



Promax Slip-on Dust Suppression Unit Handbook



Introduction

Congratulations on your purchase of a Promax Slip on Dust Suppression Unit!

Please read your operators handbook carefully before mounting and using your unit.

This manual contains information for the operation and use of your unit. If properly maintained and driven safely, the Dust Suppression Unit will provide many years of service. Promax warrant that this equipment has been designed and built for its intended purpose as a dust suppression system dispensing water.

It is the responsibility of the owner to ensure that the equipment is operated in accordance with NZTA regulation and NZ Worksafe requirements.

Promax will not be held liable for any loss, injury or death resulting from the failure to observe all safe working regulations as required by law.

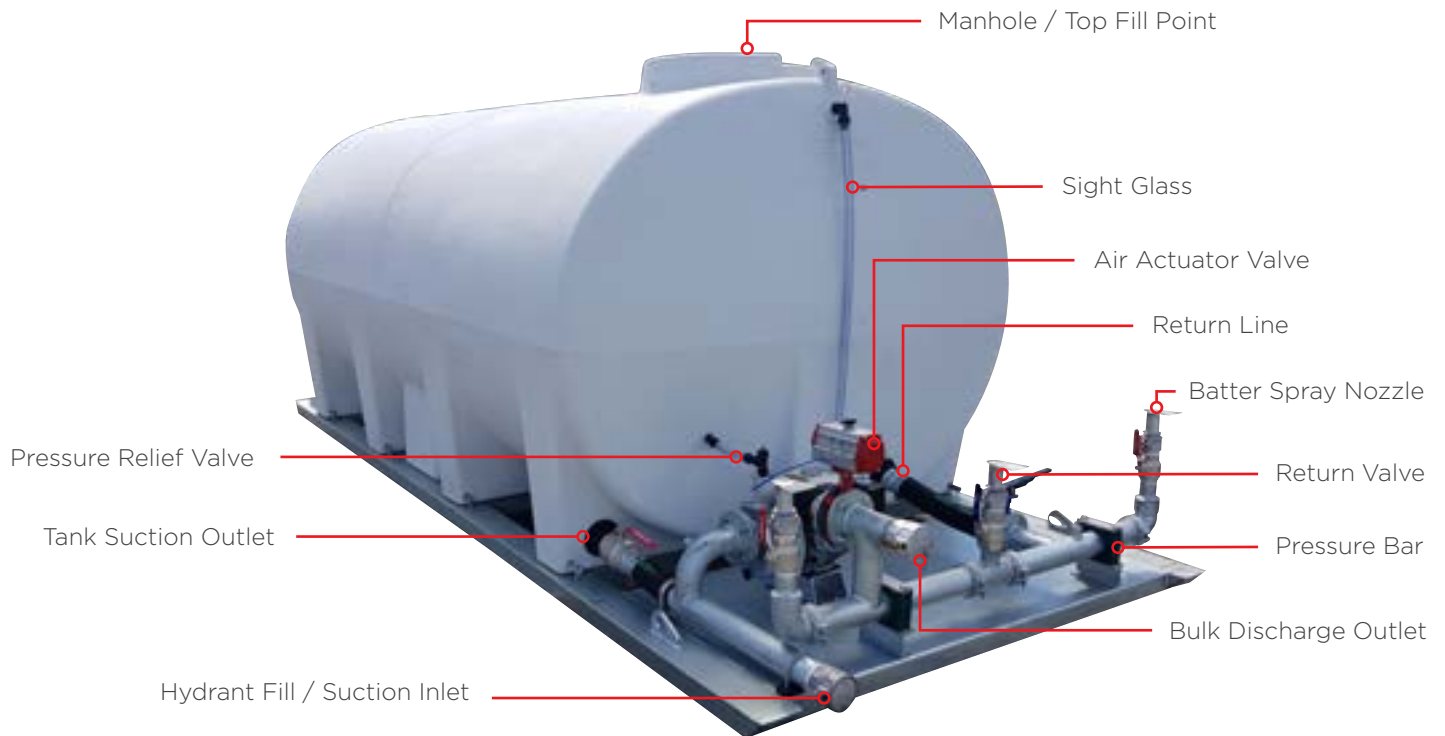
General

- This unit is designed for water only. It is not designed to hold diesel or any flammable liquid.
- Ensure that all bolts are tightened and secured before operation.
- Before lifting the machine, ensure the tank is completely empty.
- Unauthorised modifications to the mounting systems of the tank & frame may affect its function and create a serious safety risk and will void any warranty.
- Ensure equipment is securely fastened to vehicle at all times when operating this unit.
- All operators of this equipment should be adequately trained in the safe operation of this equipment and are in good physical and mental health.



