DEOIL3 & DEOIL5 Air Hydrocyclone Oil Separator





Installation, Operations & Maintenance Manual

\$ 1800 353 788

Melbourne - Perth - Brisbane - Adelaide info@cleanawater.com.au cleanawater.com.au





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COMPANY INFORMATION

Water Sustainability is a key to our economic and environmental future

As one of Australia's leading providers of water treatment and recycling solutions; Cleanawater is committed to building a sustainable future.

Since 1996 our technologies have been helping businesses achieve cleaner water solutions that are both cost effective and authority and regulatory compliant.

Cleanawater is a 100% Australian owned and operated water technology company that has been providing water treatment and recycling solutions throughout Australiasia for over 17 years. Our manufacturing and research and development centre are based out of our head office in Thomastown, Victoria, with offices located in Brisbane, Perth and Adelaide.

Our product range includes:

- Largest Range of Oil Water Separators Coalescing, VGS, Hydrocyclone and Induced Cyclonic Separators
- Water Recycling Systems
- First Flush Diversion / Stormwater Management Systems
- Rainwater Harvesting Systems
- AQIS Treatment Systems
- Packaged Pumping Stations
- pH & Chemical Control Systems
- Oil Skimmers floating oil skimmers / belt oil skimmers



Sustainability

As an industry leader in water sustainability technology we design systems that require minimal power consumption, consumables and reliance on chemical use whilst not compromising system design life and performance.



Our Core Beliefs

Innovation

As a multiple award winning technology company we are committed to ongoing research and development, continuously striving to improve and to deliver industry leading solutions that are cost effective



Service

We provide a one-stop, holistic service that includes the design, manufacturing, installation and servicing of our solutions, backed up with our 24 hours per day technical support hotline, fast efficient equipment delivery and after sales support.





PARTS INCLUSION LIST

Your package should include the following items. Please check these items off as received. If any items are missing please contact Cleanawater on 1800 353 788.

Note: If your package is a non-standard package additional/other items may be included in your package.

ltem		Qty	Included
Oil Separator &	Your package comes pre plumbed and pre wired and includes the		(1/1)
Components	following items:		
•	Hot Dipped Galvanized Skid 1169mm L x 1169mm W (factory fitted)	1	
	Deoiling Hydrocyclone Oil Separator (factory fitted) DEOIL3 = 1,	1 OR 2	
	DEOIL5 = 2		
	Debris Strainer (factory fitted)	1	
	Waste Oil Decant Tank – 650 litre (factory fitted)	1	
	Floating Oil Skimmer and 6 meters flexible suction hose	1	
	Installation, Operations and Maintenance manual	1	
Oil Separator Feed	RAN / ARO Air Double Diaphragm Feed Pump (note other models	1	
Pump(s)	may be included based on availability – refer to your pump manual		
	attached for model information)		
Controls	Pneumatic Float Switch with pump start / stop levels	1	
	Pneumatic Air Control Enclosure with all air control requirements	1	
	Refer to pneumatic diagram for all function information		
Optional Extras	Other items may be included in your package based on your specific		
	site requirements, refer to your packing slip or contact Cleanawater		
	on 1800 353 788 for confirmation.		





PRODUCT INFORMATION



Cleanawater Hydrocyclone oil separators operate on the process where wastewater enters the cyclone chamber and is spun under extreme centrifugal forces up to 1000 times the force of gravity.

The heavier water phase is forced outward towards the cyclone wall where the lighter oil phase migrates towards the centre core.

The separated oil is discharged from one end of the cyclone where treated water is discharged through the opposite end for further treatment, filtration or discharge.

Solids hydrocyclones are often coupled with deoiling hydrocyclones to also remove suspended solids from waste water which allow them to be recycled water adaptable and to adhere to strict discharge specifications.

Hydrocyclone oil separators are a proven oil water separation method with a history of use in oil and gas industries and industrial water treatment applications.





Commonly Used in Commercial and Industrial Applications including but not limited to:

- Mining Workshops
- Mining LV/HV Wash Down Bays
- Wash Down Bays
- Industrial & Mechanical Workshops
- Service Stations
- Refuelling Areas
- Contaminated Stormwater Runoff
- Manual and Automatic Car Washes
- Oil Spill Control
- Refineries
- Food and Beverage Plants
- Transformer Bunds

Effluent standards for the Cleanawater DEOILER oil water separators adhere to the WSAA Product Specification WSA PS 810, Separator Systems for Light Liquids as listed below.

a.	Total Grease	50 mg/L
b.	Petroleum Hydrocarbons including BTEX	10mg/L
C.	Benzene	0.1mg/L
d.	Suspended Solids	200mg/L
e.	Flammability	< 5% LEL (hexane) at 25 ^o C
f.	рН	7-10

Note:

- Quick break and bio degradable detergents and degreasers should be used in conjunction with the system.
- Holding pit capacity should match the hourly throughput of the oil separator system.
- Any solvent based liquids or emulsifiers should be avoided, these may affect the efficiency of the unit performance.
- DEOILER oil separators are designed to remove free oils and grease and hydrocarbons, emulsified and dissolved hydrocarbons may require additional treatment
- Total suspended solids discharge based on historical test results via a 3mm debris strainer





SYSTEM SPECIFICATIONS

Refer to your specification plate for confirmation on your system model. Your system comes complete with major components listed in the following specifications below.













