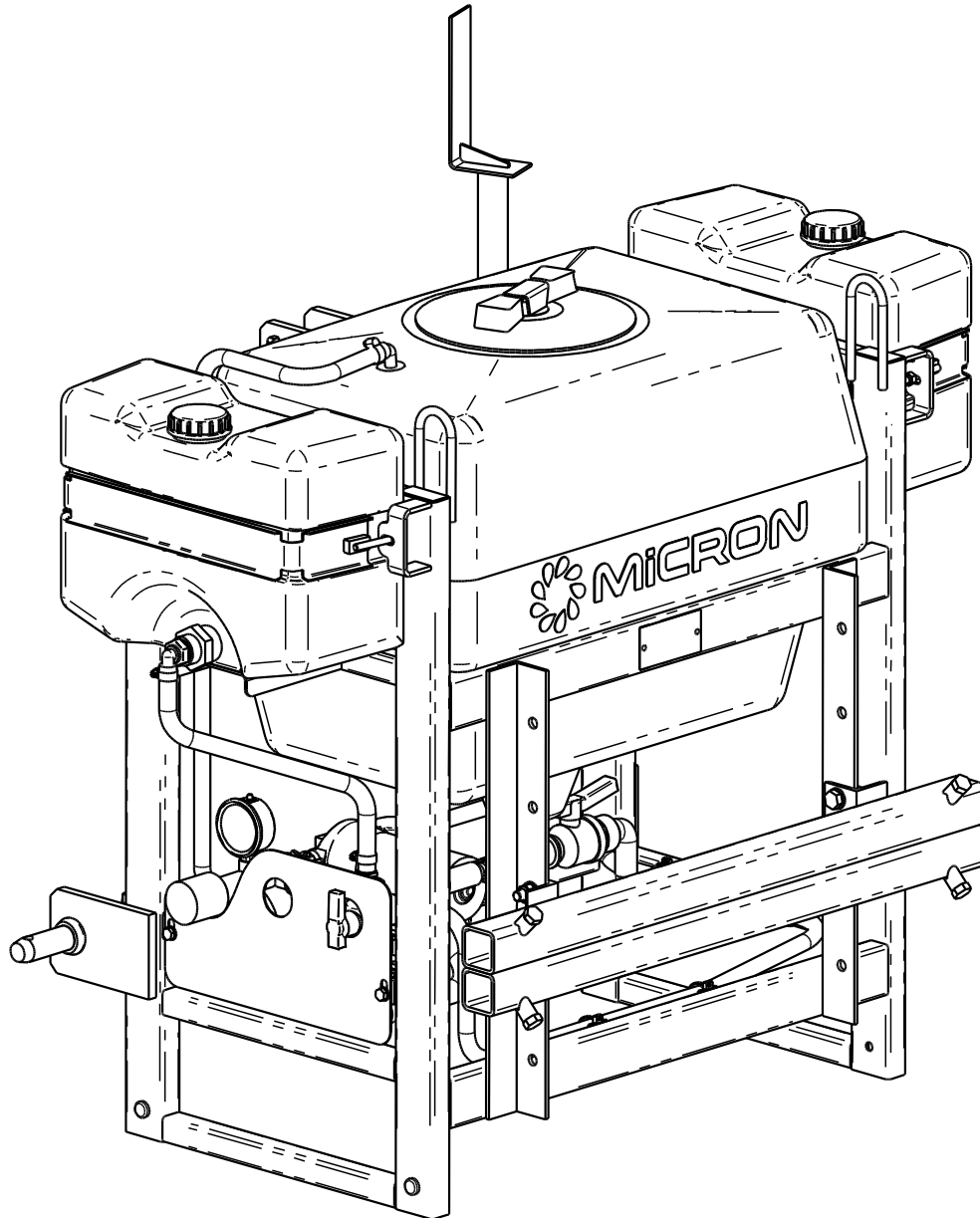




Tank 100

100 litre tank system with integral rinse tank and hand wash



Operator's Manual

Publication Part No: 8704

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Edition Notice

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This publication covers the following products:

100 litre Tank - Type Tank/100

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Preface

This document has been produced to provide guidance in the installation and use of the Micron 100 Litre Tank and associated accessories.

Operators of the Micron 100 Litre Tank should read this document thoroughly. Operators **must** understand the correct use of this equipment and necessary safety precautions before attempting to install or operate the Micron 100 Litre Tank or its associated accessories.

Readers should pay particular attention to the '**Important Information**' section of this document.

Please contact Micron Group or their agents if you require any assistance.

While reading this document please be aware of the following conventions:

Bold text has been used to highlight information of particular interest.

Italic text has been used to signify references, quoted text and text that provides additional information to the reader. This text may also be highlighted by the use of bold text.

For further information on the use of markers and symbols please refer to the '**Important Information**' section of this document.

Micron Group is the registered trademark of; Micron Sprayers Limited, Bromyard, Herefordshire, United Kingdom. All other trademarks used in this Handbook are the property of their respective owners.

Every care has been taken in the design of this equipment and the preparation of this Handbook. However, Micron Sprayers Limited cannot accept responsibility for errors or the consequences thereof.

The user must satisfy themselves that the equipment is suited to the intended use, is functioning correctly and its use is in compliance with local regulations controlling the application of pesticides.

All spray applications illustrated in this Handbook are provided for guidance only. Users should always refer to the product label when using pesticides for specific conditions of use.

IMPORTANT INFORMATION (PLEASE READ)

Instruction to operators

The equipment referred to in this document is designed for use by suitably qualified and experienced personnel. The user **must** ensure that they are fully compliant with any national or local regulations governing the use of pesticides and application equipment before attempting to use the Micron 100 Litre Tank. If miss-used the Micron 100 Litre Tank has the potential to cause harm to personnel or damage to the equipment, property or the environment. Please read the information in this guide thoroughly before installing and/or operating the equipment.

