



MINI DESILTER

OPERATORS QUICK REFERENCE SAFETY GUIDE (OQRSG) & METHOD STATEMENT FOR USE



MINI DESILTER



Always read the Operation & Maintenance manual fully & carry out a site specific risk assessment before using this Mini Desilter.

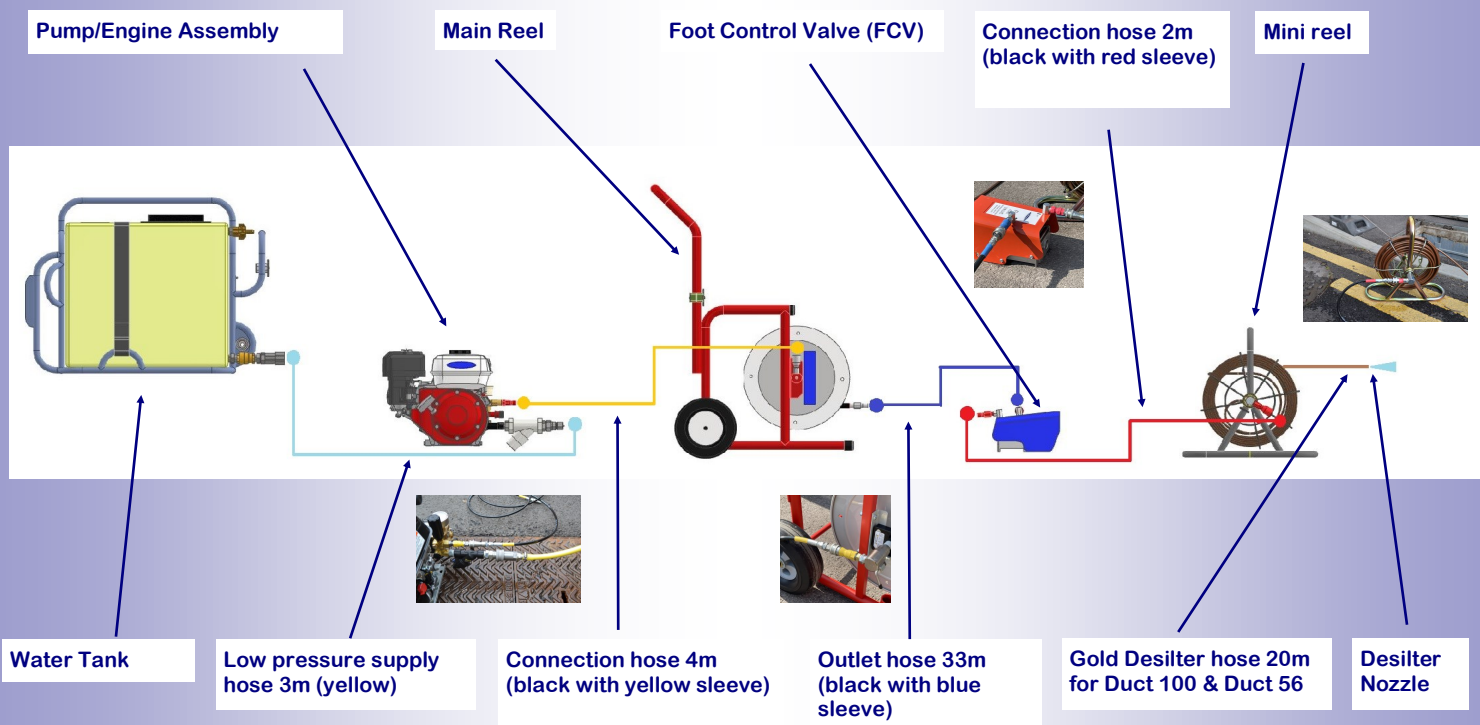
This is the PPE you need to wear



Suitable for use in Duct 100 & Duct 56 only
Do not use in larger ducts.

