



Instruction Manual

MANUP-1 REV H 14/04/20

**UTEPAK 100L
TRUKPAK 200L
SQUATPAK 300L, 400L
UP100-S7, TK200-S7, TK200-S9, TK200-S10, SQ300-S7, SQ400-S7,
SQ400-S8**



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Silvan Warranty

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

We warrant our goods to be free from defects in materials and workmanship for the warranty period of 12 months from the date the product is delivered to the consumer.

Silvan warrants its authorised Dealer, who in turn warrants the original purchaser (consumer) of each new Silvan product that it will repair or replace the product, or, pay the cost of repair or replacement, as determined by Silvan without charge for labour or any defective or malfunctioning parts in accordance with the warranty limitations below.

This Warranty is in addition to any other rights and remedies available to consumers under the law

This Warranty Covers

Only conditions resulting directly from defects in workmanship or material under normal use and service.

Warranty Exclusions

The Warranty does not cover:

- Conditions resulting from misuse, use of incompatible chemicals, exceeding machine specifications including overloading, impact damage, negligence, accidental damage or failure to perform recommended maintenance services as specified in the Owner/Operator Manual applicable to the product.
- Damage caused by continued use of a product after initial failure
- Any product which has been repaired by other than an authorised Silvan service outlet in a way which, in the sole and absolute judgment of Silvan, adversely affect its performance or reliability.
- The replacement of maintenance items such as diaphragms, batteries, V belts and ground engaging components, etc.

How To Claim Warranty

Return the goods to the place of purchase at your cost and within the warranty period along with evidence of the purchase date. If the original supplier cannot be contacted, then contact Silvan as below and we can direct you on how to proceed with your warranty claim.

How Your Claim Will Be Managed

The repair of a defective product qualifying under this warranty will be performed by any authorised Silvan service outlet within a reasonable time following the delivery of the product, at the cost of the owner, to the service outlet's place of business. The product will be repaired or replaced depending on the extent of the problem at the discretion of Silvan and the Silvan dealer.

Safety Instructions



Before attempting to operate or install the sprayer carefully read and take note of the following safety warnings.

Failure to comply with these warnings may result in serious injury or death.

You need to read carefully and take note of the following warnings before attempting to operate or install this sprayer. Failure to comply with these warnings may result in serious injury or death.

Warning! This sprayer is designed and manufactured solely for the purpose of applying agricultural chemicals to plants. Under no circumstances may it be used for any other purposes.

Warning! Prior to sprayer usage all users and operators must have read and fully understood the contents of this manual

Warning! Do not exceed the the vehicle manufacturer's specified safe load and carrying capacity.

Warning! Exercise extreme care when operating in hilly or uneven terrain to ensure proper stability. Refer also to the vehicle manufacturer's operating and safety instructions

Warning! Refer to the chemical manufacturer's label for correct use and safe handling instructions of chemicals before use

Warning! Never allow inadequately trained personnel to attach or operate the implement

Warning! Before carrying out maintenance work, wash the sprayer thoroughly to remove all toxic chemicals that may contaminate the sprayer.

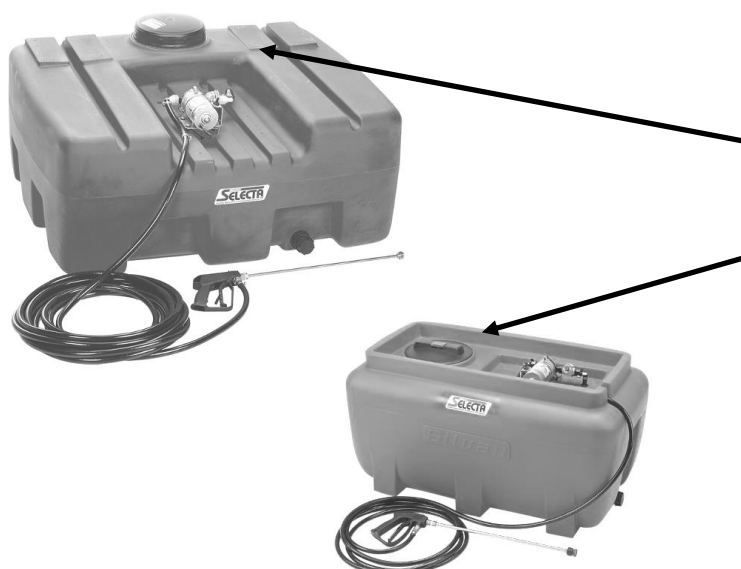
Warning! Do not point spray gun at any part of the human body.

