CROPLANDS

Cropmister

Parts & Operator's Manual

Part No. BS-POM009606

Contents

Welcome to Croplands

Congratulations on your astute purchase of this Croplands Sprayer!

This high quality, Australasian made sprayer is backed by local service and a highly reputable company with years of experience and dedication to the rural industries of Australasia.

We are committed to research and development of new and better spraying technology. We also welcome user comments on our product and service.

Our objective is simply to be the most excellent supplier of chemical application equipment in Australasia. Your communication will benefit both of us.

We recommend you read this manual thoroughly so that you are well versed with the proper operation and maintenance of your sprayer.

Properly used this sprayer will give you years of efficient, reliable operation.

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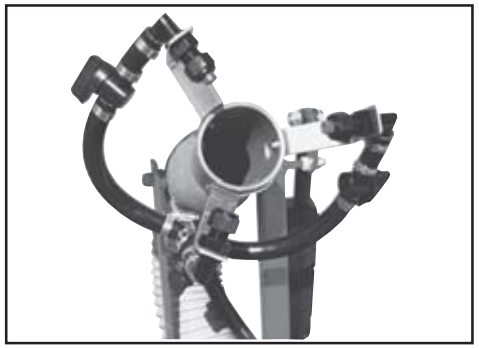
Description & Specification

450 litre Cropmister

The Cropmister sprayer is primarily designed for econoomical spraying broadacre fields.

The boom head now incorporates three nozzles for even effective spray coverage, and the fan is belt driven with a clutch to allow the unit to be used for spot spraying and other uses if desired.



3 nozzle boom head

Cropmister Specifications

Tanks
Impact resistant polyethylene tank with UV stabilised white finish. Calibrated tank, with screw type filling lid, basket strainer and sump.

Models available:

- 450 litre
- 550 litre

Blower
Belt driven high capacity turbine with clutch facility which operates up to 3600 RPM with flexible blower outlet. Electric remote control for blower tube direction.

Boom Head
Standard with 3 nozzles.

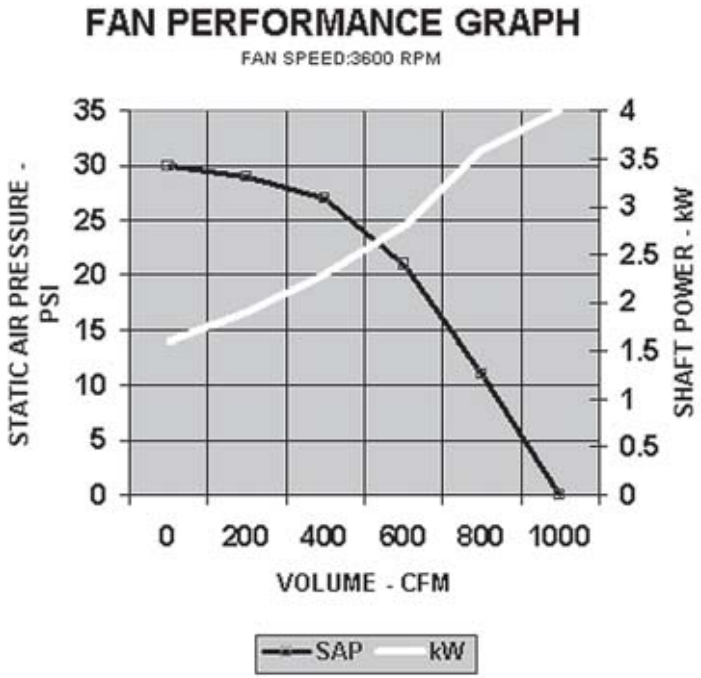
Power Drive
4.1kW (5.5hp) engine coupled via belts to the blower and pump.

AR202 pupmp

Pump
A&R positive displacement oil backed, high pressure diaphragm pump, AR202, 20 litre/minute, maximum pressure 20 bar.

Electric remote controller

Controller
Electric remote controller operates blower turning and On/Off control of spraying.



Machine specifications are subject to change without prior notification.

Shipping Information & Product Identification

450 litre Cropmister

Shipping Information

The following shipping information is provided but variations can occur without prior notification.

Dry Weight (approx)

450 litre 110 kg
550 litre 115 kg

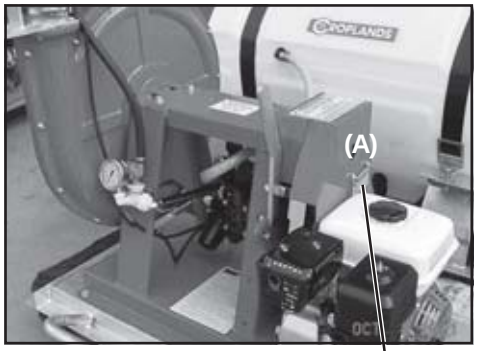
Dimensions (m)

	W x L x H
450 litre	1220 x 1740 x 1210mm
550 litre	1220 x 1740 x 1210mm

Product Identification

Always use the serial number of the Cropmister when requesting service information or when ordering parts.

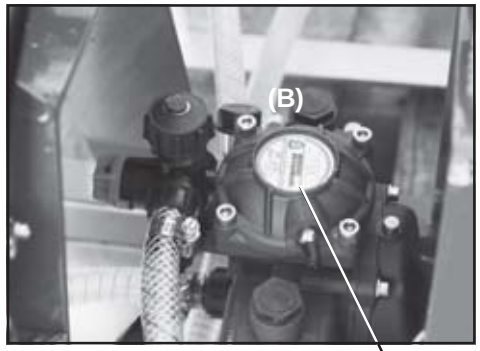
Early or later models (identification made by serial number) may use different parts, or it may be necessary to use a different procedure for specific service operations.



Cropmister Serial Number

Cropmister Serial Number Plate

The Cropmister Serial Number Plate is located on the main frame **(A)**. This plate shows name of manufacturer, serial number and date of manufacture.



Cropmister AR202 pump

Pump Serial Number Plate

The Pump Serial Number Plate is located on the pump **(B)**. This plate shows name of manufacturer, serial number, type of pump, year of manufacture, maximum flow rate and maximum working pressure of the pump.

Pre-Delivery Check List

The Croplands dealer must thoroughly check & pass (✔) the following items to ensure the unit is in good order and operating correctly before delivery:

1 Operator's Manual Supplied	(✔)		(✔)		(✔)		(✔)
- Cropmister.		**6 Pump**		**10 Agitation**			
- Honda engine.		- Check mountings.		- Check bypass tank agitation works.			
		- Check pump V-belt is in place and correctly tensioned.		- Check there are no leakages from joints.			
2 Specification				- Tighten all hose clamps.			
- Check machine is as ordered.		- Check operation.					
		- Belt guards fitted securely.		**11 Controller**			
3 Tank				- Check installation is correct.			
- Undamaged.		**7 Suction Lines**		- Check electric controller is directly connected to the battery..			
- Check mounting straps are in place.		- Undamaged.					
- Check all outlets sealed:		- Hose unobstructed, no kinking, no restrictions.		- Fully check operation of controller & solenoid valve.			
- Suction line.							
- Drain outlet.		- All joints sealed (no air leaks).					
- By-pass line.		- Suction filter clean, screen complete with O-Rings in place.		**12 Valves**			
- Check tank lid opens and closes correctly.				- Check all manual valves open and close easily and do not leak.			
		- Tighten all hose clamps.					
4 Boom Head		**8 Pressure Lines**		**13 Fan Housing**			
- Undamaged.		- Undamaged.		- Undamaged.			
- Check mounting clamps tight.		- Hose unobstructed, no kinks, no restrictions.		- Bolts tight.			
- Hose fittings tight.				- Fan guard fitted securely.			
- Nozzles fitted.		- All joints sealed (no leakages) - check all joints from pump to boom nozzles.					
				14 Decals			
5 Fan				- Check all decals are on the machine.			
- Check turbine is undamaged.				- Ensure all safety and warning decals are in place.			
- Check fan V-belt is in place and correctly tensioned.		**9 Nozzles**					
		- Undamaged.					
- Check fan lever clutch operates correctly		- Nozzles not worn or damaged.					
		- Nozzles correct size throughout.					
- Check pump V-belt is in place and correctly tensioned.		- Nozzle caps sealed (no leakages).					
		- Non-drip diaphragms working.					
- Belt guards fitted securely.							

Warranty Policy

Warranty Policy

Croplands Equipment Pty Ltd (trading as Croplands) warrants to its authorised Dealer, who in turn, warrants to the original purchaser (Owner) that each new Croplands' sprayer, part or accessory will be free from proven defects in material and workmanship for twelve (12) months after delivery to the first Owner according to the conditions outlined.

This warranty does not cover damages resulting from abuse, accidents, alterations, normal wear or failure to maintain or use the Croplands product with due care.

During the warranty period, the authorised Croplands Dealer shall repair or replace, at Croplands option, without charge for parts and labour any part of the Croplands product which fails because of defects in material or workmanship. The Owner must provide the authorised Dealer with prompt written notice of the defect (within 14 days of its occurrence), and allow reasonable time for replacement or repair.

Croplands (at its option) may request failed parts to be returned to the factory. Any travel time of a service technician and/or transportation of the Croplands product to the authorised servicing Dealer for warranty work are the responsibility of the Owner.

This warranty is in lieu of all other warranties (except those of title), expressed or implied, and there are no warranties of merchantability or fitness for a particular purpose.

In no event shall the authorised selling Dealer or Croplands be liable for downtime expenses, loss of chemicals, loss of machine use or other incidental, consequential or special damages.

Conditions of Warranty

1. The warranty is not transferable.
2. The Warranty Registration Form must be returned to Croplands by the Owner

   Operator within 14 days of taking delivery of the unit.

   Only when warranty registration is completed and returned, can Croplands fulfill all warranty obligations.
3. **Components and conditions <u>not covered</u> by warranty are:**

Abuse — Failure resulting from neglect, such as improper operation, lack of required maintenance or continued use of a sprayer after the discovery of a defect which results in greater damage to the unit.

Environmental Conditions and Application — Deteriorated or failed components such as: diaphragms, O-rings, hoses, seals, electrical wiring and connections damaged by corrosive chemicals, dirt and sand, excessive heat or moisture. Owners should ensure the type and strength of chemicals used in the sprayer are compatible with the design of the unit.
Warranty determination for these types of failures will be made by Croplands only after inspection of failed components. In most instances these will incur inspection charges and cost of replacement parts.

Normal Wear — Normal wear and consumable items such as: oils and lubricants, diaphragms, filter elements, flow meters, clutches, fan belts, drive belts, pivot pins, paint, light bulbs and nozzles are considered to be normal wear items and are not warranted.

Maintenance — Component failure caused by not performing scheduled maintenance service such as: oils, grease, failure to clean tanks, pumps, filters, spray lines, nozzles or any other blocked components. Not tightening or replacing loose or missing bolts, nuts, fittings, shields and covers.

Damage — Damages or machine failure caused by carelessness or accidental damage, improper operation, inappropriate transportation or storage of the sprayer or attachment.

Power Source — Failures due to faulty or inadequate electrical sources of power. Owners who use their own 12 volt power source must make sure that it is suitable for operating the spraying equipment.

Alterations — Any unauthorised alteration, modification, attachments or unauthorised repairs to the Croplands sprayer or attachments. Written approval must be obtained from Croplands for any such items to maintain warranty.

Removal & Installation — The time taken to remove and re-install a warranted part or component into other brands of sprayers will not be covered by Croplands warranty. Only parts and labour directly attributable to the repair of the Croplands unit is covered.

Clean-up Time — Croplands does not pay for cleaning the sprayer, parts, accessories or work area before or after the warranty repair. Clean-up time is affected primarily by the application or conditions in which the sprayer is operated and maintained. Since clean-up time can be so variable, cleaning time should be considered a customer expense.

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Transportation Costs — Warranty does not cover transportation or insurance costs for sprayers or other equipment needing repair or replacement of warranted components. Nor does it cover any freight or insurance costs in obtaining new parts or returning old parts to Croplands for inspection purposes.

Diagnostic Time — Warranty does not cover time required to diagnose a warranty problem. Diagnostic time is affected greatly by the training and expertise of the technician employed to do the job. With proper training of service personnel, diagnostic time should be at a minimum.

Croplands expects that Dealers will assign a well trained and proficient technician to handle any warranty repairs. Since Croplands is not in control of either of these responsibilities, we elect not to cover diagnostic time.

Non-Genuine Parts — Use of parts other than Croplands parts for repair of warranted parts will automatically negate any warranty. Warranted components must be replaced with genuine Croplands repair parts.

Unauthorised Repairs — Repairs by an unauthorised agent will automatically forfeit any warranty. Warranty repairs must be carried out by an authorised Croplands Dealer only.

Safety Instructions

Safety is the Operator's Responsibility

The Cropmister sprayer is primarily designed for economical spraying broadacre fields.

In operation, it is rugged and useful under a wide variety of conditions. This presents an operator with hazards associated with on-road transport and off-road varying terrain applications.

The Cropmister is capable of spraying a wide range of pesticides and the operator must be aware of the hazards associated with the Cropmister's operation

The dealer explains the capabilities, application and restrictions of the Cropmister.

The dealer demonstrates the safe operation of the Cropmister according to Croplands instructions materials; which are also available to operator.

The dealer can also identify unsafe modifications or use of unapproved attachments.

The following publications provide information on the safe use and maintenance of the Cropmister and attachments:

- The Operator's Manual delivered with the Cropmister gives operating information as well as routine maintenance and service procedures. It is a part of the Cropmister and must stay with the machine when it is sold.

  Replacement Operator's Manuals can be ordered from your Croplands dealer, Part No OM 0800.

- The Cropmister has machine signs (decals) which instruct on the safe operation and care. The signs and their locations are shown in the Operator's Manual.

  Replacement signs are available from your Croplands dealer (as shown on page ??.

Safe Operation Needs a Qualified Operator

A Qualified Operator Must Do the Following:

1 Understand the Written Instructions, Rules & Regulations

- The written instructions from Croplands are included in the Cropmister Operation & Maintenance Manual and on machine decals.

- Check the rules and regulations at your location. The rules may include any Federal and State safety requirements for the chemical applicator.

2 Have Training with Actual Operation

- Operator training must consist of a demonstration & verbal instruction. This training is given by your dealer before the Cropmister is delivered.

- The new operator must start in an area without bystanders and use all the controls until they can operate the Cropmister safely under all conditions of the work area.

3 Know The Work Conditions

- The operator must know any prohibited uses or work areas. They need to know about excessive slopes and rough terrain.

- Wear protective clothing as recommended by the chemical manufacturer. Always wear safety goggles when maintaining or servicing Cropmister.

- For an operator to be qualified, they must not use drugs or alcoholic drinks which impair alertness or coordination while working.

  An operator who is taking prescription drugs must get medical advice to determine if they can safely operate a machine.

Safety Instructions




Rules for Safe Cropmister Operation

• Always read your sprayer operator's manual thoroughly before operating. Accidents occur every year because of careless use of farm chemicals and arm machinery. You can avoid these hazards by observing these safety instructions.

• Dispose of all chemical containers as per instructions on label. Failure to do so could result in contaminating the environment with chemicals.

• Inspect hose and hose connections daily. Always wear rubber gloves when tightening connections. Damaged, loose or worn hoses could result in operator being exposed to toxic chemicals which could result in serious illness or faulty sprayer operation.

• Always use the proper application rate. To assure proper application rate calibrate sprayer frequently. The wrong application rate of a pesticide concentration that is too high may expose the operator and the environment to danger.

• Follow the chemical manufacturer's precautions before cleaning the sprayer. Exposure to chemicals could result in serious illness or death.

• Always wear gloves and wash the machine before doing any disassembly repair work. Chemical residues on the machine parts could contaminate operator or service personnel causing serious illness.

• Always relieve liquid pressure before doing any work on the machine. Failure to do so could cause operator to be exposed to high pressure spray of chemical resulting in serious injury or machine damage.

• Always be sure all guards are properly installed on machine before operating. Failure to do so could result in entanglement in moving parts resulting in serious injury to operator.

• Always wear relatively tight and belted clothing to avoid entanglement in moving parts. Failure to do so could result in serious injury.

• Check the entire sprayer, prior to each use, for any loose bolts or mechanical connections. These precautions can prevent injury to personnel and damage to equipment.

• Use only genuine Croplands parts for any necessary replacement. Special alloy steels are used in many parts which are important to the equipment design. Home made parts may look the same but might be dangerous in operation.

• Make sure the Cropmister is properly secure to the tray/floor of the vehicle before operating.

• Do not ride on machine when in motion. This is an unsafe practice and can lead to serious injury should the rider fall from the machine.

• Always replace warning decals when damaged and make certain operator understands proper safety practices.

• Always stand well clear of sprayer when operating. The sprayer is capable of spraying chemicals 50 - 150 metres from the boom which may be hazardous to humans.

• Do not disconnect any hoses nozzles or filters while sprayer is operating. Disconnecting components while under pressure will result in uncontrolled spray discharge which may be hazardous to humans.

Safety Instructions

• Always clean the Cropmister before doing any welding repairs. Cover rubber hoses, and all other flammable parts.

Keep a fire extinguisher near the Cropmister when welding. Have good ventilation when grinding or welding painted parts. Wear dust mask when grinding painted parts. Toxic dust or gas can be produced.

Rules for Safe Use of Chemicals

• Always read the label before using chemicals. Follow instructions from chemical manufacturer on how to select, use and handle each chemical. Note protection information each time before opening the container.

• Always observe all warnings on chemical products. Failure to do so could result in operator or others being exposed to toxic chemicals which could result in serious illness. Remember chemical manufacturers go to much research and expense to develop labels for your protection.

• Be sure you recognise the categories of toxicity and their key words.

• Verbal warnings must be given if written warnings cannot be understood by workers.

• Do not spill chemicals on skin or clothing. If chemicals are spilled, remove contaminated clothing immediately and wash skin (and clothing) thoroughly with soap and water.

Wash hands and face with soap and water and change clothing after spraying. Wash clothing each day before reuse.

• The spray tank and system should be emptied of chemical mixture and flushed with clean water before servicing the spray system or spraying components. Clean the Cropmister of all chemical residue before servicing.

• Avoid inhaling chemicals. When directed on the label, wear protective clothing, face shield or goggles.

• Never smoke while spraying or handling chemicals.

• Cover food and water containers when spraying around livestock or pet areas.

• If symptoms of illness occurs during or shortly after spraying, call a physician or go to a hospital immediately.

• Follow label directions and advice to keep residues on edible portions of plants within the limits permitted by law.

• Keep chemicals out of the reach of children, pets and unauthorized personnel. Store them outside of the home, away from food and feed and lock them in a secure area.

• Keep bystanders away from spray drift.

• Always store chemicals in original containers and keep them tightly closed. Never keep them in anything but the original containers.

Cropmister Assembly & Checklist

Fit the remote control console in the vehicle to be used.

Connect brown & red wires to the solenoid.

Connect green & white wires to boom head actuator.

Check pump oil level regularly.

Assembly Instructions

The Cropmister is supplied fully assembled at the factory.

The electric remote controller is tested at the factory but is disassembled for transport, and requires assembly with the vehicle to be used. Proceed as follows:

1 Locate and mount the controller in the cab of the vehicle.

2 Connect the following controller wires:
   a) Console to power source wires (black & red) must be fitted to the positive & negative terminals of a 12 volt battery.
   b) Console to solenoid wires (brown & red) must be fitted to the solenoid on the Cropmister.
   c) Console to actuator wires (green & white) must be fitted to the boom head actuator on the Cropmister.

Refer to page 57 for full wiring details.

Pre-Operation Checklist

1 Before attempting to use this Cromister, read Operator's Manual thoroughly.

2 Read and follow instructions on chemical manufacturers labels.

3 Always wear applicable protective clothing.

4 Check inside the tank - if dirty, open drain plug and clean out.

5 Clean suction filter - remove filter bowl and filter and flush out with clean water. Replace filter and bowl and close drain valve.

6 Check all plumbing and fittings to ensure they are tight, not damaged or leaking. Suction leaks often do not show when operating but cause bad performance.

7 Check all taps and valves for free movement.

8 Check electric controls are correctly connected to the 12 volt battery.

9 Check that the boom head moves freely from side to side and that the angle of inclination is 45 degrees to the vertical.

10 Check engine oil and fuel. Use only oil and fuel to makers specifications. Refer to the engine manual.

11 Check pump oil level.

12 Check pressure in pump air chamber. As a rule of thumb it should be about 10 - 15% of operating pressure, that is 100 - 175 kPa (15 - 25 psi).

13 Check suction filter is clean and sealed.

14 Remove nozzle filters and nozzles to inspect for foreign materials.

Note: Whilst all precautions are taken in assembly, it is possible to get tank filings in the line. These will accumulate in the suction filter when first used. Clean all filters out after initial use.

Cropmister Calibration

Check pressure in pump air chamber regulary.

450 litre Cropmister

Mister Application

Misters have certain advantages such as low cost, high speed operation and large swath width.

A disadvantage might be variable application across the swath.

However, as long as an operator is aware of the machine's limitations and understands the importance of correct calibration and operating procedures, misters are an effective alternative to boomsprayers and aircraft for controlling insects and diseases in field crops.

How the Cropmister Works

A high velocity air blast from the fan breaks up the spray in the air outlet into small droplets. This mist is blown out, and drifts to a fair distance, giving good coverage as it settles.

Air to a large extent, replaces the water used as a carrier in conventional spraying, allowing lower volumes and more concentrated solutions to be used. Wind assists the air from the Cropmister, prolonging drift and widening the swath.

Application Definitions

Ultra Low Volume (ULV) refers to application rates of 150ml to 3 litres per hectare.

Some chemicals are formulated ULV and used neat. Others are mixed with oils or diesel, but total mix does not exceed 3 litres per hectare for ULV spraying.

Low Volume (LV) refers to application rates of 3 to 20 litres per hectare.