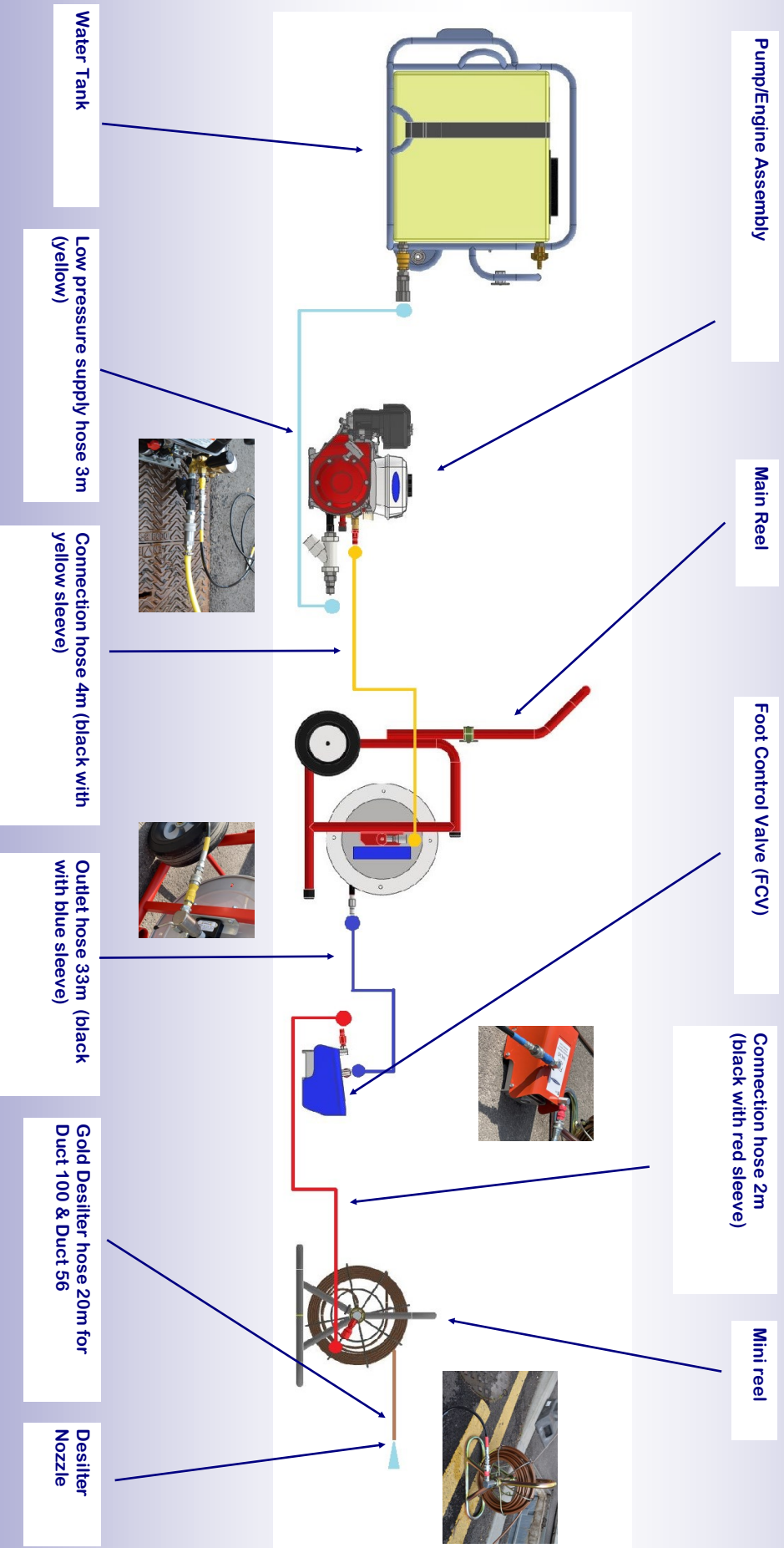


Setting up the Mini Desilter



1. Remove the pump/engine unit from the hose reel assembly
2. Remove the hose reel assembly from the vehicle and place near the pump/engine in a safe and stable position near the rear of the vehicle
3. Carry out the daily checks as per the list
4. Fill the water tank and connect the supply hose from the tank to the pump inlet. Open the tank valve
5. REMOVE AIR FROM THE PUMP - With the Run/Stop switch set to STOP use the pull cord to turn the engine over until water comes from the yellow pressure outlet
6. Connect up all hoses as per the diagram above
7. Tightly wrap a band of coloured adhesive tape around the Gold desilter hose, 500mm from the nozzle, to alert operators that Desilter nozzle is near the duct entrance
8. Check Desilter nozzle holes are not blocked. Use the unblocking tool if necessary. If necessary the nozzle can be removed using a soft jaw tool or spanner
9. Reel off just enough Gold desilter hose to allow entry into the duct . Do not create a trip hazard with loose hose.
10. Place the Desilter nozzle into the duct and manually push it in by at least 500mm