This document is not intended to contravene or supersede any national or international operating or safety standards. Where other national or international standards are available the higher standards should be used.

It is the operator's responsibility to ensure the safe use of the equipment and the safety of others during use of the equipment.




It is the operator's responsibility to minimise environmental impact from the use of the equipment.






















It is the operator's responsibility to ensure that all warning labels on the machine are legible. Any damaged labels must be replaced.

Working with this document

This document has been written to provide the information to correctly install and use the equipment safely. Various symbols are used on the equipment and in this document to provide guidance to the operator; please take time to become familiar with these symbols.

Symbols used on the equipment and in this document

	Denotes a caution or warning – ' things you should be aware of '. A specific warning is given in or close to this symbol.
	Denotes a mandatory prohibition – ' things you must not do '. A specific prohibition is given in or close to this symbol.
	Denotes a mandatory instruction – ' things you must do '. A specific instruction is given in or close to this symbol
NEGLIGENCE OF ANY STATED WARNING, PROHIBITION OR MANDATORY INSTRUCTION MAY CAUSE THE DEATH OR SERIOUS INJURY OF A PERSON. OR SERIOUS DAMAGE TO THE EQUIPMENT OR ENVIRONMENT.	

	Mandatory Prohibition		Caution or Warning		Mandatory Instruction
	Do not insert fingers or foreign objects		Warning – risk of electric shock		Refer to Instructions
	STOP - Do not proceed with this action		Caution – Surface may be hot		Eye protection – must be worn
	Keep Clear – Keep all persons clear of this area		Warning – risk of crushing of hands or fingers		Gloves – must be worn
	Warning – danger from leaking substances		Warning – risk of crushing of whole body or limbs from side		Protective Clothing – must be worn
	Warning – risk of danger from escaping high pressure fluid		Warning – risk of crushing of whole body or limbs from above		Wash hands – hands must be washed after handling
	Toxic – risk of contact with toxic substances		Harmful – substance is harmful		Danger to the environment – risk of contamination

Prohibitions in Use

The Micron 100 Litre Tank is designed for use with agricultural spray products that are approved for use in the intended crop situation.

The use of non approved pesticides is strictly prohibited.

The equipment should **not** be used to spray the following materials

- Any form of petrochemical fuel or oil
- Acids
- Concentrate solvents

For lubricating fluids refer to the maintenance section of this document.

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1 INTRODUCTION

The Micron 100 Litre Tank is designed to be used in conjunction with pressure nozzle or CDA (controlled droplet Application) spraying equipment. The Micron 100 Litre Tank is supplied with integral rinse tank and hand wash tank. For advice on suitable spraying equipment, contact Micron Group or their agents.