Correct Application Rate

Applying the correct amount of chemical to a crop is only possible if:

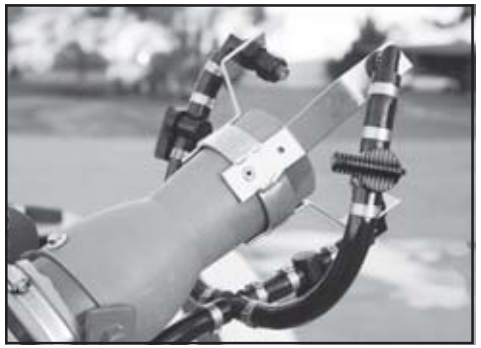
- the sprayer is calibrated correctly.
- the sprayer is operated correctly.
- the sprayer is maintained correctly.

The variables of spray application (distance, time, working width, liquid and chemical volumes) must be measured and controlled accurately to ensure chemicals are applied at the correct rate.

Proper nozzle selection, checking calibration of nozzles, speed and flow rate as well as correct mixing of chemicals must be done to ensure the accuracy and performance of the sprayer.

Accurate calibration is essential to ensure uniform application of the chemical to the target.

Cropmister Calibration



Triple nozzle assembly with shut-off taps

Calibration Procedure

It is important to calibrate your Cropmister for each spraying operation to ensure proper coverage and correct application rates. This involves:

- First, setting up the sprayer (nozzle selection, woking pressure, travelling speed, calculating chemical and water rates [steps 1 & 2]).
- Seondly, measuring its performance (steps 3 to 7).

Follow the steps below:

1 Ensure Equipment is in Good Working Order.
Tank, pump, boom, filter and nozzle must be clean, free of leakages and functioning properly.
Follow pre-operation checklist, maintenance and operating instructions in this manual.

2 Select Nozzle Type, Size & Number
The Cropmister boom head is fitted with three nozzles and shut-off taps to give flexibility of use for both high & low liquid application rates.

Select the number, type and size of nozzle according to:

- Chemical recommendations.
- Application rate required.
- Pressure setting.
- Swath width.
- Chosen speed of travel. (Use actual speed of travel, refer to step 4).

See Misting Tables pages (28 - 45) to make the correct nozzle selection.

The following formula may be useful to calculate flow rate for nozzle selection when a liquid application rate is known.

Flow rate (l/min) =

Application Rate (litre/ha) x Travel Speed (km/h) x Swath Width (m) ÷ 600

eg 10 x 3.6 x 30 ÷ 600
= 1.8 l/min

3 Determine Nozzle Output
First, determine actual nozzle output using liquid without adding any chemicals:

- Measure actual spray output of the selected nozzles at the desired operating pressure.
- Fill the tank with water and mark the level. Run the motor at operating speed with the mister spraying for one minute.
- Measure output by filling tank to the mark using a calibrated measure. Measure output in litres - e.g. 2.6 litres/min.
- Alternatively use a hose over the nozzle and a suitable collecting container to measure the spray output directly from the selected nozzle at the selected pressure for one minute.

4 Determine Actual Speed of Travel
The speed reading given by your vehicle should be checked for accuracy using the following method:

a) Half fill the sprayer tank with water and mark out a test strip of 100 metres (simulating spraying conditions).

b) With the mister spraying record the time taken to travel 100 metres at the selected working speed.

c) Calculate actual speed of travel using the formula:

km/hr =

Distance (m) x 3.6 ÷ Time (sec)

eg 125 x 3.6 ÷ 30

= 15km/hr

Cropmister Calibration

5 Establish Swath Width
The Swath width will depend on the type of spray and weather conditions:

a) In the same paddock you wish to spray, lay out water or oil sensitive paper or kromekote cards at approx. 5 metre intervals at right angles (downwind) to the chosen travel path of the travel, and about 30 metres ahead of the Cropmister's starting point.
For more information refer to Method of Field Operation, page 19.

At each 5 metre interval, place cards at various distances from the Cropmister path to record the effective width of spray application. In a mature crop, cards can be stapled to the upper sides of leaves.

IMPORTANT: Do not use pesticide for your calibration run - use 100% diesel to simulate ultra low volume (ULV) formulations or 50/50 water/diesel for spraying oil/water mix emulsifiable concentrates (EC's).

b) With the mister spraying at the desired ground speed, nozzle and pressure setting, drive past the cards and continue for another 30 metres.

Stop the machine and study the coverage on the cards. The spray droplet coverage will show up as spots on each card.

Note where even distribution begins and where it starts to taper off and measure the distance between these two points.

This is the swath width to be used in calibrating the application rate
e.g. 10 - 40m equals 20m effective swath width.

6 Calculate the Calibrated Application Rate

Litre/ha =

Actual spray output in litres/min x 600 ÷ Speed (km/hr) ÷ Swath Width (m)

eg 2.6 l/min x 600 ÷15km/hr ÷ 20

= 5.2 litres/ha.

7 If Tested Application is Not Satisfactory
You can alter application rates by:

a) Adjusting pressure up or down to increase or decrease rate of application.

b) Adjusting spraying speed up or down to decrease or increase rate of application.

c) Changing the number of nozzles (1-3) being used.

c) Changing to a different nozzles with higher or lower flow rates.

Repeat necessary testing procedures and calculation of application rate if adjustments or changes are made.

Cropmister Calibration

Calculating the Correct Amount of Chemical for the Tank

For land area rates (litres or kg/ha), use the following formula:

Chemical Required (litres) =

Tank Volume (litres) x Chemical Rate (l/ha) ÷ Spray Application Rate (l/ha)

eg 450 x 0.75 ÷ 5.2

= 65 litres.

If chemical recommendation is given in water volume rates use the following formula:

Chemical Required (litres) =

Tank Volume (litres) x Chemical Rate (l/100 litres) ÷ 100

eg 450 x 15 ÷ 100

= 67.5 litres

Area Covered (ha) =
Tank Volume (litres) ÷ Spray Application Rate (l/ha)

eg 450 ÷ 5.2

= 86.5 hectares

IMPORTANT: Be sure to mix only enough spray mixture to cover the area required. Avoid wastage and the problem of needless chemical disposal.

Tank Volume Required (litres) =

Area (ha) x Spray Application Rate (l/ha)

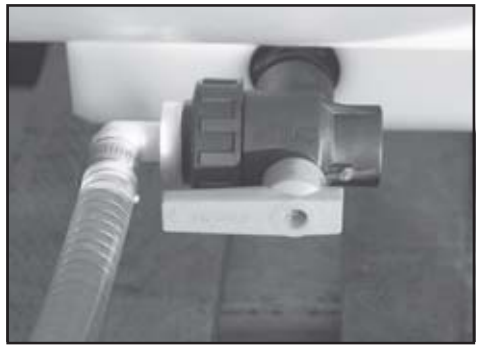
eg 20 x 5.2

= 104 litres

Record Data for Future Reference

- Date
- Chemical
- Nozzle type & size
- Nozzle Output
- Pressure Setting
- Application Rate
- Tank Volumes Used
- Chemical Volumes Used
- Areas Sprayed
- Test Area and Time.

Cropmister Operation



Tank valve positioned for liquid-flow (open) to pump.

Check Cropmister Operation

Before use, check the Cropmister functions correctly - using a stationary test with water only in tank:

1 Open tank suction valve.

2 Fill tank with a quantity of fresh clean water.

3 Fit selected nozzles to the boom head assembly.

4 Turn remote control switch 'Off'.

5 Start engine.

6 Run the motor at full RPM,

7 Turn On the main control switch so that the nozzles are spraying

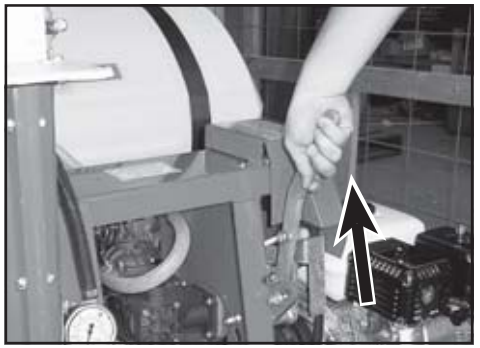
Use the manual control knob to adjust pressure.

8 Now adjust for the required pressure (while the nozzles are spraying) using the manual pressure control knob on the pump.

9 Check for leaks whilst system is under pressure.

10 Turn Off the main control switch and stop engine on completion.

11 Drain the tank if water is not required for further use, by opening the 3-way valve drain outlet at the base of the tank.



Disengage fan by slowly lifting the clutch lever up.

Starting the Mister

When starting the Mister always have the fan drive disengaged.

1 Start the motor with the fan drive disengaged - clutch lever pointing up.

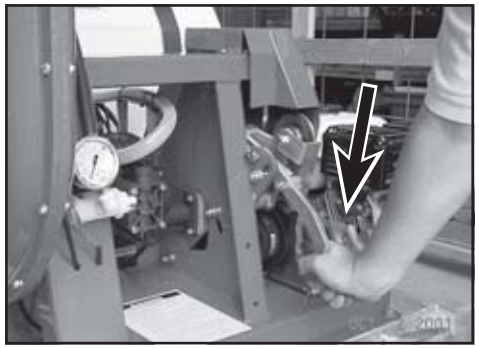
2 When the motor is running and warmed up, increase the motor speed to half throttle.

3 Engage the fan drive by **very carefully & slowly pushing the clutch lever downwards**.

Caution: If the handle is engaged too quickly the motor will stall.

4 Operate at the motor at full RPM after engaging the fan drive.

Note: The fan-motor V-belt drive is tensioned by adjusting the idler pulley.



Engage fan by slowly pushing the clutch lever down.

5 To disengage the Cropmister fan, lift the clutch lever slowly upwards.

Warning: Do not disengage the belt drive too quickly. Lifting the lever too quickly may damage the belts.

Note: The AR202 pump driven by a V-belt (spring tensioned), is always connected to the motor.

Water

Many chemicals are mixed with water and/or oil or diesel.

1 Use fresh water (preferably rainwater), free of suspended organic matter or clay. Some chemicals are deactivated when they contact these materials.

2 Ensure water quantity is sufficient to allow correct product blending.

Cropmister Operation

Filling & Mixing

To fill the tank and mix chemicals follow these instructions:

1 Fill the tank with an appropriate amount of water.

2 Measure out the required chemical (liquid) into a graduated measuring cylinder or bucket and mix the chemical with a small volume of water

Or, if a wettable powder, weigh the required amount of chemical and mix with enough water in a bucket to form a flowable solution.

Always follow the instructions on the chemical label.

3 Make sure the control master switch is Off, and start the Cropmister engine.

4 Pour the chemical mixture into the tank while the pump and bypass agitation is operating to mix the tank contents.

5 Top up tank to required level. Do not overfill the tank.

6 Wash off any spillage.

7 Re-check hose connections.

8 After filling, leave unit running for three minutes, then re-check engine speed. Adjust if necessary.

Note: ULV chemicals must be circulated in the mister for approximately 10 minutes to warm them up prior to application.

Imporatnt: When handling chemicals, always wear protective clothing, i.e gloves,face mask, spray suit.

Should chemical come in contact with skin immediately rinse off with water. Always follow chemical label safety instructions.

Master & boom arm switches.

Operating the Cropmister After Adding Chemical

1 With master switch in OFF position keep the pump running to agitate the spray mixture.

2 When in the field:
a) Turn boom head to the appropriate side using the boom arm switch on the controller.

b) Place the master switch On to activate the spraying, and

c) Travel at the selected (calibrated) speed.

d) Use the master switch to switch the spray Off & On at the end of each section, and the boom arm switch to change boom head direction.

See page 19 for more details.

Some Guidelines

Select the right chemical rate per hectare (ULV) or the right diluent rate per hectare (LV) for the chemical you wish to use. ULV chemicals should be used at the rate directed on the label.

LV chemicals should be used with the amount of diluent suggested for misting on the label.

EC's (emulsifiable concentrations) are used at 5 to 10 litres per hectare. Flowable, water soluble powders, or water miscible liquids, at 10 to 20 litres per hectare.

Dispersable powders are generally used at 20 litres per hectare. For optimum results, higher liquid rates must be used where pest problems are severe or crop density is high.

Some EC chemicals can be used at lower water rates by adding 25% (of total applied volume) water soluble oil. This stops evaporation of the droplets in the air and allows lower rates of water to be used.

Another alternative is for spraying to be carried out when temperatures are higher than 20 degrees Celsius.

Note: If a low volume chemical is to be diluted with diesel, the total volume of chemical and diluent should not exceed 3 litres per hectare.

Cropmister Operation

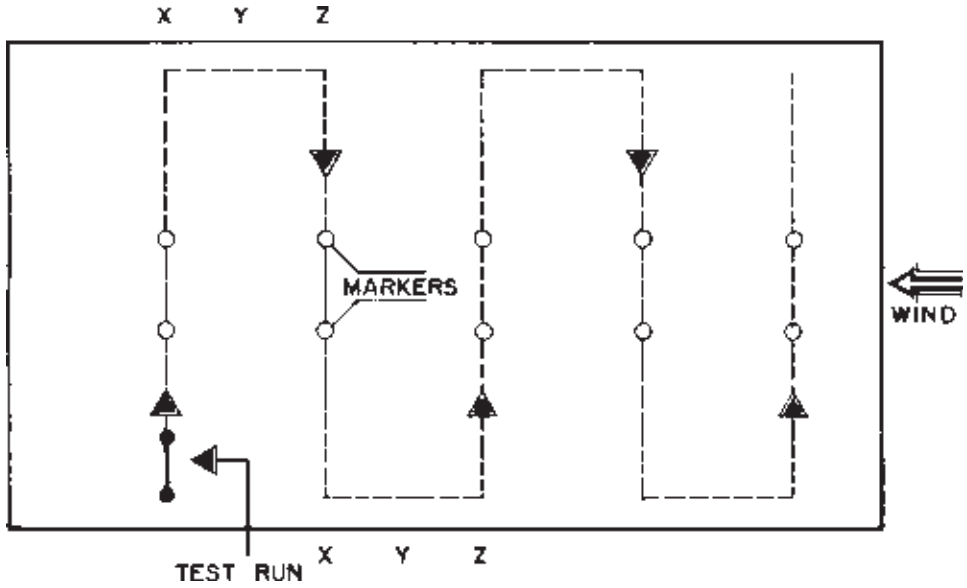


Figure 2:

X = **Switch** chemical solenoid valve **OFF**.
Y = **Swing air outlet over**.
Z = **Switch** chemical solenoid valve **ON**.

Method of Field Operation

The Cropmister must be driven across wind, to and fro (see figure 2 above), and the air outlet swung from side to side, so that the spray is always directed down wind.

The boom head should be set about 45 degrees (pointing upwards) but this may vary according to height of vehicles used and different wind conditions.

Select the Right Day

Ideal days for crop misting are:

- Cool 10 - 20 degrees Celsius,
- No risk of rain,
- Steady breeze 4 - 10 km/h,
- Medium to high relative humidity.

Keeping an Accurate Swath Width

1 Effective swath width is first measured by a short test run, and is the distance from where the mist settles near the machine to where the spread of droplets begins to thin out.

2 Because effective swath width may be up to 50 metres or more, it is necessary to use markers to keep a correct spacing between runs.

3 Two markers with flags for easy sighting should be set near the middle of the paddock.

4 The distance between markers depends on the size of the paddock, but should not be more than 150 metres.

5 As the mister passes the first flag, the man on the ground takes it, paces out the swath width, and sets it for the second run.

6 The second marker is moved in the same way. As the driver approaches it, he should line up with some handy landmark such as a tree or fence post, using it to sight the rest of his run.

Travelling Speeds

Speeds shown on both ULV and LV Misting Charts have been proven to be the optimum range for misting.

Increasing forward speed tends to shorten the swath width and therefore does not increase work rate.

Swath Width

Swath width depends on atmospheric conditions. Exact recommendations cannot be given. The final choice must be left to the operator.

Misting can be done in conditions ranging from very light to moderate winds. Do not mist in strong or gusty winds, as drift will be excessive or too variable.

Typical Swath Widths

ULV Weedkillers - 40 to 60 metres.
Insecticides - 60 to 100 metres.

LV Oil diluted chemicals
Weedkillers - 20 to 35 metres.
Insecticides - 20 to 45 metres.

Emulsifiable Concentrates with Water
Weedkillers - 20 to 35 metres.
Insecticides - 20 to 45 metres.

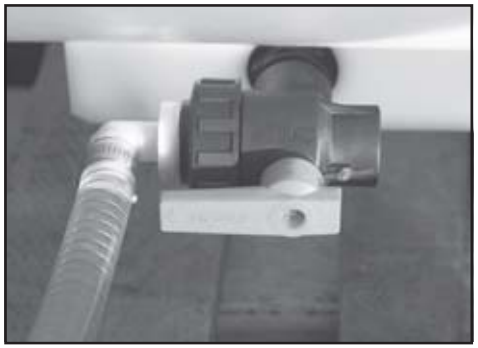
Water Based Chemicals
Weedkillers - 20 to 30 metres.
Insecticides - 25 to 40 metres.

Dispersible Powders
No more than 20 metres.

Cropmister Operation

Tank valve in Off position for cleaning filter.

Tank valve in drain position.



Tank valve positioned for liquid-flow (open) to pump.

How to Completely Flush the Sprayer with Fresh Water

Carefully choose the site for flushing and cleaning the Cropmister.

1 Drain the spray tank by turning lever on ballvalve 180° so that the arrow points to outlet. Ensure the drained mixture is disposed of as required by law. Read the chemical label.

2 Wash the tank lid, basket filter inside the tank and also outside parts of the sprayer.

3 Remove and clean the suction filter screen.

4 Replace suction filter screen and reassemble.

5 Partly fill tank with water.

6 Put main control switch in OFF position.

7 Turn bypass valve on.

8 Start motor and let water circulate and flush out the pump and lines.

9 Stop motor and drain contents from tank.

10 Again partly fill tank with clean water.

11 Again start motor and circulate clean water to further flush the system out.

12 Turn main switch on to flush clean water through the nozzle.

13 On completion of flushing:
   a) Switch main switch to Off position.
   b) Stop engine.
   c) Drain the tank.

How to Use Tank and Equipment Cleaners

If a cleaning agent is required (refer to chemical label), first completely flush the Cropmister with water as outlined in steps 1 - 13 (left), then:

1 Fill the spray tank with approximately 100 - 200 litres of water.

2 Add cleaning agent. (Use according to instructions).

3 With main switch in Off position, start the motor and run the pump at desired speed.

4 Place main switch to On position. Equipment cleaner is now passing through all equipment and lines.

5 If you require the cleaning agent to soak or stand for a period, shut unit down turning main switch off and stopping everything. Let stand for period required.

6 When soaking is completed, start engine following steps 3 and 4 to again flush the tank and equipment with the cleaning agent.

7 Stop flushing by turning main switch Off and stopping motor.

8 Open spray tank drain outlet and allow remaining tank and equipment cleaner to drain from the tank.

9 Again completely flush the sprayer with fresh water as outlined in steps 1 - 14 above.

Note: Remove and clean nozzle filter on a regular basis.

Cropmister Operation

Open the lid & fill main tank using the basket filter.

Filling the Sprayer

When filling the main tank, open the spray tank lid and fill the tank with the basket filter in place.

Use fresh water (preferably rainwater), free of suspended organic matter or clay. Some chemicals are deactivated when they contact these materials.

Ensure sufficient water quantity to allow correct product blending.

Tank valve in Off position for cleaning filter.

Filters

Filters will ensure that no solids enter the system to block or damage pump or nozzles.

1 Always ensure the basket filter is in place when filling the main tank.

2 All filters should be cleaned regularly or after each spraying period.

3 The filter screen must have O-Rings fitted. If the filter screen is damaged, replace with a new screen.

Remove the bowl & filter and clean t horoughly,

Cleaning the Suction Filter

The filter should be cleaned regularly or after each spray tank has been emptied.

To clean the filter:

1 Completely stop all sprayer functions.

2 Place the tank valve in the closed position to shut off liquid from the main tank.

3 Remove the outer filter screw and bowl, and then remove the filter & thoroughly clean it before reassembling the filter, sure both O-rings are in place and not damaged

Note: Be careful not to damage or deform the mesh or O-rings while cleaning and refitting the suction filter. If O-rings or filter are damaged,worn or missing, they should be replaced.

Ensure both O-rings are in place & in good order.

Operating Pointers

While spraying, continually observe that:

1 Pressure is correct (within the range of nozzle used).

2 Ground speed is correct and constant (within programmed speed).

3 Nozzle is operating correctly.

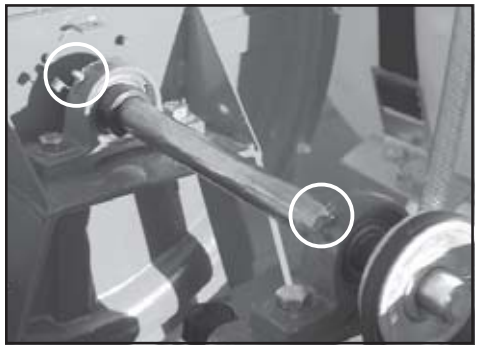
4 Boom height/angle is correct.

5 Periodically check and clean filters.

6 Avoid going above/below selected speed where possible - as under or over application will occur.

7 Do not overlap spray runs as this will increase the application rate.

Lubrication & Maintenance



Grease the fan drive shaft bearings (2) daily.

Check bolts & lubricate pivots regularly.

General Cropmister Maintenance

First Day of Operation

After two hours operation, check blower, pump and engine mountings for security. After the days work, repeat the checks set out in pre-operation checklist and general sprayer operation.

Daily Maintenance

Engine

- Check oil level in engine and top up using oil specified in engine handbook.
- Check & top up with specified fuel.
- Check air filter for cleanliness.Clean every 20 to 50 hours operation, depending on working conditions.

Fan

- Grease fan drive shaft bearings (2). Do not over grease (use small amount).

Pump & Lines

- Check oil level in pump.
- Clean suction line filter with each tank load.
- Clean nozzle filter and nozzle regularly.
- Check pump air chamber pressure on a regular basis. As a rule of thumb it should be 10 - 15% of operating pressure - 100 to 175 kPa (15 - 25 psi).
- Change pump oil after the first 50 hours operating, and there after every 250 hours or seasonally.
- To ensure trouble free spraying, flush the sprayer thoroughly each day and before changing chemicals.

  Dispose of tank wash according to chemical manufacturers instructions.

Seasonal Maintenance

Repeat daily maintenance procedure, then clean the machine thoroughly inside & out.

Engine

- Drain sump and replenish with oil as specified in the engine hand book.