ITEM	SPECIFICATION
Manufacturer	Cleanawater
Model	DEOIL 3 Air
Construction Material - Skid	Galvanised Mild Steel
Construction Material - Debris Strainer	316 Stainless Steel
Construction Material - Hydrocyclone	316 Stainless Steel
Construction Material - Hydrocyclone Sleeve	316 Stainless Steel
Construction Material - Waste Oil Decant Tank	Polyethylene 10mm wall thickne
Nominal Flow Rate	3,000 litres per hour
Hydrocyclone Waste Oil Reject Ratio %	5-9%
Nominal Hydrocyclone Outlet Pressure	~170 kPa
Untreated Water Inlet	DN50
Pump Inlet	DN50
Hydrocyclone Inlet/Pump Outlet	DN40
Waste Oil Reject Outlet/Decant Tank Inlet	DN25
Hydrocyclone Treated Water Outlet	DN25
Waste Oil Drain Outlet	DN50
Waste Oil Return Outlet	DN50
Sampling Points	1/2" BSP
Debris Strainer Aperture	3mm
Dry Weight	185 kg
Operating Weight	715 kg
Pump Type	Double Diaphragm
Air Requirements	7 bar Air Pressure, 10 l/s

















MASTOWN, VIC 3074-1800 353 788

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DEOIL 5_AIR_Gen_Arr



ITEM	SPECIFIC ATION
Manufacturer	Cleanawater
Model	DEOIL 5 Air
Construction Material - Skid	Galvanised Mild Steel
Construction Material - Debris Strainer	316 Stainless Steel
Construction Material - Hydrocyclone	316 Stainless Steel
Construction Material - Hydrocyclone Sleeve	316 Stainless Steel
Construction Material - Waste Oil Decant Tank	Polyethylene 10mm wall thickne
Nominal Flow Rate	5,000 litres per hour
Hydrocyclone Waste Oil Reject Ratio %	5-9%
Nominal Hydrocyclone Outlet Pressure	~170 kPa
Untreated Water Inlet	DN50
Pump Inlet	DN50
Hydrocyclone Inlet/Pump Outlet	DN40
Waste Oil Reject Outlet/Decant Tank Inlet	DN25
Hydrocyclone Treated Water Outlet	DN25
Waste Oil Drain Outlet	DN50
Waste Oil Return Outlet	DN50
Sampling Points	1/2" BSP
Debris Strainer Aperture	3mm
Dry Weight	205 kg
Operating Weight	745 kg
Pump Type	Double Diaphragm
Air Requirements	6.5 bar Air Pressure, 8 l/s































TYPICAL INSTALLATION SCHEMATIC

Cleanawater DEOIL hydrocyclone systems are factory assembled with minimal site connections to be made onsite. Check with local authorities prior to installation of any pre-treatment device.



















INSTALLATION INSTRUCTIONS

ALL PLUMBING MUST BE INSTALLED IN ACCORDANCE WITH AS/NZ 3500

Systems come supplied as skid mounted units with all plumbing connections within the skid perimeter completed and factory commissioned. This reduces installation time and associated costs.

*-Note: At installation stage, all plumbing works must be completed by a licensed plumber. If electrical works are required to be completed they must be completed by an electrician with relevant certifications.

Local water authorities should be contacted prior to installation to ensure local requirements have been met.

INSTALLATION PROCEDURES

STEP 1 – PREPARE AREA FOR INSTALLATION

Locate the oil separator in its operating position with sufficient service access clearance and the ability to operate and service accordingly.

STEP 2 – SETTING UP

Place unit on a solid and even base. A level concrete slab is preferred. If the slab is uneven it is preferable to cement slurry the surface and set the skid into the wet cement.

STEP 3 – SETTING UP

If it is required to tie down or fix the skid to a surface locate an adequate fixing points on the skid base. For corrosive environments use galvanized fixing materials only. Ensure that your foundation has sufficient strength to support the mass of the unit. Refer to the specifications for operating weight of the system.

STEP 4 – CHECK FOR A LEVEL SURFACE

Ensure that the unit is level within 50 mm on both axes.

STEP 5 – INSTALL FLOATING OIL SKIMMER TO SUMP





Floating oil skimmers are designed to float on the surface of the sump. Attach supplied flexible suction hose to oil skimmer outlet. This comes factory fitted with male to female threads for easy connection.

STEP 6 – INSTALL FLOATING OIL SKIMMER TO SUMP

Place skimmer in sump allowing enough hose slack to enable the skimmer to float unobstructed on the sump surface. Ensure factory fitted hose float is approximately 1m from the floating skimmer, this will provide stability for the floating system.

NOTE: CONFINED SPACE ENTRY PERMITS MAY BE REQUIRED TO COMPLETE THIS WORK.

STEP 7 – INSTALL FLOATING OIL SKIMMER TO SUMP

Connect loose end of floating skimmer hose to Inlet at oil separator skid location. Check connections to ensure they are tight.

Note: Flexible suction hose may be cut if excess hose has been supplied.