1.1 Tank Features

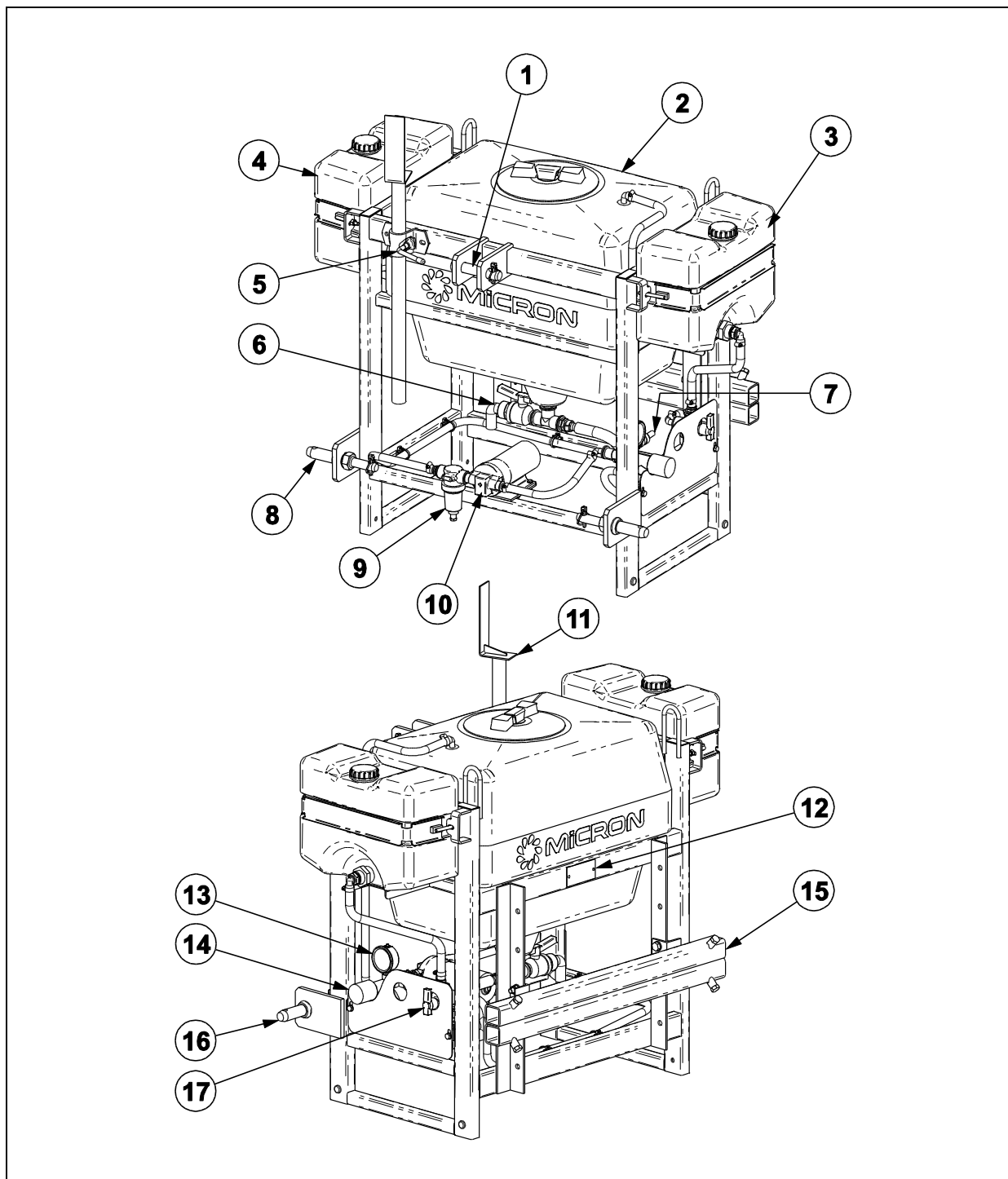









Figure 1 - Micron 100 Litre Tank Features




1	Three point linkage top link pin
2	100 litre mix tank
3	10 litre rinse tank
4	Hand wash tank
5	Back plate bracket clamp
6	System drain valve
7	Outlet quick release coupling and stop valve
8	Three point linkage lower link pin
9	Filter unit
10	Pump unit
11	Back plate bracket
12	Serial number and information plate
13	Pressure gauge
14	Pressure regulator
15	Tool attachment tubes
16	Three point linkage lower link pin
17	Selector valve mix tank or rinse tank

1.2 Technical Specification

Micron 100 Litre Tank Specification	
Product Identification Details	
Trade name:	Micron 100 Litre Tank
Description:	100 litre sprayer tank with integral rinse tank and hand wash.
Model:	Micron 100 Litre Tank
Type:	TANK/100
Manufacturer:	Micron Sprayers Ltd.
Year of Manufacture:	Refer to serial number plate
Paint colour:	RAL 6002 Leaf Green
Weights and Measures	
Net weight:	Refer to serial plate kg
Width (overall)	1160 mm
Depth	740 mm
Height (without back-plate bracket)	970 mm
Environmental Conditions	
Minimum working temperature:	+5°C
Restrictions in Use	
Maximum Road Speed	Refer to local legislation
Maximum spray line pressure:	38 Psi / 2.5 bar
Optional Equipment (contact Micron Group or their agents for details)	

2 SAFETY

WARNINGS AND PROHIBITIONS	
 	<p>Do not insert fingers or any foreign object into the equipment. This may cause a risk of harm and may damage the equipment.</p> <p>Do not dismantle or modify the equipment. This may cause a risk of harm and may damage the equipment.</p> <p>Do not operate the equipment if there are visible symptoms of a problem, such as leaking fluids, abnormal noise or structural damage. Operating the equipment under such conditions may cause a risk of harm or may damage the equipment or the environment.</p>
  	<p>Risk of crushing of the whole body or limbs.</p> <p>Risk of crushing of hands or fingers.</p> <p>Do not stand between the equipment and the vehicle to which it is mounted.</p> <p>Do not stand, sit or lie beneath any part of the equipment unless the equipment is adequately supported on suitable floor standing supports.</p> <p>Do not stand, or allow others to stand, within the reach of extended or lowered parts of the equipment (swivel range).</p> <p>Do not stand, or allow others to stand, within the stroke area of the three point linkage.</p>
	<p>Danger from leaking substances. Substances may be harmful and/or under high pressure.</p>
	<p>Risk of contact with toxic or hazardous substances.</p> <p>Always read and retain the instructions on chemical used in this equipment.</p> <p>Ensure that all instructions for the chemicals being used remain with the equipment until the equipment has been cleaned and is ready for storage or re-use. If practicable display the details of the chemicals, being used in the equipment, on the exterior of the equipment where they are easily visible.</p> <p>Do not drink fluids from any part of the equipment including the hand-wash and rinse tanks.</p> <p>Do not use water from the hand wash facility for washing the face or eyes.</p> <p>Do not dispose of toxic or hazardous chemicals or fluids into drains or water courses.</p>

WARNINGS AND PROHIBITIONS (continued)	
	Some surfaces may become hot during operation. Take care when handling and to avoid contact with, or close proximity to, flammable materials.
	<p>When the equipment is mounted use caution and reduce speed when manoeuvring.</p> <p>The equipment may reduce or obscure the operator's vision.</p> <p>The equipment may obscure the visibility to others of vehicle mounted warning marks, beacons and lights.</p> <p>The equipment may obscure vehicle mounted lighting. Ensure that vehicle lights are visible when in transit. Ensure the working area has sufficient light for safe operation.</p> <p>The additional weight of the equipment may affect the steering and stability of the vehicle.</p> <p>Use extreme caution when turning on sloping ground as the equipment may alter the vehicle's balance and centre of gravity.</p> <p>Use extreme caution when turning as the equipment may alter the required turning circle of the vehicle.</p> <p>Use extreme caution when passing obstacles and through gaps as the equipment may alter the width of the vehicle.</p>
	<p>Ensure that the extremities of the equipment are visible to the operator at all times. Attach additional marking devices or visibility aids where required.</p> <p>Use additional person(s) to assist with manoeuvring where operator vision is obscured.</p> <p>Leave the vehicle in a safe condition before leaving the operator's position to examine or adjust the equipment.</p>

WARNINGS AND PROHIBITIONS (continued)

Run the equipment only on the indicated supply voltage. Use of incorrect supply voltage may cause a risk of fire or other harm and may damage the equipment.

Ensure that all connection sockets are clean and free from contamination before and after use.

When connecting or disconnecting cables and hoses to the equipment; always grasp the connector directly, do not hold by or pull on the cable or hose as this may cause damage.

Ensure the electrical power supply is adequate for the equipment. An inadequate power supply may cause the equipment to malfunction or fail.

Disconnect the unit from the power supply when not in use for an extended period.

Always lift the equipment by the lifting or mounting points provided.

Always wear personal protective equipment when instructed to do so.