Pump

- Flush out with de-watering fluid if storing for a week or more.
- Check pump for leaks in diaphragms and valves.
- Drain and refill diaphragm pump with SAE 20W/30 oil.
- Remove pump heads and inspect diaphragms, valves, seals and springs for wear. Replace if necessary.

Blower

- Check that the extension shaft and pump sleeve is aligned accurately. If not aligned correctly the pump sleeve and gear box will overheat and cause serious damage. See instruction number 12 on page 24.

Boom Head

- Lubricate pivots.
- Check actuator linkage bolts.

End of Season Storage

Store unit in shed.

Lubrication & Maintenance

Pump Operation and Maintenance

Annovi & Reverberi (A&R) pumps are of the piston-diaphragm type. All parts in contact with the sprayed liquid, which are subject to corrosion, are protected, making them ideal for spraying (herbicides, insecticides, fungicides, fertilisers, etc.), disinfection and washing.

Daily Before Starting Pump

1 Check that oil is visible in sight glass (half way up) and top up if necessary with good clean motor oil 20W/30.

2 Clean all sprayer filters. Blocked or semi blocked filters place extra stress on diaphragms.

3 Start with zero pressure and the pump will self prime immediately and clear air locks in suction line.

Note: Running a diaphragm pump faster than specified will not improve performance but will damage and wear out moving parts. Warranty will be made void by speeds in excess of those indicated on the pump name plate.

Daily After Use

1 Flush pump with clean water.

2 Drain filters and clean. A high percentage of pump failures are due to blocked filters.

Every 200 Hours

1 Check surge chamber pressure and adjust as follows:
Check air chamber pressure. As a rule of thumb it should be 10-15% of operating pressure - 100 -175kPa (15-25psi).

Vibration of the delivery hose usually indicates that the air pressure in the surge chamber is incorrect. The main cause of surge chamber diaphragm fracture is low pressure in this chamber. Surge chamber pressure can be checked with an ordinary tyre gauge.

The above pressure range is a guide to the correct pressure however if difficulties are encountered adjust this pressure till an even flow is obtained from the pump. The pressure is best increased with a bicycle pump.

2 Change oil and refill with 20W/30 oil. Attention should be made to removing trapped air behind the diaphragms by rocking from side to side as instructed. It is also a good practice to run the pump for 10 minutes without pressure and top up with oil before working the pump.

3 When changing the oil, check diaphragms, replacing them if they are showing signs of wear. This is normally a pre-season maintenance procedure which can be done quickly and easily as no special tools are required.

Avoid down time when the pump should be working by proper maintenance.

4 Also check inlet and outlet valves and replace if worn. Worn valves not only reduce the output of the pump, but also may reduce the life of the diaphragm.

Lubrication & Maintenance

Excessive Diaphragm Failure

If you have Excessive Diaphragm Failure check the following points which will cause failure of diaphragms due to added stress or chemical attack.

1 Most Important - Pump not being flushed out daily with clean water after use.

2 Oil level too low allowing air between piston and diaphragm.

3 Air leaks in suction line.

4 Restricted suction line.

5 Restriction through suction filter.

6 Not cleaning suction filter regularly.

7 Worn suction and discharge valves.

8 Bypass line too small to carry full capacity of pump.

9 In Cold Climates - frozen suction/ discharge lines or water remaining in the pump after flushing.

10 Incorrect air setting or no air in air chamber.

11 Agitator excessively restricting bypass from pump.

12 Diaphragm material construction incorrect for chemical or solution being pumped.

Chemicals containing toluene or other aggressive solvents may require viton diaphragms - particularly if the pump is not properly flushed after use.

Remove the bowl & filter and clean t horoughly,

Filter Maintenance

Clean filters ensure that no solids enter the spraying system to block or damage pump or nozzles.

The suction filter should be cleaned regularly or after each spray tank has been emptied. See page 19 for details.

Make sure tank straps are tight.

Tank Straps

The tank straps should be kept tight so that the tank is not free to slide on the frame.

Tank straps should be check dailywhen the sprayer is new.

Thereafter the tank clamps should be checked regularly.

Trouble Shooting General Cropmister Problems

PROBLEM	PROBABLE CAUSE	REMEDY
1 No spray when turned on.	1 Filter on the inlet side of the pump blocked. 2 Faulty pump.	1 Dismantle, clean & re-assemble. 2 Change pump.
2 Sprays for short time only.	1 Air inlet to tank blocked. 2 Filter on suction side of pump blocking or blocked.	1 Clean air vent. 2 Dismantle, clean & re-assemble the filter. If filter problem persists, clean out the tank & start again.
3 Pressure going up - output going down.	1 Nozzle filters blocking.	1 Dismantle, clean & refit. Check pressure returns to normal. Check all filters and spray mixture.
4 Pressure falling.	1 Filter on suction side blocked. 2 Nozzle tips worn. 3 Pressure gauge faulty. 4 Pump worn.	1 Dismantle & clean the filter. 2 Check nozzle output, replace worn nozzles. 3 Check with new pressure gauge. 4 Repair or replace the pump.
5 Spray pattern too wide.	1 Wrong nozzle angle. 2 80° recommended.	1 Check that the correct nozzle angles are being used.
6 Foam in the tank.	1 Too much agitation.	1 Check that the return line is at the bottom of the tank. Partly close agitation and valve
7 Spray pattern streaky.	1 Nozzle partly blocked.	1 Remove & clean. If it continues, the nozzle is damaged. Replace with same size tip, check flow rate of replacement nozzle.

Trouble Shooting Pump Problems

PROBLEM	PROBABLE CAUSE	REMEDY
A Pump does not draw or deliver liquid. Pressure gauge fluctuates badly.	1 One or more valves are not seating properly. 2 The pump is sucking in air through suction line. 3 Air has not been entirely evacuated from the pump. 4 Blocked suction filter. 5 Damaged or worn suction valves.	1 Clean valve seating. 2 Examine the suction hose and ensure it is firmly secured. 3 Rotate the pump with outlet hose and taps open. 4 Clean suction filter. 5 Replace suction valves.
B Liquid flow is irregular (Also check items under A)	1 The air in the air chamber of the pump is incorrectly set. 2 Diaphragm split. 3 Damaged or worn valves. 4 Foreign matter holding valves open.	1 Check pressure in air chamber of pump. Set at 210-280Kpa (30-40 psi). 2 Replace diaphragm. 3 Replace valves. 4 Clean valves.
C Pump delivers insufficient pressure	1 Regulating valve: • Sticking open • Not set for pressure. • Damage or worn seat or spring. 2 Cylinder diaphragm ruptured. 3 Pump valves blocked, worn or damaged. 4 Spray nozzles worn, missing or exceed pump capacity.	1 Fix the regulator: • Unstick the valves. • Set the pressure. • Replace the spring. 2 Replace diaphragms. 3 Unblock valves and or replace. 4 Replace spray nozzles with appropriate size.
D Output drops & pump is noisy.	1 Oil level is too low.	1 Top up with oil to correct level (1/2 way up the sump sight glass).

Trouble Shooting Pump Problems

PROBLEM	PROBABLE CAUSE	REMEDY
E Oil being discharged through delivery line or discoloured oil in sight glass of pump.	1 One or more diaphragms split or ruptured.	1 Immediately drain oil from pump and flush to remove all spray residues from sump. Remove pump heads & fit new diaphragms. Fill to correct level with motor oil 20W/30.
	SUCTION SIDE OF PUMP	
F Suction hose vibration.	1 Air getting into suction.	1 Seal all joints securely with tape or stag. Firm up clamps.
G Pump valves hammering.	1 Suction tap partly turned off. 2 Suction strainer(s) blocked.	1 Turn tap fully on. 2 Clean filters.
H No water flow on suction hose.	1 Obstruction in tank or suction line.	1 Clean foreign material from tank & suction line.
	DISCHARGE SIDE OF PUMP	
I Pressure gauge pointer swings violently.	1 Pressure control valve spindle doesn't move easily.	1 Lubricate with light oil or C.R.C.
J AR control valve leaking from spindle.	1 Split diaphragm or O-rings.	1 Remove 4 body set screws, replace diaphragm and O-rings.
K Pressure gauge showing correct working pressure no pressure at nozzle.	1 Burst discharge line. 2 Blocked discharge filter where fitted. 3 O-ring(s) jamming flow in discharge line. 4 Ants, wasps build nests in discharge line or nozzles.	1 Replace discharge line. 2 Clean discharge filter. 3 Clean discharge line of foreign materials. 4 Clean nozzles of foreign materials with tooth brush

XR or TP Nozzle Misting Charts

Application Rate (Litres/Ha) for 20m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
1.5	150	0.42	2.52	1.26	0.84	0.63	0.50	0.42
	200	0.48	2.88	1.44	0.96	0.72	0.58	0.48
	250	0.54	3.24	1.62	1.08	0.81	0.65	0.54
	300	0.59	3.54	1.77	1.18	0.89	0.71	0.59
	350	0.64	3.84	1.92	1.28	0.96	0.77	0.64
	400	0.68	4.08	2.04	1.36	1.02	0.82	0.68
2	150	0.56	3.36	1.68	1.12	0.84	0.67	0.56
	200	0.64	3.84	1.92	1.28	0.96	0.77	0.64
	250	0.72	4.32	2.16	1.44	1.08	0.86	0.72
	300	0.79	4.74	2.37	1.58	1.19	0.95	0.79
	350	0.85	5.10	2.55	1.70	1.28	1.02	0.85
	400	0.91	5.46	2.73	1.82	1.37	1.09	0.91
3	150	0.84	5.04	2.52	1.68	1.26	1.01	0.84
	200	0.97	5.82	2.91	1.94	1.46	1.16	0.97
	250	1.08	6.48	3.24	2.16	1.62	1.30	1.08
	300	1.18	7.08	3.54	2.36	1.77	1.42	1.18
	350	1.28	7.68	3.84	2.56	1.92	1.54	1.28
	400	1.37	8.22	4.11	2.74	2.06	1.64	1.37
4	150	1.12	6.72	3.36	2.24	1.68	1.34	1.12
	200	1.29	7.74	3.87	2.58	1.94	1.55	1.29
	250	1.44	8.64	4.32	2.88	2.16	1.73	1.44
	300	1.58	9.48	4.74	3.16	2.37	1.90	1.58
	350	1.71	10.26	5.13	3.42	2.57	2.05	1.71
	400	1.82	10.92	5.46	3.64	2.73	2.18	1.82
5	150	1.40	8.40	4.20	2.80	2.10	1.68	1.40
	200	1.61	9.66	4.83	3.22	2.42	1.93	1.61
	250	1.80	10.80	5.40	3.60	2.70	2.16	1.80
	300	1.97	11.82	5.91	3.94	2.96	2.36	1.97
	350	2.13	12.78	6.39	4.26	3.20	2.56	2.13
	400	2.28	13.68	6.84	4.56	3.42	2.74	2.28

Application Rate (Litres/Ha) for 20m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
6	150	1.68	10.08	5.04	3.36	2.52	2.02	1.68
	200	1.93	11.58	5.79	3.86	2.90	2.32	1.93
	250	2.16	12.96	6.48	4.32	3.24	2.59	2.16
	300	2.37	14.22	7.11	4.74	3.56	2.84	2.37
	350	2.56	15.36	7.68	5.12	3.84	3.07	2.56
	400	2.74	16.44	8.22	5.48	4.11	3.29	2.74
8	150	2.23	13.38	6.69	4.46	3.35	2.68	2.23
	200	2.58	15.48	7.74	5.16	3.87	3.10	2.58
	250	2.88	17.28	8.64	5.76	4.32	3.46	2.88
	300	3.16	18.96	9.48	6.32	4.74	3.79	3.16
	350	3.41	20.46	10.23	6.82	5.12	4.09	3.41
	400	3.65	21.90	10.95	7.30	5.48	4.38	3.65
10	150	2.79	16.74	8.37	5.58	4.19	3.35	2.79
	200	3.22	19.32	9.66	6.44	4.83	3.86	3.22
	250	3.60	21.60	10.80	7.20	5.40	4.32	3.60
	300	3.95	23.70	11.85	7.90	5.93	4.74	3.95
	350	4.26	25.56	12.78	8.52	6.39	5.11	4.26
	400	4.56	27.36	13.68	9.12	6.84	5.47	4.56
15	150	4.19	25.14	12.57	8.38	6.29	5.03	4.19
	200	4.84	29.04	14.52	9.68	7.26	5.81	4.84
	250	5.40	32.40	16.20	10.80	8.10	6.48	5.40
	300	5.92	35.52	17.76	11.84	8.88	7.10	5.92
	350	6.40	38.40	19.20	12.80	9.60	7.68	6.40
	400	6.84	41.04	20.52	13.68	10.26	8.21	6.84
20	150	5.58	33.48	16.74	11.16	8.37	6.70	5.58
	200	6.45	38.70	19.35	12.90	9.68	7.74	6.45
	250	7.21	43.26	21.63	14.42	10.82	8.65	7.21
	300	7.90	47.40	23.70	15.80	11.85	9.48	7.90
	350	8.53	51.18	25.59	17.06	12.80	10.24	8.53
	400	9.12	54.72	27.36	18.24	13.68	10.94	9.12

XR or TP Nozzle Misting Charts

Application Rate (Litres/Ha) for 30m Swath Width								
Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
1.5	150	0.42	1.68	0.84	0.56	0.42	0.34	0.28
	200	0.48	1.92	0.96	0.64	0.48	0.38	0.32
	250	0.54	2.16	1.08	0.72	0.54	0.43	0.36
	300	0.59	2.36	1.18	0.79	0.59	0.47	0.39
	350	0.64	2.56	1.28	0.85	0.64	0.51	0.43
	400	0.68	2.72	1.36	0.91	0.68	0.54	0.45
2	150	0.56	2.24	1.12	0.75	0.56	0.45	0.37
	200	0.64	2.56	1.28	0.85	0.64	0.51	0.43
	250	0.72	2.88	1.44	0.96	0.72	0.58	0.48
	300	0.79	3.16	1.58	1.05	0.79	0.63	0.53
	350	0.85	3.40	1.70	1.13	0.85	0.68	0.57
	400	0.91	3.64	1.82	1.21	0.91	0.73	0.61
3	150	0.84	3.36	1.68	1.12	0.84	0.67	0.56
	200	0.97	3.88	1.94	1.29	0.97	0.78	0.65
	250	1.08	4.32	2.16	1.44	1.08	0.86	0.72
	300	1.18	4.72	2.36	1.57	1.18	0.94	0.79
	350	1.28	5.12	2.56	1.71	1.28	1.02	0.85
	400	1.37	5.48	2.74	1.83	1.37	1.10	0.91
4	150	1.12	4.48	2.24	1.49	1.12	0.90	0.75
	200	1.29	5.16	2.58	1.72	1.29	1.03	0.86
	250	1.44	5.76	2.88	1.92	1.44	1.15	0.96
	300	1.58	6.32	3.16	2.11	1.58	1.26	1.05
	350	1.71	6.84	3.42	2.28	1.71	1.37	1.14
	400	1.82	7.28	3.64	2.43	1.82	1.46	1.21
5	150	1.40	5.60	2.80	1.87	1.40	1.12	0.93
	200	1.61	6.44	3.22	2.15	1.61	1.29	1.07
	250	1.80	7.20	3.60	2.40	1.80	1.44	1.20
	300	1.97	7.88	3.94	2.63	1.97	1.58	1.31
	350	2.13	8.52	4.26	2.84	2.13	1.70	1.42
	400	2.28	9.12	4.56	3.04	2.28	1.82	1.52

Application Rate (Litres/Ha) for 30m Swath Width								
Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
6	150	1.68	6.72	3.36	2.24	1.68	1.34	1.12
	200	1.93	7.72	3.86	2.57	1.93	1.54	1.29
	250	2.16	8.64	4.32	2.88	2.16	1.73	1.44
	300	2.37	9.48	4.74	3.16	2.37	1.90	1.58
	350	2.56	10.24	5.12	3.41	2.56	2.05	1.71
	400	2.74	10.96	5.48	3.65	2.74	2.19	1.83
8	150	2.23	8.92	4.46	2.97	2.23	1.78	1.49
	200	2.58	10.32	5.16	3.44	2.58	2.06	1.72
	250	2.88	11.52	5.76	3.84	2.88	2.30	1.92
	300	3.16	12.64	6.32	4.21	3.16	2.53	2.11
	350	3.41	13.64	6.82	4.55	3.41	2.73	2.27
	400	3.65	14.60	7.30	4.87	3.65	2.92	2.43
10	150	2.79	11.16	5.58	3.72	2.79	2.23	1.86
	200	3.22	12.88	6.44	4.29	3.22	2.58	2.15
	250	3.60	14.40	7.20	4.80	3.60	2.88	2.40
	300	3.95	15.80	7.90	5.27	3.95	3.16	2.63
	350	4.26	17.04	8.52	5.68	4.26	3.41	2.84
	400	4.56	18.24	9.12	6.08	4.56	3.65	3.04
15	150	4.19	16.76	8.38	5.59	4.19	3.35	2.79
	200	4.84	19.36	9.68	6.45	4.84	3.87	3.23
	250	5.40	21.60	10.80	7.20	5.40	4.32	3.60
	300	5.92	23.68	11.84	7.89	5.92	4.74	3.95
	350	6.40	25.60	12.80	8.53	6.40	5.12	4.27
	400	6.84	27.36	13.68	9.12	6.84	5.47	4.56
20	150	5.58	22.32	11.16	7.44	5.58	4.46	3.72
	200	6.45	25.80	12.90	8.60	6.45	5.16	4.30
	250	7.21	28.84	14.42	9.61	7.21	5.77	4.81
	300	7.90	31.60	15.80	10.53	7.90	6.32	5.27
	350	8.53	34.12	17.06	11.37	8.53	6.82	5.69
	400	9.12	36.48	18.24	12.16	9.12	7.30	6.08

XR or TP Nozzle Misting Charts

Application Rate (Litres/Ha) for 40m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
1.5	150	0.42	1.26	0.63	0.42	0.31	0.25	0.21
	200	0.48	1.44	0.72	0.48	0.36	0.29	0.24
	250	0.54	1.62	0.81	0.54	0.41	0.32	0.27
	300	0.59	1.77	0.89	0.59	0.44	0.35	0.30
	350	0.64	1.92	0.96	0.64	0.48	0.38	0.32
	400	0.68	2.04	1.02	0.68	0.51	0.41	0.34
2	150	0.56	1.68	0.84	0.56	0.42	0.34	0.28
	200	0.64	1.92	0.96	0.64	0.48	0.38	0.32
	250	0.72	2.16	1.08	0.72	0.54	0.43	0.36
	300	0.79	2.37	1.19	0.79	0.59	0.47	0.40
	350	0.85	2.55	1.28	0.85	0.64	0.51	0.43
	400	0.91	2.73	1.37	0.91	0.68	0.55	0.46
3	150	0.84	2.52	1.26	0.84	0.63	0.50	0.42
	200	0.97	2.91	1.46	0.97	0.73	0.58	0.49
	250	1.08	3.24	1.62	1.08	0.81	0.65	0.54
	300	1.18	3.54	1.77	1.18	0.89	0.71	0.59
	350	1.28	3.84	1.92	1.28	0.96	0.77	0.64
	400	1.37	4.11	2.06	1.37	1.03	0.82	0.69
4	150	1.12	3.36	1.68	1.12	0.84	0.67	0.56
	200	1.29	3.87	1.94	1.29	0.97	0.77	0.65
	250	1.44	4.32	2.16	1.44	1.08	0.86	0.72
	300	1.58	4.74	2.37	1.58	1.19	0.95	0.79
	350	1.71	5.13	2.57	1.71	1.28	1.03	0.86
	400	1.82	5.46	2.73	1.82	1.37	1.09	0.91
5	150	1.40	4.20	2.10	1.40	1.05	0.84	0.70
	200	1.61	4.83	2.42	1.61	1.21	0.97	0.81
	250	1.80	5.40	2.70	1.80	1.35	1.08	0.90
	300	1.97	5.91	2.96	1.97	1.48	1.18	0.99
	350	2.13	6.39	3.20	2.13	1.60	1.28	1.07
	400	2.28	6.84	3.42	2.28	1.71	1.37	1.14

Application Rate (Litres/Ha) for 40m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
6	150	1.68	5.04	2.52	1.68	1.26	1.01	0.84
	200	1.93	5.79	2.90	1.93	1.45	1.16	0.97
	250	2.16	6.48	3.24	2.16	1.62	1.30	1.08
	300	2.37	7.11	3.56	2.37	1.78	1.42	1.19
	350	2.56	7.68	3.84	2.56	1.92	1.54	1.28
	400	2.74	8.22	4.11	2.74	2.06	1.64	1.37
8	150	2.23	6.69	3.35	2.23	1.67	1.34	1.12
	200	2.58	7.74	3.87	2.58	1.94	1.55	1.29
	250	2.88	8.64	4.32	2.88	2.16	1.73	1.44
	300	3.16	9.48	4.74	3.16	2.37	1.90	1.58
	350	3.41	10.23	5.12	3.41	2.56	2.05	1.71
	400	3.65	10.95	5.48	3.65	2.74	2.19	1.83
10	150	2.79	8.37	4.19	2.79	2.09	1.67	1.40
	200	3.22	9.66	4.83	3.22	2.42	1.93	1.61
	250	3.60	10.80	5.40	3.60	2.70	2.16	1.80
	300	3.95	11.85	5.93	3.95	2.96	2.37	1.98
	350	4.26	12.78	6.39	4.26	3.20	2.56	2.13
	400	4.56	13.68	6.84	4.56	3.42	2.74	2.28
15	150	4.19	12.57	6.29	4.19	3.14	2.51	2.10
	200	4.84	14.52	7.26	4.84	3.63	2.90	2.42
	250	5.40	16.20	8.10	5.40	4.05	3.24	2.70
	300	5.92	17.76	8.88	5.92	4.44	3.55	2.96
	350	6.40	19.20	9.60	6.40	4.80	3.84	3.20
	400	6.84	20.52	10.26	6.84	5.13	4.10	3.42
	150	5.58	16.74	8.37	5.58	4.19	3.35	2.79
	200	6.45	19.35	9.68	6.45	4.84	3.87	3.23
	250	7.21	21.63	10.82	7.21	5.41	4.33	3.61
	300	7.90	23.70	11.85	7.90	5.93	4.74	3.95
	350	8.53	25.59	12.80	8.53	6.40	5.12	4.27
	400	9.12	27.36	13.68	9.12	6.84	5.47	4.56

