is to protect fruits and leaves from sun burn. By far the most visible residues are produced by Surround which makes it an excellent product for the assessment of coverage. Spraying with Surround provides the advantage to see coverage over the entire canopy as a whole as well as in detail. Uneven banding or shading in the canopy can be picked up very effectively. Surround is the best method to demonstrate excessive run-off.

An assessment can be carried out soon after application, once the clay marker has dried. The sprayer can be modified according to shortcomings. This continuous workflow makes working on the set-up very effective.

A good visual spray indicator rate is 1.25kg/100 litre dilute volume. If a concentrate spray volume is used the x-factor rules must be applied.





The SNAPCARD APP allows the cards to be photographed and coverage to be measured.

WATER SENSITIVE PAPER

Water sensitive paper has the advantage that it is very easy to handle (but watch out for moisture) and store (used and unused) which make it an ideal tool for documentation. It can be assessed straight after the application and like clay, it is excellent to be incorporated into the work flow of the set-up.

It provides only a small snapshot of the canopy target and great care needs to be taken to produce a representative standard when placing the papers into the canopy. As a rule of thumb, if three out of ten papers show inadequate coverage the set-up needs improvement.



FLUORESCENT DYE

The glow of fluorescent dye in the light of a fluorescent torch under dark conditions can be quite spectacular. Even the tiniest droplets show up. The observer needs a fluorescent torch. Assessments are normally carried out in the night which makes it difficult to change set-ups on the go. Alternatively, leaves and fruits can be picked after application and observed in a darkroom during the day.

| ORDER CODE | DESCRIPTION | \$ (EX. GST) | \$ (INC. GST) | PROD. CAT. |
|------------|---|--------------|---------------|------------|
| L-M1111 | 1 litre fluoro dye | 126.32 | 140.35 | Х |
| L-M1115 | 4 litre fluoro dye | 378.95 | 421.05 | Х |
| 20301-1 | Water sensitive paper 76 x 26mm (3" x 1") pack 50 | 72.73 | 80.81 | Х |
| 20301-2 | Water sensitive paper 76 x 52mm (3" x 2") pack 50 | 121.53 | 135.03 | Х |

NOZZLE MATERIAL AND WEAR

Nozzle orifices are produced with different materials, the most durable of them being ceramic, followed by steel and various polymers. Nozzles with brass orifices are made from the least durable material.

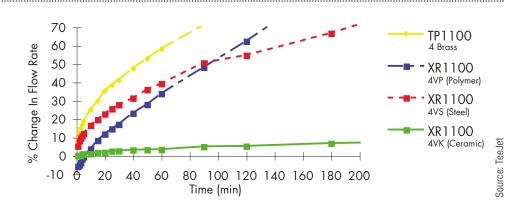
Worn or damaged nozzles will produce an uneven spray pattern with serious implications for efficacy. Worn or damaged nozzles in spray units without an automatic rate controller will increase the output, spoil calibration, and may create unnecessary extra costs due to over application.

Most new sprayers have rate controllers that will compensate by measuring liquid flow and adjust accordingly. However, they will cause under supply to the rest of the nozzles to adjust for the extra output of the worn nozzles. Again, this may result in an uneven spray pattern.

Nozzles should be checked for wear at least once per season. As a rule of thumb, nozzles made from durable plastic will need replacement every two years, nozzles with steel orifices should be replaced every three years and nozzles with ceramic tips should be replaced every four to five years.

These time frames will decrease with heavy use, especially when spraying abrasive chemicals.

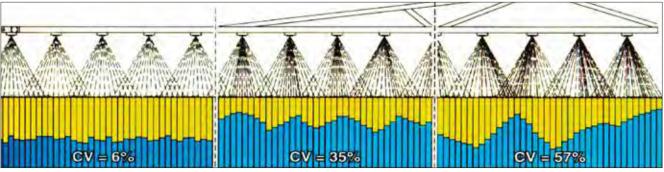
EFFECT OF NOZZLE MATERIAL ON NOZZLE WEAR: ACCELERATED WEAR TEST



UNIFORMITY OF SPRAY

Uniformity of spray is affected by:

- Worn or damaged nozzles
- Nozzle type, spacing and height
- Boom movement, stability
- » Liquid properties (adjuvants can have an uniforming effect, e.g. LI 700)



NEW SPRAY TIPS

Produce a uniform distribution when properly overlapped.

WORN SPRAY TIPS

Have a higher output with more spray concentrated under each tip.

DAMAGED SPRAY TIPS

Have a very erratic output - over applying and under applying.

FLOW RATE

L/ha x km/h x W(m) L/min/nozzle=

600

For example, a farmer wants to spray $70\,L/ha$, drive with a speed of $18\,km/h$ and his boom has a nozzle spacing of $50\,cm$:

 $L/min = \frac{70 L/ha \times 18 km/h \times 0.5m}{= 1.05 L/min}$ 600

To do so he needs to us a nozzle that delivers 1.05 L/min. He has several options, for example, he could use an 025 nozzle size at 3.5 bar or an 02 size at 5.5 bar (see table).

L/min/nozzle = nozzle flow rate in litre per minute

L/ha km/h = water application rate per hectare

= driving speed = width of nozzle spacing in metres W 600

= constant

TRAVEL SPEED

Speed (km/h) = $\frac{\text{Distance (m)} \times 3.6}{\text{Distance (m)} \times 3.6}$

For accurate application it is important to calibrate the speed of the tractor. An easy way to do so is to drive in the gear the application will be done in, measure the time it takes to travel 100 metre and apply this simple formula. For example, it takes the farmer 20 sec to drive 100 metre. His application speed is 18km/h.

 $100m \times 3.6$ = 18 km/h Speed (km/h) = 20 sec

APPLICATION RATE

For indicative freight prices, see page 103.

Application rate (L/ha) =

Photos are for illustrative purposes only. Prices and specifications

are subject to change without notice. Prices effective January 2019.