STEP 8 – INSTALL FLOATING OIL SKIMMER TO SUMP

Observe floating skimmer operating level and adjust skimmer funnel level handle clockwise/anti clockwise to suit ensuring the funnel is submersed 20-30mm under the water level. Check for any obstructions and clear accordingly. Note: Trash or obstructions should be removed to avoid damaging pumps and/or hoses.

STEP 9 – COMPLETE PLUMBING CONNECTIONS

Refer to the typical schematic drawings located in this manual to complete remaining plumbing connections. Typical remaining connections are as follows:

- Waste Oil Decant Tank Reject return to sump with sufficient gravity fall
- Separator Outlet –Discharge point

*- Refer to specification sheet for unit inlet/outlet sizes, check the manufacturer data sheet for pump inlet and minimum diameter piping requirements to ensure pump warranty is not voided.

*- Note: Ensure local piping material standards have been met, any connections to sewer must be completed by a licensed plumber.





* - Note: When system is operating if floating skimmer is bouncing on surface then pulsation dampeners may be required to be installed to suction and discharge lines.

STEP 10 – PUMP PRIME & FILL WASTE OIL DECANT TANK WITH FRESH WATER

Complete the pump priming process in accordance with the attached manufacturer pump manual information. Fill waste oil decant tank on installation to ensure the decant tank is ready for immediate operation. NOTE: FAILING TO PRIME THE PUMP ON FIRST START MAY VOID PUMP WARRANTY.

STEP 11 – COMPLETE PLUMBING CONNECTIONS – DISCHARGE LINE

Plumb the oil separator outlet to discharge source. Barrel unions in the pipe to aid in servicing is recommended. All discharge pipework must be in accordance with local regulations including any sampling points and tundishes. Check your local plumbing regulations for pipe work requirements.

STEP 12 – CHECK PLUMBING CONNECTIONS – WASTE OIL DECANT TANK

Open inspection hatches to waste oil decant tank and ensure all internal factory fitted pipework has not been damaged and all pipework and fittings are tight.

STEP 13 - COMPRESSED AIR CONNECTION

Refer to the installation diagram attached to this manual and connect compressed air source to pneumatic control box. 10mm main airline connection is required. Ensure your air compressor is of adequate capacity to ensure the system will run correctly.

STEP 14 – INSTALL PNUEMATIC FLOAT SWITCH TO SUMP / TANK

Fasten float switch box to sump side wall and set activation levels. Stainless steel rods have been supplied with your package. In accordance with the diagram attached to this manual and the depth and capacity of your sump/tank cut each rod to size to suit your application. Note: If using hand tools be sure to use adequate PPE protection.

Supplied float switches are to switch the pump/on automatically. Care is to be taken to ensure that the float travel is not impeded in any way. The pumping range (switch on point) should be set approximately 500mm from the (switch off point). This can be increased depending on the collection pit storage size.

For service and maintenance it is advised this box not be submersed in water in case of system failure. Refer to supplied diagram at all times.





STEP 15 - COMPLETE PNEUMATIC CONNECTIONS - FLOAT SWITCHES

Connect pneumatic connections from float switch box to main pneumatic control box located on skid in accordance with attached diagram in this manual. 6mm pilot air line connections are required.

Before switching on the system ensure the shut off valve within the pneumatic box is in the CLOSED position. Refer to supplied connection diagram at all times.

STEP 16 - COMPLETE BOOTUP SEQUENCE PROCEDURES

- Revisit all 15 installation steps listed above are completed
- Ensure pump is primed prior to start up
- If water is in the sump, switch the shutoff valve in the pneumatic box to the OPEN position
- Check filter regulator reading and ensure reading is set to (DEOIL 3 7 bar) or (DEOIL5 6.5 bar)
- Allow water to be pumped from the sump through the system and complete checks listed in the following points
- Check pressure of debris strainer is within the green zone
- Check hydrocyclone underflow pressure is reading 170 kPa when pump is running
- Check waste oil decant pressure is at zero
- Check floating skimmer is buoyant, funnel is submersed and is not obstructed from floating on the surface
- Check floating skimmer is not violently bouncing on the surface of the sump
- Check sampling points are in the closed position
- Check to ensure waste oil decant return line valve is in the open position
- Check to ensure waste oil decant tank drain is in the closed position
- Check to ensure filter drain manual valve is in the closed position
- Check to confirm that reject is filling the waste oil decant tank
- Check to confirm water is flowing into the cyclone via sampling point
- Check to confirm that treated water is flowing out of the outlet via sampling point

STEP 17 – YOU ARE COMPLETE

Refer to operations and maintenance manual to ensure periodic maintenance on the system is completed.





FINAL INSTALLATION CHECKLIST

Refer to the checklist below to ensure your Cleanawater DEOILER oil separator has been setup correctly.

Note: This layout refers to a typical installation only. You may have specific installation instructions provided due to an alternate layout or additional equipment installed for your waste water treatment solution.

Contact Cleanawater on 1800 353 788 for any questions related to installation and or operation of the system.