XR or TP Nozzle Misting Charts

Application Rate (Litres/Ha) for 50m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
1.5	150	0.42	1.01	0.50	0.34	0.25	0.20	0.17
	200	0.48	1.15	0.58	0.38	0.29	0.23	0.19
	250	0.54	1.30	0.65	0.43	0.32	0.26	0.22
	300	0.59	1.42	0.71	0.47	0.35	0.28	0.24
	350	0.64	1.54	0.77	0.51	0.38	0.31	0.26
	400	0.68	1.63	0.82	0.54	0.41	0.33	0.27
2	150	0.56	1.34	0.67	0.45	0.34	0.27	0.22
	200	0.64	1.54	0.77	0.51	0.38	0.31	0.26
	250	0.72	1.73	0.86	0.58	0.43	0.35	0.29
	300	0.79	1.90	0.95	0.63	0.47	0.38	0.32
	350	0.85	2.04	1.02	0.68	0.51	0.41	0.34
	400	0.91	2.18	1.09	0.73	0.55	0.44	0.36
3	150	0.84	2.02	1.01	0.67	0.50	0.40	0.34
	200	0.97	2.33	1.16	0.78	0.58	0.47	0.39
	250	1.08	2.59	1.30	0.86	0.65	0.52	0.43
	300	1.18	2.83	1.42	0.94	0.71	0.57	0.47
	350	1.28	3.07	1.54	1.02	0.77	0.61	0.51
	400	1.37	3.29	1.64	1.10	0.82	0.66	0.55
4	150	1.12	2.69	1.34	0.90	0.67	0.54	0.45
	200	1.29	3.10	1.55	1.03	0.77	0.62	0.52
	250	1.44	3.46	1.73	1.15	0.86	0.69	0.58
	300	1.58	3.79	1.90	1.26	0.95	0.76	0.63
	350	1.71	4.10	2.05	1.37	1.03	0.82	0.68
	400	1.82	4.37	2.18	1.46	1.09	0.87	0.73
5	150	1.40	3.36	1.68	1.12	0.84	0.67	0.56
	200	1.61	3.86	1.93	1.29	0.97	0.77	0.64
	250	1.80	4.32	2.16	1.44	1.08	0.86	0.72
	300	1.97	4.73	2.36	1.58	1.18	0.95	0.79
	350	2.13	5.11	2.56	1.70	1.28	1.02	0.85
	400	2.28	5.47	2.74	1.82	1.37	1.09	0.91

Application Rate (Litres/Ha) for 50m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
6	150	1.68	4.03	2.02	1.34	1.01	0.81	0.67
	200	1.93	4.63	2.32	1.54	1.16	0.93	0.77
	250	2.16	5.18	2.59	1.73	1.30	1.04	0.86
	300	2.37	5.69	2.84	1.90	1.42	1.14	0.95
	350	2.56	6.14	3.07	2.05	1.54	1.23	1.02
	400	2.74	6.58	3.29	2.19	1.64	1.32	1.10
8	150	2.23	5.35	2.68	1.78	1.34	1.07	0.89
	200	2.58	6.19	3.10	2.06	1.55	1.24	1.03
	250	2.88	6.91	3.46	2.30	1.73	1.38	1.15
	300	3.16	7.58	3.79	2.53	1.90	1.52	1.26
	350	3.41	8.18	4.09	2.73	2.05	1.64	1.36
	400	3.65	8.76	4.38	2.92	2.19	1.75	1.46
10	150	2.79	6.70	3.35	2.23	1.67	1.34	1.12
	200	3.22	7.73	3.86	2.58	1.93	1.55	1.29
	250	3.60	8.64	4.32	2.88	2.16	1.73	1.44
	300	3.95	9.48	4.74	3.16	2.37	1.90	1.58
	350	4.26	10.22	5.11	3.41	2.56	2.04	1.70
	400	4.56	10.94	5.47	3.65	2.74	2.19	1.82
15	150	4.19	10.06	5.03	3.35	2.51	2.01	1.68
	200	4.84	11.62	5.81	3.87	2.90	2.32	1.94
	250	5.40	12.96	6.48	4.32	3.24	2.59	2.16
	300	5.92	14.21	7.10	4.74	3.55	2.84	2.37
	350	6.40	15.36	7.68	5.12	3.84	3.07	2.56
	400	6.84	16.42	8.21	5.47	4.10	3.28	2.74
20	150	5.58	13.39	6.70	4.46	3.35	2.68	2.23
	200	6.45	15.48	7.74	5.16	3.87	3.10	2.58
	250	7.21	17.30	8.65	5.77	4.33	3.46	2.88
	300	7.90	18.96	9.48	6.32	4.74	3.79	3.16
	350	8.53	20.47	10.24	6.82	5.12	4.09	3.41
	400	9.12	21.89	10.94	7.30	5.47	4.38	3.65

XR or TP Nozzle Misting Charts

Application Rate (Litres/Ha) for 60m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
1.5	150	0.42	0.84	0.42	0.28	0.21	0.17	0.14
	200	0.48	0.96	0.48	0.32	0.24	0.19	0.16
	250	0.54	1.08	0.54	0.36	0.27	0.22	0.18
	300	0.59	1.18	0.59	0.39	0.30	0.24	0.20
	350	0.64	1.28	0.64	0.43	0.32	0.26	0.21
	400	0.68	1.36	0.68	0.45	0.34	0.27	0.23
2	150	0.56	1.12	0.56	0.37	0.28	0.22	0.19
	200	0.64	1.28	0.64	0.43	0.32	0.26	0.21
	250	0.72	1.44	0.72	0.48	0.36	0.29	0.24
	300	0.79	1.58	0.79	0.53	0.40	0.32	0.26
	350	0.85	1.70	0.85	0.57	0.43	0.34	0.28
	400	0.91	1.82	0.91	0.61	0.46	0.36	0.30
3	150	0.84	1.68	0.84	0.56	0.42	0.34	0.28
	200	0.97	1.94	0.97	0.65	0.49	0.39	0.32
	250	1.08	2.16	1.08	0.72	0.54	0.43	0.36
	300	1.18	2.36	1.18	0.79	0.59	0.47	0.39
	350	1.28	2.56	1.28	0.85	0.64	0.51	0.43
	400	1.37	2.74	1.37	0.91	0.69	0.55	0.46
4	150	1.12	2.24	1.12	0.75	0.56	0.45	0.37
	200	1.29	2.58	1.29	0.86	0.65	0.52	0.43
	250	1.44	2.88	1.44	0.96	0.72	0.58	0.48
	300	1.58	3.16	1.58	1.05	0.79	0.63	0.53
	350	1.71	3.42	1.71	1.14	0.86	0.68	0.57
	400	1.82	3.64	1.82	1.21	0.91	0.73	0.61
5	150	1.40	2.80	1.40	0.93	0.70	0.56	0.47
	200	1.61	3.22	1.61	1.07	0.81	0.64	0.54
	250	1.80	3.60	1.80	1.20	0.90	0.72	0.60
	300	1.97	3.94	1.97	1.31	0.99	0.79	0.66
	350	2.13	4.26	2.13	1.42	1.07	0.85	0.71
	400	2.28	4.56	2.28	1.52	1.14	0.91	0.76

Application Rate (Litres/Ha) for 60m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
6	150	1.68	3.36	1.68	1.12	0.84	0.67	0.56
	200	1.93	3.86	1.93	1.29	0.97	0.77	0.64
	250	2.16	4.32	2.16	1.44	1.08	0.86	0.72
	300	2.37	4.74	2.37	1.58	1.19	0.95	0.79
	350	2.56	5.12	2.56	1.71	1.28	1.02	0.85
	400	2.74	5.48	2.74	1.83	1.37	1.10	0.91
8	150	2.23	4.46	2.23	1.49	1.12	0.89	0.74
	200	2.58	5.16	2.58	1.72	1.29	1.03	0.86
	250	2.88	5.76	2.88	1.92	1.44	1.15	0.96
	300	3.16	6.32	3.16	2.11	1.58	1.26	1.05
	350	3.41	6.82	3.41	2.27	1.71	1.36	1.14
	400	3.65	7.30	3.65	2.43	1.83	1.46	1.22
10	150	2.79	5.58	2.79	1.86	1.40	1.12	0.93
	200	3.22	6.44	3.22	2.15	1.61	1.29	1.07
	250	3.60	7.20	3.60	2.40	1.80	1.44	1.20
	300	3.95	7.90	3.95	2.63	1.98	1.58	1.32
	350	4.26	8.52	4.26	2.84	2.13	1.70	1.42
	400	4.56	9.12	4.56	3.04	2.28	1.82	1.52
15	150	4.19	8.38	4.19	2.79	2.10	1.68	1.40
	200	4.84	9.68	4.84	3.23	2.42	1.94	1.61
	250	5.40	10.80	5.40	3.60	2.70	2.16	1.80
	300	5.92	11.84	5.92	3.95	2.96	2.37	1.97
	350	6.40	12.80	6.40	4.27	3.20	2.56	2.13
	400	6.84	13.68	6.84	4.56	3.42	2.74	2.28
20	150	5.58	11.16	5.58	3.72	2.79	2.23	1.86
	200	6.45	12.90	6.45	4.30	3.23	2.58	2.15
	250	7.21	14.42	7.21	4.81	3.61	2.88	2.40
	300	7.90	15.80	7.90	5.27	3.95	3.16	2.63
	350	8.53	17.06	8.53	5.69	4.27	3.41	2.84
	400	9.12	18.24	9.12	6.08	4.56	3.65	3.04

XR or TP Nozzle Misting Charts

Application Rate (Litres/Ha) for 70m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
1.5	150	0.42	0.72	0.36	0.24	0.18	0.14	0.12
	200	0.48	0.82	0.41	0.27	0.21	0.16	0.14
	250	0.54	0.93	0.46	0.31	0.23	0.19	0.15
	300	0.59	1.01	0.51	0.34	0.25	0.20	0.17
	350	0.64	1.10	0.55	0.37	0.27	0.22	0.18
	400	0.68	1.17	0.58	0.39	0.29	0.23	0.19
2	150	0.56	0.96	0.48	0.32	0.24	0.19	0.16
	200	0.64	1.10	0.55	0.37	0.27	0.22	0.18
	250	0.72	1.23	0.62	0.41	0.31	0.25	0.21
	300	0.79	1.35	0.68	0.45	0.34	0.27	0.23
	350	0.85	1.46	0.73	0.49	0.36	0.29	0.24
	400	0.91	1.56	0.78	0.52	0.39	0.31	0.26
3	150	0.84	1.44	0.72	0.48	0.36	0.29	0.24
	200	0.97	1.66	0.83	0.55	0.42	0.33	0.28
	250	1.08	1.85	0.93	0.62	0.46	0.37	0.31
	300	1.18	2.02	1.01	0.67	0.51	0.40	0.34
	350	1.28	2.19	1.10	0.73	0.55	0.44	0.37
	400	1.37	2.35	1.17	0.78	0.59	0.47	0.39
4	150	1.12	1.92	0.96	0.64	0.48	0.38	0.32
	200	1.29	2.21	1.11	0.74	0.55	0.44	0.37
	250	1.44	2.47	1.23	0.82	0.62	0.49	0.41
	300	1.58	2.71	1.35	0.90	0.68	0.54	0.45
	350	1.71	2.93	1.47	0.98	0.73	0.59	0.49
	400	1.82	3.12	1.56	1.04	0.78	0.62	0.52
5	150	1.40	2.40	1.20	0.80	0.60	0.48	0.40
	200	1.61	2.76	1.38	0.92	0.69	0.55	0.46
	250	1.80	3.09	1.54	1.03	0.77	0.62	0.51
	300	1.97	3.38	1.69	1.13	0.84	0.68	0.56
	350	2.13	3.65	1.83	1.22	0.91	0.73	0.61
	400	2.28	3.91	1.95	1.30	0.98	0.78	0.65

Application Rate (Litres/Ha) for 70m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
6	150	1.68	2.88	1.44	0.96	0.72	0.58	0.48
	200	1.93	3.31	1.65	1.10	0.83	0.66	0.55
	250	2.16	3.70	1.85	1.23	0.93	0.74	0.62
	300	2.37	4.06	2.03	1.35	1.02	0.81	0.68
	350	2.56	4.39	2.19	1.46	1.10	0.88	0.73
	400	2.74	4.70	2.35	1.57	1.17	0.94	0.78
8	150	2.23	3.82	1.91	1.27	0.96	0.76	0.64
	200	2.58	4.42	2.21	1.47	1.11	0.88	0.74
	250	2.88	4.94	2.47	1.65	1.23	0.99	0.82
	300	3.16	5.42	2.71	1.81	1.35	1.08	0.90
	350	3.41	5.85	2.92	1.95	1.46	1.17	0.97
	400	3.65	6.26	3.13	2.09	1.56	1.25	1.04
10	150	2.79	4.78	2.39	1.59	1.20	0.96	0.80
	200	3.22	5.52	2.76	1.84	1.38	1.10	0.92
	250	3.60	6.17	3.09	2.06	1.54	1.23	1.03
	300	3.95	6.77	3.39	2.26	1.69	1.35	1.13
	350	4.26	7.30	3.65	2.43	1.83	1.46	1.22
	400	4.56	7.82	3.91	2.61	1.95	1.56	1.30
15	150	4.19	7.18	3.59	2.39	1.80	1.44	1.20
	200	4.84	8.30	4.15	2.77	2.07	1.66	1.38
	250	5.40	9.26	4.63	3.09	2.31	1.85	1.54
	300	5.92	10.15	5.07	3.38	2.54	2.03	1.69
	350	6.40	10.97	5.49	3.66	2.74	2.19	1.83
	400	6.84	11.73	5.86	3.91	2.93	2.35	1.95
20	150	5.58	9.57	4.78	3.19	2.39	1.91	1.59
	200	6.45	11.06	5.53	3.69	2.76	2.21	1.84
	250	7.21	12.36	6.18	4.12	3.09	2.47	2.06
	300	7.90	13.54	6.77	4.51	3.39	2.71	2.26
	350	8.53	14.62	7.31	4.87	3.66	2.92	2.44
	400	9.12	15.63	7.82	5.21	3.91	3.13	2.61

XR or TP Nozzle Misting Charts

Application Rate (Litres/Ha) for 80m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
1.5	150	0.42	0.63	0.31	0.21	0.16	0.13	0.11
	200	0.48	0.72	0.36	0.24	0.18	0.14	0.12
	250	0.54	0.81	0.41	0.27	0.20	0.16	0.14
	300	0.59	0.89	0.44	0.30	0.22	0.18	0.15
	350	0.64	0.96	0.48	0.32	0.24	0.19	0.16
	400	0.68	1.02	0.51	0.34	0.26	0.20	0.17
2	150	0.56	0.84	0.42	0.28	0.21	0.17	0.14
	200	0.64	0.96	0.48	0.32	0.24	0.19	0.16
	250	0.72	1.08	0.54	0.36	0.27	0.22	0.18
	300	0.79	1.19	0.59	0.40	0.30	0.24	0.20
	350	0.85	1.28	0.64	0.43	0.32	0.26	0.21
	400	0.91	1.37	0.68	0.46	0.34	0.27	0.23
3	150	0.84	1.26	0.63	0.42	0.31	0.25	0.21
	200	0.97	1.46	0.73	0.49	0.36	0.29	0.24
	250	1.08	1.62	0.81	0.54	0.41	0.32	0.27
	300	1.18	1.77	0.89	0.59	0.44	0.35	0.30
	350	1.28	1.92	0.96	0.64	0.48	0.38	0.32
	400	1.37	2.06	1.03	0.69	0.51	0.41	0.34
4	150	1.12	1.68	0.84	0.56	0.42	0.34	0.28
	200	1.29	1.94	0.97	0.65	0.48	0.39	0.32
	250	1.44	2.16	1.08	0.72	0.54	0.43	0.36
	300	1.58	2.37	1.19	0.79	0.59	0.47	0.40
	350	1.71	2.57	1.28	0.86	0.64	0.51	0.43
	400	1.82	2.73	1.37	0.91	0.68	0.55	0.46
5	150	1.40	2.10	1.05	0.70	0.53	0.42	0.35
	200	1.61	2.42	1.21	0.81	0.60	0.48	0.40
	250	1.80	2.70	1.35	0.90	0.68	0.54	0.45
	300	1.97	2.96	1.48	0.99	0.74	0.59	0.49
	350	2.13	3.20	1.60	1.07	0.80	0.64	0.53
	400	2.28	3.42	1.71	1.14	0.86	0.68	0.57

Application Rate (Litres/Ha) for 80m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
6	150	1.68	2.52	1.26	0.84	0.63	0.50	0.42
	200	1.93	2.90	1.45	0.97	0.72	0.58	0.48
	250	2.16	3.24	1.62	1.08	0.81	0.65	0.54
	300	2.37	3.56	1.78	1.19	0.89	0.71	0.59
	350	2.56	3.84	1.92	1.28	0.96	0.77	0.64
	400	2.74	4.11	2.06	1.37	1.03	0.82	0.69
8	150	2.23	3.35	1.67	1.12	0.84	0.67	0.56
	200	2.58	3.87	1.94	1.29	0.97	0.77	0.65
	250	2.88	4.32	2.16	1.44	1.08	0.86	0.72
	300	3.16	4.74	2.37	1.58	1.19	0.95	0.79
	350	3.41	5.12	2.56	1.71	1.28	1.02	0.85
	400	3.65	5.48	2.74	1.83	1.37	1.10	0.91
10	150	2.79	4.19	2.09	1.40	1.05	0.84	0.70
	200	3.22	4.83	2.42	1.61	1.21	0.97	0.81
	250	3.60	5.40	2.70	1.80	1.35	1.08	0.90
	300	3.95	5.93	2.96	1.98	1.48	1.19	0.99
	350	4.26	6.39	3.20	2.13	1.60	1.28	1.07
	400	4.56	6.84	3.42	2.28	1.71	1.37	1.14
15	150	4.19	6.29	3.14	2.10	1.57	1.26	1.05
	200	4.84	7.26	3.63	2.42	1.82	1.45	1.21
	250	5.40	8.10	4.05	2.70	2.03	1.62	1.35
	300	5.92	8.88	4.44	2.96	2.22	1.78	1.48
	350	6.40	9.60	4.80	3.20	2.40	1.92	1.60
	400	6.84	10.26	5.13	3.42	2.57	2.05	1.71
20	150	5.58	8.37	4.19	2.79	2.09	1.67	1.40
	200	6.45	9.68	4.84	3.23	2.42	1.94	1.61
	250	7.21	10.82	5.41	3.61	2.70	2.16	1.80
	300	7.90	11.85	5.93	3.95	2.96	2.37	1.98
	350	8.53	12.80	6.40	4.27	3.20	2.56	2.13
	400	9.12	13.68	6.84	4.56	3.42	2.74	2.28

XR or TP Nozzle Misting Charts

Application Rate (Litres/Ha) for 90m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
1.5	150	0.42	0.56	0.28	0.19	0.14	0.11	0.09
	200	0.48	0.64	0.32	0.21	0.16	0.13	0.11
	250	0.54	0.72	0.36	0.24	0.18	0.14	0.12
	300	0.59	0.79	0.39	0.26	0.20	0.16	0.13
	350	0.64	0.85	0.43	0.28	0.21	0.17	0.14
	400	0.68	0.91	0.45	0.30	0.23	0.18	0.15
2	150	0.56	0.75	0.37	0.25	0.19	0.15	0.12
	200	0.64	0.85	0.43	0.28	0.21	0.17	0.14
	250	0.72	0.96	0.48	0.32	0.24	0.19	0.16
	300	0.79	1.05	0.53	0.35	0.26	0.21	0.18
	350	0.85	1.13	0.57	0.38	0.28	0.23	0.19
	400	0.91	1.21	0.61	0.40	0.30	0.24	0.20
3	150	0.84	1.12	0.56	0.37	0.28	0.22	0.19
	200	0.97	1.29	0.65	0.43	0.32	0.26	0.22
	250	1.08	1.44	0.72	0.48	0.36	0.29	0.24
	300	1.18	1.57	0.79	0.52	0.39	0.31	0.26
	350	1.28	1.71	0.85	0.57	0.43	0.34	0.28
	400	1.37	1.83	0.91	0.61	0.46	0.37	0.30
4	150	1.12	1.49	0.75	0.50	0.37	0.30	0.25
	200	1.29	1.72	0.86	0.57	0.43	0.34	0.29
	250	1.44	1.92	0.96	0.64	0.48	0.38	0.32
	300	1.58	2.11	1.05	0.70	0.53	0.42	0.35
	350	1.71	2.28	1.14	0.76	0.57	0.46	0.38
	400	1.82	2.43	1.21	0.81	0.61	0.49	0.40
5	150	1.40	1.87	0.93	0.62	0.47	0.37	0.31
	200	1.61	2.15	1.07	0.72	0.54	0.43	0.36
	250	1.80	2.40	1.20	0.80	0.60	0.48	0.40
	300	1.97	2.63	1.31	0.88	0.66	0.53	0.44
	350	2.13	2.84	1.42	0.95	0.71	0.57	0.47
	400	2.28	3.04	1.52	1.01	0.76	0.61	0.51
	150							