L/min/nozzle x 600 km/h x W

PRESSURE

- 1 bar (bar) =
- » 100 kilopascal (kPa) » 14.5 pounds per square inch (PSI)
- 1 pound per square inch (PSI) = » 6.89 kilopascal (kPa) » 0.0689 bar (bar)

As a rule of thumb, to double the flow through a nozzle, the pressure must be increased four times. Higher pressures increase drift (less so for Al nozzles) and increase the rate of orifice v

SPOT/BAND SPRAYING

ource: TeeJet

For spot and band spraying, the same formula can be used but W (nozzle spacing) becomes the spray width divided by the number of directed nozzles

For example, a grower directs 3 nozzles over a 1 metre strip:

1 m _= 0.33 m 3 nozzles

TERMS AND CONDITIONS OF SALE

GENERAL TERMS AND CONDITIONS OF SALE ("TERMS")

Croplands Equipment Pty Ltd (ACN 006 450 184, "Croplands") hereby agrees with you that, unless expressly amended in writing by Croplands, these Terms comprise the only terms for the supply and sale of goods by Croplands to you and supersede all other terms, conditions or agreements between us and without further notice, will apply to all future transactions between Croplands and you. These Terms override anything that may be implied or expressed on your orders or your own documentation. In these Terms: "goods" means all agricultural products or services supplied to you by Croplands; "you" means Croplands' customer. If you are more than one, these Terms bind each of you jointly and severally.

1. QUOTES

- (a) A quote by Croplands is an invitation to you to do business with Croplands, it is not an offer. A quote will remain valid for seven (7) business days from the date of the quote, after which time it may be altered or withdrawn without any notice to you.
- (b) Any alteration to a quote will be effective only if it is in writing and altered by Croplands.

2. ACCEPTANCE

2. AUCET IANUE Your order(s) will be accepted by Croplands either when Croplands communicates its acceptance to you, or when Croplands takes steps to fill your order, irrespective of whether those steps are communicated to you. Croplands' acceptance of monies, however paid to it, will not constitute an acceptance of your order. Croplands may, in its sole discretions, without any liability to you, cancel any accepted order at any time.

3. WARRANTIES

(a) Any provisions or rights under the Competition and Consumer Act 2010 or relevant state legislation which cannot be excluded by those statutes or by law are not intended to be excluded by these Terms. All warranties, guarantees and conditions, other than those expressly stated in these Terms and whether implied by statute, common law, custom or otherwise are to the extent that the law permits, expressly excluded.

If you have acquired goods as a Consumer, these conditions of sale shall not exclude, limit, restrict or modify the rights, entitlements and remedies conferred upon you or the liabilities imposed upon us, by any condition or warranty implied, by the commonwealth, state or territory act or ordinance, rendering void or prohibiting such exclusion, limitation, restriction or modification.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

- (b) You accept all risk and responsibility for consequences arising from the use of the goods whether singly or in combination with other products.
- (c) Any liability incurred by us to you is limited to the replacement or repair of the goods or (at our option) refund of the price paid by you, for a period of 12 months from the date of sale, provided the goods have not been damaged through misuse or handling and in particular does not extend to consequential loss.
- (d) To make a claim under this warranty, you can contact us on warranty@croplands.com.au, or call 1800-999-162, or contact your local Croplands Representative listed on the www.croplands.com.au/pages/contact.html website. The Buyer should specify the full particulars of such claim and wherever possible return a sufficient part of the Goods to enable a proper examination by the Seller.
- (e) Any advice, recommendation, information, assistance or service provided by Croplands in relation to the goods or their use or application is given in good faith, is believed by Croplands to be reliable, but is provided with an express disclaimer for any liability or responsibility on the part of Croplands.

4. PRICES

- (a) All prices unless otherwise stated are expressed in Australian currency and exclude the costs of delivery.
- (b) Notwithstanding any price contained in your order form or other document submitted by you, the price(s) charged to you, subject to clause 1, shall be the price(s) ruling as at the date of delivery. Any price indications or price lists are subject to alteration by Croplands from to time to reflect price(s) ruling as at the date of delivery.
- (c) If any statutory charge, duty, impost or tax (including GST) ("charge") is levied in respect of the goods and that charge has not been allowed for by Croplands in calculating the price or when raising an invoice, then you must pay that charge and the price for the goods will increase accordingly.
- (d) Croplands may ask you to pay the whole or any part of the price for the goods at any time prior to delivery, as Croplands considers appropriate.

(e) Croplands may change the price for the goods at any time.

5. DELIVERY OF THE GOODS

- (a) You must pay all costs of freight, delivery and unloading the goods and you must reimburse Croplands for all costs, which it incurs on your behalf in this regard.
- (b) You will pay any additional charges incurred by Croplands if you direct it to deliver the goods at times or to addresses different from those specified in your order as accepted by Croplands
- (c) You will accept delivery of the goods when they are delivered to the address on your order.
- (d) If you fail to accept delivery of the goods, Croplands may deliver them to a place of storage nominated by you or, failing such nomination, to a place determined by Croplands. Delivery in this way will be deemed to be delivery of the goods to you. You be liable for all costs incurred by Croplands for storage, detention, double cartage or similar causes if these costs are caused by your inability or failure to accept the goods upon delivery.

6. RISK AND INSURANCE

- (a) You assume all risk in the goods (including Consigned Goods) upon delivery, even if you have not signed a receipt for the goods.
- (b) You must insure the goods so that your insurance is effective immediately upon receipt of delivery of the goods.

7. DELAYS

Whilst Croplands will make reasonable efforts to deliver the goods to you by your requested delivery date(s), it will be under no liability whatsoever if delivery is not made on the date(s) requested. You agree that your requested delivery date is an estimate only. Croplands shall not be liable for any delayed or non delivery of goods.