Setting Up For Work



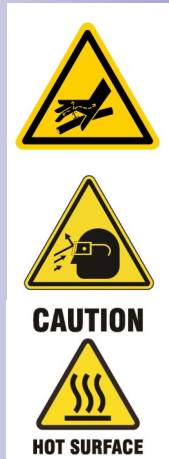
Starting the Mini Desilter

1. In freezing conditions check the pump is not frozen before starting. Ice pellets can be ejected at high speed and can cause serious injury and also damage the pump
2. Set the Run/Stop switch on the engine to Run
3. Open the fuel shut-off valve and adjust the choke as required
4. Set the throttle to 1/2 full speed
5. Wind the pressure control valve in 3-4 turns
6. Make sure that you are wearing the correct PPE
7. Start the engine using the pull cord and adjust the speed to approximately $\frac{3}{4}$ full speed
8. Check the Desilter nozzle is safely inside the duct. Press the foot control valve to begin the desilting process
9. If more/less pressure is required wind the pressure control valve in for higher pressure and out for lower pressure



Using the Mini Desilter

1. Slowly feed the Gold Desilter hose into the duct. Clean short lengths at a time
2. Clean a 1m section and pull the hose back to within 500mm of the duct entrance and allow the silt to wash out into the pit
3. Take care never to allow the desilt nozzle to exit the duct entrance when under pressure. High pressure jets can cause serious injection injuries
4. Continue this process, slowly cleaning longer distances, until the duct length is clean
5. Take care when the Desilter nozzle exits the far end of the duct. High pressure spray and debris may be ejected. A suitable cover should be placed over the end of the duct to avoid injury to people or damage to vulnerable equipment
6. With the Desilter nozzle still in the duct mouth release the foot control valve, close the throttle, set the Run/Stop switch on the engine to Stop, close the fuel shut-off valve and wind out the pressure control valve until loose
7. DE-PRESSURISE the system by pressing the foot control valve until no water leaves the jet nozzle.
8. Withdraw the Desilter hose, uncouple all hoses and stow equipment safely. Take care as the engine exhaust will be hot



Contact us at sales@flowplant.com for details on our Desilter units

Mini Desilter Components & their Use

Water Tank Assembly	The water tank assembly has a 140 litre capacity which is enough for up to 15 minutes of full power desilting. The water tank has straps to secure it in the vehicle. The Hose reel assembly is securely strapped to the water tank for safe transport
Low pressure supply Hose (All Yellow)	3.0m long for connecting the water tank to the pump unit
Pump & Engine Assembly	The high pressure pump and petrol engine assembly has a pull start and carrying handle. It is clipped on top of the hose reel for transport and can be easily removed for lifting and operation
Connection Hose (Yellow Sleeve)	4m long for connecting the pump unit to the main reel
Main Reel	The main hose reel stores the black hose (blue sleeve) which connects to the foot the control valve.
Outlet Hose (Blue sleeve)	Stored on the main reel it is 33m long for connecting the main reel to the inlet of the foot control valve
Foot Control Valve	Allows the operator to safely start and stop the high pressure desilting jet flow
Connection Hose (Red Sleeve)	2m long for connecting the foot control valve unit to the hose mini reel assembly
Mini Reel	A live centre hose reel that safely stores up to 20m of Gold Desilter hose. Ideal for cleaning Duct 100 & 56.
Desilter Hose (Gold) & Nozzle	Stored on the Mini reel an extremely flexible 20m high pressure hose capable of travelling around tight bends in small bore ducts. Fitted with a 3r1f cleaning nozzle for unblocking and cleaning
Jet Cleaning Tool	A set of small needle files used for unblocking the holes in the Desilter jets

Daily Maintenance Checks

Engine Oil Level	Check the engine oil every day before operating. Low oil level can seriously damage the engine
Pump Oil Level	Check the pump oil every day before operating. Low oil level can seriously damage the pump
Fuel Level	Check that the petrol tank is full. Low fuel level makes the engine difficult to start
Water Filter	Check and clean the water filter to avoid damaging the pump
Hose condition	Check hoses and fittings for abrasion and cuts. If outer casing is damaged the hose must be replaced
Nuts and Bolts	Check all nuts and bolts are tight
Desilter Nozzle	Check that all the Desilter jet holes are clear. Use the needle file to clear if necessary