Ensure the equipment is securely mounted on floor standing mounts before attempting any maintenance or repair operations.

2.1 Mechanical and Electrical Hazards



The main mechanical hazards in using the Micron 100 Litre Tank are associated with moving parts that present a risk of entrapment to fingers and limbs and where appropriate warning signs are provided at points of potential injury.

2.2 Working with Pesticides



Wear Gloves



Wear Eye Protection



Wear Protective Clothing



Wash hands



Always read the product label before preparing spray mixes. Always adhered to recommended spray dose rates, volume rates and safety precautions.



All pesticides **must** be handled and stored in accordance with the manufacturer's instructions.

All pesticides must be stored in their original containers.



Always Dispose of chemicals in accordance with the manufacturer's instructions.

It is the responsibility of the user to ensure all possible measures are taken to protect the environment.

It is the responsibility of the user to be familiar with, and adhere to, all relevant national and local restrictions, prohibitions and regulations concerning use of pesticides.

2.2.1 Operator Protection



Wear Gloves



Wear Eye Protection



Wear Protective Clothing



Wash hands

Operators **MUST** always read the product label **before** using pesticides. Operators **MUST** adhere to the required use of personal protective equipment (PPE). When handling concentrates operators should wear gloves, coveralls, boots and a face shield to protect eyes and skin from accidental splashes. Some products may also require the use of a respirator mask.

2.2.1.1 Hand Wash Tank

The Micron 100 Litre Tank is provided with an integral hand wash tank. The hand wash tank should be filled with **clean water only**. The hand wash tank is supplied solely for the purpose of washing hands and **MUST NOT** be used for any other purpose.

2.2.2 Product Labels

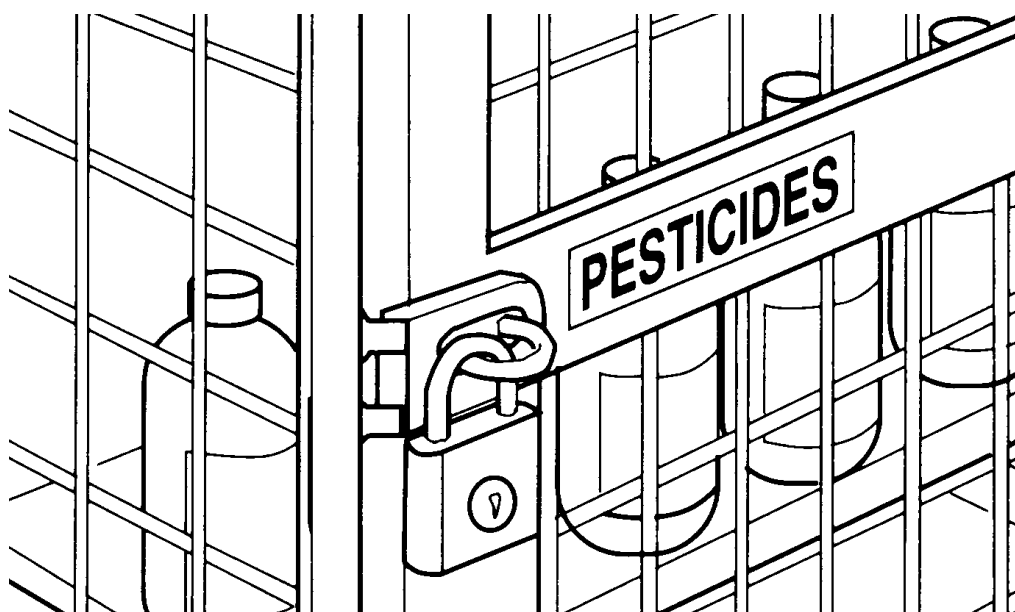


ALWAYS read the product label **BEFORE** using pesticides. **ALWAYS** adhere to the minimum and maximum dose rates, recommended mixing rates and any precautions regarding protection of the operator and environment.

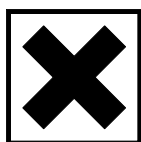
2.2.3 Storage of Pesticides



Always store pesticides away from heat and sunlight in a secure area. Pesticides Should be stored in their original containers.



2.3 Protection of the Environment



Pesticides should always be disposed of according to manufacturer's recommendation.



Tank washings and rinsate should always be sprayed out onto either the treated crop (taking care not to exceed maximum dose rates) or onto a designated area.

Avoid run off into ditches or waterways at all times.

3 INSTALLATION

3.1 Mounting to a Three Point Linkage



DANGER of crushing the whole body or limbs! Take extreme care when connecting or disconnecting equipment. Ensure the equipment is secure and cannot move or settle when connecting to the three point linkage. Take all possible action to reduce the time spent in the hazardous area between the equipment and Tractor/vehicle.



DANGER of crushing or severing of fingers hands or other extremities! Keep hands, fingers and other extremities clear of any crush points.



DANGER! Where the tractor/vehicle is fitted with a remote or external hydraulic control; stand well clear of the equipment when operating the hydraulics.

The Micron 100 Litre Tank is fitted with three point linkage points and is suitable for use with tractors/vehicles with three point linkage of CAT1 or CAT 2.

It is the responsibility of the user to ensure that the correct pin and ball components are used to connect the Micron 100 Litre Tank to the user's tractor/vehicle.

3.2 Sprayer Hose Connections



DANGER from contact with harmful substances! Always wear protective clothing, gloves and eye protection. Wash hands, exposed skin and protective clothing after handling the equipment. Clean up spilled or leaked fluids in accordance with the manufacturer's instructions.



Wear Gloves



Wear Eye Protection



Wear Protective Clothing



Wash hands

The Micron 100 Litre Tank outlet is fitted with a ½ inch quick release connector. A male hose-barb quick release fitting is supplied with the Micron 100 Litre Tank and should be attached to the inlet hose of the spraying equipment being used.