DSU Overview

7000L - 15,000L Capacity



Air Actuator Valve

Connecting the Air actuator Valve

If your DSU has air actuator valve it will be necessary to first tee into the vehicles airline to operate these valves before using the Unit.

This is an Air open - spring close valve.

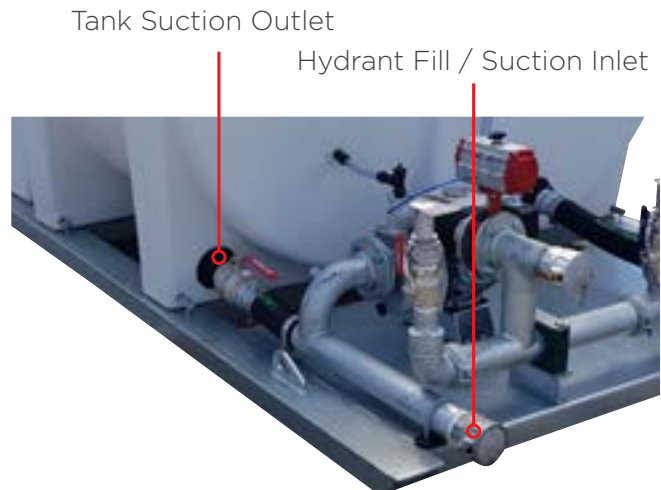
Note: When tapping into a vehicles airline it is most important to install a Pressure protection valve in order to prevent accidental pressure loss which could compromise the vehicles operating systems.

Filling the Tank

With the unit there are 3 procedures available to fill the tank.

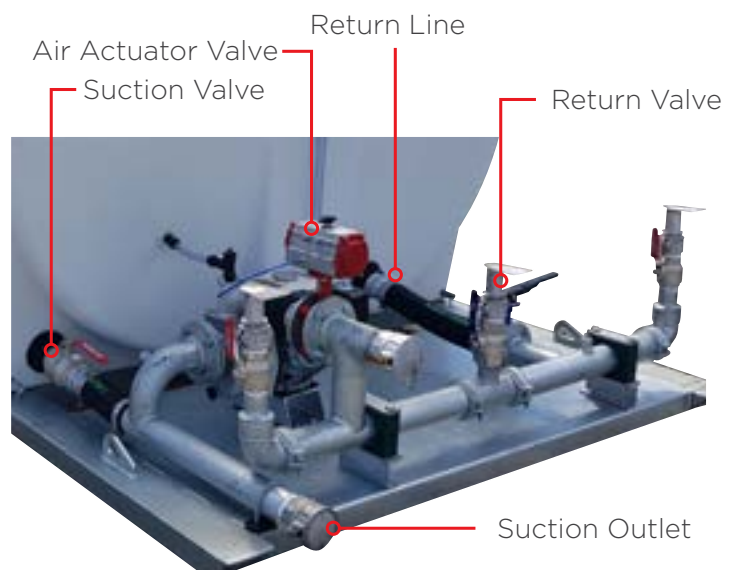
Hydrant Filling

1. Remove the Hydrant Inlet pipe camlock dust plug.
2. Attach the hydrant supply hose to the inlet camlock
3. Open the Tank outlet ball valve to the tank.
4. Open the supply & fill the tank.
5. When tank is full shut off the hydrant.
6. Finally close the tank outlet ball valve and disconnect the hydrant hose.



Self-Filling

1. Shut tank suction outlet ball valve
2. Attach the suction hose to the inlet camlock
3. Place suction hose into water source ensuring the filter is deep enough in the water to prevent it sucking air.
4. Open return line butterfly valve
5. Open air actuator valve
6. Ensure water is being sucked in by the pump and discharged into the tank.
7. When filling is complete stop the motor, close the suction valve and disconnect fill hose.



