

Operator's Product HandBook

SilageMaster[™]

Silage Applicator Sprayer





"HELPING TO DEVELOP AND PROTECT THE LAND"





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Disclaimer

All information, illustrations, and specifications contained in this manual are based on the latest product information available at the time of this publication's printing. TransTank International (TTi) reserves the right to alter and substitute specifications and methods at any time, in line with our commitment to continuous improvement.

No patent liability is assumed with respect to the use of information contained within this manual. While every precaution has been taken in the preparation of this manual, TTi assumes no responsibility for errors or omissions.

Thank you for purchasing a TTi SilageMaster™ Silage Applicator Sprayer (SilageMaster), which will provide many years of reliable service when operated and maintained in accordance with this manual.

TTi manufacture two SilageMaster units, 100 and 200 litre tanks. The SilageMaster is supplied with a 12-volt electric pump with a wireless remote ON/OFF switch for control of the standard two-nozzle spray boom. This manual describes the operation, driving stability and maintenance procedures applicable to all units, noting additional requirements to options where necessary.

All TTi SilageMaster tanks are rotationally moulded from quality polyethylene, purpose designed and manufactured to high standards. The SilageMaster is specifically designed to be mounted to your tractor or baler and used for silage spraying.

The SilageMaster unit is supplied complete, tested and ready to mount to your vehicle. TTi warrants that the SilageMaster has been designed and built for its intended purpose as a silage spray unit.

The owner is responsible to ensure that the equipment is operated in accordance with this manual, with Australian WorkSafe requirements, applicable road rules and local council regulations. TTi is not liable for any loss, injury or death resulting from the failure to observe all safe working regulations as required by law.

Included with your SilageMaster unit is the following documents:

- Operator's Handbook (this manual, which includes the Warranty Registration Card)
- 12 Volt Remco 8.3L/min electric pump manufacturer's handbook
- Tank Quality Check Form. This is your verification that the unit has been quality checked, and verifies the serial number affixed to the unit.



Safety

This manual is intended for use by personnel experienced in the use of this and similar equipment. Read and understand this manual before attempting to operate or perform routine maintenance on this equipment. Your safety is of prime priority.



A WARNING highlights an essential operating or maintenance procedure, practice, condition or statement, which, if not strictly observed, could result in injury or death of personnel, or long-term health hazards.



A CAUTION highlights an essential operating or maintenance procedure, practice, condition or statement, which, if not observed, could result in damage or destruction of equipment.



A **NOTE** highlights or clarifies an essential systems description, operating or maintenance procedure, condition or statement.



General Safety Instructions

- This unit is designed and manufactured solely for the purpose of carrying and spraying silage inoculants.
 Under no circumstances should it be used for any other purpose. It must never be used for transporting fuel.
- 2. Only authorised and trained personnel are to operate this equipment. Operators must have read and fully understood this manual before operating the SilageMaster unit.
- 3. Do not operate the SilageMaster anywhere near bystanders, livestock, watercourses or any non-targeted vegetation that may be in danger from spray drift contamination.
- 4. Wind direction and speed must be taken into account, as windy conditions may endanger the operator or damage to adjacent non-target vegetation. Avoid spraying on hot and sunny days or when wind speed exceeds 6.5km/h.
- 5. Do not operate this equipment while under the influence of alcohol or any drugs that could impair your capabilities in any way.
- 6. PPE appropriate to the chemicals being used must be worn at all times when operating the SilageMaster. As a minimum, the PPE should include coveralls, gloves and boots. A face shield and PVC apron are recommended depending on the task. It is recommended that the following documents should be read and understood by the operator:
 - Australian Standard for Chemical protective clothing AS3765
 - Australian Standard for Respiratory protection devices AS1715
- 7. Ensure the capacity of the vehicle is suitable for the loaded mass of the SilageMaster. Refer to the vehicle's operator manual for safe working loads, correct securing points and relevant safety instructions. Do not exceed the carrying and braking capacity as specified by the vehicle manufacturer. As a guide, one litre of water weights one kilogram (kg), therefore a full 200 litre SilageMaster will weigh in excess of 240kg.
- 8. The unit must be securely mounted to the vehicle. Ensure the SilageMaster is secured correctly before operation.
- 9. Care should be taken at all times, particularly when operating on rough or steep terrain. Drivers should be aware of fluid surge affecting the vehicle's centre of gravity.
- 10. The SilageMaster must never be left unattended while being filled with inoculants.
- 11. Do not operate the pump when there is no fluid in the tank.
- 12. Do not disconnect any hoses, nozzles or filters while the equipment is operating. Disconnecting any components while under pressure may result in uncontrolled fluid discharge which may be hazardous.
- 13. Ensure any electrical connections are properly configured, to prevent damage such as shorting or reverse polarity.
- 14. At completion of operation, switch the pump off and relieve any residual pressure by opening a spray boom valve.
- 15. At completion of the operation, decontaminate the SilageMaster tank and spray lines. Drain any residue inoculants and store in a sealed container. Dispose of any unwanted chemicals and tank rinse residue in accordance with current environmental and workplace health and safety regulations.
- 16. The SilageMaster has safety labels affixed to various locations on the unit. These labels should be kept clean and legible, and replaced if damaged.
- 17. Any unauthorised modifications to this equipment may affect its function and create a serious safety risk. Any unauthorised modifications will void any warranty on the unit.