3.3 Pump Connection

The Micron 100 Litre Tank is fitted with an electrically operated pump. The pump has a length of electrical cable attached with black and red wires. The pump will require a 12 Volt DC supply. Connect the red wire to positive (+) and the black wire to negative through a suitable 2 pin connector. Suitable connectors and advice on connecting the pump are available from Micron Group or their agents.

3.4 Transport



When transporting the Micron 100 Litre Tank on public highways it is the responsibility of the operator to ensure the tanking system can be safely moved and all road regulations complied with. Users should refer to specific road transport laws governing the movement of agricultural vehicles and implements.

The presence of a mounted tank may impair the driver's ability to operate the vehicle safely on public roads, refer to the safety section of this document.

4 PREPARING FOR USE

4.1 Inspection

Before operating the equipment make the following inspection:

- Check for structural defects such as broken or cracked components
- Check for excessive wear in joints and pivot pins
- Check for adequate lubrication of moving parts
- Check for loose bolts or fittings and tighten as appropriate
- Check for leaking joints or hoses

4.1.1 Leak Test



Wear Gloves



Wear Eye
Protection



Wear Protective
Clothing



Wash hands

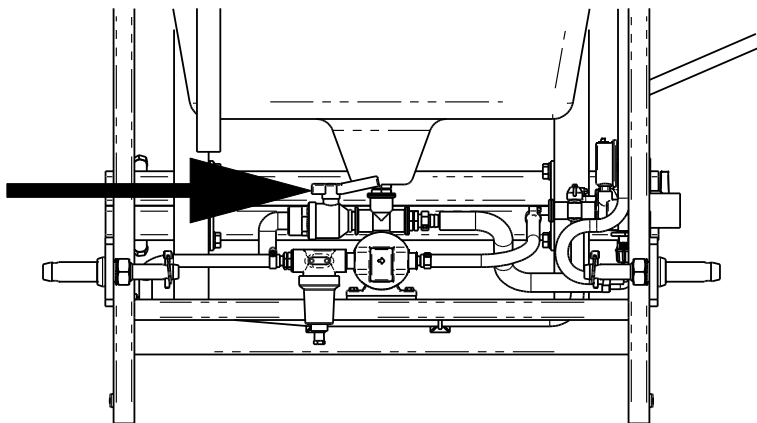
Perform all necessary tests and inspections before mixing pesticides. If using the equipment for the first time or after a period of storage the system **must** be checked to ensure it is operating correctly and there are no leaks. Add a small quantity of clean water to the main mix tank and rinse tank and work through the procedures listed in the following section of this document.

5 OPERATING PROCEDURE

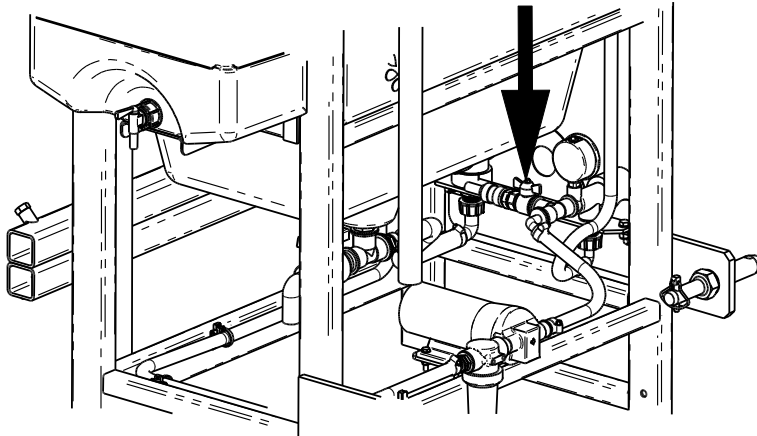
The main tank of the Micron 100 Litre Tank is filled via the filling and inspection cap located on the top of the tank. The rinse tank and hand-wash tank are filled with water independently through the tank lids.

Pesticide should not be put into the main mix tank until the system has been filled with water and the plumbing circuit checked for leaks. Perform all test procedures with clean water only.

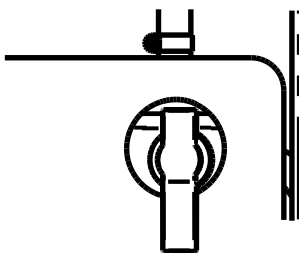
- With the Micron 100 Litre Tank mounted to a three point linkage, lower the three point linkage until the tank filling and inspection cap can to be easily accessed.
- Ensure that the drain valve at the base of the main tank is switched off.



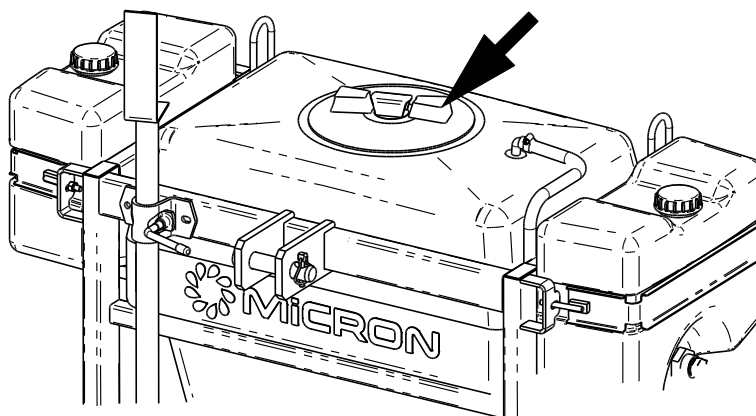
- Ensure that the outlet stop valve is switched off.