8. FORCE MAJEURE

- (a) If Croplands is unable to deliver the goods because of any acts of god, wars, insurrection or other significant internal disturbance, fire, floods, accidents, breakdowns of plant or machinery, unavailability of or delays in shipping, transport strikes, lock-outs of workers, shortages or other default by suppliers of fuel, power or raw material, priority for supplies claimed by the Federal or State Governments of the Commonwealth of Australia or any overseas government, or any other similar happening or event ("force majeure"), then:
 - (i) you will not be entitled to make any claim against Croplands for any delay in the manufacture or delivery of the goods ordered;
 - (ii) whilst the delay continues, after 90 days of delay, Croplands and you will each have the option to cancel any
- (b) Subject to Clause 8(a), you may not cancel any order or any part of it for any other reason without Croplands' prior consent in writing.
- (c) Croplands may consent to your proposed cancellation of any order or any part of it if you pay to Croplands what it considers to be a fair and reasonable amount to fully compensate it for any costs, expenses, loss of profit and consequential damage that it may have incurred or may suffer because of the cancellation.

9. PAYMENT

- (a) Subject always to clause 9(c) herein unless otherwise agreed in writing, all goods you order from Croplands will be paid on the 20th of the month following the close of the preceding calendar month. Time for such payment will be the essence of these Terms.
- (b) You must pay for the goods invoiced when the invoice is due for payment, even if you have not received all of the goods on that invoice.
- (c) Croplands' express or implied approval of a credit facility in your favour may be revoked at any time, without any reason being given.
- (d) If you become an insolvent pursuant to any of the provisions of the Corporations Act 2001 or the Bankruptcy Act 1966 or similar law or statute, all amounts then owing by you to Croplands, whether or not those amounts are then due under clause 9(a), will immediately become due and payable.
- (e) If you fail to pay any amounts due as required, then:-
 - (i) In addition to the invoiced amounts, and without prejudice to any of Croplands' other rights and remedies:-
 - (A) You must pay interest on all amounts due and payable to Croplands at the rate equal to the target cash rate of the Reserve Bank of Australia plus 5% at the time the relevant amounts fall due, calculated from the date that each amount you owe Croplands becomes due and payable; interest will continue to accrue until all the monies you owe are received in cleared funds by Croplands.
 - (B) You must indemnify Croplands for all loss and damage it incurs because of your failure to pay all amounts due to it by the due date(s);
 - (C) You must indemnify Croplands for all costs, loss and damage it incurs in taking possession of the whole or part

- of the goods and reselling them or by any other reason, if that loss and damage is the result of your conduct;
- (D) You must pay interest on all loss and damage suffered by Croplands at the rate set out in sub-clause 9(e)(i)(A) as a result of your conduct or your breach of these Terms;
- (E) You must pay all costs, charges and expenses ("costs") incurred by Croplands in enforcing or attempting to enforce any of its rights under these Terms (including recovering any loss and damage or unpaid amounts). In the case of legal costs, you will pay Croplands' legal costs on an indemnity basis; and
- (F) You must deliver up the goods to Croplands immediately upon receipt of a demand in writing from Croplands to this effect. If you do not comply with the demand within one (1) business day of receipt of the demand, you authorise Croplands to enter upon your premises (whether owned or leased) at any time to do all things necessary to take possession of the goods. You must pay all costs of and incidental to Croplands' exercise of its rights under this clause on the basis set out in clause 9(e)(i)(E).
- (f) You authorise Croplands to apply any payments received from you first to satisfy interest which may have accrued on the amounts you owe it, next to any legal or other costs Croplands may have incurred in recovering the amount(s) from you, and then only to the principal amount.
- (g) Croplands may require you to pay the price for the goods at any time prior to delivery.
- (h) If you are involved in any dispute with Croplands, you must still pay all amounts due to Croplands. You must not withhold payment, set off or "contra" any amounts that you owe Croplands because of any claims that you may have, whether on account of your supply of goods, to Croplands, damages or other allegation against Cronlands

10. RETENTION OF TITLE

- (a) Subject to clause 10(b), and unless otherwise notified in writing, you are authorised to sell or use the goods if it is in the ordinary course of your business to do so.
- (b) Until full payment in cleared funds is received by Croplands for all goods sold by it to you, and any other amounts owing to Croplands are paid:-
 - (i) title and property in the goods will remain vested in Croplands and will not pass to you;
 - (ii) you must hold the goods as fiduciary bailee and agent for Croplands; and
 - (ii) you must keep all goods supplied and delivered to you by Croplands separate from your and other property, and in a manner to enable Croplands' goods to be identified.
- (c) If you sell, dispose of or use the goods before full payment in cleared funds is made to Croplands, until such full payment is made, you will hold all monies resulting from such sale, disposal or use on trust for Croplands in a separate account. You must not mix the monies you hold on trust for Croplands with your or any other monies and you must specifically identify relevant trust monies in your accounts as Croplands' property.
- (d) If you combine or incorporate the goods with other goods (not being the property of Croplands) before full payment in cleared funds is made to Croplands, so that Croplands' goods become mixed with goods of others, you authorise Croplands to dismantle and remove its goods from the other goods, if such dismantling or removal is possible without destroying the goods, yours or others' goods.
- (e) If you combine the proceeds of sale of the goods with other money in your bank account before you pay Croplands for the goods, you must expressly hold those proceeds on trust for Croplands and you hereby authorise Croplands to trace and receive those proceeds ahead of all other creditors, including secured creditors.
- (f) Croplands shall have a lien on any of your goods if you owe it money for goods sold and delivered to you, or if you owe it money for any loss and damage that you have caused to Croplands

11. ASSIGNMENT OF DEBT

- (a) In consideration of Croplands' agreement to supply the goods to you on these Terms, and Croplands' undertaking to reimburse to you all of your profit in respect of the goods or any end product' manufactured or cultivated with the goods ("end product"), you hereby assign to Croplands the whole of proceeds of the sale of the goods or end product to your customers, including any insurance proceeds payable to you in respect of your insurance of the goods or end product, immediately that the goods or any end product are either sold to your customers, or damaged or destroyed, whichever appropriate ("the assigned debt").
- (b) The assignment to Croplands in clause 11(a) above will be effected simultaneously with and automatically upon the sale of the goods, or any end product, to your customers.
- (c) Notwithstanding the assigned debt, Croplands will always be entitled to sue you for the price of the goods if you do not pay for them when payment is due.