ITEM	DESCRIPTION	CHECKED
		(Y/N)
Placement	Unit is installed on flat ground	
	Unit has been fixed to floor surface	
	The system has adequate service access	
Connections -	 Plumbing connections are completed with all barrel unions tightened 	
Plumbing	including:	
	 Sump/Tank/Skimmer outlet pump line to skid is connected 	
	Waste oil decant tank reject line back to sump is connected	
	Check all factory connections between components which may have	
	become loose in transit including inside waste oil decant tank	
	Oil separator outlet to discharge source is connected	
	Pumps are primed in accordance with manufacturer instructions	
Connections –	Float switches set at correct on/off heights	
Pneumatic		
	 Control panel is mounted and easily accessible 	
	 Control panel is plugged into main compressor air supply 	
	 Pump and control floats are connected back to control panel 	
	 Pump control panel has air source connected and filter regulator is 	
	constantly reading (DEOIL 3 - 7 bar) or (DEOIL5 – 6.5 bar)	
Oil Separator	Pressure gauges are tightly fitted to liner sleeve	
operation		
	Debris strainer vacuum gauge reading is reading in the green safe zone	
	 Underflow pressure to hydrocyclone is adjusted via gate valve to 170kPa 	
	Floating skimmer and float switches are operating without obstruction	
	Waste oil decant tank is filled with fresh water	
	Oily water is entering the waste oil decant tank	
	Treated water is exiting through the treated water outlet	





OPERATIONS & MAINTENANCE GUIDE

OPERATIONS

Once the unit is entered into operation, it is an automated process activated by the float switch in the collection pit which controls water throughput the oil separator; discharge from the oil separator is via gravity into sewer/discharge tank or to the next stage of treatment. Pump tanks if pumping to a discharge source can be supplied on request.

Maintenance is to be routinely completed to ensure that the system is operating to its designed efficiency.

Major components as follows should be checked during operational mode as listed below:

Operational Checkpoints - Air supply

- Air supply is constant with filter regulator reading (DEOIL 3 7 bar) or (DEOIL5 6.5 bar)
- All air connections are tight and float level triggers are operational

Operational Checkpoints - Floating Oil Skimmer

- The skimmer is buoyant on all axis and the funnel is fully submersed below the water level
- The skimmer is not violently bouncing on the surface when the pump is operating
- The connection to the flexible suction line is tight
- The hose float is approximately 1m from the skimmer head
- Any debris is clear from the skimmer funnel
- There are no obstructions in the pit to cause the skimmer to snag

Operational Checkpoints - Debris Strainer

- The vacuum gauge reading is within normal operating limits (green zone)
- The inlet and outlet connections are tight and no water leaks are present
- Water flow is passing through to the oil separator





Operational Checkpoints - Hydrocyclone Oil Separator

- The gauge reading on the cyclone under flow path is adjusted and within normal operating limits
- Waste oil reject pressure reading is at zero
- No water leaks are present at any connection points
- All connections are tight with sampling points closed
- When completing maintenance the hydrocylone liner is re installed correctly with all O rings in place
- Water is discharging into the waste oil decant tank
- Water is discharging via the treated water outlet

Operational Checkpoints - Waste Oil Decant Tank

- The decant tank return line valve is open allowing for flow back to pit
- Visually inspect oil levels within the decant tank and drain accordingly
- Check internal pipework condition in decant tank via inspection hatches
- Reject flow is not excessive
- Reject flow is not at a dribble or intermittent





MAINTENANCE

Refer to the exploded drawing of the hydrocyclone assembly to assist in completing maintenance. To ensure it is operating to the maximum of its efficiency the following maintenance should be completed in accordance with timelines stated in this manual, failing to complete scheduled maintenance may void warranty and affect discharge water quality:







GENERAL FORTNIGHTLY MAINTENANCE TASKS

- a) Inspect silt traps and collection pits, remove sludge as required
- b) Ensure floating skimmer (if installed) is buoyant on all axes and not obstructed in its float path
- c) Check float switches are not obstructed in pit and are switching the pump on and off correctly
- d) Check oil level accumulation in waste oil decant tank and dispose of accordingly
- e) Check debris strainer gauge reading is within the green zone, if this is within the red zone the strainer needs to be cleaned out in accordance with maintenance instructions
- f) Check waste oil decant tank for any buildup of oil, dispose of any oil in accordance with local regulations
- g) Check the pump operation, float operation and ensure it is activating when water level reaches trigger point
- h) Check condition of gate valves and check any piping for damage

QUARTERLY MAINTENANCE TASKS

(This frequency may be more frequent / infrequent based on daily usage and contaminant loads)

- a) Refer to fortnightly maintenance checklist prior to completing quarterly tasks
- b) Complete the following tasks in order as listed below
- c) Switch the system back to the on position in accordance with the information listed below in the "switching the system on post maintenance interval" section

Switching the system off for maintenance

- a) Switch the main shutoff valve to control panel to the OFF position and tag out as per site operational requirements (if applicable)
- b) Complete the operational maintenance requirements in order as listed below

Maintaining the Floating Oil Skimmer

- a) Remove skimmer from sump and check condition of floats for any damage
- b) Check skimmer funnel for any obstructions and clear accordingly
- c) Check flexible suction lines for any damage or leaks
- d) Check hose float for any damage and ensure this is securely fastened to the flexible suction hose





Maintaining the Debris Strainer

- a) Switch the system off ensuring no water is pumping through the system
- b) Open the drain valve located adjacent to the strainer to drain the internals water in the strainer
- c) Loosen clamps, remove cap from debris strainer and remove basket
- d) Rinse basket with low pressure water to clear any sludge
- e) Rinse debris strainer housing with fresh low pressure water to clear any sludge
- f) Reinstate basket strainer into housing
- g) Close the drain valve and fill strainer with fresh water
- h) Reinstate strainer cap and clamps