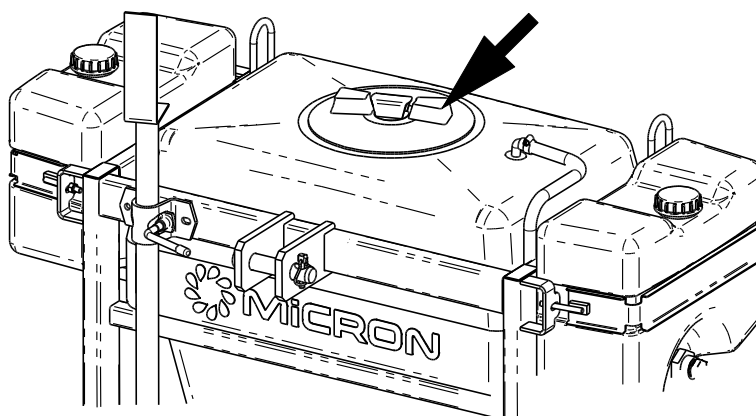
- Ensure that the selector valve is turned to 'main tank'.



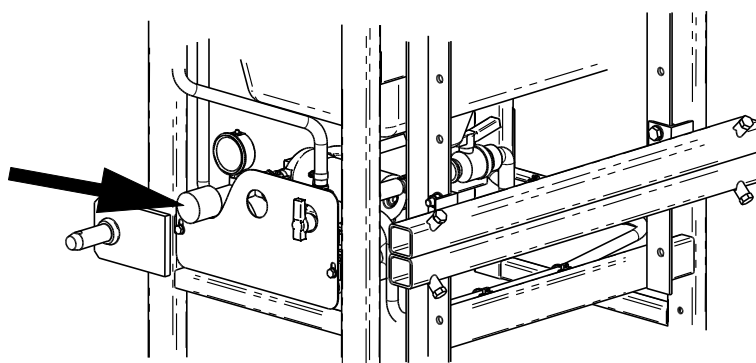
- Unscrew the filling and inspection cap.



- Visually inspect the mesh filter insert. Remove and clean the mesh filter insert if there is any sign of blockage or contamination. Replace the mesh filter insert if there is any sign of damage.
- With the mesh filter insert in place add approximately 25% of the required quantity of clean water to the main mix tank.
- Add the required quantity of chemical to the main mix tank.
- Add the remainder of the required quantity of clean water to the main mix tank.
- Replace the filling and inspection cap and ensure it is secure.

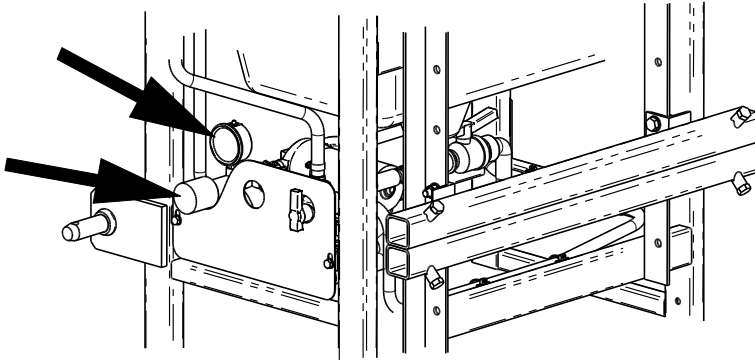


- Loosen the locking ring of the pressure regulator and turn the pressure regulator adjusting cap anti-clockwise until no resistance is felt.



- Switch on the Electric pump and check that fluid is moving around the system.

- Turn the pressure regulator clockwise until the pressure gauge reads the required line pressure. If you are unsure of the required pressure set the regulator at the point where the pressure gauge reads 1 bar.



- Tighten the locking ring of the pressure regulator against the adjusting cap.
- The Micron 100 Litre tank is now ready for use.

The indicated pressure may drop when spraying. Refer to the instructions supplied with your spraying equipment and adjust the pressure regulator of the Micron 100 Litre Tank as required.

6 CLEANING



Wear Gloves



Wear Eye
Protection



Wear Protective
Clothing



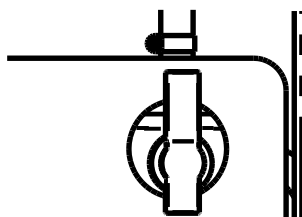
Wash
hands

After each spray operation the tank system **must** be rinsed and cleaned. The tank system includes a rinse tank which is capable of holding sufficient clean water to rinse the system through after use. The following procedure provides guidance on rinsing and cleaning the system. To avoid environmental contamination the system should be rinsed and cleaned before leaving the area being sprayed. Excess rinsate should be applied to the treated area. Ensure that maximum dose rates are not exceeded.

Before rinsing and cleaning the equipment. Remove any excess liquid from the main tank. This should be achieved by continuing the spraying operation until the tank is empty. If there is too much liquid in the tank to continue spraying after the spraying operation is complete the fluid should be drained and stored or disposed of in accordance with the instructions supplied with the chemicals being sprayed.

It will be necessary to operate the spraying equipment during the rinsing and cleaning process. This should be carried out on the crop being sprayed or on an area of ground set-aside for this purpose. The following procedure provides guidance for cleaning the Micron 100 Litre Tank, refer to the instruction supplied with your spraying equipment for further cleaning instructions.

- Ensure that the main tank is empty of spray fluid (refer to the text above).
- Ensure that the rinse tank is full of clean water.
- Turn the Selector valve to 'rinse'.



- Switch on the pump. Water will be drawn from the rinse tank and circulated around the system and collected in the main mix tank.
- Continue until the rinse tank is approximately half full.
- Continue your spraying operation until both the rinse tank and main mix tank are empty.
- Before leaving the spray area clean off any external chemical residue in accordance with the chemical manufacturer's instructions. Rinse off the exterior of the whole equipment with clean water from a hose or pressure washer taking care to avoid direct contact with electrical components.

6.1 Disposal of Rinsate



Remove residues in accordance with the manufacturer's instructions.

Dispose of chemicals in accordance with the manufacturer's instructions.