Stand Pipe Filling

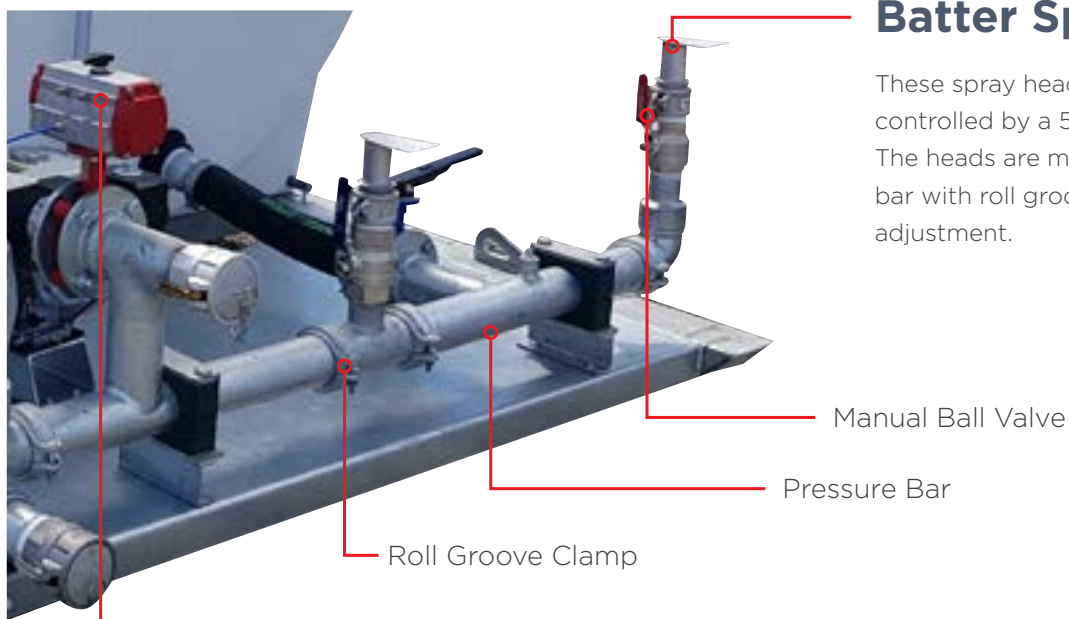
1. Open manhole/top fill lid.
2. Fill to desired level.
3. Close manhole/top fill lid.



Operating your DSU System

Spray Bar Operation

By loosening the roll groove clamps these nozzles can be adjusted for directional control.



Batter Spray Heads

These spray heads are individually controlled by a 50mm manual ball valve. The heads are mounted on the spray bar with roll groove fittings for easy adjustment.