Application Rate (Litres/Ha) for 90m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
6	150	1.68	2.24	1.12	0.75	0.56	0.45	0.37
	200	1.93	2.57	1.29	0.86	0.64	0.51	0.43
	250	2.16	2.88	1.44	0.96	0.72	0.58	0.48
	300	2.37	3.16	1.58	1.05	0.79	0.63	0.53
	350	2.56	3.41	1.71	1.14	0.85	0.68	0.57
	400	2.74	3.65	1.83	1.22	0.91	0.73	0.61
8	150	2.23	2.97	1.49	0.99	0.74	0.59	0.50
	200	2.58	3.44	1.72	1.15	0.86	0.69	0.57
	250	2.88	3.84	1.92	1.28	0.96	0.77	0.64
	300	3.16	4.21	2.11	1.40	1.05	0.84	0.70
	350	3.41	4.55	2.27	1.52	1.14	0.91	0.76
	400	3.65	4.87	2.43	1.62	1.22	0.97	0.81
10	150	2.79	3.72	1.86	1.24	0.93	0.74	0.62
	200	3.22	4.29	2.15	1.43	1.07	0.86	0.72
	250	3.60	4.80	2.40	1.60	1.20	0.96	0.80
	300	3.95	5.27	2.63	1.76	1.32	1.05	0.88
	350	4.26	5.68	2.84	1.89	1.42	1.14	0.95
	400	4.56	6.08	3.04	2.03	1.52	1.22	1.01
15	150	4.19	5.59	2.79	1.86	1.40	1.12	0.93
	200	4.84	6.45	3.23	2.15	1.61	1.29	1.08
	250	5.40	7.20	3.60	2.40	1.80	1.44	1.20
	300	5.92	7.89	3.95	2.63	1.97	1.58	1.32
	350	6.40	8.53	4.27	2.84	2.13	1.71	1.42
	400	6.84	9.12	4.56	3.04	2.28	1.82	1.52
20	150	5.58	7.44	3.72	2.48	1.86	1.49	1.24
	200	6.45	8.60	4.30	2.87	2.15	1.72	1.43
	250	7.21	9.61	4.81	3.20	2.40	1.92	1.60
	300	7.90	10.53	5.27	3.51	2.63	2.11	1.76
	350	8.53	11.37	5.69	3.79	2.84	2.27	1.90
	400	9.12	12.16	6.08	4.05	3.04	2.43	2.03

XR or TP Nozzle Misting Charts

Application Rate (Litres/Ha) for 100m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
1.5	150	0.42	0.50	0.25	0.17	0.13	0.10	0.08
	200	0.48	0.58	0.29	0.19	0.14	0.12	0.10
	250	0.54	0.65	0.32	0.22	0.16	0.13	0.11
	300	0.59	0.71	0.35	0.24	0.18	0.14	0.12
	350	0.64	0.77	0.38	0.26	0.19	0.15	0.13
	400	0.68	0.82	0.41	0.27	0.20	0.16	0.14
2	150	0.56	0.67	0.34	0.22	0.17	0.13	0.11
	200	0.64	0.77	0.38	0.26	0.19	0.15	0.13
	250	0.72	0.86	0.43	0.29	0.22	0.17	0.14
	300	0.79	0.95	0.47	0.32	0.24	0.19	0.16
	350	0.85	1.02	0.51	0.34	0.26	0.20	0.17
	400	0.91	1.09	0.55	0.36	0.27	0.22	0.18
3	150	0.84	1.01	0.50	0.34	0.25	0.20	0.17
	200	0.97	1.16	0.58	0.39	0.29	0.23	0.19
	250	1.08	1.30	0.65	0.43	0.32	0.26	0.22
	300	1.18	1.42	0.71	0.47	0.35	0.28	0.24
	350	1.28	1.54	0.77	0.51	0.38	0.31	0.26
	400	1.37	1.64	0.82	0.55	0.41	0.33	0.27
4	150	1.12	1.34	0.67	0.45	0.34	0.27	0.22
	200	1.29	1.55	0.77	0.52	0.39	0.31	0.26
	250	1.44	1.73	0.86	0.58	0.43	0.35	0.29
	300	1.58	1.90	0.95	0.63	0.47	0.38	0.32
	350	1.71	2.05	1.03	0.68	0.51	0.41	0.34
	400	1.82	2.18	1.09	0.73	0.55	0.44	0.36
5	150	1.40	1.68	0.84	0.56	0.42	0.34	0.28
	200	1.61	1.93	0.97	0.64	0.48	0.39	0.32
	250	1.80	2.16	1.08	0.72	0.54	0.43	0.36
	300	1.97	2.36	1.18	0.79	0.59	0.47	0.39
	350	2.13	2.56	1.28	0.85	0.64	0.51	0.43
	400	2.28	2.74	1.37	0.91	0.68	0.55	0.46

Application Rate (Litres/Ha) for 100m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
6	150	1.68	2.02	1.01	0.67	0.50	0.40	0.34
	200	1.93	2.32	1.16	0.77	0.58	0.46	0.39
	250	2.16	2.59	1.30	0.86	0.65	0.52	0.43
	300	2.37	2.84	1.42	0.95	0.71	0.57	0.47
	350	2.56	3.07	1.54	1.02	0.77	0.61	0.51
	400	2.74	3.29	1.64	1.10	0.82	0.66	0.55
8	150	2.23	2.68	1.34	0.89	0.67	0.54	0.45
	200	2.58	3.10	1.55	1.03	0.77	0.62	0.52
	250	2.88	3.46	1.73	1.15	0.86	0.69	0.58
	300	3.16	3.79	1.90	1.26	0.95	0.76	0.63
	350	3.41	4.09	2.05	1.36	1.02	0.82	0.68
	400	3.65	4.38	2.19	1.46	1.10	0.88	0.73
10	150	2.79	3.35	1.67	1.12	0.84	0.67	0.56
	200	3.22	3.86	1.93	1.29	0.97	0.77	0.64
	250	3.60	4.32	2.16	1.44	1.08	0.86	0.72
	300	3.95	4.74	2.37	1.58	1.19	0.95	0.79
	350	4.26	5.11	2.56	1.70	1.28	1.02	0.85
	400	4.56	5.47	2.74	1.82	1.37	1.09	0.91
15	150	4.19	5.03	2.51	1.68	1.26	1.01	0.84
	200	4.84	5.81	2.90	1.94	1.45	1.16	0.97
	250	5.40	6.48	3.24	2.16	1.62	1.30	1.08
	300	5.92	7.10	3.55	2.37	1.78	1.42	1.18
	350	6.40	7.68	3.84	2.56	1.92	1.54	1.28
	400	6.84	8.21	4.10	2.74	2.05	1.64	1.37
20	150	5.58	6.70	3.35	2.23	1.67	1.34	1.12
	200	6.45	7.74	3.87	2.58	1.94	1.55	1.29
	250	7.21	8.65	4.33	2.88	2.16	1.73	1.44
	300	7.90	9.48	4.74	3.16	2.37	1.90	1.58
	350	8.53	10.24	5.12	3.41	2.56	2.05	1.71
	400	9.12	10.94	5.47	3.65	2.74	2.19	1.82

Albuz ATR Hollow Cone Nozzles

Application Rate (Litres/Ha) for 20m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Lilac	100	0.17	1.02	0.51	0.34	0.26	0.20	0.17
	200	0.24	1.44	0.72	0.48	0.36	0.29	0.24
	300	0.29	1.74	0.87	0.58	0.44	0.35	0.29
	400	0.33	1.98	0.99	0.66	0.50	0.40	0.33
	500	0.37	2.22	1.11	0.74	0.56	0.44	0.37
	600	0.4	2.40	1.20	0.80	0.60	0.48	0.40
Brown	100	0.23	1.38	0.69	0.46	0.35	0.28	0.23
	200	0.31	1.86	0.93	0.62	0.47	0.37	0.31
	300	0.38	2.28	1.14	0.76	0.57	0.46	0.38
	400	0.43	2.58	1.29	0.86	0.65	0.52	0.43
	500	0.48	2.88	1.44	0.96	0.72	0.58	0.48
	600	0.52	3.12	1.56	1.04	0.78	0.62	0.52
Yellow	100	0.35	2.10	1.05	0.70	0.53	0.42	0.35
	200	0.49	2.94	1.47	0.98	0.74	0.59	0.49
	300	0.59	3.54	1.77	1.18	0.89	0.71	0.59
	400	0.67	4.02	2.01	1.34	1.01	0.80	0.67
	500	0.74	4.44	2.22	1.48	1.11	0.89	0.74
	600	0.81	4.86	2.43	1.62	1.22	0.97	0.81
Orange	100	0.47	2.82	1.41	0.94	0.71	0.56	0.47
	200	0.64	3.84	1.92	1.28	0.96	0.77	0.64
	300	0.77	4.62	2.31	1.54	1.16	0.92	0.77
	400	0.88	5.28	2.64	1.76	1.32	1.06	0.88
	500	0.98	5.88	2.94	1.96	1.47	1.18	0.98
	600	1.06	6.36	3.18	2.12	1.59	1.27	1.06
Red	100	0.66	3.96	1.98	1.32	0.99	0.79	0.66
	200	0.91	5.46	2.73	1.82	1.37	1.09	0.91
	300	1.1	6.60	3.30	2.20	1.65	1.32	1.10
	400	1.25	7.50	3.75	2.50	1.88	1.50	1.25
	500	1.39	8.34	4.17	2.78	2.09	1.67	1.39
	600	1.51	9.06	4.53	3.02	2.27	1.81	1.51
Green	100	0.85	5.10	2.55	1.70	1.28	1.02	0.85
	200	1.116	6.70	3.35	2.23	1.67	1.34	1.12
	300	1.4	8.40	4.20	2.80	2.10	1.68	1.40
	400	1.6	9.60	4.80	3.20	2.40	1.92	1.60
	500	1.77	10.62	5.31	3.54	2.66	2.12	1.77
	600	1.93	11.58	5.79	3.86	2.90	2.32	1.93

Application Rate (Litres/Ha) for 20m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Blue	100	1.17	7.02	3.51	2.34	1.76	1.40	1.17
	200	1.61	9.66	4.83	3.22	2.42	1.93	1.61
	300	1.94	11.64	5.82	3.88	2.91	2.33	1.94
	400	2.21	13.26	6.63	4.42	3.32	2.65	2.21
	500	2.45	14.70	7.35	4.90	3.68	2.94	2.45
	600	2.66	15.96	7.98	5.32	3.99	3.19	2.66
2 x Red	100	1.32	7.92	3.96	2.64	1.98	1.58	1.32
	200	1.82	10.92	5.46	3.64	2.73	2.18	1.82
	300	2.2	13.20	6.60	4.40	3.30	2.64	2.20
	400	2.5	15.00	7.50	5.00	3.75	3.00	2.50
	500	2.78	16.68	8.34	5.56	4.17	3.34	2.78
	600	3.02	18.12	9.06	6.04	4.53	3.62	3.02
2 x Green	100	1.7	10.20	5.10	3.40	2.55	2.04	1.70
	200	2.232	13.39	6.70	4.46	3.35	2.68	2.23
	300	2.8	16.80	8.40	5.60	4.20	3.36	2.80
	400	3.2	19.20	9.60	6.40	4.80	3.84	3.20
	500	3.54	21.24	10.62	7.08	5.31	4.25	3.54
	600	3.86	23.16	11.58	7.72	5.79	4.63	3.86
2 x Blue	100	2.34	14.04	7.02	4.68	3.51	2.81	2.34
	200	3.22	19.32	9.66	6.44	4.83	3.86	3.22
	300	3.88	23.28	11.64	7.76	5.82	4.66	3.88
	400	4.42	26.52	13.26	8.84	6.63	5.30	4.42
	500	4.9	29.40	14.70	9.80	7.35	5.88	4.90
	600	5.32	31.92	15.96	10.64	7.98	6.38	5.32
3 x Blue	100	3.51	21.06	10.53	7.02	5.27	4.21	3.51
	200	4.83	28.98	14.49	9.66	7.25	5.80	4.83
	300	5.82	34.92	17.46	11.64	8.73	6.98	5.82
	400	6.63	39.78	19.89	13.26	9.95	7.96	6.63
	500	7.35	44.10	22.05	14.70	11.03	8.82	7.35
	600	7.98	47.88	23.94	15.96	11.97	9.58	7.98

Albuz ATR Hollow Cone Nozzles

Application Rate (Litres/Ha) for 30m Swath Width								
Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Lilac	100	0.17	0.68	0.34	0.23	0.17	0.14	0.11
	200	0.24	0.96	0.48	0.32	0.24	0.19	0.16
	300	0.29	1.16	0.58	0.39	0.29	0.23	0.19
	400	0.33	1.32	0.66	0.44	0.33	0.26	0.22
	500	0.37	1.48	0.74	0.49	0.37	0.30	0.25
	600	0.4	1.60	0.80	0.53	0.40	0.32	0.27
Brown	100	0.23	0.92	0.46	0.31	0.23	0.18	0.15
	200	0.31	1.24	0.62	0.41	0.31	0.25	0.21
	300	0.38	1.52	0.76	0.51	0.38	0.30	0.25
	400	0.43	1.72	0.86	0.57	0.43	0.34	0.29
	500	0.48	1.92	0.96	0.64	0.48	0.38	0.32
	600	0.52	2.08	1.04	0.69	0.52	0.42	0.35
Yellow	100	0.35	1.40	0.70	0.47	0.35	0.28	0.23
	200	0.49	1.96	0.98	0.65	0.49	0.39	0.33
	300	0.59	2.36	1.18	0.79	0.59	0.47	0.39
	400	0.67	2.68	1.34	0.89	0.67	0.54	0.45
	500	0.74	2.96	1.48	0.99	0.74	0.59	0.49
	600	0.81	3.24	1.62	1.08	0.81	0.65	0.54
Orange	100	0.47	1.88	0.94	0.63	0.47	0.38	0.31
	200	0.64	2.56	1.28	0.85	0.64	0.51	0.43
	300	0.77	3.08	1.54	1.03	0.77	0.62	0.51
	400	0.88	3.52	1.76	1.17	0.88	0.70	0.59
	500	0.98	3.92	1.96	1.31	0.98	0.78	0.65
	600	1.06	4.24	2.12	1.41	1.06	0.85	0.71
Red	100	0.66	2.64	1.32	0.88	0.66	0.53	0.44
	200	0.91	3.64	1.82	1.21	0.91	0.73	0.61
	300	1.1	4.40	2.20	1.47	1.10	0.88	0.73
	400	1.25	5.00	2.50	1.67	1.25	1.00	0.83
	500	1.39	5.56	2.78	1.85	1.39	1.11	0.93
	600	1.51	6.04	3.02	2.01	1.51	1.21	1.01
Green	100	0.85	3.40	1.70	1.13	0.85	0.68	0.57
	200	1.116	4.46	2.23	1.49	1.12	0.89	0.74
	300	1.4	5.60	2.80	1.87	1.40	1.12	0.93
	400	1.6	6.40	3.20	2.13	1.60	1.28	1.07
	500	1.77	7.08	3.54	2.36	1.77	1.42	1.18
	600	1.93	7.72	3.86	2.57	1.93	1.54	1.29

Application Rate (Litres/Ha) for 30m Swath Width								
Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Blue	100	1.17	4.68	2.34	1.56	1.17	0.94	0.78
	200	1.61	6.44	3.22	2.15	1.61	1.29	1.07
	300	1.94	7.76	3.88	2.59	1.94	1.55	1.29
	400	2.21	8.84	4.42	2.95	2.21	1.77	1.47
	500	2.45	9.80	4.90	3.27	2.45	1.96	1.63
	600	2.66	10.64	5.32	3.55	2.66	2.13	1.77
2 x Red	100	1.32	5.28	2.64	1.76	1.32	1.06	0.88
	200	1.82	7.28	3.64	2.43	1.82	1.46	1.21
	300	2.2	8.80	4.40	2.93	2.20	1.76	1.47
	400	2.5	10.00	5.00	3.33	2.50	2.00	1.67
	500	2.78	11.12	5.56	3.71	2.78	2.22	1.85
	600	3.02	12.08	6.04	4.03	3.02	2.42	2.01
2 x Green	100	1.7	6.80	3.40	2.27	1.70	1.36	1.13
	200	2.232	8.93	4.46	2.98	2.23	1.79	1.49
	300	2.8	11.20	5.60	3.73	2.80	2.24	1.87
	400	3.2	12.80	6.40	4.27	3.20	2.56	2.13
	500	3.54	14.16	7.08	4.72	3.54	2.83	2.36
	600	3.86	15.44	7.72	5.15	3.86	3.09	2.57
2 x Blue	100	2.34	9.36	4.68	3.12	2.34	1.87	1.56
	200	3.22	12.88	6.44	4.29	3.22	2.58	2.15
	300	3.88	15.52	7.76	5.17	3.88	3.10	2.59
	400	4.42	17.68	8.84	5.89	4.42	3.54	2.95
	500	4.9	19.60	9.80	6.53	4.90	3.92	3.27
	600	5.32	21.28	10.64	7.09	5.32	4.26	3.55
3 x Blue	100	3.51	14.04	7.02	4.68	3.51	2.81	2.34
	200	4.83	19.32	9.66	6.44	4.83	3.86	3.22
	300	5.82	23.28	11.64	7.76	5.82	4.66	3.88
	400	6.63	26.52	13.26	8.84	6.63	5.30	4.42
	500	7.35	29.40	14.70	9.80	7.35	5.88	4.90
	600	7.98	31.92	15.96	10.64	7.98	6.38	5.32

Albuz ATR Hollow Cone Nozzles

Application Rate (Litres/Ha) for 40m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Lilac	100	0.17	0.51	0.26	0.17	0.13	0.10	0.09
	200	0.24	0.72	0.36	0.24	0.18	0.14	0.12
	300	0.29	0.87	0.44	0.29	0.22	0.17	0.15
	400	0.33	0.99	0.50	0.33	0.25	0.20	0.17
	500	0.37	1.11	0.56	0.37	0.28	0.22	0.19
	600	0.4	1.20	0.60	0.40	0.30	0.24	0.20
Brown	100	0.23	0.69	0.35	0.23	0.17	0.14	0.12
	200	0.31	0.93	0.47	0.31	0.23	0.19	0.16
	300	0.38	1.14	0.57	0.38	0.29	0.23	0.19
	400	0.43	1.29	0.65	0.43	0.32	0.26	0.22
	500	0.48	1.44	0.72	0.48	0.36	0.29	0.24
	600	0.52	1.56	0.78	0.52	0.39	0.31	0.26
Yellow	100	0.35	1.05	0.53	0.35	0.26	0.21	0.18
	200	0.49	1.47	0.74	0.49	0.37	0.29	0.25
	300	0.59	1.77	0.89	0.59	0.44	0.35	0.30
	400	0.67	2.01	1.01	0.67	0.50	0.40	0.34
	500	0.74	2.22	1.11	0.74	0.56	0.44	0.37
	600	0.81	2.43	1.22	0.81	0.61	0.49	0.41
Orange	100	0.47	1.41	0.71	0.47	0.35	0.28	0.24
	200	0.64	1.92	0.96	0.64	0.48	0.38	0.32
	300	0.77	2.31	1.16	0.77	0.58	0.46	0.39
	400	0.88	2.64	1.32	0.88	0.66	0.53	0.44
	500	0.98	2.94	1.47	0.98	0.74	0.59	0.49
	600	1.06	3.18	1.59	1.06	0.80	0.64	0.53
Red	100	0.66	1.98	0.99	0.66	0.50	0.40	0.33
	200	0.91	2.73	1.37	0.91	0.68	0.55	0.46
	300	1.1	3.30	1.65	1.10	0.83	0.66	0.55
	400	1.25	3.75	1.88	1.25	0.94	0.75	0.63
	500	1.39	4.17	2.09	1.39	1.04	0.83	0.70
	600	1.51	4.53	2.27	1.51	1.13	0.91	0.76
Green	100	0.85	2.55	1.28	0.85	0.64	0.51	0.43
	200	1.116	3.35	1.67	1.12	0.84	0.67	0.56
	300	1.4	4.20	2.10	1.40	1.05	0.84	0.70
	400	1.6	4.80	2.40	1.60	1.20	0.96	0.80
	500	1.77	5.31	2.66	1.77	1.33	1.06	0.89
	600	1.93	5.79	2.90	1.93	1.45	1.16	0.97

Application Rate (Litres/Ha) for 40m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Blue	100	1.17	3.51	1.76	1.17	0.88	0.70	0.59
	200	1.61	4.83	2.42	1.61	1.21	0.97	0.81
	300	1.94	5.82	2.91	1.94	1.46	1.16	0.97
	400	2.21	6.63	3.32	2.21	1.66	1.33	1.11
	500	2.45	7.35	3.68	2.45	1.84	1.47	1.23
	600	2.66	7.98	3.99	2.66	2.00	1.60	1.33
2 x Red	100	1.32	3.96	1.98	1.32	0.99	0.79	0.66
	200	1.82	5.46	2.73	1.82	1.37	1.09	0.91
	300	2.2	6.60	3.30	2.20	1.65	1.32	1.10
	400	2.5	7.50	3.75	2.50	1.88	1.50	1.25
	500	2.78	8.34	4.17	2.78	2.09	1.67	1.39
	600	3.02	9.06	4.53	3.02	2.27	1.81	1.51
2 x Green	100	1.7	5.10	2.55	1.70	1.28	1.02	0.85
	200	2.232	6.70	3.35	2.23	1.67	1.34	1.12
	300	2.8	8.40	4.20	2.80	2.10	1.68	1.40
	400	3.2	9.60	4.80	3.20	2.40	1.92	1.60
	500	3.54	10.62	5.31	3.54	2.66	2.12	1.77
	600	3.86	11.58	5.79	3.86	2.90	2.32	1.93
2 x Blue	100	2.34	7.02	3.51	2.34	1.76	1.40	1.17
	200	3.22	9.66	4.83	3.22	2.42	1.93	1.61
	300	3.88	11.64	5.82	3.88	2.91	2.33	1.94
	400	4.42	13.26	6.63	4.42	3.32	2.65	2.21
	500	4.9	14.70	7.35	4.90	3.68	2.94	2.45
	600	5.32	15.96	7.98	5.32	3.99	3.19	2.66
3 x Blue	100	3.51	10.53	5.27	3.51	2.63	2.11	1.76
	200	4.83	14.49	7.25	4.83	3.62	2.90	2.42
	300	5.82	17.46	8.73	5.82	4.37	3.49	2.91
	400	6.63	19.89	9.95	6.63	4.97	3.98	3.32
	500	7.35	22.05	11.03	7.35	5.51	4.41	3.68
	600	7.98	23.94	11.97	7.98	5.99	4.79	3.99