- (d) If any part of the assigned debt is paid to or received by you, you acknowledge and declare that you receive and hold the assigned debt upon trust for Croplands, that you will not deal with or treat that receipt as part of your own money and will forthwith pay it to Croplands. Croplands will have the right to trace the assigned debt you receive from your customers to your bank account, even if those monies become mixed with other monies in your account.
- (e) You promise that you will execute any documents, do any acts or other things that Croplands may reasonably require you to do to further or more perfectly transfer the assigned debt to Croplands.
- (f) You will deliver possession and control of any documentation relating to or proving the assigned debt to Croplands upon Croplands' request, and Croplands jointly with you will be responsible for the management and collection of the assigned debt from that time on.
- (g) You promise that immediately upon effecting each and every sale of the goods or end product to your customers, you will (at Croplands' request) do all things necessary to inform your customers of the form and substance of this assignment, and further, do all things necessary to enable Croplands to collect the assigned debt from your customers.

1. PERSONAL PROPERTIES SECURITY ACT 2009 (PPSA)

- (a) In this clause 12, unless otherwise defined in these Terms, capitalised expressions have the meaning given to them in the PPSA
- (b) You acknowledge and agree that by entering into a contract of sale under these Terms, you grant a Security Interest to Croplands in the goods and any proceeds of sale in respect to those goods and also consent to Croplands registering any one or more Financing Statements or Financing Change Statements in respect to any such Security Interest created by or contemplated by these Terms.
- (c) You and Croplands agree for the purposes of satisfying s20(1) (iii) of the PPSA, that the description of goods as shown on any invoice from Croplands is the subject of each and any Security Interest created under these terms and such and every invoice is incorporated into these Terms.
- (d) You agree that you are the Grantor and Croplands is the holder of a Purchase Money Security Interest (PMSI) by virtue of these Terms or the PPSA.
- (e) You agree that the following provisions of the PPSA will not apply to these Terms: Sections 95, 96, 125, 129, 130, 132(3) (d), 132(4), 135, 142 and 143.
- (f) Unless otherwise agreed in writing with Croplands, you agree to waive your rights to receive a verification statement in accordance with s157 of the PPSA.
- (g) For the purposes of s275(6) of the PPSA, you and Croplands agree that neither party will, or is entitled to, disclose information of the kind specified in s 275(1) of the PPSA.
- (h) You agree with Croplands that it will not enter into any agreement or arrangement which permits any other person to register any Security Interest in respect to unpaid goods, proceeds of sale of unpaid goods or any accounts owed in respect of the unpaid goods without Croplands' consent.
- (i) You agree to give Croplands at least 10 days prior written notice before changing any of your corporate details, such as your name, ABN or ACN, or principle place of business.
- (j) You agree to unconditionally ratify any actions taken by Croplands under this clause 9.
- (k) You agree to reimburse Croplands for all costs and/or expenses incurred or payable by Croplands in relation to registering, maintaining or releasing any Financing Statement or Financing Change Statement under these terms.
- (l) This clause 9 will survive the termination of the contract for sale and purchase of goods between you and Croplands to the extent permitted by law.

2. CLAIMS AND RETURNS

(a) You must inspect the goods immediately on delivery and must, no later that seven (7) business days of receipt of the goods, give notice in writing to Croplands if the goods are not in accordance with Croplands' specifications for the goods or if the goods are damaged, short supplied or otherwise allegedly defective. If you do not give such notice within 7

- days, you must accept and pay for the goods and you are no longer able to make any claim. Time is of the essence in the giving of such notice.
- (b) You may not make a claim against Croplands in respect of the goods unless at the time of the claim all of the goods the subject of the claim remain intact as a whole. Any disposal or use of any part of the goods will mean that you have accepted the goods and can no longer make any claim.
- (c) You grant to Croplands full and free access to the premises owned or occupied by you to enable Croplands to investigate any claim you make. Croplands' investigation of your claim does not constitute an admission of liability.
- (d) Croplands may, in its sole discretion, accept the return of the goods or refund you the purchase price of the goods. The invoice and/or the delivery note number must be supplied with the goods if they are returned.

3. LIMITATION OF LIABILITY AND INDEMNITY

- (a) Any representation made by Croplands in relation to the goods, their use, suitability for your purpose or application is given in good faith, is believed by Croplands to be reliable, but is provided with an express disclaimer for any liability or responsibility on the part of Croplands, You acknowledge that Croplands is not or may not be aware of your intended end use of the goods.
- (b) Subject only to the extent permissible at law, you agree that Croplands will not be liable to you for any consequential loss or damage that you incur or suffer as a direct or indirect result of your purchase, use or application of the goods. You hereby expressly release and discharge Croplands from any and all such consequential loss or damage, however incurred, whether directly or indirectly as a result of:-
 - (i) your purchase, sale, use or application of the goods;
 - (ii) any changes Croplands makes from time to time to the specifications or price of the goods; and
 - (iii) any delay or cancellation of your order
- (c) You accept all risk and responsibility for consequences arising from the improper use of the goods.
- (d) You acknowledge that any liability to you will be limited, in the case of any goods not in accordance with Croplands' specifications or if the goods are damaged, short supplied or otherwise allegedly defective only to:-
 - (i) replacement by Croplands of the goods; or
 - (ii) the issue of a credit note for the invoice value of the goods; or
 - (iii) the return of any monies that you have paid in respect of the goods; or
 - (iv) the return of the goods;
 - whichever Croplands in its absolute discretion considers appropriate.
- e) You will indemnify Croplands for all and any loss and damage whatsoever or howsoever incurred by it, whether as a direct or indirect result of your failure to observe these Terms, your failure to discharge your duties under the common law or your failure to discharge your duties under statute, or otherwise.