Warning! Do not pump flammable liquids or operate the pump in an explosive environment.

Warning! Ensure the power supply and cabling is suitable to support the pumps maximum current draw and voltage requirements.

Warning! Do not over extend power cables and or use cables of insufficient current capacity as this can cause voltage restrictions and excessive currents that can damage equipment.

The following "Safety" decal should be fitted to the machine at all times in the location shown in the diagram. If the decal is missing or unreadable it should be replaced by ordering a new decal from your Silvan dealer by the part number shown.



P/No DEC48

Specifications



GENERAL

The Silvan Utepak, Trukpak and Squatpak are portable sprayers. Whether you are a commercial grower, or a home gardener you will find many uses for this unit. The tank pump and wand fittings are corrosion resistant and are suitable for applying weedicides, herbicides, insecticides, fungicides, organic and green formulations.

A variety of models are available configured with different tank capacities, pumps and spray guns all suited for spot spraying but may be used in conjunction with a boom for boom spraying. Some models also include additional features such as hose reels, regulators or included boom-less nozzles.

Your Product code indicates the configuration detailing the tank style, tank capacity, pump type and if a hose reel is fitted for example: Squatpak, 400L capacity fitted with DDP-550 pump and 30m Eco Hose reel.

SQ400-S8-1			
TANK STYLE	TANK CAPACITY (LITRES)	PUMP TYPE	HOSE REEL
<u>UP</u> (Utepak)	100	<u>S7</u> (DDP-552A)	<u>1</u> (30m Eco Reel (manual action))
<u>TK</u> (Trukpak)	200	<u>S8</u> (DDP-550)	<u>2</u> (15m Spring Retractable Reel)
<u>SQ</u> (Squatpak)	300	<u>S9</u> (DDP-554)	
	400	<u>S10</u> (DDP-555)	

Other product features may vary that are not covered in the product code such as the filtration, spray gun and a regulator is fitted.

PUMP

(The fitted pump is dependent which model spray unit was purchased and is indicated by the product code as described above).

- **DDP-552A** Aquatec Smoothflo, 12-volt DC electric, max current 9 amps, 7 litres/minute open flow, Max 120psi on demand electric pressure switch, On/Off switch. Special Feature includes adaptive pressure sensing technology to auto bypass flow to prevent pressure spikes while maintaining higher pressures and flows
- **DDP-550** Aquatech High Capacity, 12-volt DC electric, max current 18 amps, 20 litres/minute open flow, Max 60psi on demand electric pressure switch, On/Off switch.
- **DDP-554** Aquatec High Pressure Smoothflo, 12-volt DC electric, max current 16 amps, 5 litres/minute open flow, Max 200psi on demand electric pressure switch, On/Off switch. Special Feature includes adaptive pressure sensing technology to auto bypass flow to prevent pressure spikes while maintaining higher pressures and flows
- **DDP-555** Aquatec Medium Capacity, 12-volt DC electric, 12 litres/minute open flow, Max 45psi on demand electric pressure switch, On/Off switch.

HOSE

- 6 metres of 10mm I.D delivery hose standard (applicable for models that do not include hose reels)

Specifications



TANK

100, 200, 300 and 400 litre moulded translucent tank with calibrated litre graduations. Material is U.V. stabilized and impact resistant polyethylene with screw on lid has anti-spill breather.

100L Utepak and 200L Trukpak feature in moulded inserts in the tank base allowing the tank to be bolted down to a tray or skid.