Air Actuator Valve

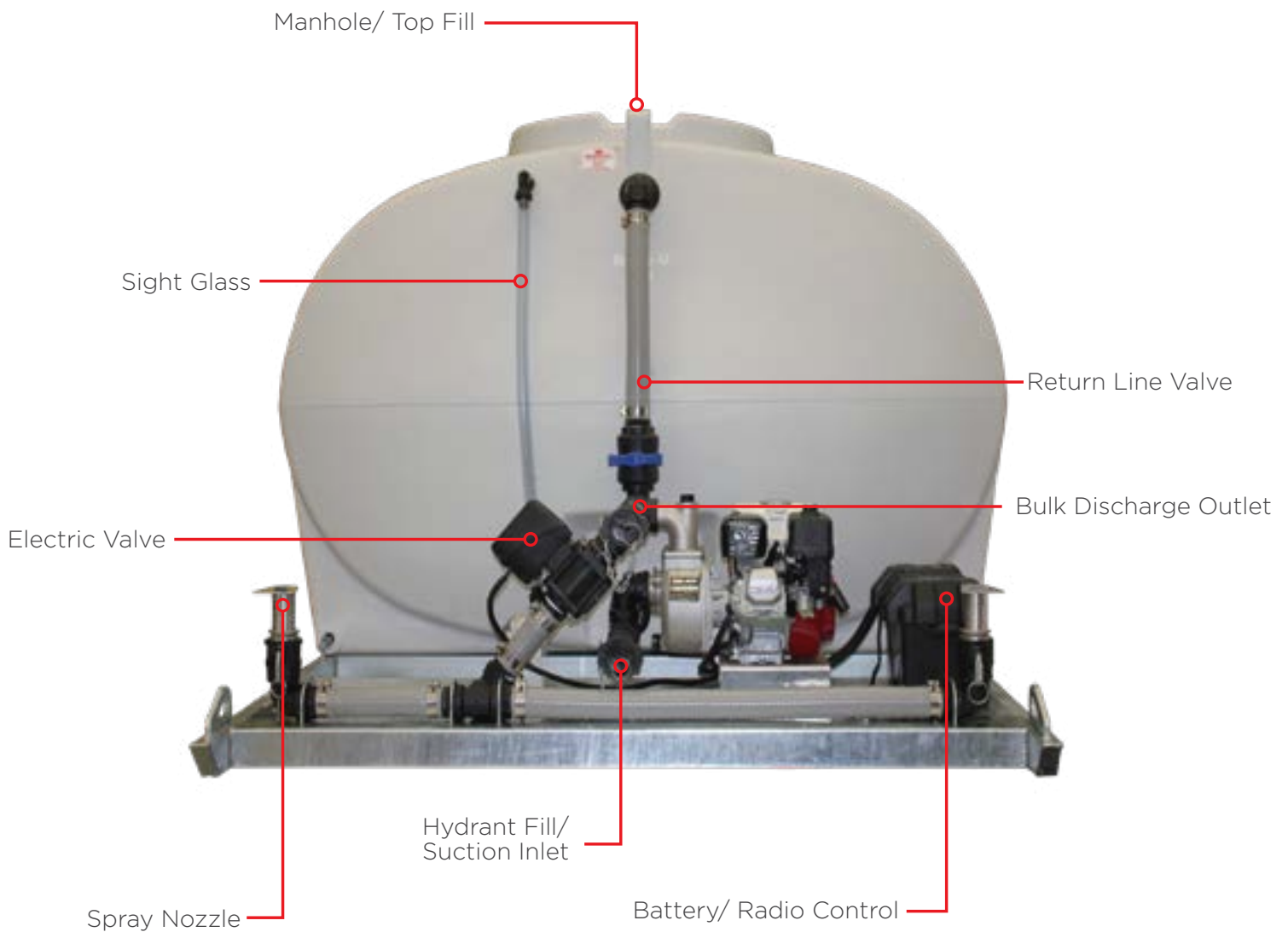
Maintenance

- Regularly check the tank-to-frame connections are secure and no sign of wear or cracking. Replace any bolts and nuts of bent or worn.
- Regularly check hoses, nozzles, and fittings for any sign of wear. Replace any parts which are worn or defective.
- Check oil level in motor & replace oil according to manufacturer's recommendations.
- Periodically check hose clamps and connections.



DSU Overview

2000L - 6000L Capacity



Filling the Tank

With the unit there are 3 procedures available to fill the tank.

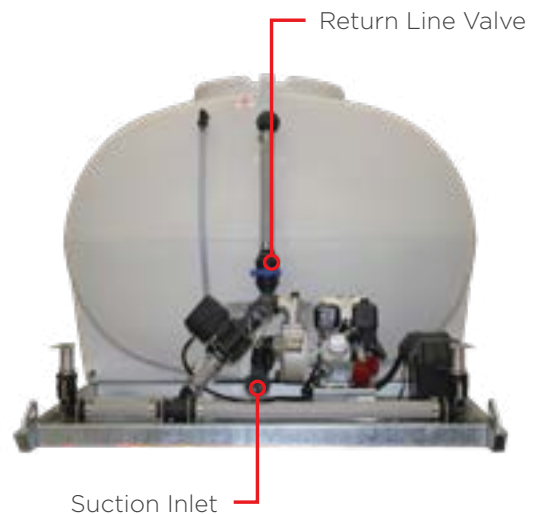
Hydrant Filling

1. Remove the Hydrant Inlet pipe camlock dust plug.
2. Attach the hydrant supply hose to the inlet camlock.
3. Open the Tank outlet ball valve to the tank.
4. Open the supply & fill the tank.
5. When tank is full shut off the hydrant.
6. Finally close the tank outlet ball valve and disconnect the hydrant hose.