4. GOODS ON CONSIGNMENT

- (a) If you hold goods on consignment you must maintain accurate records of these goods as required by Croplands and rotate the goods so that the oldest are sold or used first.
- (b) You must provide to Croplands a reconciliation in respect of the goods on consignment immediately following the end of March, June, September and December each year ("reconciliation") advising:-
 - (i) The opening balance for that quarter, part numbers for the goods unsold, remaining in your possession and on consignment as at the commencement of the quarter;
 - (ii) the quantity of goods received from Croplands each quarter including the part numbers in respect of the goods received;
 - (iii) the quantity of goods sold in each quarter including the part numbers in respect of each of the goods sold; and
 - (iv) the closing balance for each quarter, part numbers of the goods unsold, remaining in your possession and on consignment as at the conclusion of each quarter.

- (c) You must notify Croplands as soon as you receive a purchase order from a customer for any of the goods on consignment. Croplands will invoice you each month for the price of the goods as the date(s) of sale to your customers. You must pay for the goods on consignment in accordance with clause 9.
- (d) Croplands will invoice you for any lost or damaged goods on consignment and you must pay for these goods in accordance with clause 9 of the Terms.
- (e) You may only dispose of or use the goods on consignment in accordance with these Terms.
 - All monies resulting from the sale of the goods on consignment will be dealt with in the manner set out in clause 9.

5. MISTAKE

Any mistake of fact on any quote, order, invoice, delivery docket or other document issued by Croplands in relation to the goods will not bind Croplands and Croplands may in its discretion issue such amended document as is required to rectify the mistake. You must comply with Croplands' amended document.

6. YOUR REPRESENTATIONS

You represent that:

- (a) the goods will only be used and applied in accordance with Croplands' directions and recommendations and in accordance with the registered label;
- (b) the goods will be handled with appropriate caution, care and protective clothing:
- (c) the goods will be used or applied with the appropriate utilities only;
- (d) you are aware that some goods purchased from Croplands are toxic, dangerous and hazardous to human health;
- (e) the goods the subject of any proposed claim have not continued to be used by you:-
 - (i) after you have become aware that the goods are damaged or defective in any way; or
 - (ii) after you have given written notice of the defects to Croplands;
- (f) you will report any defects to Croplands in accordance with clause 13.

7. ACCESS

You irrevocably grant to Croplands authority to enter into, forcibly or otherwise, all of your owned and leased premises for the purpose of inspecting or removing any of Croplands' goods.

8. DANGEROUS GOODS

You warrant to Croplands that after delivery of the goods and whilst Croplands retains any interest in the goods, you will comply with all applicable Acts, Regulations and Laws dealing with the transport, unloading, storage, sale or use of dangerous or hazardous materials.

9. LAW/INTERPRETATION

- (a) These Terms are to be interpreted according to the laws of the State of Victoria. The courts in the State of Victoria shall have exclusive jurisdiction to hear and determine all disputes of and incidental to these Terms, including any claims in respect of monies due to Croplands pursuant to these Terms, on account of a claim for damages or any other claim.
- (b) To the maximum extent permitted by law and statute, all warranties terms and conditions, expressed or implied by common law, equity, trade, custom, usage, statute or otherwise, in relation to the sale, supply, use or application of the goods, are excluded.

Croplands shall not accept any responsibility whatsoever (including consequential loss), or howsoever arising (including negligence) for any damage, injury or death connected with the sale, supply, use or application of the goods except for responsibility for the merchantable quality and except for any responsibility mandatorily imposed by statute.

10. SEVERANCE

If the whole or any part of these Terms is invalid or unenforceable for any reason, the invalid or unenforceable clauses will be severed from these Terms and the validity of the remaining clauses will be preserved.

Updated January 2019

CROPLANDS WARRANTY POLICY

Please be advised that until the Croplands Warranty Registration Card sent with each sprayer is completed by the purchaser of a Croplands unit, the sprayer is deemed to be void of any warranty. This warranty registration is to be completed and returned immediately to: Croplands Equipment Pty Ltd, P0 Box 2441, Dry Creek, South Australia 5094, and marked attention of Service Manager. It is highly recommended that as part of the sales process, the warranty policy is read and discussed with the customer to ensure there is no confusion as to what is, and what is not, covered by warranty. The Warranty Registration Card requires a signed declaration that the purchaser understands the warranty policy of Croplands. This is in your best interest as an agent for Croplands and will better serve your customer in the long term.





The following tables detail freight on items listed in the 2019 OPTIMA Buyers' Guide.

- These prices may change at any time without notice. These freight charges will apply unless items are ordered that qualify to be included in a stock order.
- These charges apply Australia-wide. Goods can be sent by your choice of carrier and/or arranged for pick-up, or sent freight forward if we are advised at the time of order.

TABLE 1: WHOLEGOODS - SENT BY ROAD FREIGHT AS INDIVIDUAL ITEMS

Most 'X' and some 'Y' product category items are only suitable for road freight. All freight prices include any applicable fuel surcharges and remote area surcharges.