Albuz ATR Hollow Cone Nozzles

Application Rate (Litres/Ha) for 50m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Lilac	100	0.17	0.41	0.20	0.14	0.10	0.08	0.07
	200	0.24	0.58	0.29	0.19	0.14	0.12	0.10
	300	0.29	0.70	0.35	0.23	0.17	0.14	0.12
	400	0.33	0.79	0.40	0.26	0.20	0.16	0.13
	500	0.37	0.89	0.44	0.30	0.22	0.18	0.15
	600	0.4	0.96	0.48	0.32	0.24	0.19	0.16
Brown	100	0.23	0.55	0.28	0.18	0.14	0.11	0.09
	200	0.31	0.74	0.37	0.25	0.19	0.15	0.12
	300	0.38	0.91	0.46	0.30	0.23	0.18	0.15
	400	0.43	1.03	0.52	0.34	0.26	0.21	0.17
	500	0.48	1.15	0.58	0.38	0.29	0.23	0.19
	600	0.52	1.25	0.62	0.42	0.31	0.25	0.21
Yellow	100	0.35	0.84	0.42	0.28	0.21	0.17	0.14
	200	0.49	1.18	0.59	0.39	0.29	0.24	0.20
	300	0.59	1.42	0.71	0.47	0.35	0.28	0.24
	400	0.67	1.61	0.80	0.54	0.40	0.32	0.27
	500	0.74	1.78	0.89	0.59	0.44	0.36	0.30
	600	0.81	1.94	0.97	0.65	0.49	0.39	0.32
Orange	100	0.47	1.13	0.56	0.38	0.28	0.23	0.19
	200	0.64	1.54	0.77	0.51	0.38	0.31	0.26
	300	0.77	1.85	0.92	0.62	0.46	0.37	0.31
	400	0.88	2.11	1.06	0.70	0.53	0.42	0.35
	500	0.98	2.35	1.18	0.78	0.59	0.47	0.39
	600	1.06	2.54	1.27	0.85	0.64	0.51	0.42
Red	100	0.66	1.58	0.79	0.53	0.40	0.32	0.26
	200	0.91	2.18	1.09	0.73	0.55	0.44	0.36
	300	1.1	2.64	1.32	0.88	0.66	0.53	0.44
	400	1.25	3.00	1.50	1.00	0.75	0.60	0.50
	500	1.39	3.34	1.67	1.11	0.83	0.67	0.56
	600	1.51	3.62	1.81	1.21	0.91	0.72	0.60
Green	100	0.85	2.04	1.02	0.68	0.51	0.41	0.34
	200	1.116	2.68	1.34	0.89	0.67	0.54	0.45
	300	1.4	3.36	1.68	1.12	0.84	0.67	0.56
	400	1.6	3.84	1.92	1.28	0.96	0.77	0.64
	500	1.77	4.25	2.12	1.42	1.06	0.85	0.71
	600	1.93	4.63	2.32	1.54	1.16	0.93	0.77

Application Rate (Litres/Ha) for 50m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Blue	100	1.17	2.81	1.40	0.94	0.70	0.56	0.47
	200	1.61	3.86	1.93	1.29	0.97	0.77	0.64
	300	1.94	4.66	2.33	1.55	1.16	0.93	0.78
	400	2.21	5.30	2.65	1.77	1.33	1.06	0.88
	500	2.45	5.88	2.94	1.96	1.47	1.18	0.98
	600	2.66	6.38	3.19	2.13	1.60	1.28	1.06
2 x Red	100	1.32	3.17	1.58	1.06	0.79	0.63	0.53
	200	1.82	4.37	2.18	1.46	1.09	0.87	0.73
	300	2.2	5.28	2.64	1.76	1.32	1.06	0.88
	400	2.5	6.00	3.00	2.00	1.50	1.20	1.00
	500	2.78	6.67	3.34	2.22	1.67	1.33	1.11
	600	3.02	7.25	3.62	2.42	1.81	1.45	1.21
2 x Green	100	1.7	4.08	2.04	1.36	1.02	0.82	0.68
	200	2.232	5.36	2.68	1.79	1.34	1.07	0.89
	300	2.8	6.72	3.36	2.24	1.68	1.34	1.12
	400	3.2	7.68	3.84	2.56	1.92	1.54	1.28
	500	3.54	8.50	4.25	2.83	2.12	1.70	1.42
	600	3.86	9.26	4.63	3.09	2.32	1.85	1.54
2 x Blue	100	2.34	5.62	2.81	1.87	1.40	1.12	0.94
	200	3.22	7.73	3.86	2.58	1.93	1.55	1.29
	300	3.88	9.31	4.66	3.10	2.33	1.86	1.55
	400	4.42	10.61	5.30	3.54	2.65	2.12	1.77
	500	4.9	11.76	5.88	3.92	2.94	2.35	1.96
	600	5.32	12.77	6.38	4.26	3.19	2.55	2.13
3 x Blue	100	3.51	8.42	4.21	2.81	2.11	1.68	1.40
	200	4.83	11.59	5.80	3.86	2.90	2.32	1.93
	300	5.82	13.97	6.98	4.66	3.49	2.79	2.33
	400	6.63	15.91	7.96	5.30	3.98	3.18	2.65
	500	7.35	17.64	8.82	5.88	4.41	3.53	2.94
	600	7.98	19.15	9.58	6.38	4.79	3.83	3.19

Albuz ATR Hollow Cone Nozzles

Application Rate (Litres/Ha) for 60m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Lilac	100	0.17	0.34	0.17	0.11	0.09	0.07	0.06
	200	0.24	0.48	0.24	0.16	0.12	0.10	0.08
	300	0.29	0.58	0.29	0.19	0.15	0.12	0.10
	400	0.33	0.66	0.33	0.22	0.17	0.13	0.11
	500	0.37	0.74	0.37	0.25	0.19	0.15	0.12
	600	0.4	0.80	0.40	0.27	0.20	0.16	0.13
Brown	100	0.23	0.46	0.23	0.15	0.12	0.09	0.08
	200	0.31	0.62	0.31	0.21	0.16	0.12	0.10
	300	0.38	0.76	0.38	0.25	0.19	0.15	0.13
	400	0.43	0.86	0.43	0.29	0.22	0.17	0.14
	500	0.48	0.96	0.48	0.32	0.24	0.19	0.16
	600	0.52	1.04	0.52	0.35	0.26	0.21	0.17
Yellow	100	0.35	0.70	0.35	0.23	0.18	0.14	0.12
	200	0.49	0.98	0.49	0.33	0.25	0.20	0.16
	300	0.59	1.18	0.59	0.39	0.30	0.24	0.20
	400	0.67	1.34	0.67	0.45	0.34	0.27	0.22
	500	0.74	1.48	0.74	0.49	0.37	0.30	0.25
	600	0.81	1.62	0.81	0.54	0.41	0.32	0.27
Orange	100	0.47	0.94	0.47	0.31	0.24	0.19	0.16
	200	0.64	1.28	0.64	0.43	0.32	0.26	0.21
	300	0.77	1.54	0.77	0.51	0.39	0.31	0.26
	400	0.88	1.76	0.88	0.59	0.44	0.35	0.29
	500	0.98	1.96	0.98	0.65	0.49	0.39	0.33
	600	1.06	2.12	1.06	0.71	0.53	0.42	0.35
Red	100	0.66	1.32	0.66	0.44	0.33	0.26	0.22
	200	0.91	1.82	0.91	0.61	0.46	0.36	0.30
	300	1.1	2.20	1.10	0.73	0.55	0.44	0.37
	400	1.25	2.50	1.25	0.83	0.63	0.50	0.42
	500	1.39	2.78	1.39	0.93	0.70	0.56	0.46
	600	1.51	3.02	1.51	1.01	0.76	0.60	0.50
Green	100	0.85	1.70	0.85	0.57	0.43	0.34	0.28
	200	1.116	2.23	1.12	0.74	0.56	0.45	0.37
	300	1.4	2.80	1.40	0.93	0.70	0.56	0.47
	400	1.6	3.20	1.60	1.07	0.80	0.64	0.53
	500	1.77	3.54	1.77	1.18	0.89	0.71	0.59
	600	1.93	3.86	1.93	1.29	0.97	0.77	0.64

Application Rate (Litres/Ha) for 60m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Blue	100	1.17	2.34	1.17	0.78	0.59	0.47	0.39
	200	1.61	3.22	1.61	1.07	0.81	0.64	0.54
	300	1.94	3.88	1.94	1.29	0.97	0.78	0.65
	400	2.21	4.42	2.21	1.47	1.11	0.88	0.74
	500	2.45	4.90	2.45	1.63	1.23	0.98	0.82
	600	2.66	5.32	2.66	1.77	1.33	1.06	0.89
2 x Red	100	1.32	2.64	1.32	0.88	0.66	0.53	0.44
	200	1.82	3.64	1.82	1.21	0.91	0.73	0.61
	300	2.2	4.40	2.20	1.47	1.10	0.88	0.73
	400	2.5	5.00	2.50	1.67	1.25	1.00	0.83
	500	2.78	5.56	2.78	1.85	1.39	1.11	0.93
	600	3.02	6.04	3.02	2.01	1.51	1.21	1.01
2 x Green	100	1.7	3.40	1.70	1.13	0.85	0.68	0.57
	200	2.232	4.46	2.23	1.49	1.12	0.89	0.74
	300	2.8	5.60	2.80	1.87	1.40	1.12	0.93
	400	3.2	6.40	3.20	2.13	1.60	1.28	1.07
	500	3.54	7.08	3.54	2.36	1.77	1.42	1.18
	600	3.86	7.72	3.86	2.57	1.93	1.54	1.29
2 x Blue	100	2.34	4.68	2.34	1.56	1.17	0.94	0.78
	200	3.22	6.44	3.22	2.15	1.61	1.29	1.07
	300	3.88	7.76	3.88	2.59	1.94	1.55	1.29
	400	4.42	8.84	4.42	2.95	2.21	1.77	1.47
	500	4.9	9.80	4.90	3.27	2.45	1.96	1.63
	600	5.32	10.64	5.32	3.55	2.66	2.13	1.77
3 x Blue	100	3.51	7.02	3.51	2.34	1.76	1.40	1.17
	200	4.83	9.66	4.83	3.22	2.42	1.93	1.61
	300	5.82	11.64	5.82	3.88	2.91	2.33	1.94
	400	6.63	13.26	6.63	4.42	3.32	2.65	2.21
	500	7.35	14.70	7.35	4.90	3.68	2.94	2.45
	600	7.98	15.96	7.98	5.32	3.99	3.19	2.66

Albuz ATR Hollow Cone Nozzles

Application Rate (Litres/Ha) for 70m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Lilac	100	0.17	0.29	0.15	0.10	0.07	0.06	0.05
	200	0.24	0.41	0.21	0.14	0.10	0.08	0.07
	300	0.29	0.50	0.25	0.17	0.12	0.10	0.08
	400	0.33	0.57	0.28	0.19	0.14	0.11	0.09
	500	0.37	0.63	0.32	0.21	0.16	0.13	0.11
	600	0.4	0.69	0.34	0.23	0.17	0.14	0.11
Brown	100	0.23	0.39	0.20	0.13	0.10	0.08	0.07
	200	0.31	0.53	0.27	0.18	0.13	0.11	0.09
	300	0.38	0.65	0.33	0.22	0.16	0.13	0.11
	400	0.43	0.74	0.37	0.25	0.18	0.15	0.12
	500	0.48	0.82	0.41	0.27	0.21	0.16	0.14
	600	0.52	0.89	0.45	0.30	0.22	0.18	0.15
Yellow	100	0.35	0.60	0.30	0.20	0.15	0.12	0.10
	200	0.49	0.84	0.42	0.28	0.21	0.17	0.14
	300	0.59	1.01	0.51	0.34	0.25	0.20	0.17
	400	0.67	1.15	0.57	0.38	0.29	0.23	0.19
	500	0.74	1.27	0.63	0.42	0.32	0.25	0.21
	600	0.81	1.39	0.69	0.46	0.35	0.28	0.23
Orange	100	0.47	0.81	0.40	0.27	0.20	0.16	0.13
	200	0.64	1.10	0.55	0.37	0.27	0.22	0.18
	300	0.77	1.32	0.66	0.44	0.33	0.26	0.22
	400	0.88	1.51	0.75	0.50	0.38	0.30	0.25
	500	0.98	1.68	0.84	0.56	0.42	0.34	0.28
	600	1.06	1.82	0.91	0.61	0.45	0.36	0.30
Red	100	0.66	1.13	0.57	0.38	0.28	0.23	0.19
	200	0.91	1.56	0.78	0.52	0.39	0.31	0.26
	300	1.1	1.89	0.94	0.63	0.47	0.38	0.31
	400	1.25	2.14	1.07	0.71	0.54	0.43	0.36
	500	1.39	2.38	1.19	0.79	0.60	0.48	0.40
	600	1.51	2.59	1.29	0.86	0.65	0.52	0.43
Green	100	0.85	1.46	0.73	0.49	0.36	0.29	0.24
	200	1.116	1.91	0.96	0.64	0.48	0.38	0.32
	300	1.4	2.40	1.20	0.80	0.60	0.48	0.40
	400	1.6	2.74	1.37	0.91	0.69	0.55	0.46
	500	1.77	3.03	1.52	1.01	0.76	0.61	0.51
	600	1.93	3.31	1.65	1.10	0.83	0.66	0.55

Application Rate (Litres/Ha) for 70m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Blue	100	1.17	2.01	1.00	0.67	0.50	0.40	0.33
	200	1.61	2.76	1.38	0.92	0.69	0.55	0.46
	300	1.94	3.33	1.66	1.11	0.83	0.67	0.55
	400	2.21	3.79	1.89	1.26	0.95	0.76	0.63
	500	2.45	4.20	2.10	1.40	1.05	0.84	0.70
	600	2.66	4.56	2.28	1.52	1.14	0.91	0.76
2 x Red	100	1.32	2.26	1.13	0.75	0.57	0.45	0.38
	200	1.82	3.12	1.56	1.04	0.78	0.62	0.52
	300	2.2	3.77	1.89	1.26	0.94	0.75	0.63
	400	2.5	4.29	2.14	1.43	1.07	0.86	0.71
	500	2.78	4.77	2.38	1.59	1.19	0.95	0.79
	600	3.02	5.18	2.59	1.73	1.29	1.04	0.86
2 x Green	100	1.7	2.91	1.46	0.97	0.73	0.58	0.49
	200	2.232	3.83	1.91	1.28	0.96	0.77	0.64
	300	2.8	4.80	2.40	1.60	1.20	0.96	0.80
	400	3.2	5.49	2.74	1.83	1.37	1.10	0.91
	500	3.54	6.07	3.03	2.02	1.52	1.21	1.01
	600	3.86	6.62	3.31	2.21	1.65	1.32	1.10
2 x Blue	100	2.34	4.01	2.01	1.34	1.00	0.80	0.67
	200	3.22	5.52	2.76	1.84	1.38	1.10	0.92
	300	3.88	6.65	3.33	2.22	1.66	1.33	1.11
	400	4.42	7.58	3.79	2.53	1.89	1.52	1.26
	500	4.9	8.40	4.20	2.80	2.10	1.68	1.40
	600	5.32	9.12	4.56	3.04	2.28	1.82	1.52
3 x Blue	100	3.51	6.02	3.01	2.01	1.50	1.20	1.00
	200	4.83	8.28	4.14	2.76	2.07	1.66	1.38
	300	5.82	9.98	4.99	3.33	2.49	2.00	1.66
	400	6.63	11.37	5.68	3.79	2.84	2.27	1.89
	500	7.35	12.60	6.30	4.20	3.15	2.52	2.10
	600	7.98	13.68	6.84	4.56	3.42	2.74	2.28

Albuz ATR Hollow Cone Nozzles

Application Rate (Litres/Ha) for 80m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Lilac	100	0.17	0.26	0.13	0.09	0.06	0.05	0.04
	200	0.24	0.36	0.18	0.12	0.09	0.07	0.06
	300	0.29	0.44	0.22	0.15	0.11	0.09	0.07
	400	0.33	0.50	0.25	0.17	0.12	0.10	0.08
	500	0.37	0.56	0.28	0.19	0.14	0.11	0.09
	600	0.4	0.60	0.30	0.20	0.15	0.12	0.10
Brown	100	0.23	0.35	0.17	0.12	0.09	0.07	0.06
	200	0.31	0.47	0.23	0.16	0.12	0.09	0.08
	300	0.38	0.57	0.29	0.19	0.14	0.11	0.10
	400	0.43	0.65	0.32	0.22	0.16	0.13	0.11
	500	0.48	0.72	0.36	0.24	0.18	0.14	0.12
	600	0.52	0.78	0.39	0.26	0.20	0.16	0.13
Yellow	100	0.35	0.53	0.26	0.18	0.13	0.11	0.09
	200	0.49	0.74	0.37	0.25	0.18	0.15	0.12
	300	0.59	0.89	0.44	0.30	0.22	0.18	0.15
	400	0.67	1.01	0.50	0.34	0.25	0.20	0.17
	500	0.74	1.11	0.56	0.37	0.28	0.22	0.19
	600	0.81	1.22	0.61	0.41	0.30	0.24	0.20
Orange	100	0.47	0.71	0.35	0.24	0.18	0.14	0.12
	200	0.64	0.96	0.48	0.32	0.24	0.19	0.16
	300	0.77	1.16	0.58	0.39	0.29	0.23	0.19
	400	0.88	1.32	0.66	0.44	0.33	0.26	0.22
	500	0.98	1.47	0.74	0.49	0.37	0.29	0.25
	600	1.06	1.59	0.80	0.53	0.40	0.32	0.27
Red	100	0.66	0.99	0.50	0.33	0.25	0.20	0.17
	200	0.91	1.37	0.68	0.46	0.34	0.27	0.23
	300	1.1	1.65	0.83	0.55	0.41	0.33	0.28
	400	1.25	1.88	0.94	0.63	0.47	0.38	0.31
	500	1.39	2.09	1.04	0.70	0.52	0.42	0.35
	600	1.51	2.27	1.13	0.76	0.57	0.45	0.38
Green	100	0.85	1.28	0.64	0.43	0.32	0.26	0.21
	200	1.116	1.67	0.84	0.56	0.42	0.33	0.28
	300	1.4	2.10	1.05	0.70	0.53	0.42	0.35
	400	1.6	2.40	1.20	0.80	0.60	0.48	0.40
	500	1.77	2.66	1.33	0.89	0.66	0.53	0.44
	600	1.93	2.90	1.45	0.97	0.72	0.58	0.48

Application Rate (Litres/Ha) for 80m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Blue	100	1.17	1.76	0.88	0.59	0.44	0.35	0.29
	200	1.61	2.42	1.21	0.81	0.60	0.48	0.40
	300	1.94	2.91	1.46	0.97	0.73	0.58	0.49
	400	2.21	3.32	1.66	1.11	0.83	0.66	0.55
	500	2.45	3.68	1.84	1.23	0.92	0.74	0.61
	600	2.66	3.99	2.00	1.33	1.00	0.80	0.67
2 x Red	100	1.32	1.98	0.99	0.66	0.50	0.40	0.33
	200	1.82	2.73	1.37	0.91	0.68	0.55	0.46
	300	2.2	3.30	1.65	1.10	0.83	0.66	0.55
	400	2.5	3.75	1.88	1.25	0.94	0.75	0.63
	500	2.78	4.17	2.09	1.39	1.04	0.83	0.70
	600	3.02	4.53	2.27	1.51	1.13	0.91	0.76
2 x Green	100	1.7	2.55	1.28	0.85	0.64	0.51	0.43
	200	2.232	3.35	1.67	1.12	0.84	0.67	0.56
	300	2.8	4.20	2.10	1.40	1.05	0.84	0.70
	400	3.2	4.80	2.40	1.60	1.20	0.96	0.80
	500	3.54	5.31	2.66	1.77	1.33	1.06	0.89
	600	3.86	5.79	2.90	1.93	1.45	1.16	0.97
2 x Blue	100	2.34	3.51	1.76	1.17	0.88	0.70	0.59
	200	3.22	4.83	2.42	1.61	1.21	0.97	0.81
	300	3.88	5.82	2.91	1.94	1.46	1.16	0.97
	400	4.42	6.63	3.32	2.21	1.66	1.33	1.11
	500	4.9	7.35	3.68	2.45	1.84	1.47	1.23
	600	5.32	7.98	3.99	2.66	2.00	1.60	1.33
3 x Blue	100	3.51	5.27	2.63	1.76	1.32	1.05	0.88
	200	4.83	7.25	3.62	2.42	1.81	1.45	1.21
	300	5.82	8.73	4.37	2.91	2.18	1.75	1.46
	400	6.63	9.95	4.97	3.32	2.49	1.99	1.66
	500	7.35	11.03	5.51	3.68	2.76	2.21	1.84
	600	7.98	11.97	5.99	3.99	2.99	2.39	2.00

Albuz ATR Hollow Cone Nozzles

Application Rate (Litres/Ha) for 90m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Lilac	100	0.17	0.23	0.11	0.08	0.06	0.05	0.04
	200	0.24	0.32	0.16	0.11	0.08	0.06	0.05
	300	0.29	0.39	0.19	0.13	0.10	0.08	0.06
	400	0.33	0.44	0.22	0.15	0.11	0.09	0.07
	500	0.37	0.49	0.25	0.16	0.12	0.10	0.08
	600	0.4	0.53	0.27	0.18	0.13	0.11	0.09
Brown	100	0.23	0.31	0.15	0.10	0.08	0.06	0.05
	200	0.31	0.41	0.21	0.14	0.10	0.08	0.07
	300	0.38	0.51	0.25	0.17	0.13	0.10	0.08
	400	0.43	0.57	0.29	0.19	0.14	0.11	0.10
	500	0.48	0.64	0.32	0.21	0.16	0.13	0.11
	600	0.52	0.69	0.35	0.23	0.17	0.14	0.12
Yellow	100	0.35	0.47	0.23	0.16	0.12	0.09	0.08
	200	0.49	0.65	0.33	0.22	0.16	0.13	0.11
	300	0.59	0.79	0.39	0.26	0.20	0.16	0.13
	400	0.67	0.89	0.45	0.30	0.22	0.18	0.15
	500	0.74	0.99	0.49	0.33	0.25	0.20	0.16
	600	0.81	1.08	0.54	0.36	0.27	0.22	0.18
Orange	100	0.47	0.63	0.31	0.21	0.16	0.13	0.10
	200	0.64	0.85	0.43	0.28	0.21	0.17	0.14
	300	0.77	1.03	0.51	0.34	0.26	0.21	0.17
	400	0.88	1.17	0.59	0.39	0.29	0.23	0.20
	500	0.98	1.31	0.65	0.44	0.33	0.26	0.22
	600	1.06	1.41	0.71	0.47	0.35	0.28	0.24
Red	100	0.66	0.88	0.44	0.29	0.22	0.18	0.15
	200	0.91	1.21	0.61	0.40	0.30	0.24	0.20
	300	1.1	1.47	0.73	0.49	0.37	0.29	0.24
	400	1.25	1.67	0.83	0.56	0.42	0.33	0.28
	500	1.39	1.85	0.93	0.62	0.46	0.37	0.31
	600	1.51	2.01	1.01	0.67	0.50	0.40	0.34
Green	100	0.85	1.13	0.57	0.38	0.28	0.23	0.19
	200	1.116	1.49	0.74	0.50	0.37	0.30	0.25
	300	1.4	1.87	0.93	0.62	0.47	0.37	0.31
	400	1.6	2.13	1.07	0.71	0.53	0.43	0.36
	500	1.77	2.36	1.18	0.79	0.59	0.47	0.39
	600	1.93	2.57	1.29	0.86	0.64	0.51	0.43