Self-Filling

1. Shut tank suction outlet ball valve.
2. Attach the suction hose to the inlet camlock.
3. Place suction hose into water source ensuring the filter is deep enough in the water to prevent it sucking air.
4. Open return line ball valve
5. Ensure water is being sucked in by the pump and discharged into the tank.
6. When filling is complete stop the motor, close the suction valve, and disconnect fill hose.



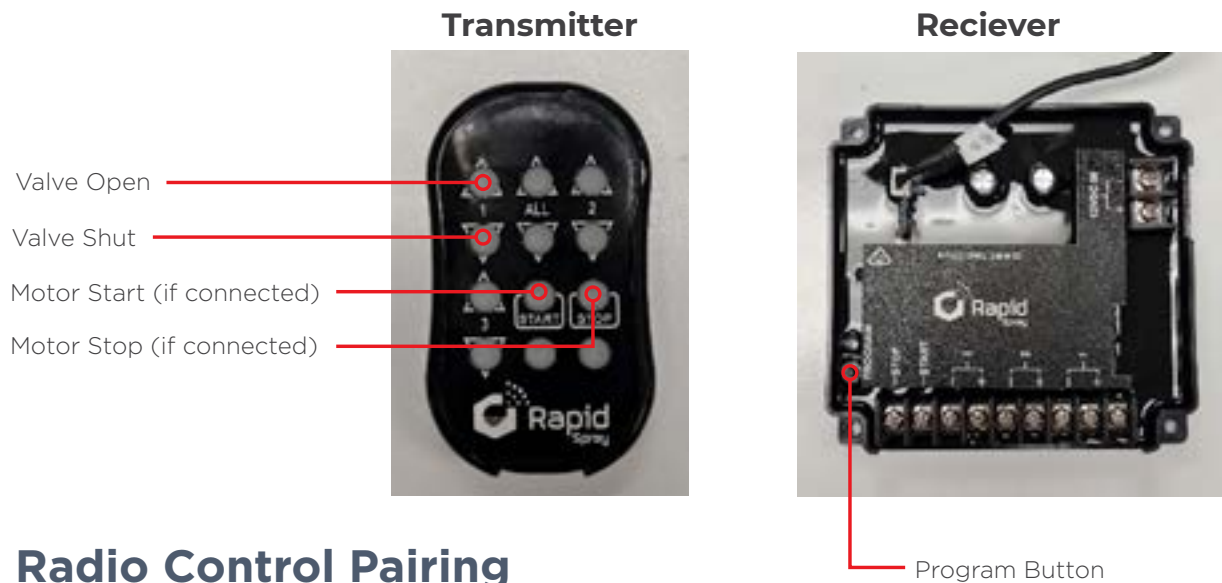
Standpipe Filling

1. Open manhole/top fill lid.
2. Fill to desired level.
3. Close manhole/top fill lid.



Operating Your DSU System

Spray Bar Operation



Radio Control Pairing

Programming Instructions

1. Locate the pushbutton labeled "PROGRAM" on the receiver.
2. Press and hold this button until the red LED next to the program button illuminates (approximately 3 seconds). The receiver is now in the transmitter program mode. Release the button (at this point all previously programmed transmitter addresses are erased from the receiver's memory).
3. While the red LED light is illuminated, press one of the buttons on the transmitter to allow them to 'pair'.
4. After 5-seconds of no switch being pressed on the transmitter(s) the receiver will return to normal operation. The red LED on the receiver will blink rapidly, then extinguish. The receiver is now in the normal mode of operation. This completes the programming instructions. The receiver will retain all of its programming even when the power is removed.

Maintenance

Regularly check the tank-to-frame connections are secure and no sign of wear or cracking. Replace any bolts and nuts of bent or worn.

Regularly check hoses, nozzles, and fittings for any sign of wear. Replace any parts which are worn or defective.

Check oil level in motor & replace oil according to manufacturer's recommendations.

Periodically check hose clamps and connections.