| ı | ITEM | FREIGHT \$(EX. GST) |
|---|--|---------------------|
| | Linkage sprayers (P8–19) | |
| | LA300 and LA600 – all models up to 6m boom | \$250.00 |
| Т | LA800 – bare or with 6m boom | \$300.00 |
| Г | LA600/MAX08, LA800/MAX08 with 8m boom | \$500.00 |
| F | LA800/MAX10L with 10m boom | \$600.00 |
| Г | LA1000, LA1000/80 bare unit (no boom) | \$500.00 |
| Н | LA1000/80/8M, 10M and 12ML models with 8, 10 and 12m booms | \$600.00 |
| F | LA1000/MHL12 or MHL15 – 100 litre with 12/15m hyd fold booms | POA – ask for quote |
| Н | MEC1300/1600 with boom attached | POA – ask for quote |
| Н | Cropair 300 and 600 litre fan sprayers (P24–25) | POA – ask for quote |
| | Spray booms (P20–23) | TOTT GOIC TOT QUOTO |
| | MSO, MCL, MB02, MBX03, MBX04 booms | \$60.00 |
| | MC6, MBX06, MCL-2, MVB5-5 booms | \$80.00 |
| Н | MAX08 – flat pack only | \$90.00 |
| Н | MAX10 – flat pack only | \$120.00 |
| Н | MAX10L, MAX12L and GEX series booms – flat pack only | \$160.00 |
| | MHL 12 and 15m booms; BDU18 boom only – flat pack only | |
| | | POA – ask for quote |
| | Trailed 300 sprayers (P26–27) UA300B trailing sprayer (all models) and UA300B motorised | |
| | nursery sprayers | \$425.00 |
| | RetraSpray and traymount sprayers; Pony trailed sprayer (P28–33) | |
| | RSRL2-100RC RetraSpray reel | \$180.00 |
| | US200C/US300C complete units | \$350.00 |
| | US500/30/HR30TG, US500/30/TWIN traymount units | \$350.00 |
| | US600C complete units | \$400.00 |
| | 1100 and 1500 litre trailed Pony sprayers | POA – ask for quote |
| | CropPak 12-volt sprayers, knapsack sprayers and Apex sprayers (P34- | -40) |
| | US30S CropPak sprayer, ASATV-10 Apex 12-volt sprayer | \$50.00 |
| | US60, US100S, US100A/15 12-volt CropPaks, Apex ASAT-30M3 trolley sprayer, Apex mistblower | \$70.00 |
| | US200/15 | \$150.00 |
| | US400, US400/15 CropPak 12-volt CropPaks | \$350.00 |
| | Swissmex SW319 and SW320; Apex 5 and 10 litre units; ASGS-10 | \$30.00 |
| L | spreader x 1 unit | φ30.00 |
| | Swissmex SW319 and SW320; Apex 5 and 10 litre units; ASGS-10 spreader x 10 units | \$120.00 |
| | SW503, SW189C, ASBBS-16, ASBBS-10 and ASNS-15FB x 1 unit | \$35.00 |
| Ī | SW503, SW189C, ASBBS-16, ASBBS-10 and ASNS-15FB x 10 units | \$140.00 |
| | PAKMAN back protector, all Swissmex spray booms | \$30.00 |
| | Chemical mixing and batching units; mixing jugs and chemical transfe | r units (P41–43) |
| | Batchmaster 1200 litre chemical batching unit | POA – ask for quote |
| ĺ | L-H9351A 60 litre mixer | \$110.00 |
| ĺ | L-H9351A with L-H9355A dropdown bracket | \$125.00 |
| ĺ | L-H9353A, L-9353C 60 litre mixers with trolley | \$140.00 |
| | L-H9003 and 9005 measuring jugs, 10 each | \$30.00 |
| | L-H9003 and 9005 measuring jugs, up to 5 each | \$25.00 |
| f | L-H9025 25 litre buckets (each) | \$30.00 |
| f | L-H9025 25 litre buckets (x 3) | \$50.00 |
| | SHUSF-1105PTSI AgRunner transfer unit | \$40.00 |
| | Boomless nozzle kits, foam, foam markers (P44–45) | |
| | | |
| | | \$15.00 |
| | Boomless nozzle kits Foam markers | \$15.00 \$60.00 |

| ITEM | EDEIQUE A/EV OCT) |
|--|--------------------------|
| ITEM | FREIGHT \$(EX. GST) |
| Hose reels, hose, spray guns (P46–47) | *** |
| 30 metre rolls spray hose | \$30.00 |
| All hose reels and 100 metre rolls hose | \$60.00 |
| All spray guns x 1 | \$15.00 |
| All spray guns x 10 | \$60.00 |
| Firefighters and turf sprayers (P48–49) | |
| 500 litre traymount firefighter | \$350.00 |
| Trailed firefighters 1100/1500 litre models | POA – ask for quote |
| Trailed and traymount turf sprayers | POA – ask for quote |
| UW50/2B greens sprayer | \$90.00 |
| Spray pumps (P50–61) | |
| AR pumps with gearboxes – models AR303, AR30, AR503, AR813 | \$70.00 |
| AR pump models AR30, AR70, AR80, AR252, AR503 | \$35.00 |
| AR pump models AR140, AR160, AR185, AR245 and 250, AR275 and 280, ARBHA140, ARBHS170, ARBHS200 | \$80.00 |
| AR pumps models AR330 and AR410 | \$125.00 |
| Hypro centrifugal pumps | \$50.00 |
| FloJet and SHURflo 12-volt pumps x 1 unit | \$20.00 |
| FloJet and SHURflo 12-volt pumps x 10 unit | \$70.00 |
| Fertiliser spreaders (P62–64) | |
| AGR-SP150 trailed 150 spreader | \$250.00 |
| AGR-XA500 3-PTL spreader POA fo | or all 300/500 spreaders |
| Respirators, spray manifolds, spray controller kits and GPS units (P65- | -7 0) |
| Kasco respirators | \$30.00 |
| All control manifolds and I-E2021, 2032, 2052, I-E4020, 4021 | \$60.00 |
| All controller kits and GPS units (BA5000-GE03 etc) | \$50.00 |
| | ,,,,,,, |

TABLE 2: SPARE PARTS, COMPONENTS AND ACCESSORIES

Sent by airfreight/Australia Post for daily orders

Items such as:
• Spare parts

- Solenoids
- Spray guns
- Nozzles and nozzle caps
 - e caps Gloves and
- 12-volt pumpsRegulating valves
- Ball valves
- Respirators
- Gloves and suits Boom components
- Filters
- Gauges
- Tank fittings
- Camlocks
- Brass and poly fittingsMost 'Z' and some 'Y'
- products are suitable for airfreight

AIRFREIGHT

| ITEM | NOTES | \$ (EX. GST) |
|--------------------------------|---------|--------------|
| Parts, accessories, components | 1kg bag | \$15.00 |
| Parts, accessories, components | 3kg bag | \$20.00 |
| Parts, accessories, components | 5kg bag | \$30.00 |

Note: cut-off for air freight orders is 2:30pm ACDT. Anything placed after this time does not guarantee next day delivery.