Maintaining the Hydrocyclone Oil Separator (refer to exploded drawing for part ID on previous pages)

- a) Clean debris strainer prior to removing cyclone from sleeve in accordance with instruction listed above
- b) Undo barrel union connecting the waste oil outlet to waste oil decant tank
- c) Undo barrel union on hydrocyclone inlet
- d) Remove cir clip (Item 4) using cir clip pliers from deoiling cyclone liner assembly (item 2)
- e) Remove cyclone liner head insert (item 12) from liner carefully by hand by pulling up
- f) Undo tri clover clamp (item 8) from near the base of the cyclone liner joining the sleeve (care is to be taken that the rubber seal is not misplaced or damaged)
- g) Place the base of the exposed cyclone liner which is out of its sleeve down by holding it vertically on a soft ground surface and place small amount of hand pressure to pop the cyclone out of the sleeve
- h) Inspect the oil discharge orifice insert (item 13) for any blockage and clear with wire pick if required
- i) Inspect the Liner head insert (item 12) for any blockage and clear with wire pick if required
- j) Inspect the cyclone upper casing assembly (item 1) and lower casing assembly (item 6) for damage or internal blockages and clear if required
- k) Inspect all O rings (item 9.10,11) for damage and replace if required
- I) Grease all O rings with rubber grease prior to reinserting cyclone back into liner assembly
- m) Reinsert **Oil Discharge Orifice Insert (item 13)** into **Cyclone liner head insert (item 12)** ensuring they sit flush when slotted back into place
- n) Tighten set screw (item 5) inside of cyclone liner head insert (item 12) to hold Oil discharge orifice insert (item 13) in situ
- o) Insert cyclone liner head insert (item 12) into the deoiling cyclone liner assembly (item 2)





- p) Inspect seal on O rings (item 9, 10, 11) for wear or damage and ensure they are greased
- q) Insert assembled deoiling cyclone liner assembly (item 2) into cyclone upper lining assembly (item 1)
- r) Fit cyclone top cap washer (item 3) into cyclone upper lining (item 1)
- s) Using cir clip pliers install cir clip (item 4) into cyclone upper casing assembly (item 1) to hold cyclone liner head insert (item 12) in situ
- t) Apply rubber grease to **compression gasket triclover (item 7)**
- u) Sit compression gasket triclover (item 7) onto triclover fitting of cyclone lower casing assembly (item 7)
- v) Fit assembled hydrocyclone in cyclone upper casing assembly (item 1) onto triclover gasket onto cyclone lower casing assembly (item 7)
- w) Install triclover clamp (item 8) to hold in cyclone upper casing assembly (item 1) and cyclone lower casing assembly (item 7) together and tighten triclover clamp (item 8)
- x) Reconnect and tighten connection to waste oil decant tank line, ensure o ring is inserted
- y) Reconnect and tighten connection to hydrocyclone inlet line to sleeve

Maintaining the Waste Oil Decant Tank

- a) Inspect levels of waste oil in decant tank and have oil sucked out of tank by authorized waste oil removal contractor
- b) Open service drain at the base of the waste oil decant tank and drain all water back to the pit
- c) Rinse tank walls with fresh water, refill tank with fresh water and inspect condition of internal plumbing
- d) Close service drain to decant tank
- e) Inspect external tank walls and inspection hatches for damage

Switching the system on post maintenance interval

- a) If any operational concerns or questions arise or spares need to be ordered whilst completing maintenance contact Cleanawater on 1800 353 788 prior to entering the system back into operation
- b) Switch the main shutoff valve in the control panel to the ON position
- c) Check filter regulator reading is set to (DEOIL 3 7 bar) or (DEOIL5 6.5 bar) and this reading is constant
- d) Check waste oil decant tank is slowly refilling with waste oil water reject when the pump is operating and pumping fluid
- e) Check that debris strainer gauge is reading within green safe zone range
- f) Check that manual drain valves where applicable are returned to the closed position
- g) Check the waste oil drain line service valve is in the closed position





h) The system is now back in normal operation

ANNUAL MAINTENANCE (this may be more frequent or infrequent based on daily usage and contaminant loads)

- a) Complete fortnightly checks as per normal maintenance recommendation
- b) Complete quarterly maintenance as per schedule
- c) Check pump component condition in accordance with manufacturer recommendations
- d) Check condition of all system components
- e) Check and retighten all connections as tighten as required

SERVICING HELPDESK

Cleanawater provide master care programmed scheduled service packages on request.

If you prefer for Cleanawater to maintain your treatment system or have any servicing related questions helpdesk engineers are available to take your call 24 hours per day, 7 days per week:

Business Hours Telephone :	1800 353 788
After Hours Telephone (and weekends)	+ 61 3 9188 3679
Email:	service@cleanawater.com.au





WARRANTY TERMS

Pump & Pneumatic Component Warranty

Manufacturer's warranty is 12 months from the date of sale unless specified.