Application Rate (Litres/Ha) for 90m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Blue	100	1.17	1.56	0.78	0.52	0.39	0.31	0.26
	200	1.61	2.15	1.07	0.72	0.54	0.43	0.36
	300	1.94	2.59	1.29	0.86	0.65	0.52	0.43
	400	2.21	2.95	1.47	0.98	0.74	0.59	0.49
	500	2.45	3.27	1.63	1.09	0.82	0.65	0.54
	600	2.66	3.55	1.77	1.18	0.89	0.71	0.59
2 x Red	100	1.32	1.76	0.88	0.59	0.44	0.35	0.29
	200	1.82	2.43	1.21	0.81	0.61	0.49	0.40
	300	2.2	2.93	1.47	0.98	0.73	0.59	0.49
	400	2.5	3.33	1.67	1.11	0.83	0.67	0.56
	500	2.78	3.71	1.85	1.24	0.93	0.74	0.62
	600	3.02	4.03	2.01	1.34	1.01	0.81	0.67
2 x Green	100	1.7	2.27	1.13	0.76	0.57	0.45	0.38
	200	2.232	2.98	1.49	0.99	0.74	0.60	0.50
	300	2.8	3.73	1.87	1.24	0.93	0.75	0.62
	400	3.2	4.27	2.13	1.42	1.07	0.85	0.71
	500	3.54	4.72	2.36	1.57	1.18	0.94	0.79
	600	3.86	5.15	2.57	1.72	1.29	1.03	0.86
2 x Blue	100	2.34	3.12	1.56	1.04	0.78	0.62	0.52
	200	3.22	4.29	2.15	1.43	1.07	0.86	0.72
	300	3.88	5.17	2.59	1.72	1.29	1.03	0.86
	400	4.42	5.89	2.95	1.96	1.47	1.18	0.98
	500	4.9	6.53	3.27	2.18	1.63	1.31	1.09
	600	5.32	7.09	3.55	2.36	1.77	1.42	1.18
3 x Blue	100	3.51	4.68	2.34	1.56	1.17	0.94	0.78
	200	4.83	6.44	3.22	2.15	1.61	1.29	1.07
	300	5.82	7.76	3.88	2.59	1.94	1.55	1.29
	400	6.63	8.84	4.42	2.95	2.21	1.77	1.47
	500	7.35	9.80	4.90	3.27	2.45	1.96	1.63
	600	7.98	10.64	5.32	3.55	2.66	2.13	1.77

Albuz ATR Hollow Cone Nozzles

Application Rate (Litres/Ha) for 100m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Lilac	100	0.17	0.20	0.10	0.07	0.05	0.04	0.03
	200	0.24	0.29	0.14	0.10	0.07	0.06	0.05
	300	0.29	0.35	0.17	0.12	0.09	0.07	0.06
	400	0.33	0.40	0.20	0.13	0.10	0.08	0.07
	500	0.37	0.44	0.22	0.15	0.11	0.09	0.07
	600	0.4	0.48	0.24	0.16	0.12	0.10	0.08
Brown	100	0.23	0.28	0.14	0.09	0.07	0.06	0.05
	200	0.31	0.37	0.19	0.12	0.09	0.07	0.06
	300	0.38	0.46	0.23	0.15	0.11	0.09	0.08
	400	0.43	0.52	0.26	0.17	0.13	0.10	0.09
	500	0.48	0.58	0.29	0.19	0.14	0.12	0.10
	600	0.52	0.62	0.31	0.21	0.16	0.12	0.10
Yellow	100	0.35	0.42	0.21	0.14	0.11	0.08	0.07
	200	0.49	0.59	0.29	0.20	0.15	0.12	0.10
	300	0.59	0.71	0.35	0.24	0.18	0.14	0.12
	400	0.67	0.80	0.40	0.27	0.20	0.16	0.13
	500	0.74	0.89	0.44	0.30	0.22	0.18	0.15
	600	0.81	0.97	0.49	0.32	0.24	0.19	0.16
Orange	100	0.47	0.56	0.28	0.19	0.14	0.11	0.09
	200	0.64	0.77	0.38	0.26	0.19	0.15	0.13
	300	0.77	0.92	0.46	0.31	0.23	0.18	0.15
	400	0.88	1.06	0.53	0.35	0.26	0.21	0.18
	500	0.98	1.18	0.59	0.39	0.29	0.24	0.20
	600	1.06	1.27	0.64	0.42	0.32	0.25	0.21
Red	100	0.66	0.79	0.40	0.26	0.20	0.16	0.13
	200	0.91	1.09	0.55	0.36	0.27	0.22	0.18
	300	1.1	1.32	0.66	0.44	0.33	0.26	0.22
	400	1.25	1.50	0.75	0.50	0.38	0.30	0.25
	500	1.39	1.67	0.83	0.56	0.42	0.33	0.28
	600	1.51	1.81	0.91	0.60	0.45	0.36	0.30
Green	100	0.85	1.02	0.51	0.34	0.26	0.20	0.17
	200	1.116	1.34	0.67	0.45	0.33	0.27	0.22
	300	1.4	1.68	0.84	0.56	0.42	0.34	0.28
	400	1.6	1.92	0.96	0.64	0.48	0.38	0.32
	500	1.77	2.12	1.06	0.71	0.53	0.42	0.35
	600	1.93	2.32	1.16	0.77	0.58	0.46	0.39

Application Rate (Litres/Ha) for 100m Swath Width

Nozzle No.	Pressure kPa	Flow Rate L/Min	Travelling Speed (km/hour)					
			5	10	15	20	25	30
Blue	100	1.17	1.40	0.70	0.47	0.35	0.28	0.23
	200	1.61	1.93	0.97	0.64	0.48	0.39	0.32
	300	1.94	2.33	1.16	0.78	0.58	0.47	0.39
	400	2.21	2.65	1.33	0.88	0.66	0.53	0.44
	500	2.45	2.94	1.47	0.98	0.74	0.59	0.49
	600	2.66	3.19	1.60	1.06	0.80	0.64	0.53
2 x Red	100	1.32	1.58	0.79	0.53	0.40	0.32	0.26
	200	1.82	2.18	1.09	0.73	0.55	0.44	0.36
	300	2.2	2.64	1.32	0.88	0.66	0.53	0.44
	400	2.5	3.00	1.50	1.00	0.75	0.60	0.50
	500	2.78	3.34	1.67	1.11	0.83	0.67	0.56
	600	3.02	3.62	1.81	1.21	0.91	0.72	0.60
2 x Green	100	1.7	2.04	1.02	0.68	0.51	0.41	0.34
	200	2.232	2.68	1.34	0.89	0.67	0.54	0.45
	300	2.8	3.36	1.68	1.12	0.84	0.67	0.56
	400	3.2	3.84	1.92	1.28	0.96	0.77	0.64
	500	3.54	4.25	2.12	1.42	1.06	0.85	0.71
	600	3.86	4.63	2.32	1.54	1.16	0.93	0.77
2 x Blue	100	2.34	2.81	1.40	0.94	0.70	0.56	0.47
	200	3.22	3.86	1.93	1.29	0.97	0.77	0.64
	300	3.88	4.66	2.33	1.55	1.16	0.93	0.78
	400	4.42	5.30	2.65	1.77	1.33	1.06	0.88
	500	4.9	5.88	2.94	1.96	1.47	1.18	0.98
	600	5.32	6.38	3.19	2.13	1.60	1.28	1.06
3 x Blue	100	3.51	4.21	2.11	1.40	1.05	0.84	0.70
	200	4.83	5.80	2.90	1.93	1.45	1.16	0.97
	300	5.82	6.98	3.49	2.33	1.75	1.40	1.16
	400	6.63	7.96	3.98	2.65	1.99	1.59	1.33
	500	7.35	8.82	4.41	2.94	2.21	1.76	1.47
	600	7.98	9.58	4.79	3.19	2.39	1.92	1.60

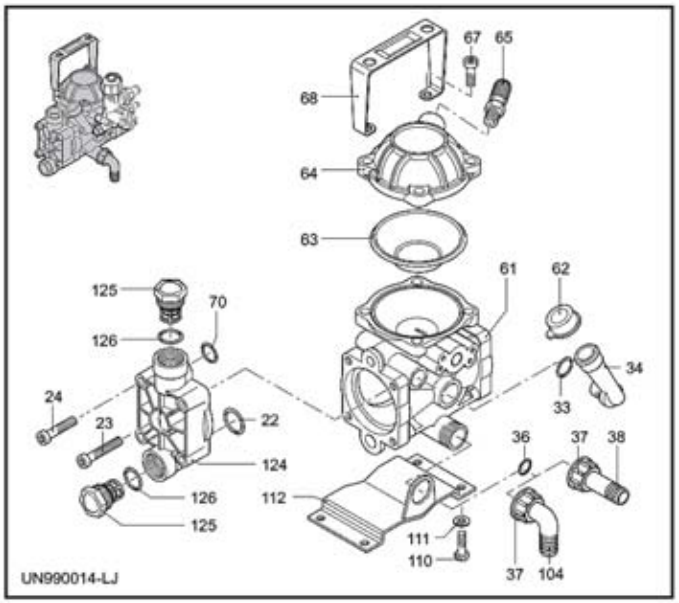
Parts

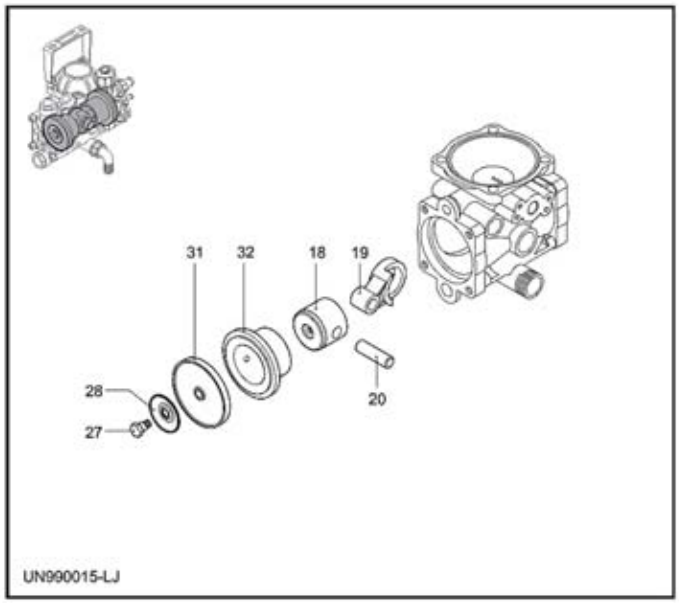
Assembly Drawings

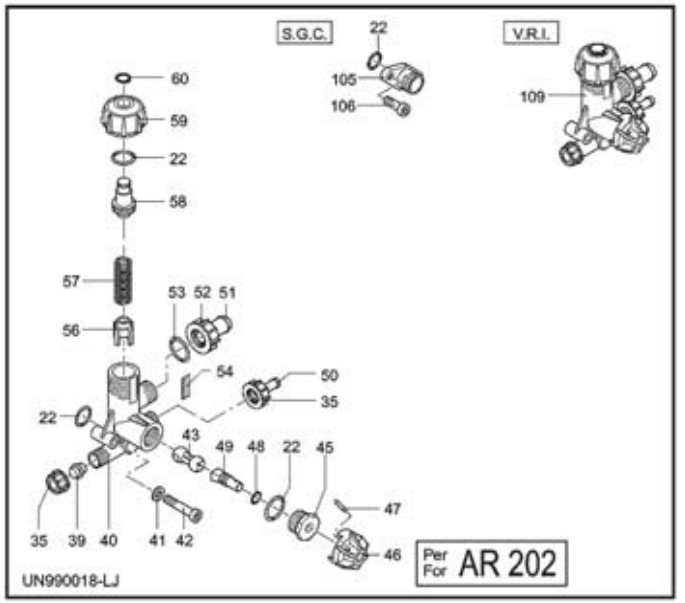
&

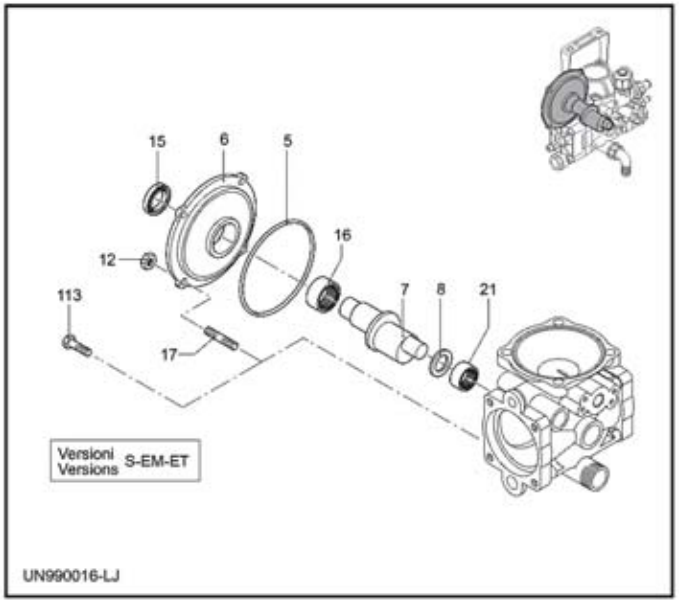
Parts Listings

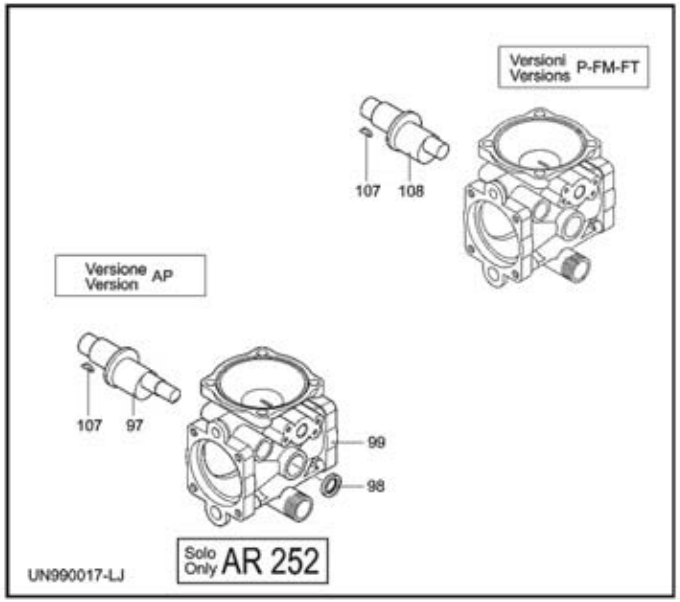
AR202 Pump Parts

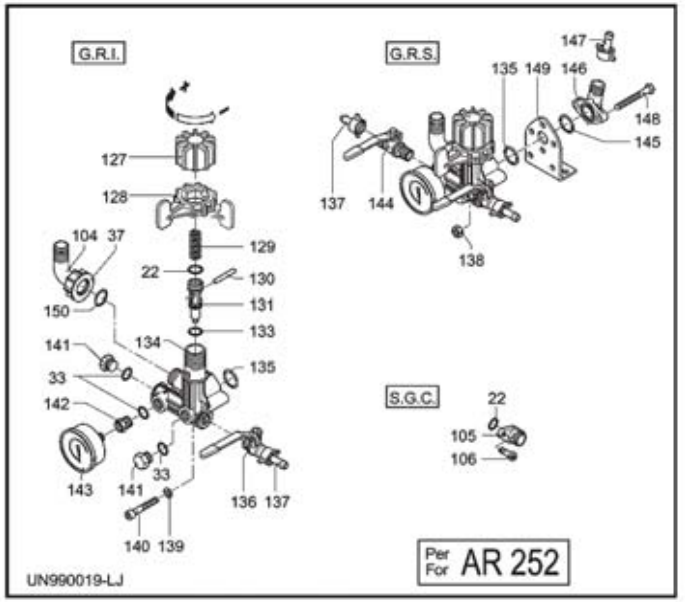










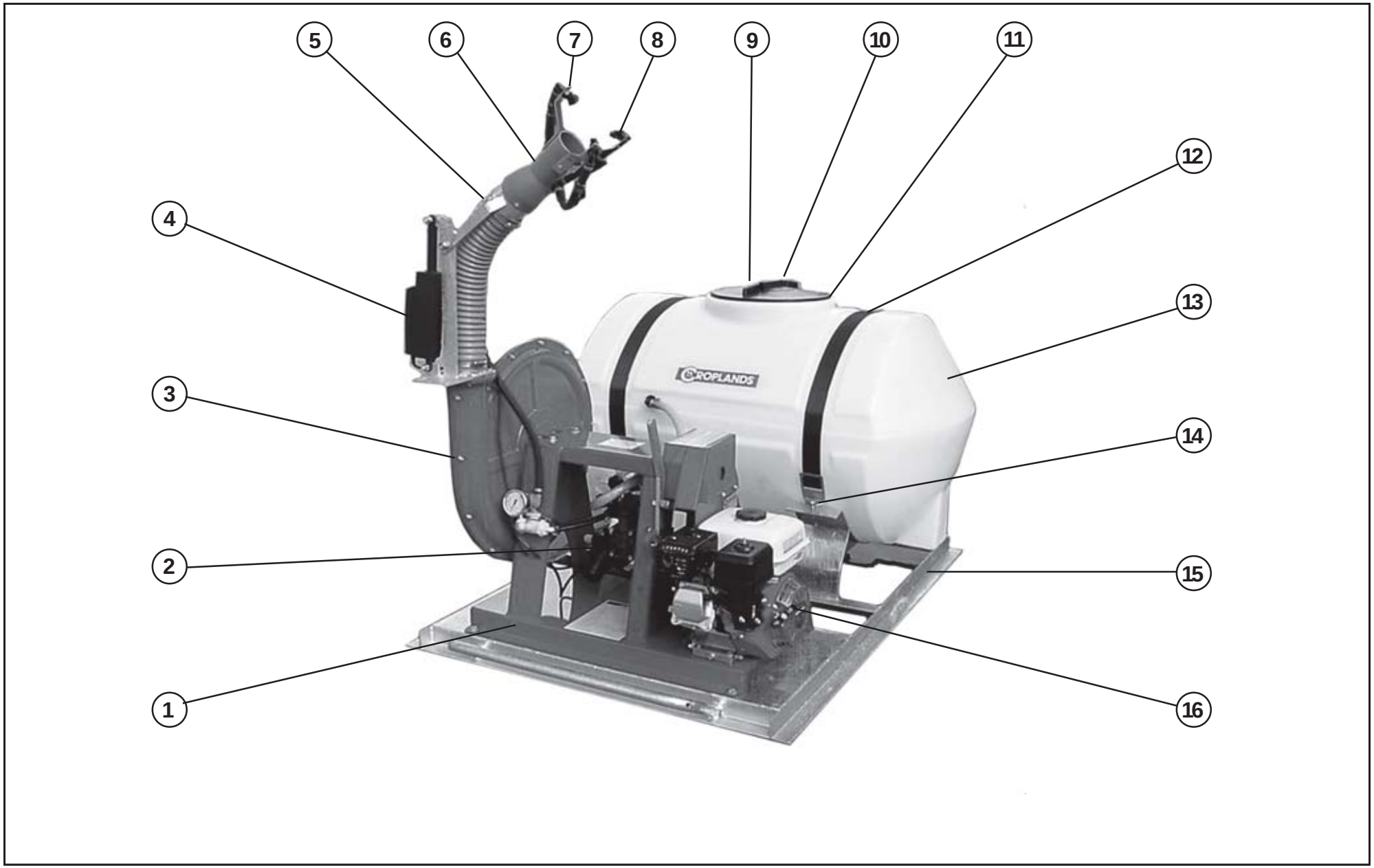


AR202 Pump Parts List

Pos	Part No	Description	Qty
5	AR800380	O-ring 97 x 1.6 mm	2
6	AR800020	Shaft support flange	1
7	AR800170	Crankshaft for direct coupling	1
8	AR800160	Spacer	1
12	AR390440	Nut M6 - 5587	4
15	AR800200	Oil seal 25 x 38 x7mm	1
16	AR800180	Roller bearing HK2516	1
17	AR550330	Stud M6 x 34 mm	4
18	AR800120	Piston 42mm	2
19	AR800140	Conrod	2
20	AR800130	Gudgeon pin 12 x 41.2 mm	2
21	AR480370	Roller bearing HK1616	1
22	AR480440	O-ring17.13 x 2.62mm	7
23	AR680360	Head bolt M8 x 50mm	1
24	AR800220	Head bolt M8 x 45mm	7
27	AR800090	Diaphragm stud	2
28	AR800350	Diaphragm return plate	2
31	AR800080	Diaphragm (Rubber)	2
31	AR800081	Diaphragm (Viton)	2
31	AR800085	Diaphragm (Desmopan)	2
31	AR800086	Diaphragm (H.P.D.S.)	2
32	AR800112	Cylinder sleeve	2
32	AR800113	Cylinder sleeve for Viton version	2
33	AR740290	O-ring 14 x 1.78 mm	1
34	AR800320	Oil filler sight glass	1
35	AR800520	Hose nut 3/8"	2
36	AR390180	O-ring 18.72 x 2.62mm	1
37	AR550450	Hose nut 3/4"	1
38	AR800340	Hose tail 20 mm	1
39	AR800540	Plug	1
40	AR800400	Pressure regulating valve body	1
41	AR550331	Washer	2
42	AR800410	Bolt M6 x 40	2
43	AR800430	Bypass valve	1
45	AR800500	Ring nut	1
46	AR800510	Bypass valve adjustment knob	1
47	AR390330	Split pin 3 x 20 mm	1
48	AR800560	O-ring 8.73 x 1.78 mm	1
49	AR800490	Pivot pin	1
50	AR800530	Hose tail 10 mm	1
51	AR800670	Hose tail 15 mm	1
52	AR800680	Hose nut M22 x 1.5	1
53	AR740290	O-ring 14 x 1.78mm	1
54	AR800480	Pressure scale	1
56	AR800440	Lower spring guide	1
57	AR800450	Spring	1
58	AR800460	Upper spring guide	1
59	AR800470	Pressure adjustment knob	1
60	AR480550	Circlip 12 mm	1
61	AR800010	Pump body	1