AUSTRALIA POST

Croplands will no longer send orders by standard Australia Post due to the frequency of items being lost in transit (non-traceable). If method of dispatch is requested as post, Croplands will only use a signed receipt post option, priced as follows:

| ITEM | NOTES | \$ (EX. GST) |
|--------------------------------|-------------|--------------|
| Parts, accessories, components | 1kg-3kg bag | \$20.00 |

TABLE 3: STOCK ORDERS

| ITEM | NOTES | COST | | | |
|---|--|--------|--|--|--|
| Parts, accessories, components with a dealer nett value of \$2,000.00 + GST* | Mark your order clearly as a 'STOCK ORDER' Stock orders can take up to five working days to pack and dispatch Minimum of 15 individual lines must be ordered | F.I.S. | | | |
| *All items marked | in BLUE in Table 1 qualify for stock orders. | | | | |
| *All items marked in ORANGE in Table 1 do not qualify for stock orders. | | | | | |
| Croplands tanks do not qualify for stock orders. | | | | | |

PLEASE NOTE: MINIMUM ORDER VALUE IS \$50 EX GST.

CROPLANDS

OPTIMA™

NATIONAL SALES AND SUPPORT

NORTH

| REGIONAL MANAG | ER |
|----------------|----|
| Joromy Donniek | |

0409 065 994 TERRITORY MANAGERS

Coastal QLD/NT Rob Graham

0409 597 462

Central/South QLD Michael Clarke

0428 311 831

South QLD/North NSW

0407 485 569 Craig Blackett

Central NSW Dave Farmer 0427 651 971

REGIONAL MANAGER

Neill Morey 0429 512 477

TERRITORY MANAGERS

South NSW/VIC David Hamilton 0427 975 072

VIC Steve Ross

0417 832 784

South VIC Jeremy Deck

0430 006 672

SA/TAS

Andrew Germein 0417 848 590

Scott Richardson 0409 899 491

REGIONAL MANAGER

0407 132 746 John Griffiths

TERRITORY MANAGER

0448 022 172 **WA** Gavin Merritt

CROPLANDS HEAD OFFICE

50 Cavan Road Dry Creek SA 5094

Phone 08 8359 9300 Fax 08 8349 6175

Contact your local dealer or...

Croplands Australia

Freecall 1800 999 162 1800 623 778 Freefax

sales@croplands.com.au

f www.facebook.com/croplands Y www.twitter.com/Croplands

Technical Service 1300 650 724

YOUR CROPLANDS DEALER

NATIONWIDE DEALER LISTING

S & J Morrison 02 6284 2282

NEW SOUTH WALE

Albury Armidale Bangalow Bathurst Mark's Spray Barn Armidale Pumps & Irrigation Ace Ohlsson 02 6771 1645 02 6687 1452 02 6332 5655 On-Trac Ag Southwells Camden 02 4655 7004 Corowa O'Connors 02 6033 1666 Cowra Dubbo Cowra Machinery Centre Geronimo Farm Machinery 02 6342 5555 02 6826 8600 Finley Forbes Agtrade Machinery Forbes Machinery Centre Western Farm Machinery 03 5883 4560 02 6847 0318 Gilgandra Goulburn Griffith Goulburn Farm Machinery Guidolin Agrimac 02 4821 4148 02 6964 3400 Gunnedah Gunnedah NFS-Ag Vantage NSW 02 6742 7771 1300 770 970 Hexham Inverell Moree Kentan Machinery Inverell Pumps & Sprays Black Truck & Ag 02 4964 8275 02 6722 4088 02 6752 2277 Gwydir Spray Shop Cudgegong Rural Supplies On-Trac Ag Moree Mudgee 02 6752 8022 02 6372 3500 02 6372 2662 02 6632 3288 Mudgee On-Trac Ag Kyogle Tractors On-Trac Ag Coast & Valley Tractors 4U McPherson's Parts & Service Lawrence's Ag & Machinery Repairs Robertson Farm Machinery Keatra Medicinery Northern Rivers Orange 02 6362 5566 02 4360 4040 **Parkes** 02 6862 3888 0414 234 841 02 4885 1020 02 6552 5833 Pokolbin Southern Highlands Kentan Machinery Temora Truck & Tractor Service Taree 02 6977 1098 Temora Western Farm Machinery Tumut Farm Machinery JGW Harvest & Tillage Support Tottenham 02 6892 4078 02 6947 6422 02 6925 0427 Tumut Wagga Wagga Walgett Tyre & Machinery Service CJ & LH Wiesner Western Farm Machinery Gallaghers Machinery Windows Durch Walgett Walla Walla 02 6828 1500 02 6029 2151 Warren West Wyalong 02 6847 3422 02 6972 1057 Windsor Windsor Rural 1300 978 725 Coffs Harbour Farm Machinery Carruthers Machinery 02 6654 0658 02 6382 7233

NORTHERN TERRITORY

HD Pumps HD Pumps Humpty Doo 08 8988 1254 08 8947 1008

OUEENSLAND

Young

Tableland Pumps & Pipes A & B Rural 07 4091 2277 07 4783 4488 07 5494 6219 Atherton Ayr Beerwah Biloela Coochin Creek Co-Operative BMAS Biloela Bartec Rural Services 07 4992 5332 07 4785 2322 Bowen Bundaberg Cairns Lindsay Rural Allclass North 07 4150 0500 07 4050 7500 Turf Irrigation Services
Western Mechanical QLD
Dalby Mower Supplies
Dalby Rural Supplies
Cotton Growers Services Capalaba Capella 07 3245 6000 07 4984 9614 Daiby Dalby 07 4669 6885 07 4660 0400 07 4982 2255 Emerald 07 5468 0000 07 5462 1888 07 4056 1977 Agricultural Requirement Lockyer Farm Machinery NQ Rural Supplies Ingham Farm Centre GF Rural Supplies Gordonyale Ingham Innisfail 07 4776 1477 07 4061 1066 07 5463 5957 South East Queensland Tractor Sales & Service 07 4163 6162 Sengs Sales & Service