General Information

Specifications

| Tank | UV stabilised chemical resistant polyethylene fully drainable tank – 100 and 200 litre capacities |
|-----------------------|---|
| Frame | Galvanised steel mounting frame |
| Standard Equipment | Remco 12V electric pump - 8.3L/min 100psi, c/w 3.6m electrical lead with alligator clips |
| | Pressure regulator with gauge |
| | Boom with 1m spray swath via two non-drip nozzles |
| | Wireless remote ON-OFF switch |





Description

The TTi SilageMaster Silage Applicator Unit is designed to carry and distribute inoculant using a self-contained pump and a double nozzle boom dispensing system. The SilageMaster has the features shown in Figure 1:



Figure 1 - Component Identification

Pump

The SilageMaster is fitted with an 8.3 L/min 100psi 12V Remco electric pump. If the spray boom is not in operation when the pump is running, the fluid bypasses back into the tank.

Spray Boom

The SilageMaster's double nozzle spray boom is mounted to the tow vehicle (tractor or baler) at a suitable location. The boom is attached to 3m of hose from the pump to allow remote mounting. The 1m wide swath spray boom has two non-drip nozzles, adjustable via the pump's pressure regulator and gauge.

Pressure Regulator

A pressure regulator and pressure gauge are fitted to the pump discharge flange to control line pressure and prevent pump cavitation. The regulator is adjustable depending on the operation requirements – set to minimum enables the fluid to bypass back into the tank, for boom spraying, the regulator is to be set to approximately 3 bar.

Suction Filter

A filter is installed on the suction line adjacent to the pump. The filter has a removeable filter element for easy cleaning.

Frame

The SilageMaster tank is mounted on a fully welded steel frame, hot dip galvanised for corrosion resistance.

Tank

All TTi tanks are constructed from UV resistant, virgin material polyethylene. The tank is fully drainable and has an internal basket strainer under the filling lid.





Machine Limitations

The SilageMaster units are subject to operating limitations. It is the operator's responsibility to ensure that this equipment is being operated safely and within these limitations.

Driving Stability

The SilageMaster unit is heavy when filled with fluid. To maintain stability while operating this unit:

- Ensure the vehicle tyres are inflated to their correct pressure at all times (refer to Maintenance Schedule for correct pressure). Underinflated tyres can cause excessive lateral motion of the tyre, which may cause a rollover.
- · Allow extra room for braking and turning when the tank is full.
- Ensure any side gradient (slope) is accounted for, especially when the SilageMaster tank is full, as the vehicle may have a higher centre of gravity.

Spray Boom Calibration

Accurate calibration is an essential element of any spraying function as it ensures that the chemical is applied at the rate specified on the product label. Application in excess of the recommended rate may be dangerous, can damage crops and is uneconomical.