300L and 400L Squatpak tank feature a large internal baffle for reduction of fluid surge in transit to help improve handling, the tank tops feature deep grooves for tie-downs and 2 accessory mounting points (only 1 available when hose reel is fitted).

FILTRATION

In line suction filter and basket strainer beneath the tank lid to eliminate coarse debris.

SPRAY GUN

A variety of spray guns are fitted and matched to the pump for optimal spraying

- The PA spray gun is fitted with 500mm extension and fan nozzle is a professional choice and popular for spot spraying.
- The JetPro Gun is ideal for atomised spraying and is only fitted to spray units with pumps capable of more than 150psi
- The Spotjet spray Gun is for general duties spraying suited, with 600mm extension and adjustable nozzle
- The Atomiser+ Spray Gun is designed for professional and general spraying with a capability of 580psi pressure.



CONTROLS

On/Off power switch. The pump is fitted with an automatic electric pressure sensing switch which automatically starts the pump when the pressure falls below a pre-set pressure and stops the pump when the pressure reaches a maximum pre-set pressure. (Some models are fitted with an adjustable pressure regulator).

DIMENSIONS

	<u>100 Litre</u>	<u>200 Litre</u>	<u>300 Litre</u>	<u>400 Litre</u>
Length	660mm	1050mm	1010mm	1010mm
Width	590mm	590mm	940mm	940mm
Height	580mm	535mm	500mm	670mm
Weight (dry)*	13kg	18kg	27kg	31kg

**WEIGHTS WITHOUT ACCESSORIES SUCH AS HOSE REEL.*

To calculate the weight of the sprayer, add 1kg to the dry weight for every litre of water. E.g. The laden weight of the sprayer with 16L of water is 21kg.

SETTING UP YOUR SPRAYER

When using the PA Spray Gun Fit the extension lance to the handgun ensuring the nylon washer is fitted between them. Fit the hose to the gun, using the hose clip supplied. Fit the white elbow fitting to the other end of the hose and secure it with the hose clamp provided. Placing the hose in hot water may assist at this stage. Fit the hose to the outlet side of the pump.

CONNECTING TO 12 VOLT DC SUPPLY

The Sprayer requires a 12 volt DC power source. A 3 metre loom is provided with the sprayer to allow the sprayer to be connected to the 12 volt DC source available. The brown wire is positive and the blue is negative. If you extend the wire use wire of the same gauge or larger.

An on/off switch is fitted to the sprayer to allow the sprayer to be switched off from the 12 volt DC source to prevent accidental drain of power. The switch also allows the pump to be shut down when the tank is empty preventing overheating and damage to the pump.

- **Important Note!** Ensure that distance from the power supply to pump is minimised.
- **Important Note!** If extending power cables ensure a cable of equal or preferably greater current capacity is used as over extended wires may overheat, blow fuses or damage the pump
- **Important Note!** Consult your vehicle instruction manual for correct electrical connection.

FITTING INSTRUCTIONS

Position the sprayer in a way that minimises contamination to the operator. With the pump away from operator the risk of contamination due to hose failure can be minimised. It is recommended that the sprayer be securely attached to the vehicle or trailer. Refer to manufacturer's instructions for appropriate load limits and fitting positions.

Note: 1 litre of water = 1 kg.

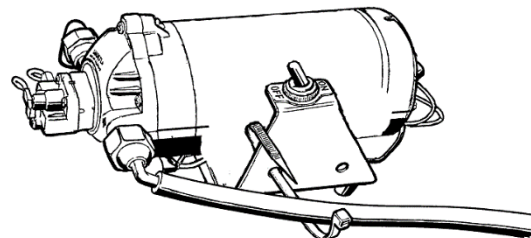
Never fill spray tank to a capacity beyond the specified overall weight limits set by your vehicle manufacturer. Recesses in the top of the tank allow for tie down straps. When fitted these should be firmly secured to approved attachment points on the ATV or other vehicle.

The sprayer should be mounted centrally and as near to the vehicle centre of gravity, as possible. It should not protrude so it won't cause an obstruction.