Pos	Part No	Description	Qty
62	AR800330	Oil filler cap	1
63	AR800190	Air chamber diaphragm	1
63	AR800191	Air chamber diaphragm for Viton version	1
64	AR800230	Upper air chamber (Black)	1
64	AR800232	Upper air chamber (Red)	1
65	AR800650	Air valve	1
67	AR540290	Bolt M8 x 25	4
68	AR800390	Pump-motor handle	1
70	AR800210	O-ring 13.10 x 2.62mm	2
97	AR800173	Crankshaft for pulley with thru-shaft	1
98	AR800960	Seal for thru-shaft	1
99	AR800011	Pump body for thru-shaft	1
100	AR850440	Washer	1
104	AR550460	Hose tail elbow 18mm	1
105	AR800692	Flange manifold	1
106	AR880280	Bolt M6 x 18	1
107	AR800590	key	1
108	AR800171	Crankshaft for pulley	1
109	AR1912	Pressure regulating valve complete	1
110	AR180431	Bolt	2
111	AR380241	Washer	2
112	AR800311	Pulley base	1
113	AR320350	Bolt	4
124	AR801940	Head	2
125	AR809060	Valve assembly	4
126	AR880830	O-Ring	4
127	AR1880220	Adjustment knob	1
128	AR1880210	Ring nut	1
129	AR1880330	Spring	1
130	AR1880240	Pin	1
131	AR1880230	Jet	1
133	AR1880260	O-Ring	1
134	AR1880200	Valve body	1
135	AR1140450	O-Ring	1
136	AR130491	Right valve	1
137	AR110131	Fitting+hose Ø10	2
139	AR550331	Washer	2
138	AR390270	Nut	2
140	AR801080	Bolt	2
141	AR130171	Plug	1
142	AR1880250	Pipe reducer	1
143	AR1880340	Pressure gauge	1
144	AR130492	Left valve	1
145	AR550350	O-Ring	1
146	AR450145	Flange	1
147	AR110130	Fitting +hose Ø13	1
148	AR1880310	Bolt	2
149	AR320406	Bracket	1
150	AR880830	O-Ring	1

Tank, Frame, Fan, Pump & Motor Assembly

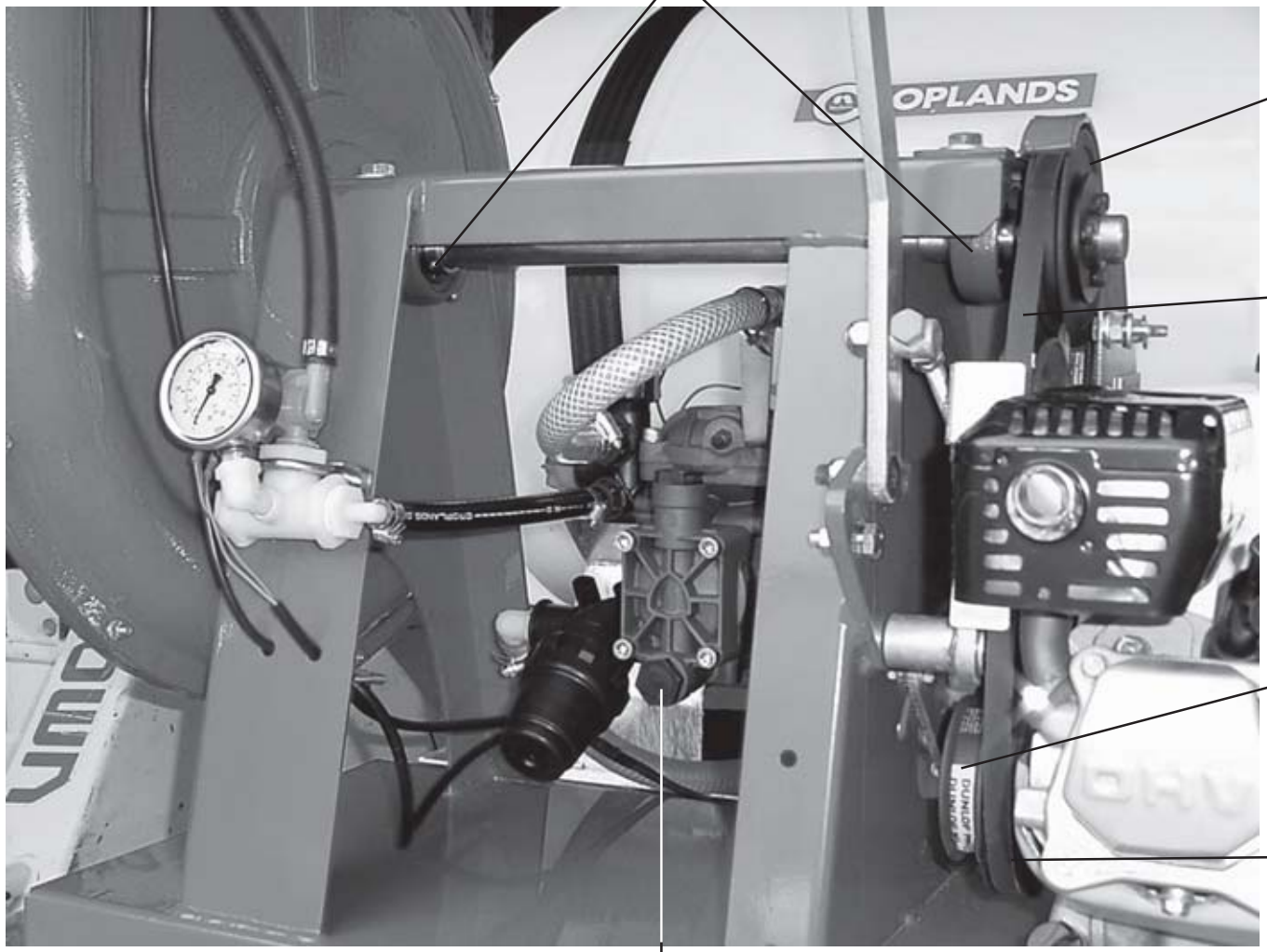


Tank, Frame, Fan, Pump & Motor Assembly Parts List

Pos	Part No	Description	Qty
1	BP-121	Blower, engine & pump base frame (Items 2, 3, 5, 13 complete)	1
2	AR-19-CRGI	AR202 gearbox driven pump	1
3	BP-122	Blower and fan housing	1
4	LINAKACT	12 volt actuator arm	1
5		Air Hose	1
6	BP-127	Venturi	1
7	BP-130A	Bracket only	1
8	BP-130	3 Nozzle Outlet Assembly complete with hose, elbows & caps (No jets or strainers)	1
9	A300120	Small basket	1
10	A352040	Small lid with breather	1
11	A350440	255mm lid ring (small)	1
12	XSTRAP 50mm	Strap 50mm wide	2
13	P450C-RAW	450 litre poly tank	1
14	XTDC	Hold down clamp	4
15	BP-221B	450 Utepack Frame	1
16	GX160QX	5.5hp Honda motor	1

Pos	Part No	Description	Qty
		Other Engine, Pump & Fan Assembly Parts	
-		Engine mounting bolts	4
-		1½" dia extension shaft with 3/8" x 5/16" key way reducing to 19mm dia with 4.5mm key way	1
-		4 x 5/16" x 1¼" counter sunk bolts	
-		6mm fan casing bolts, washers & nuts	14
-		Rotor with taper lock hub	1
-		3/8" x 5/16" extension shaflt key	1
-		Fan guard	1
-		Self tapping screws	4
		6mm bolt & nut	1
-		8mm pump mounting bolts, washers & nuts	4
-		8mm pump mounting & adjustment bolts, washers & nuts	2
-		Flange mounting bolts washers & nuts	4
-		M10 x 50 actuator mounting bolt with 2 x flat washers, spring washer and lock nuts	1
-		M10 x 90 actuator mounting bolt, 3 x 11mm spacers, 3 x flat washers, spring washer & lock nuts	1

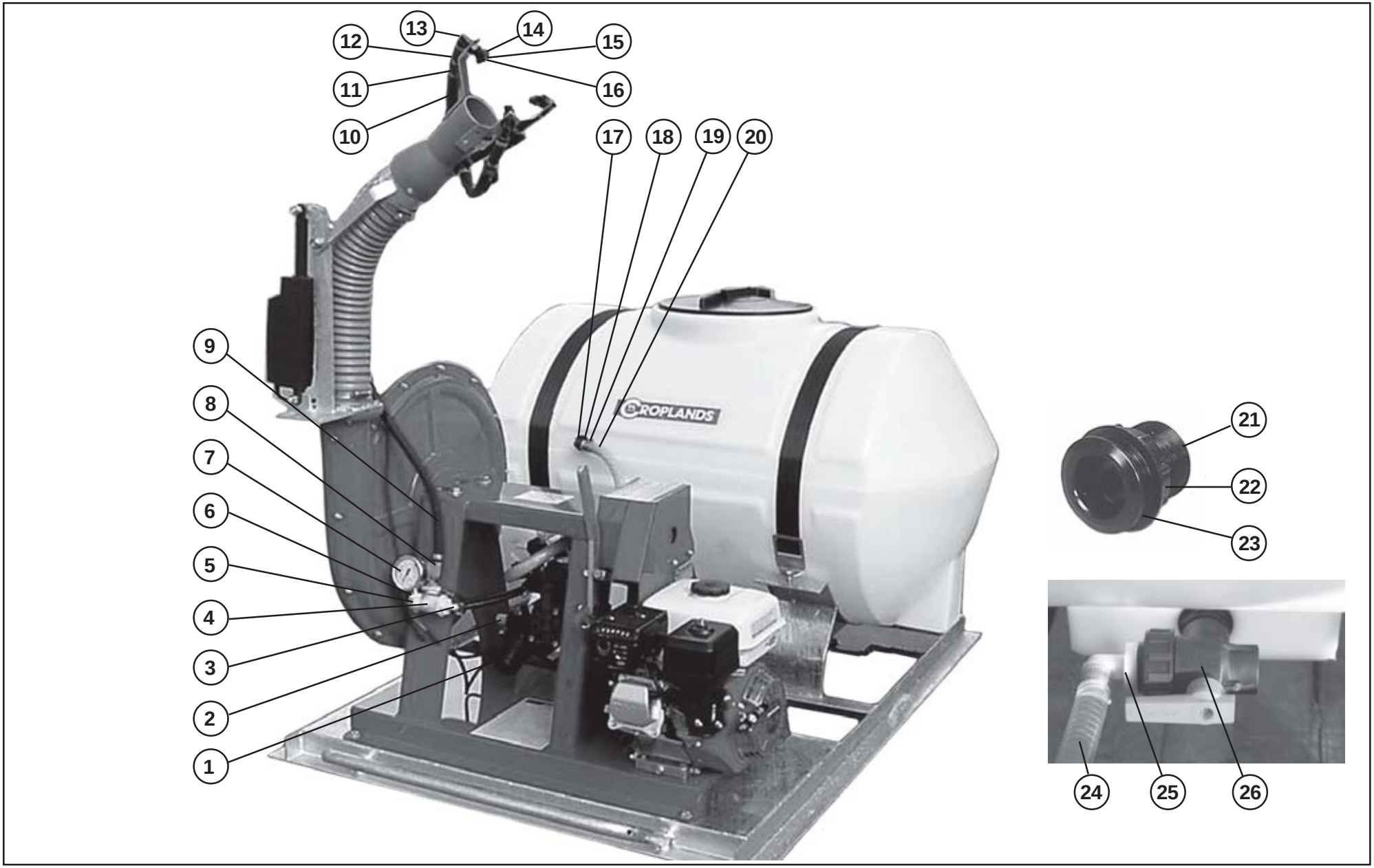
Fan Drive Assembly



Fan Drive Assembly Parts

Pos	Part No	Description	Qty
1		1" Piller Block c/w 1" Self aligning bearing	2
2		115mm bi-loc pulley	1
3		A36 Belt	1
4		80mm bi-loc pulley	1
5		A21 Belt	1
6		80-115mm bi-loc pulley	1

Plumbing Assembly



Plumbing Assembly Parts

Pos	Part No	Description	Qty
1	A324034	324 Suction/Pressure Filter 100 MEsh	1
2	A-EL3434	¾" Male Threaded x ¾" Hose Elbow	1
3	A-EL3438	¾" Male Thread x 3/8" Hose Elbow	1
4	A-TT34G	Gauge Tee ¾" Female	1
5	A-F3400	¾" Nylon Plug	1
6	A-SE14	¼" M X ¼" F 900EG	1
7	L-G1410	Pressure Gauge 0 - 800 kPa	1
8	L-E1024	Electric Valve ¾"	1
9	HPW12	12mm ½" pressure hose	1.5m
10	HPW10	10mm 3/8" hose	0.5m
11	WVQA12	Tap ½" in-line plastic	3
12	TR12HC	12mm (½") Hose Clamp	16
13	8121-NYB-540TD	¼" M x ¼" F 900EG	3
14	8079-PP-50	Nozzle Strainer NY 1	3
15	CP8027-NYB	Cap Threaded Poly	3
	BP-130A	Bracket only	1
	BP-130	3 Nozzle Outlet Assembly complete with hose, elbows & caps (No jets or strainers), see page 50	1
16	AZ-ATR-GN-80C	Nozzles supplied standard	3
	AZ-ATR-BN-80C	Nozzles supplied standard	3
		See Nozzle Charts for more information	
17	A118215	¾" 90° Tank Outlet	1
18	AG40002	Nut	1

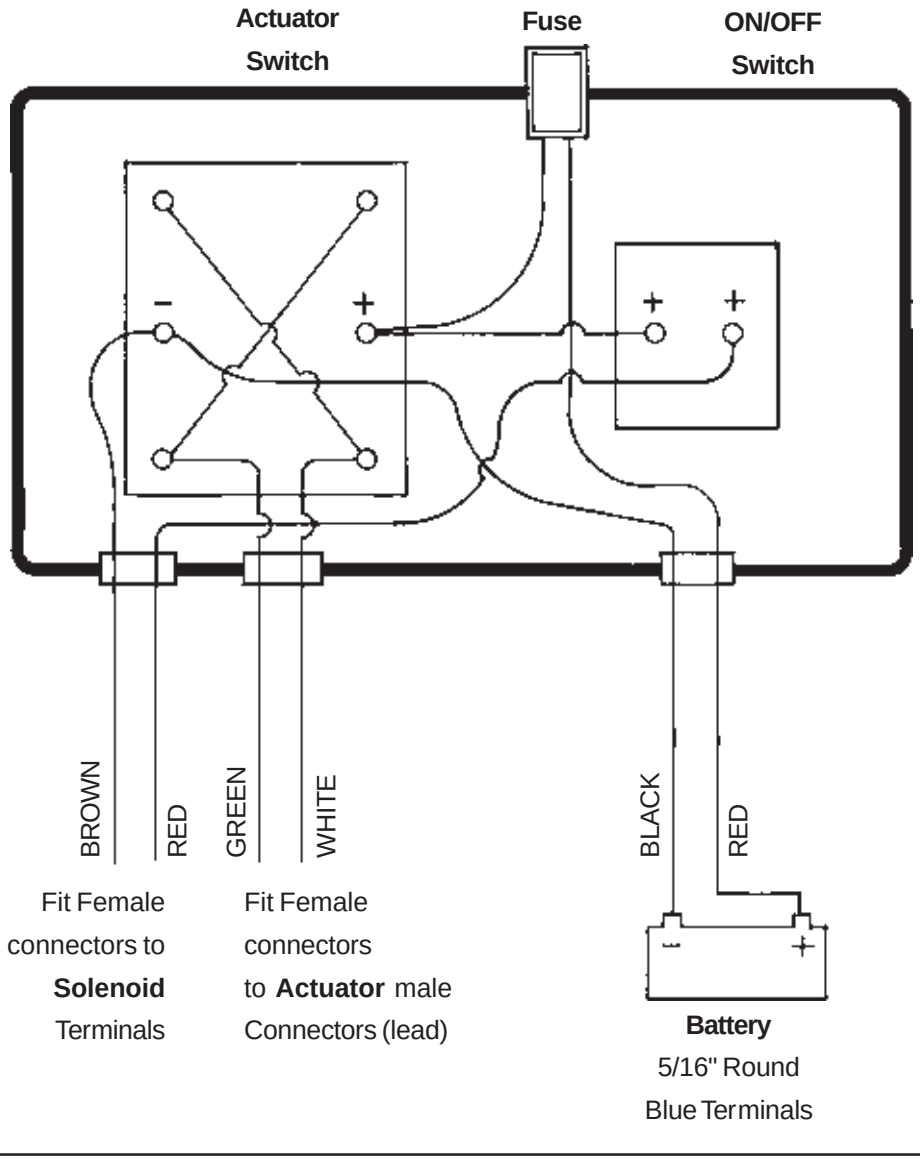
Pos	Part No	Description	Qty
19	TR34HC	20mm (¾") Hose Clamp	8
20	HTP16	16mm Hose	1
21	A220040	1" Tank outlet	1
22	AG40004	1" Flat Gasket	1
23	A205040	1" Back Nut	1
24	HSC20	20mm (¾") HSC Hose	2m
25	A-EL1034	Elbow 1" BSPM x ¾" barb	1
26	A454234	1" Poly Ball Valve 3 Way	1

Electric Remote Controller

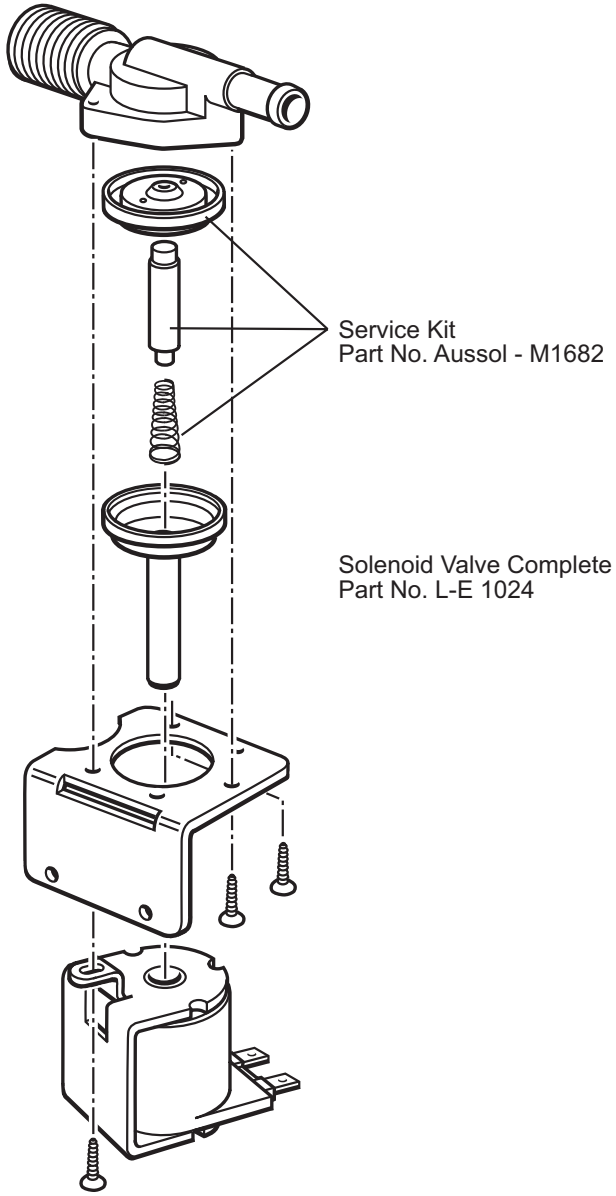
Switch Panel & Loom
Part No. BP-0300-5

Wiring Diagram for Electric Remote Controller

Rear View of Remote Controller Console



Electric Solenoid Parts



Decals


WARNING
BEWARE OF MOVING PARTS!
Keep hands well clear
PP-2


WARNING
DO NOT FILL THE TANK IN EXCESS OF THE CARRYING CAPACITY OF THE VEHICLE WITH WHICH THE TANK WILL BE USED, AS SPECIFIED BY THE VEHICLE MANUFACTURER.
1Litre water = 1 Kg
50 Litres water = 50 Kg
DO NOT EXCEED THE VEHICLE MANUFACTURERS SPECIFIED SAFE LOAD CARRYING AND TOWING CAPACITIES.
READ THE OPERATORS INSTRUCTION MANUAL AND CHECK UNLADEN WEIGHT BEFORE ATTACHING OR USING THIS PRODUCT.


WARNING
SAFETY INSTRUCTIONS
1 Read your operator's manual thoroughly before operating the sprayer
2 Inspect hoses, connections and nozzles daily
3 Clean filters regularly
4 Always follow correct maintenance schedules outlined in operator's manuals
5 Always read chemical manufacturers labels before use
6 Always observe all warnings on chemical products
7 Regularly check all bolts and nuts are tight
8 Always wear rubber gloves and wash sprayer down before doing any repair work
9 Do not ride on sprayer when moving
10 Keep clear of moving parts when sprayer is operating
11 Always keep guards in place when sprayer is operating
12 Be sure tank lid is closed before operating basket mixing facility
13 Stand well clear of sprayer when operating
14 Do not disconnect hoses, nozzles or filters while sprayer is operating
PP-6