Calibration must be carried out:

- When spraying for the first time with new spray equipment
- At the beginning of each season
- · After changes of nozzle tips, spraying pressure or vehicle speed
- After every 100 hectares of spraying

PPE appropriate to the chemicals being used must be worn at all times when calibrating the SilageMaster. As a minimum, the PPE should include coveralls, gloves and boots. A face shield and PVC apron are recommended.

Calibration Procedure

Check the label on the chemical container for the application rate and recommended spray nozzle type, refer to Figure 2, which shows the TeeJet AIXR nozzle application chart. To apply a specific rate of chemical to the target surface, work out the:

- · total sprayer output,
- travel speed, and
- the swath width.

Using these parameters, the application rate is calculated as follows.





Measure Total sprayer output [L/min]

Set the pressure at the correct level for spraying determined by the type of nozzles. All nozzles used for spraying should be left on. For initial trials, set the pressure regulator at approximately 2 bar and adjust as needed.

- Fill the spray tank with clean water, refer to Filling the SilageMaster Tank procedure below. Run the sprayer at the correct pressure with all nozzles operating.
- Place a measuring jug under first nozzle for one minute, then measure how much water is in the jug.
- Repeat for all nozzles. Nozzle output should not vary by more than 10%. If it does, the nozzle could be worn or damaged and should be replaced.
- Add all the jug measurements to find the total sprayer output in litres per minute.

Measure the travel speed [km/h]

The normal speed for spraying with small boom sprayers is 4–10 km/h. The slower the travel, the higher the application rate. Adjust travel speed to suit ground conditions.

- Measure how many seconds it takes to travel 100 metres with the sprayer attached and half full.
- Calculate your travel speed by inserting the time in seconds into the following formula: *Travel speed* (km/h) = distance travelled in metres (say 100m) x3.6 / Time taken (in seconds)

Calculate spray application rate [L/Ha]

First, measure the swath width in metres. For general broadcast spraying, the swath width is equal to the number of nozzles multiplied by the nozzle spacing. For band spraying, the swath width is equal to the total of all the band widths. Calculate the application rate using the following formula:

Application rate (L/ha) = $(600 \times total sprayer output (L/min)) / (swath width (m) x travel speed (km/h))$

Example: If total sprayer output is 5 L/min, speed is 8 km/h, and swath width is 4m, the application rate = $(600 \times 5 = 62.5 \text{ L/ha})/(4 \times 8)$

If the application rate is less than specified, increase the pressure and repeat calibration to achieve the correct rate. Once the required rate is achieved, note the following parameters for future reference when using this particular chemical:

Nozzle Fitted

Type (Drop Size)

Application Rate

Spray Pressure

Forward Speed.