Oil Separator, Oil Skimmer and Stainless Steel Component Warranty

The Cleanawater deoiler system is supplied with a 5 year perforation warranty period. Fitted skid mounted components may include 304 and/or 316 stainless steel components ideally suited for non-corrosive environments.

If any corrosive elements exist contact Cleanawater to discuss required upgrades.

Waste Oil Decant Tank

Manufacturer's warranty is 5 years from the date of sale unless specified. Waste oil tank is UV stabilized to allow for installation in external environments.

Other components

All other components supplied with the oil separator are sold with a 12 month warranty from the date of sale unless specified.

Compliance Plates

Each Cleanawater oil separator has an identification plate, attached to the outside of the supplied control panel side wall. Plate material is aluminium foil with overall dimensions of 120mm x 50mm.

C cleanawater		
CLEANAWATER DEOILER OIL WATER SEPARATOR		
MODEL:		
SERIAL NO:		
MANUFACTURE DATE:		
NOMINAL FLOW RATE:		
PUMP TYPE:		
AUTHORITY APPROVAL NO:		
HEAD OFFICE : 40 LATITUDE BOULEVARD THOMA STOWN VIC 3074 PHONE: 1800 353 788 CLEANAWATER.COM.AU		





TROUBLESHOOTING GUIDE

SYMPTOM/CAUSE	PLAN OF ACTION	
WATER IS NOT FLOWING OR LOW FLOW OUT OF OIL SEPARATOR OUTLET / WASTE OIL OUTLET LINE		
Pump is not running	 Check that main air supply is connected and switched on Check that the pneumatic controller main valve switch is not closed Refer to the supplied connection diagram that pump connections to the controller are correct 	
Suction line / floating skimmer is obstructed	 Check pump suction line for obstructions causing blockage Flush suction line with water to remove blockage Inspect suction lines for air ingression/cracks and change if required Check foot valve/skimmer for obstructions Check suction line/skimmer is not submersed in sludge build up Check skimmer funnel is submersed in water and not pumping air 	
Pump has lost prime	 Prime pump chamber in accordance with manufacturer's instructions Check foot valve / skimmer for obstructions Float switch working level requires adjustment and is set too low. Reset the float level off level to be above the base of the suction line 	
Pump component is damaged	 Pump diaphragm or rotor stator may be worn or split, this will cause non suction although you will hear the pump motor running, contact Cleanawater or the pump manufacturer for pump spares 	
Inadequate water level in the sump	 Water level in the sump has not triggered the working float switch to start the pump, check float is working correctly by pulling up rods on each float and look for pump actuation Float switch working level requires adjustment and is set too low. Reset the float level off level to be above the base of the suction line (if skimmer is not present) 	
Float switch connections	 Check all pneumatic connections to/from the float to the air control box Check main air supply to system 	





Outlet / Orifice blockage or pressure adjustment	 Check waste oil reject orifice in accordance with maintenance manual (system shut down procedure is to be completed to check this item) Ensure treated water outlet valve is adjusted correctly 	
LOW / HIGH / ERRATIC WATER FLOW THROUGH SYSTEM		
Check pump operation to ensure pump is switching on/off correctly.	 Refer to the maintenance information guide and clean the debris strainer immediately (the system requires shut down to complete this action) Probe pit for sludge levels and dispose of accumulated sludge accordingly Check pit for floating debris and obstructions 	
Suction Line is obstructed	 Check pump suction line for obstructions causing blockage Flush suction line with water to remove blockage Inspect suction lines for air ingression/cracks and change if required Check foot valve/skimmer for obstructions Check suction line/skimmer is not submersed in sludge build up Check skimmer funnel is submersed in water and not pumping air 	
Pump flow is low	 Strainer is blocked causing low flow rate to process through the system, clear accordingly Air regulator in main air control box is set too low and requires adjustment to increase BPM of pump Check all air supply filters for blockages, leaks or restrictions Check main air compressor supply for faults Check capacity of air compressor is suitable for application 	
Pump operation is not steady	 Strainer is blocked causing low flow rate to process through the system, clear accordingly Check suction line and floating skimmer funnel for blockages and ingression of sludge or trash Check skimmer funnel is submersed in water and not pumping air Check for leaks in system components, pay particular attention to seals, clamps, barrel unions and sampling points left in the open position 	
Pump flow is high	Air regulator in main air control box is set too high and requires adjustment to decrease BPM of pump	
PUMP IS RUNNING BUT NO WATER IS FLOWING INTO THE OIL SEPARATOR		





Dump component is domaged	 Flush suction line with water to remove blockage Inspect suction lines for air ingression/cracks and change if required Check foot valve/skimmer for obstructions Check suction line/skimmer is not submersed in sludge build up Check skimmer funnel is submersed in water and not pumping air
Pump component is damaged	 Pump diaphragm or rotor stator may be worn, this will cause non suction although you will hear the pump motor running, contact Cleanawater or the pump manufacturer for pump spares
THERE IS NO WA	TER IN THE WASTE OIL DECANT TANK
Check hydrocyclone components	 Open inlet sampling point to hydrocyclone to ascertain if water is flowing through the sleeve Check waste oil outlet orifice is not blocked Check pressure regulation valve is adjusted accordingly to enable efficient waste oil discharge Check debris strainer is operating within acceptable limits Check fixed plumbing line for internal pipe blockage Check waste oil decant tank for sludge, excessive sludge may be blocking the inlet to tank
THERE ARE HIGH AMOUNTS OF	WATER FLOWING INTO THE WASTE OIL DECANT TANK
Check hydrocyclone components	 Open inlet sampling point to hydrocyclone to ascertain if water levels of water are flowing through the sleeve Check pressure regulation valve to treated water outlet is adjusted accordingly to enable efficient waste oil discharge Check that waste oil reject assembly components are correctly fitted including reject orifice fitting and o-ring Check discharge pipework via sampling point for blockages and clear accordingly
THE SYST	EM WILL NOT SWITCH ON/OFF
No air supply to pump	 The pump air supply may have faults or the main shut off valve is closed Check main air supply and pneumatic connections to/from the main air control panel and float switch