Refer to the operator & maintenance manual for full maintenance details

PPE (subject to site risk assessment)



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Site Set Up & Signals



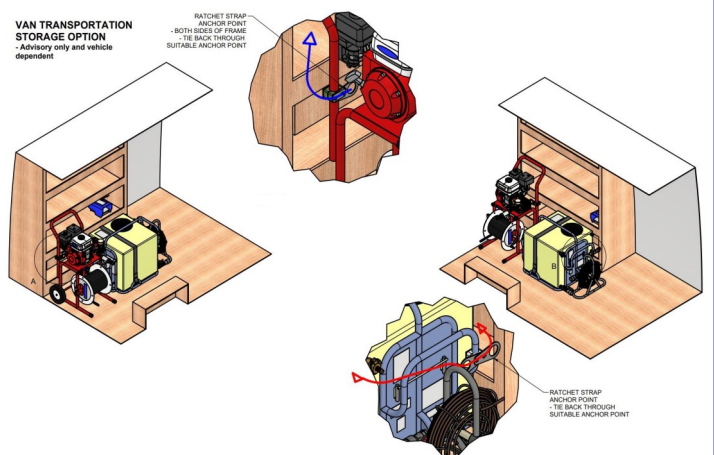
1. Barriers and warning signs to be in place around the working area prior to beginning the desilting process, as required by the risk assessment and method statement
2. Agree a suitable set of hand signals with co-workers prior to operating the Mini Desilter
3. Prevent unauthorised persons entering the working area

Servicing & Spares

1. Servicing this equipment must be carried out by competent persons
2. Only genuine manufacturers spare parts should be used. Use of alternative parts could lead to premature failure or even injury
3. Always check the operator and maintenance manual for full service schedules
4. Full spares information can be found at https://www.flowplant.com/wp-content/uploads/2022/04/Mini-Desilter_Parts-List_002-220_2.pdf

Strapping Down

1. During transport the pump/motor unit must be stowed on the hose reel frame. The frame is then secured by passing a ratchet strap through the anchor points and back to the van latching point.
2. The tank unit can be secured separately by passing a ratchet strap through the tank anchor points and back to the van latching point.
3. Do not allow the pump/motor unit to topple over during transport as damage will occur and petrol may spill into the van.



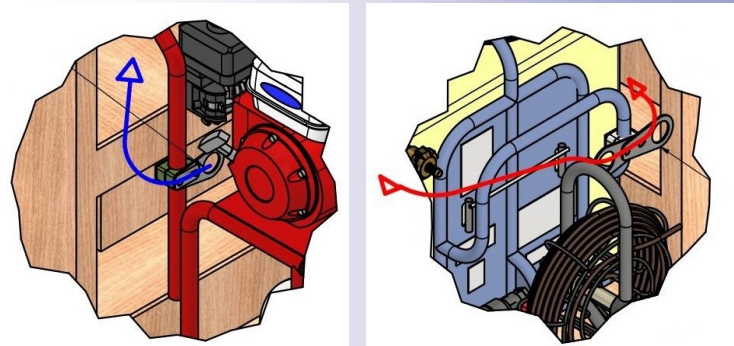
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Trouble Shooting

Engine wont start

Low fuel level
Fuel shut off valve closed
Engine flooded with fuel - too much choke?
Run/Stop switch set to STOP

No pressure at the Desilter nozzle

Pump not air bled. See section on Setting Up
Blocked water filter
Tank shut off valve closed
Not enough water in the tank
Desilter nozzle completely blocked
Worn pump seals

Pressure rises and falls rapidly with foot control valve pressed

Desilter nozzle holes partially blocked
Hoses partially blocked

Pressure hoses vibrate severely

Blocked water filter
Not enough water in the tank

Hose quick release couplings tight

Pressure trapped in hoses - see section on Using the Mini Desilter to release pressure safely

Water leaking from around the pump

Loose fittings
Frozen pump
Worn seals

Pull cord jammed/difficult to pull

Pump could be frozen
Engine seized from lack of oil

Watch the Flowplant Mini Desilter Operational video by following this QR code



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