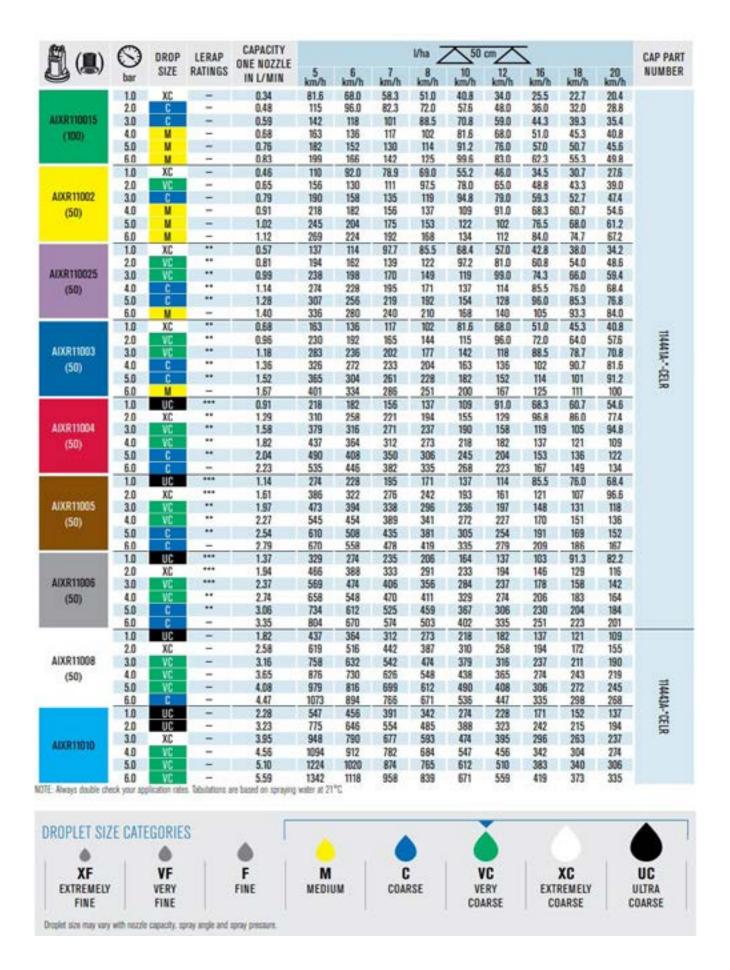


Figure 2 - AIXR Application Chart



SilageMaster Operating Instructions

Before first use

Your SilageMaster unit is delivered assembled and ready to be mounted to the tow vehicle (typically, your baler or tractor). Before use, it needs to be set up using the following instructions:

- Complete the warranty registration online at www.tti.com.au/warranty-registration, or use the Warranty Registration Card at the back of this handbook.
- Store this handbook, along with the Tank Quality Check Form and pump unit's manual in a safe and easily accessible place for future reference.



NOTE! The operator must fully understand all aspects of this handbook. Do not operate the SilageMaster unit if you are unfamiliar with its operation until you have read this handbook.

- Read and thoroughly understand this handbook, paying particular attention to all safety requirements, before using the SilageMaster for the first time.
- Check that all fittings, valves, hoses and electrical leads are secure following transit, and are not damaged in any way.
- Inspect the tank for any damage or abrasions that may occur during transit.



CAUTION! The unit must be securely attached to the tow vehicle. Failure to do so may result in the unit breaking away from the moving vehicle. Warranty is conditional on the unit being correctly mounted.

Mount your SilageMaster unit onto the tow vehicle, ensuring all mounting fixtures are tightened firmly.



CAUTION! Ensure any electrical connections are configured correctly to prevent shorting or reverse polarity. Warranty is conditional on the electrical systems being correctly connected.

- Connect the supplied ON-OFF switch control unit, refer to Figure 3, into the cable socket from the pump.
- Plug the supplied 3.6m pump power cable into the other cable socket at the ON-OFF switch control
 unit, then route the cable from the SilageMaster to the tow vehicle's power supply. Ensure the cable is
 located where it will not be damaged.
- Connect the cable's alligator clips to the vehicle's battery.
- Check that the power cable's inline ON-OFF switch is switched to ON this switch isn't required and the
 pump is controlled via the wireless remote control unit.





Figure 3 -ON-OFF Switch Control Unit and Wireless Remote

 It is recommended that at first use, the SilageMaster is filled with water for calibration purposes and for the operator to become familiar with the characteristics of the unit. Refer to the Calibration Procedur above.

Filling the SilageMaster Tank



WARNING! Ensure the filling area is in an open, well-ventilated space if filling with chemicals. Follow the instructions provided with the chemicals or the applicable Safety Data Sheet.

- Mixing and filling the SilageMaster unit should be undertaken at a carefully chosen site, away from any risk of spillages draining into water courses or into environmentally sensitive areas. Children and animals must always be kept away from mixing and filling operations.
- The SilageMaster unit's tank is filled as follows:



NOTE! Ensure the operation lever is set to BYPASS.