Float switch is stuck	Check float switch levels to ensure they are not
	obstructed, flick the rods up by hand to ensure the
	pump switches on and off accordingly

THERE IS OIL PRESENT IN THE DISCHARGE

	T
Oil spill has occurred or excessive load of oil ingression	 Oil spillage event or disproportionate loads of oil is pumping through the system, attend to the spillage as soon as possible If excessive oil loads exists, contact Cleanawater for to provide you with an system upgrade kit
Contamination of waste water stream	 Ensure that quick break, biodegradable detergents and degreasers are used with the oil separator, mixture with other detergents and degreasers or other contaminants may affect the waste water stream and discharge results
Waste oil decant tank is full	Check oil levels in the waste oil decant tank, dispose of oils accordingly
Discharge blockage	 Blockage may be present in the underflow causing discharge quality problems
High pump flow	Air regulator in main air control box is set too high and requires adjustment to decrease BPM of pump
THERE IS A SMELL COMING FROM THE PIT OR THE OIL SEPARATOR SYSTEM	

Pump is not running	 Check pump operation to ensure pump is switching on/off correctly.
Sludge build up in pit or separator	 Check sump levels for build-up of sludge and have pit pumped out regularly Oil separator requires a service in accordance with operations and maintenance manual
Stagnant water	 Run fresh water into the pit to flush existing contents and run the oil separator feed pump to clear stagnant water.





CLEANAWATER TERMS & CONDITIONS

TERMS AND CONDITIONS OF TRADE

1.0 GENERAL:

- These Terms and Conditions of Trade ("Terms"):
 - apply to the sale and supply of all the goods or services by Virtus Industries Pty Ltd (ACN 142 643 981) trading as Cleanawater ("the Company") to the exclusion of all other terms and conditions whatsoever, whether contained or implied in or from 111 any order from the Customer or from any conduct of or representations made by the Customer or the Company;
 - 1.1.2 will be d emed incorporated in any order placed by the Customer;
 - will prevail over all other conditions of the 1.1.3 Customer's order to the extent of any inconsistency (except where waived by the Company in writing);
 - will not be read or applied so as to exclude, restrict or modify or have the effect of excluding, restricting or modifying any condition, warranty, guarantee, right or remedy implied by law (including the Australia Consumer Law and the Competition and Consumer Act 2010) and which by law cannot be evolved exteried or emodified 1.1.4 excluded, restricted or modified.
- 2.0 QUOTATIONS, SPECIFICATIONS AND PRICE:
- Except where the quotation is expressly designated otherwise, written quotations are valid for thirty (30) days from the date of the quotation and are subject to re-2.1 quotation thereafter.
- ubless otherwise agreed in writing, all prices quoted are inclusive of GST, delivery and other works contained in the specifications contained in the quotation. 22
- All goods offered by the Company are offered subject to stock availability at the time the Customer accepts the 23 quotation
- In the event that the Customer accepts a quotation, such 24 acceptance shall be deemed to form a contract between the Customer and the Company which incorporates these erms and the agreed specification. Customer
- If the Customer seeks any variation to quoted services or seeks to cancel the services after the Company has 2.5 accepted the Customer's order then: 2.5.1 The Company is feed to it
 - The Company is free to either accept the variation without altering the quotation price or not. If the Company does not agree to the variation, then the Company is free to terminate the contract without
 - Company is free to terminate the contract without any liability on the part of the Company. Alternatively, the Company may accept the variation sought by the Customer subject to an amendment to the price and charges in the quotation, at the Company's absolute discretion, to be agreed with the Customer prior to the Company completing further work. If no agreement is reached, then the contract shall be deemed terminated without any libility are the part of the Company 252 liability on the part of the Company. If the variation or cancellation in Clause 2.5 is sought at
- 2.6 any time after the Company has incurred labour costs, ordered or purchased materials or commenced any work in respect of the order, then the Customer shall be liable for all costs incurred by the Company notwithstanding any termination of the contract by the Company pursuant to Clause 2.5.1. The costs incurred shall be payable upon the Company providing a written demand to the Customer and any deposit held by the Company shall be forfeited for these costs.
- The price set out in the quotation is subject to change in the 27 event that the Company: 271
 - encounters any undisclosed obstructions or issues on site; or determines that practical variations to the 2.7.2 specifications are necessary, in the Company's absolute opinion, to achieve the Customer's intended use given the circumstances the
- Company finds during the course of carrying out the works. 2.8 The Customer acknowledges that the quotation does not include and the Company shall not be obliged to provide any post installation inspection or servicing of the goods sold, unless expressly required by law or these Terms. If the Customer requires such an inspection or service, then this work shall be the subject of a separate agreement between the reating of the subject of a separate agreement between the separate agreement between the subject of a separate agreement between the separate agreement between the separate agreement between the separate agreement betweement agreement between the separate agreement between the the parties.