Harmful chemicals **must** always be handled and stored in accordance with the manufacturer's instructions.



Harmful chemicals **must** be stored in their original containers.

It is the responsibility of the user to ensure all possible measures are taken to protect the environment.

It is the responsibility of the user to be familiar with, and adhere to, all relevant national and local restrictions, prohibitions and regulations.

If the system should fail during operation or an excessive quantity of fluid is left in the tank(s) after spraying remove any excess liquid from the system. Collect all fluids in suitable containers. The main tank and rinse tank can be drained via the drain valve below the main mix tank, see system diagram Appendix A - . Pump any residual fluid out of the system via the hose outlet. Store or dispose of the fluid in accordance with the manufacturer's instruction. Micron Sprayers Ltd. will not provide advice on storage and/or disposal of spraying fluids or chemicals.

7 MAINTENANCE

The Micron 100 Litre Tank will require little routine maintenance; the user should regularly inspect the equipment for damage or wear and replace any damaged or significantly worn items immediately. Any moving parts should be lubricated with a suitable good quality lubricant.

7.1 Filter



Wear Gloves



Wear Eye
Protection



Wear Protective
Clothing



Wash hands

The Micron 100 Litre Tank is fitted with an in line filter. The filter is attached to the input end of the pump. The following procedure describes the removal, cleaning and refitting of the filter.

- Switch off the pump
- Check the pressure gauge to ensure there is no pressure in the system. Depressurise the system by opening the outlet valve if required.
- Grip the lower section of the filter housing.



- Hold the upper section of the filter housing firmly.
- Turn the lower section of the filter housing counter-clockwise to unscrew the filter section. Note that the filter section will be full of spray fluid and the appropriate precautions and procedures should be followed. For further information on dealing with spray fluids refer to section 2.2.

- Remove the filter from the filter section.



- Rinse the filter with clean water; do not use high pressure water jets as this may damage the filter.

Replacing the filter is a reversal of the above procedure.

7.2 Lubrication Table

Users should ensure good lubrication of the moving parts of the equipment. The following table is provided as a guide.

Lubrication Table		
Item	Lubricant	Interval
Grease Nipples	Lithium or Molybdenum based grease	Each use of the equipment
Moving Parts	Light oil	Every month and before storage
Threaded metal parts	Brush or Spray exposed threads with grease or oil	Every month and before storage
Threaded plastic parts	Light coating of silicone spray or petroleum jelly	As required

7.3 Service and Inspection Intervals

The guidance provided in this manual should be sufficient to ensure continuing operation of the equipment. However, Micron Sprayers Ltd. recommends that an annual inspection of the equipment be carried out by an independent and appropriately qualified and/or experienced person. For general service and inspection advice refer to the table below.

Service and Inspection Table		
Item	Action	Interval
Spray lines and ancillary items	Check for leaks Check for free movement of connecting hoses Check for correct operation of valves and regulators	Each use of the equipment Each use of the equipment Each use of the equipment
Filters	Clean filters	Each use of the equipment
Structural defects	Check for broken or cracked components	Each use of the equipment
Nuts, Bolts and other fittings	Tighten any loose fittings Clean and lubricate exposed threads	Each use of the equipment After each use and before storage
Joints and pivot pins	Check for excessive wear Check for adequate lubrication	Each use of the equipment Each use of the equipment
Three point linkage points and pins	Check for damage or excessive wear	Each use of the equipment Repair or replace any damaged parts immediately.

7.4 Preparing for Storage

For storage of the equipment over longer periods or during cold weather follow the procedure below. Throughout this procedure take any and all appropriate measures to ensure minimal impact to the environment. Collect and dispose of any output or spillage from the equipment responsibly.

- Lower the tank system to the ground until it rests on the base of its frame.
- Ensure the system is drained of all fluids including those in the rinse tank and hand-wash tank.
- Add a quantity of good quality antifreeze fluid, diluted if required to the manufacturer's instructions, to the main tank and rinse tank. **DO NOT** put antifreeze into the hand wash tank.
- Run the pump and circulate the antifreeze throughout the tank system.
- Ensure that all of the pipe lines are clear of any fluids other than the antifreeze fluid.
- Ensure the equipment is stable.
- Uncouple the equipment from the Tractor/vehicle.
- Store the equipment in a covered, ventilated area. Store away from direct sunlight as some plastic parts may be deteriorated by ultra violet light.
- To prepare the equipment for use after storage: Follow the instruction in this document to install the equipment onto your tractor/vehicle. Drain the Antifreeze fluid from the Micron 100 Litre Tank system, taking care to collect and dispose of all output fluids responsibly. Thoroughly rinse the system in accordance with section 6 of this document before use.

8 TROUBLESHOOTING

Problem	Possible Cause	Action	Refer to page(s)
No flow or low flow at output	Pump not running or not producing pressure Line pressure is inadequate	Turn on pumps or replace pumps if defective Adjust pressure regulators	21
Poor or inconsistent flow	pressure too low Filters blocked	Increase line pressure Clean all filters	21
Excessive noise from the spraying pump or pump flow is irregular	Electrical power supply fault Pumps are damaged or faulty	Check power supply Repair or replace pumps	

9 DISPOSAL



It is the responsibility of the user to ensure the disposal of the equipment is in accordance with any and all national or local restrictions, prohibitions and regulations.

Remove chemical residues in accordance with the manufacturer's instructions.

Dispose of chemicals in accordance with the manufacturer's instructions.



Harmful chemicals **must** always be handled and stored in accordance with the manufacturer's instructions.

Harmful chemicals **must** be stored in their original containers.

It is the responsibility of the user to ensure all possible measures are taken to protect the environment.

It is the responsibility of the user to be familiar with, and adhere to, all relevant national and local restrictions, prohibitions and regulations.

To dispose of the equipment reduce the equipment to its component parts.
Thoroughly clean all components inside and out.