- Check that the pressure regulator's is set to the minimum position by turning the knob anti-clockwise, refer to Figure 4.
- Open the tank filler by twisting and lifting the cap.
- Withdraw the internal basket strainer and inspect it for any debris. Clean it if required and reinstall it into the top of the tank.
- Follow the chemical manufacturer's instructions and safety precautions carefully, taking note of the order in which the products are added to the tank.
- Measure the correct quantities of chemicals using clean measuring containers specifically for this purpose only, then add the chemicals to the tank.
- Rinse out the measuring containers and any empty containers and pour all rinsing liquid into the SilageMaster tank.





CAUTION! Do not overfill the tank. This may result in chemical spillage.



CAUTION! The SilageMaster must never be left unattended while being filled with fluid.

- Top up the tank with water to the required level, ensuring it is not overfilled.
- Thoroughly mix the contents by stirring with a suitable paddle or starting the pump to allow recirculation through the pump and back into the tank (refer to Operating Instructions). Ensure the pressure regulator is at the minimum (BYPASS) position, enabling the fluid to circulate back into the tank.
- Upon completion of filling the SilageMaster tank, replace the filler cap and twist to tighten.
- Wash off any spillage from outside the tank.
- Close the chemical supply containers and store appropriately. Any empty containers must be thoroughly rinsed and set aside for collection and disposal in compliance with environmental and work safety requirements.

Operating Instructions

The SilageMaster is started and operated as follows:



WARNING! Before commencing spraying, plan the work effectively to minimise potential contamination of adjacent areas.



WARNING! Do not spray in windy conditions, where spray drift contamination may occur. Spray drift can be reduced by lower nozzle height, lower pressures or by fitting larger nozzles.

- Confirm the tank contains the required chemical or water quantity.
- With the pump turned OFF, check that the pressure regulator is set to the required pressure (approximately 3 bar) as determined by the calibration procedure, refer to Figure 4.



Figure 4 - Figure - Pressure Regulator





- Position the vehicle at the starting point of the operations area.
- From the driver's seat, press the wireless remote unit's ON button to start the pump and commence driving. Observe that the spray boom is discharging inoculant.
- At the end of the required run, press the wireless remote unit's OFF button to switch the pump OFF.

Clean-up and Decontamination

After use, the SilageMaster unit must be thoroughly decontaminated inside and outside – including the pump, hoses and boom – to avoid damage to crops from any harmful pesticide spray residues. Decontamination also prevents sprayer corrosion and abrasion.

Cleaning the SilageMaster should be undertaken at a carefully chosen site, away from any risk of spillages draining into watercourses or into environmentally sensitive areas.

The recommended decontamination procedure is as follows:



NOTE! Suitable PPE must be worn by the operator when cleaning and decontaminating the SilageMaster unit. Follow the instructions provided with the chemicals or the applicable Safety Data Sheet.



NOTE! Ensure the cleaning area is in an open, well-ventilated space, and any flushing water is captured to prevent runoff into watercourses or into environmentally sensitive areas.

- After spraying operations are complete, drain any residual fluid via the bung located at the bottom of the tank. Capture and dispose or store any fluid in accordance with environmental and work safety requirements.
- Rinse out the tank with several changes of water, plus a recommended cleaning fluid. Where it can be reached internally, use a brush to scrub the inside of the tank.
- Operate the SilageMaster unit with clean water using the spray boom, to ensure no chemical residue remains.
- Unscrew the suction filter cover and remove the filter screen and gasket. Soak the filter screen in clean water, brushing carefully with a nozzle brush. When re-assembling, ensure the gasket is in position.
- Ensure that the tank's basket strainer is free from chemical residue or debris.
- Nozzles, nozzle filters, nozzle caps and gaskets should be cleaned by soaking in water, brushing with a nozzle brush and allowed to dry. Do not blow through the nozzles or use wire or pins to clear any blockages.
- Dispose of all rinsing water in compliance with environmental and work safety requirements.

If the SilageMaster unit is to be stored for an extended period, thoroughly clean and decontaminate the unit as described above. Ensure it is allowed to dry, the tank and all lines empty and not pressurised then store it in a well ventilated area.





Maintenance

Your SilageMaster Silage Applicator Sprayer requires minimal maintenance but regular cleaning and checks will ensure safe and reliable service over its lifetime. Periodic checks and inspections will identify any potential issues, enabling timely rectification and minimising downtime.