PUMP HOSE ANCHOR

We have supplied a Plastic Hose Tie to protect the pump housing or hose fitting from possible damage caused when the hose is pulled tight or over stretched.

The hose can be tied against the switch bracket as shown in the diagram below, do not over tighten or kink the hose as this may restrict the flow.



FILLING THE TANK AND ADDING CHEMICAL

Warning: Before using the sprayer for the first time or adding chemical check the operation and function of the sprayer with clean water

- Check that the battery power supply is charged, the filters are clean, and all fittings, hoses and gun connections are tight.
- Partly fill the sprayer before adding chemical. Always use clean water to prevent blockages and ensure chemical function is not inhibited.
- Connect pump and ensure it primes correctly, holding the spray lance trigger on until it sprays steadily.
- Check all pipes, hoses, hose clamps and connections for leaks or damage.
- Be sure to wear safety equipment as recommended by the chemical manufacturer before adding chemical to the sprayer.

Once satisfied that all hoses and connections are working and there is no leaks or damage.

- Add the chemical according to the directions on the chemical container following all safety and protective equipment recommendations.
- Do not use wet powders or chemicals that must remain suspended in solution and require agitation. Only use chemicals or dyes that fully dissolve.
- Do not use a sprayer that has been used to spray herbicides for insecticides or nutrients unless the sprayer has been thoroughly cleaned including neutralizing the herbicide according to the manufactured directions if required.

Maintenance



Dispose of unused chemical and water used for rinsing in a manner that will not endanger people, animals or the environment.

Failure to comply with these warnings may result in serious injury or death.

To avoid chemical contamination, wear appropriate protective equipment including gloves whenever maintenance is carried out; turn off the pump and depress the trigger on the spray lance to dissipate any pressure. After spraying is completed, drain unused chemicals from the tank. Rinse the tank with clean water then operate the sprayer with clean water in the tank to clean out the pump, hose and spray lance. Do not leave chemicals in the tank as they may crystallize or form solids and block in pump, spray lines, nozzles or filters. A cleaning agent may be required to clean away residues of spray dyes or other solutions that leave deposits in the pump and lines.

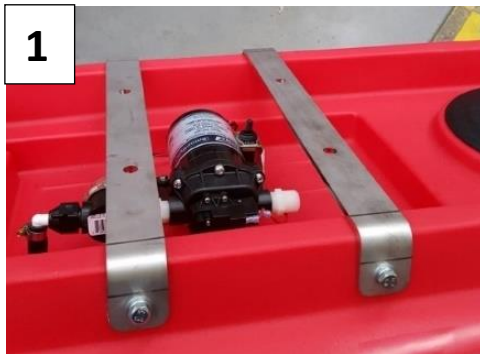
The foot filter should be checked and cleaned if necessary, each time the tank is filled. Appropriate protective equipment should be used whenever maintenance is carried out.

If heavy frosts are experienced, run the pump to make sure pump and spray lines are dry. This will prevent water freezing in the pump or spray lines and damaging the sprayer.

Special Installation – Hose Reel Kit

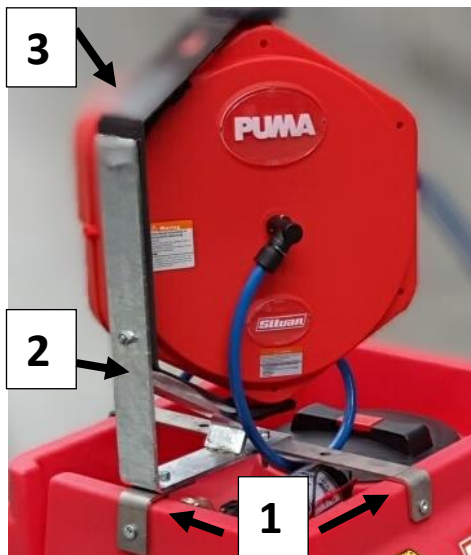


30m Eco Reel:



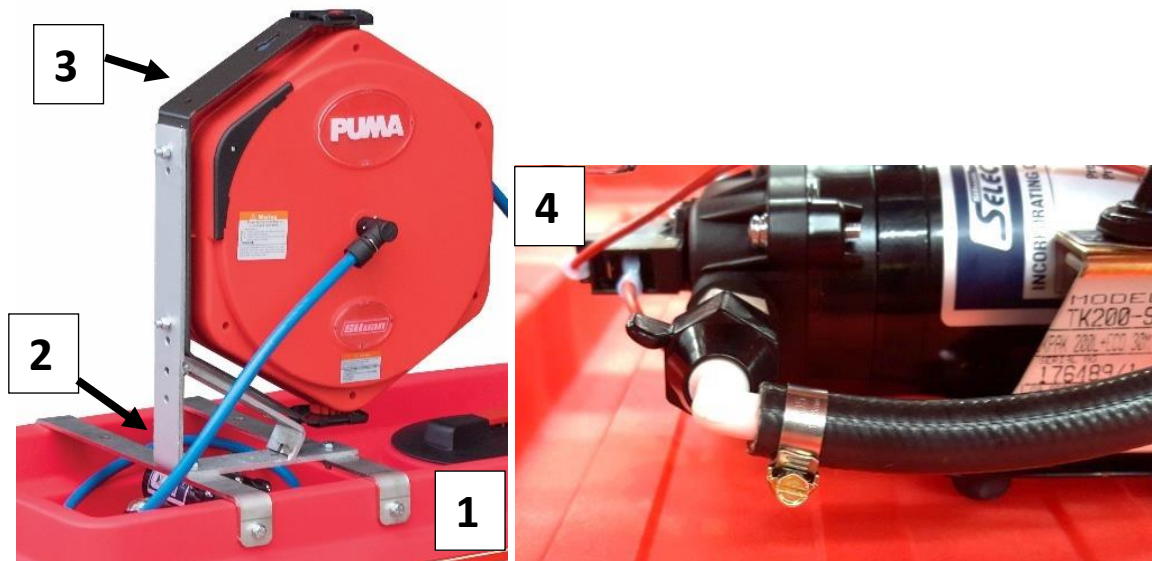
1. Fit the 2 x long brackets to the tank with 4 x M8x16mm Bolts, Washer & Spring Washers
2. Fit the hose reel with the 4 x M10 nuts Bolts, Washer & Spring Washers
3. Loop the hose reel inlet hose under as shown and cut to meet the pumps inlet. Fit the elbow hose tail and hose clamp then fit to the pump

15m Reel for 100L:



1. Fit the 1 x long and 1 x angle bracket to the tank with 3 x M8x16mm Bolts, Washer & Spring Washers
2. Fit the upright bracket as shown with 2 x M8X25mm Bolts, Washer & nyloc nuts
3. Fit Hose reel to the upright bracket using 2 x M8X25mm Bolts, Washer & nyloc nuts.
4. Loop the inlet hose under the reel and cut hose to suitable length to meet the pumps inlet (allow length for the hose to swivel). Fit elbow hose tail and hose clamp then fit to pump

15m Reel for 200L:



1. Fit the 2 x long brackets to the tank with 4x M8x16mm Bolts, Washer & Spring Washers
2. Fit the upright bracket as shown with 2x M8X25mm Bolts, Washer & nyloc nuts
3. Fit Hose reel to the upright bracket using 2x M8X25mm Bolts, Washer & nyloc nuts.
4. Loop the inlet hose under the reel and cut hose to suitable length to meet the pumps inlet (allow length for the hose to swivel). Fit elbow hose tail and hose clamp then fit to pump

Fitting The Spray Gun:

Different model sprayers feature different spray guns and have different inlets.

Method 1.

Fit direct to hose. The PA spray gun can be directly fitted to the ¼" fitting on the hose reel. (Requires old existing fitting to be removed).



Method 2.

Cut the hose. The Triam and Spotjet spray gun both have ½" connections which do not directly fit to the hose reels ¼" fitting. Remove any existing hose connections to the spray gun. Cut the swaged fitting from the hose reel then fit spray gun using the included hose tail