Dispose of the component parts by material and type in accordance with any and all national and local restrictions, prohibitions and regulations.

Appendix A - System Diagram

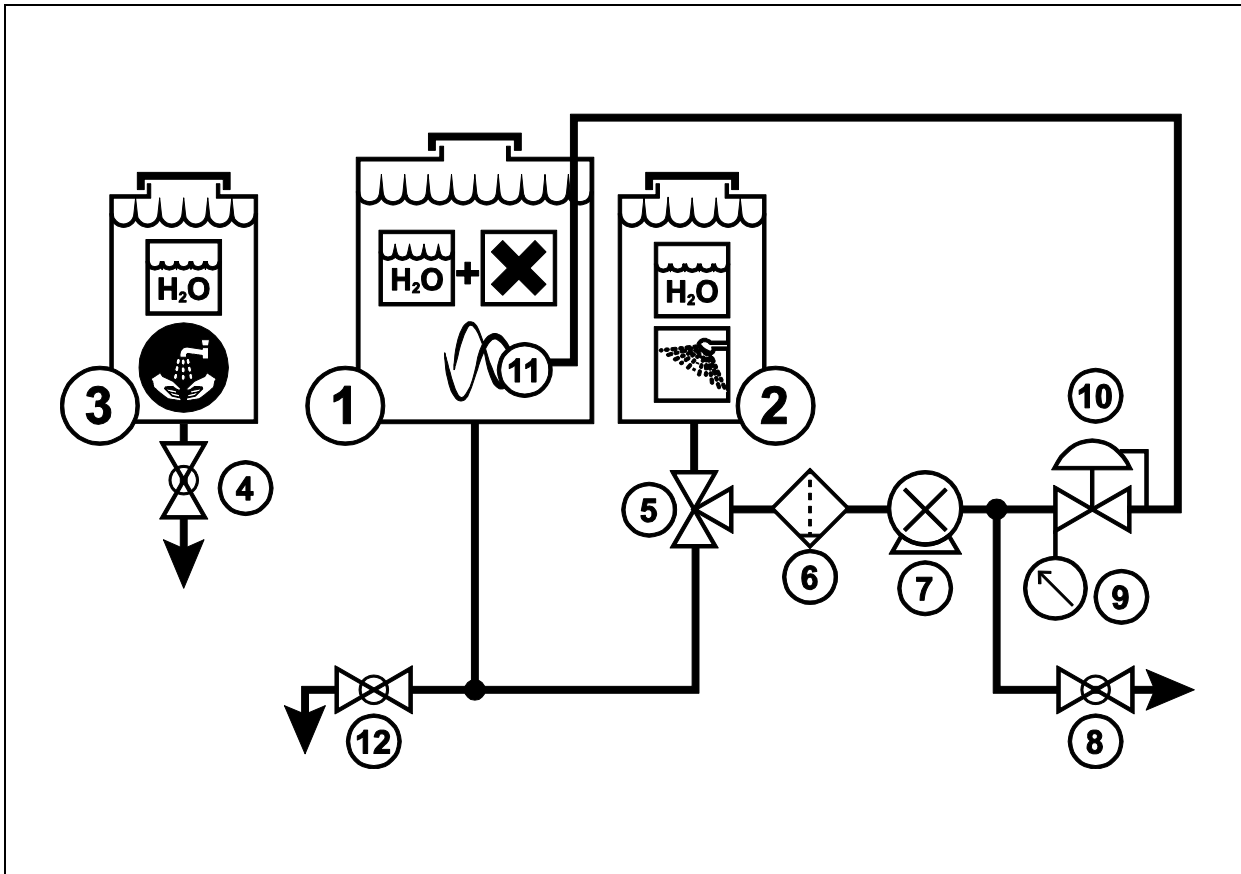


Figure 2 - System diagram

Appendix B - Conversion Factors

1 yard	=	3 feet	=	0.91 metre
1 metre	=	39.37 inches	=	1.09 yards
1 statute mile	=	0.87 nautical mile	=	1.61 kilometres
1 nautical mile	=	1.15 statute mile	=	1.85 kilometres
1 kilometre	=	0.62 statute mile	=	0.54 nautical mile
1 statute mile	=	1760 yards	=	5280 feet
1 nautical mile	=	2027 yards	=	6081 feet
1 kilometre	=	1094 yards	=	3282 feet
1 metre/sec	=	2.237 miles per hr	=	196.9 ft/min
1 acre	=	43560 sq feet	=	4840 sq yards
1 acre	=	4047 sq metres	=	0.40 hectare
1 hectare	=	107600 sq feet	=	11955 sq yards
1 hectare	=	10000 sq metres	=	2.47 acres
1 sq mile	=	640 acres	=	259 hectares
1 sq kilometre	=	247 acres	=	100 hectares
1 US gal	=	0.83 Imp gal	=	3.78 litres
1 Imp gal	=	1.20 US gals	=	4.54 litres
1 litre	=	0.26 US gal	=	0.22 Imp gal
1 US pint	=	16 US fl ounces	=	0.47 litres
1 Imp pint	=	20 Imp fl ounces	=	0.57 litre
1 US gal/acre	=	8 US pint/acre	=	9.45 litres/hectare
1 Imp gal/acre	=	8 Imp pints/acre	=	11.35 litres/hectare
1 litre/hectare	=	0.11 US gal/acre	=	0.081 Imp gal/acre
1 pound	=	16 ounces	=	0.45 kilogram
1 kilogram	=	2.20 pounds	=	35.3 ounces
1 ounce	=	28.35 grams		
1 pound/sq inch	=	0.068 atmosphere	=	0.067 bar
1 atmosphere	=	14.70 pounds/sq in	=	1.01 bar
1 bar	=	14.50 pounds/sq in	=	0.98 atmosphere
1 kilopascal	=	0.01 bar	=	0.145 pounds/sq in

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Notes

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