Periodic Checks



CAUTION! In dusty, dirty or smoky environments, cleaning, inspection and servicing of the unit on a regular basis is essential. The cleaning, inspection and servicing must be undertaken more frequently in harsh conditions to avoid damage or destruction of equipment.

The following checks and cleaning operations should be undertaken on a regular basis (at least annually). The frequency of these activities will depend on the nature of the operating environment and the operational hours of the SilageMaster unit. Refer to the maintenance schedule tables below for details of maintenance intervals.

- Clean the unit and inspect it for any signs of damage or wear. Replace any safety labels if they are damaged or illegible.
- Check all fittings are firmly secured, tighten if necessary.
- Check all electrical cables and fittings for any sign of damage.
- If the SilageMaster is to be stored for an extended period, thoroughly clean and decontaminate the unit as described above. Ensure it is allowed to dry, the tank and all lines empty and not pressurised then store it in a well ventilated area.

Maintenance Schedule

The following tasks are be conducted in accordance with each of the schedules. All scheduled tasks are to be undertaken concurrently. For example, at the three month maintenance interval, all task listed are to be undertaken, in addition to the daily, weekly and monthly tasks.



NOTE! Maintenance is important. Keep a record of all maintenance tasks conducted on the SilageMaster unit.

TTi recommends photocopying these schedules in order to keep a detailed log of all maintenance tasks.
 A copy of these schedules will be required to support any warranty claim.





Daily Tasks

The following tasks are to be undertaken daily, or prior to each use, of the SilageMaster unit.

| No. | Task | Notes |
|-----|---|--------------------------|
| 1 | Inspect the SilageMaster unit for any signs of damage or wear | Clean, repair or replace |
| 2 | Check electrical plug connection | Top up as required |

Weekly Tasks

The following tasks are to be undertaken each week or 10 operating hours, whichever occurs first.

| No. | Task | Date | Signed |
|-----|-----------------|------|--------|
| 1 | All Daily tasks | | |

Monthly Tasks

The following tasks are to be undertaken each month or 20 operating hours, whichever occurs first.

| No. | Task | Date | Signed |
|-----|----------------------------|------|--------|
| 1 | All Daily and Weekly tasks | | |
| 2 | Check hose and boom | | |

Three Monthly Tasks

The following tasks are to be undertaken every three months or 50 operating hours, whichever occurs first.

| No. | Task | Date | Signed |
|-----|--|------|--------|
| 1 | All Daily, Weekly and Monthly tasks | | |
| 2 | Check all hoses, fasteners, nozzles and fittings | | |

Six Monthly Tasks

The following tasks are to be undertaken every six months or 100 operating hours, whichever occurs first.

| No. | Task | Date | Signed |
|-----|--|------|--------|
| 1 | All Daily, Weekly, Monthly and 3-Monthly tasks | | |
| 2 | Inspect mounting fixtures | | |

Twelve Monthly tasks

The following tasks are to be undertaken every twelve months or 200 operating hours, whichever occurs first.

| No. | Task | Date | Signed |
|-----|---|--------|--------|
| 1 | All Daily, Weekly, Monthly, 3-Monthly & 6-Monthly tasks | | |
| 2 | Electric pump inspection and clean | | |
| 3 | Clean suction filter screen | i i | |





Two-Yearly tasks

The following tasks are to be undertaken every 24 months or 500 operating hours, whichever occurs first.

| No. | Task | Date | Signed |
|-----|---|------|--------|
| 1 | All Daily, Weekly, Monthly, 3-Monthly, 6-Monthly and 12-Monthly tasks | | |
| 2 | Replace pump check valves and diaphragms | | |
| 3 | Replace battery in wireless remote control unit | | |

Trouble Shooting

If a fault develops with your SilageMaster unit, the following trouble shooting tables provides guidance to identify and rectify the problem.