Kingaroy Mackay Mareeba Mackay Rural TGT Agriculture 07 4952 2466 07 4030 3190 Mareeha Think Water Mareeba 07 4092 7788 07 4098 2286 Mossman Ag Services Mount Barker

Dreyer Mechanical & Hydraulic Services South Burnett Machinery 0467 239 461 07 4168 1411 07 5476 4888 Murgon Tractor Machinery Implements Advanced Water Technologies Farm HQ Nambour 07 4194 2887 07 4945 2733 Pialba 07 4927 1888 07 4622 4528 07 4956 2139 07 4984 1258 Rockhampton Roma Milne Bros. Equipment Roma Pumps and Solar Sarina Farm HQ Springsure Tractors Vedelago Mechanical Repairs Springsure Stanthorpe 07 4685 2200 Toowoomba Spray Shop GF Rural Supplies 07 4634 4000 07 4068 1002 07 5496 6500 Toowoomba Tully

SOUTH AUSTRALIA

Norgo

Wamuran

1800 777 090 08 8752 1311 08 8628 2150 Adelaide Bordertown Adelaide Spray Shop O'Connors Cleve Crystal Brook Cummins Pringles Crouch Pringles Crouch Pringles Crouch 08 8636 2257 08 8676 2105 08 8522 2188 08 8139 7200 08 8821 2442 08 8584 5575 Gawler East Gepps Cross Tundarri Sales & Service Kadina Loxton AW Vater & Co Ronco Motors DJ's Growers Services Millicent Farm Supplies HRI Ag & Irrigation McLaren Vale 08 8323 8339 08 8733 4966 08 8556 8199 Mount Compass

Murray Bridge Daish Irrigation Naracoorte Kubpower Nuriootpa Farmer Johns Pinnaroo Ronco Motors Saddleworth Strathalbyn Strathalbyn Daish Irrigation Tanunda Virginia Wudinna

AW Vater & Co Bates Farm Machinery Kubpower
Vater Machinery
CRT Complete Ag & Seed Supplies
Convers Services Pringles Crouch

03 5743 1610

08 9842 8529

08 9842 2103 08 9765 1305

08 9951 1130 08 9063 2149

08 9755 5207

08 9635 1364 08 9661 1105

08 9731 0700 08 9071 6702 08 9071 5166 08 9397 2800

08 9964 7822

08 9965 5855 08 9965 7900

08 9921 5044 08 9827 1207

Statewide 03 6343 1666 Spray Shop Tasmania

VICTORIA Ballarat

Central Machinery Services 03 5332 0566 03 5448 8484 03 5390 2264 03 5492 2311 03 5455 2563 Beulah North West Ag Services Birchip O'Connors North West Ag Services Boort Charlton Cobram 03 5491 1976 03 5872 1722 03 5231 5022 03 5497 1144 North West Ag Services Cobram Farm Equipment Swayn & McCabe North West Ag Services N H Hall & Co Colac Donald 03 5468 1202 Dunolly 03 5482 2264 03 5572 1822 Agpower Phillips Farm Machinery Hamilton Hopetoun Horsham North West Ag Services O'Connors 03 5083 3133 03 5382 1727 Traction Ag Lipps Bulk Super 03 5381 1385 03 5452 1333 Horsham Kerang Lilydale Agpower
Traf Tractors
North West Ag Services
Jon Kay Agricultural Services
Sunrise Ag
Agg Tech Machinery
Traction An 03 9739 5006 Maffra Marnoo 03 5141 1700 03 5359 2240 03 9743 5644 03 5023 0284 03 5021 2722 03 5391 1144 03 5493 5251 Mildura Nhill Nullawil Traction Ag North West Ag Services Sunrise Ag North West Ag Services 03 5092 1031 03 5092 1381 Ouyen Quambat Sea Lake North West Ag Services North West Ag Services 03 5457 1341 03 5070 1080 Shepparton Shepparton St Arnaud O'Connors 03 5821 4555 Shepparton Ag 03 5832 3500 03 5495 3222 Spraver Centre St Arnaud Swan Hill North West Ag Services North West Ag Services 03 5495 2211 03 5032 5595 Sunrise Ag Swan Hill Kubota Swan Hill 03 5032 0099 03 5032 9290 Traf Tractors McGregor Machinery Class Harvest Centre Trafalgar Wangaratta 03 5633 1588 03 5722 9933 Warnambool 03 5561 1733 Warracknabeal O'Connors North West Ag Services 03 5398 1877 Warracknabea CJ & LH Wiesner North West Ag Services Agrispray Australia Wodonga Woomelang 02 6024 6444

WESTERN AUSTRALIA AFGRI Albany

Yarrawonga

Albany Boyup Brook Carnamah Corrigin Cowaramup Cunderdin Dalwallinu Donnybrool Esperance Esperance Forrestdale Geraldton Geraldton Geraldton Geraldton Gnowangerup Katanning Kununurra Lake Grace Manjimup Manjimup Merredin Moora Moora

Muchea Mukinbudin

Narembeer Narrogin

Pingelly Quairading

Northam

Perth

Wagin Wagin

Wangara Welshpoo

Witchcliffe

Neu-Tech Auto Electrics Cowaramup Tractor Sales **AFGRI** Machinery West AFGRI Esperance Rural Growers Agrishop Burando-Hill AgWest Machinery Geraldton Ag Services BTW Spray Shop Ord River District Co-Operative **AFGRI** Farmlink Rural Southern Forest Machinery Aa Implements AFGRI Cunninghams Ag CD Tractor Sales & Service Ag Implements

C&C Machinery

AFGRI

AFGRI