Pump

| Problem | Possible cause | Remedy |
|-------------------------------------|--------------------------|-----------------------------|
| Pump will not prime | Air leak on suction line | Tighten or replace fittings |
| Pressure drops or fluctuates during | Suction line restriction | Remove restriction |
| operation | Pump sucks air | Tighten or replace fittings |
| No pressure | Broken regulator spring | Replace regulator spring |



Risk Assessment

| Task | Hazard | Risk | Control Measure/Mitigation |
|---|---|--------|---|
| Check weather conditions | Manual handling; slips, trips or falls | Low | Wear PPE as per chemical requirements SDS – coveralls, gloves, safety footwear, glasses & respirator Follow safe manual handling techniques: don't lift on your own if >20kg, bend knees & keep back straight. |
| Mix chemicals (if applicable) and fill spray tank | As above, spray drift, chemical spillage, emission of vapours or flammability: weather, untrained visitors | Medium | As above User trained in relevant chemical mixing & administration course, e.g, Chem Cert; Follow relevant Environmental Protection Authority requirements; Fire extinguisher nearby; Keep visitors away from job location unless wearing full PPE. |
| Check the Spray Unit and carry vehicle is safe before use, i.e. where applicable: - wheel nuts, tire pressure, bearings, tow hitch, etc. Use spray unit as per instructions in manual | As above; loss of load; heat & cold; noise; exceed load limit of vehicle; hose entanglement; exhaust fumes; terrain & slopes; | High | As above wear clothes to suit heat & cold; Wear hearing protection if noise >85 dBa; Follow the manufacturer 's safe operation instruction for the vehicle and the spray unit Don't overload - water weighs 1kg for every 1 litre Secure load to vehicle; Keep hose tidy; Put unit brakes on. |
| Clean up, maintenance & storage | As above | Low | As above;Continue to wear PPE for clean up;Store unit in a dry, well ventilated area. |





Warranty

Warranty Policy

TTI will, at its option, repair or replace without charge any part covered by this warranty which is found to be defective in material and/or workmanship within one (1) year after date of sale to the original retail purchaser. If the product is used for rental purposes, this warranty is limited to ninety (90) days.

Upon request, the customer will make the defective part available for inspection and/or return the defective part to TTi, transportation charges prepaid. All parts and components are covered by this warranty except the following, which are warranted separately by their respective manufacturers:

- · engines
- gearboxes
- pumps
- regulators

TTi does not assume any warranty obligation, liability or modification for these items, which are covered exclusively by the stated warranty of the respective manufacturers.

What this Warranty Does Not Cover?

This warranty does not cover:

- defects caused by depreciation or damage caused by incorrect mounting, normal wear, accidents, improper maintenance, improper use or abuse of the product, alterations or failure to follow the instructions and warnings provided.
- Any charges for making service calls, clean up time and transport charges.
- 3. The use of non-genuine parts on equipment supplied by TTi. This will automatically negate any warranty.

How to Obtain Service Under this Warranty?

Warranty service can be arranged by contacting your dealer, or by contacting TTi directly on 1800 816 277.

Proof of warranty registration and date of purchase may be required to verify warranty coverage. Any defective parts returned to TTI must be accompanied by a Return Goods Note. This form can be obtained by contacting Product Support on 1800 816 277 or emailing ProductSupport@tti.com.au.

Warranty Limitations

Warranty limitations are as follows:

- 1. There is no other express warranty. Any warranty that may be implied from this purchase including merchantability and fitness for purpose is hereby limited to the duration of this warranty and to the extent permitted by law. Any and all implied warranties are excluded.
- 2. TTI will not be liable for any incidental, consequential or special damages and/or expenses in connection with the purchase or use of this equipment, to the extent permitted by law.
- 3. Only the warranty expressed in this limited warranty shall apply and no dealer, distributor or individual is authorised to amend, modify, or extend this warranty in any way. Accordingly, additional statements, whether oral or written, do not constitute warranties by TTi, and should not be relied upon.





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| Proudly Built By: | | Quality Checked By: | |
|-------------------|----------|---------------------|----------|
| | | | |
| Signature | Date | Signature | Date |

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