3.0 TERMS OF PAYMENT:

- At the election of the Company and as notified to the Customer in writing, payment may be made by the Customer 3.1 as follows:
 - 3.1.1 By payment in full upon the Customer submitting an order to the Company or accepting a quotation provided by the Company; OR
 - 3.1.2 By payment of a deposit nominated by the Company By payment of a deposit nominated by the Company upon the Customer submitting an order to the Company or accepting a quotation provided by the Company with the balance to be paid by the Customer within fourteen (14) days of delivery of the goods; OR
 - By payment of a deposit nominated by the Company upon the Customer submitting an order to the 313 Company or accepting a quotation provided by the Company with the balance to be paid by the Customer on delivery of the goods; OR By payment of a deposit of 30% of the price upon the Customer submitting an order to the Company or
 - 3.1.4 accepting a quotation provided by the Company with a further 20% of the price to be paid seven (7) days prior to the scheduled date of installation for the goods and the balance of 50% the price to be paid
 - upon the commissioning of the installed goods; OR By payment pursuant to a written payment schedule 3.1.5 agreed between the Company and the Customer and attached to the quotation provided by the Company or otherwise agreed in writing between the parties
- parties. All payments are to be paid as clear funds. In the event that any payment is not received as clear funds within the time required, then the Company shall have no obligation to either commence works or proceed to the next stage of works until the date seven (7) days after such payment has been received. The Company shall provide the Customer with a Tax Invoice
- prior to seeking payment for the balance of the price. All payments must be made by cash or direct deposit to the bank account for the Company (Account Name: "Virtus 3.5 Industries Pty Ltd ABN 80 142 643 981" - BSB: 033 112 Account No. 289 006).
- 3.6 In the event that this contract comes to an end as a result of the Customer's breach of these terms or the Customer's cancellation of the order for the works without the Company's consent, the parties agree that any deposit paid shall be forfeited to the Company and the Customer shall further be liable to the Company for a cancellation fee equal to 25% of the outstanding balance of the quotation which shall be payable within 7 days of the Company issuing a written demand to the Customer. The parties agree that the total of the deposit and the cancellation fee amount to a reasonable pre-estimate of the Company's loss and damage resulting from the premature termination of this contract, but these amounts do not limit the Company's ability to er the actual loss or damage it has suffered in excess that th of that pre-estimate.
- In the event that the Customer has paid the required deposit In the event of any payments or part thereof remaining unpaid after such period of seven (7) days the Company in
 - its absolute discretion may: 3.8.1 charge interest thereon at the rate of two per cent (2%) per annum above the rate set out pursuant to Section 2 of the Penalty Interest Rates Act 1983 during the period such unpaid balance remains unpaid and such interest shall be added to the said balance due from the Customer to the Company and
 - calculated on a daily basis; and charge an account-keeping fee of \$20.00 for each reminder notice sent to the Customer by the 3.8.2 Company.
- 3.9 Notwithstanding the imposition of interest charges pursuant to this Clause, such interest charges shall not be regarded as allowing any time for payment of any amount owing but are agreed as constituting compensation payable to the Company because of delay in payment. Notwithstanding the imposition of any interest charges in respect of monies unpaid, all such monies shall remain immediately due and payable to the Company and the Company shall be entitled to take legal proceedings at any time for recovery of any monies bearing interest charges pursuant to this Clause.





- 3.10 The Customer will indemnify the Company on an indemnity basis for all losses, damages, costs and other expenses whatsoever suffered by the Company as a result of any default by the Customer, including for the recovery of any unpaid amounts due to the Company under these terms
- 3.11 The Customer agrees that all payments are to be made without retention.
- Window reemon. 3.12 In addition to the Company's other rights set out in this Clause 3, the Customer agrees that the Company shall have the right (although it shall not be bound to do so) to suspend delivery to the Customer of all or any outstanding goods, materials or services if the Customer is in default of any payment to the Company.

4.0 INSTALLATION SITE:

- 4.1 The Company will not be liable for any loss, damage or delay occasioned to the Customer arising from the delivery of the goods to the installation site by third parties or otherwise.
- 4.2 Prior to the commencement of works and the delivery of the goods, the Customer must provide clear and safe access to the installation site and any other areas required by the Company as notified to the Customer.
- 4.3 If required by the Company prior to the commencement of works, the Customer must complete all Company instructed below ground works, including excavation, plumbing and electrical specified by the Company.
 4.4 The Customer shall ensure that it, or its contractors, comply
- 4.4 The Customer shall ensure that it, or its contractors, comply with all general notes stated on location drawings or hydraulic and conduit plans supplied by the Company and to the Company's satisfaction, at its absolute discretion.
- 4.5 If the Company, in its absolute discretion, is required to move any fixtures or complete further works as a result of the Customer's failure to comply with Clauses 4.2, 4.3 or 4.4, the Company will be entitled to charge additional costs to the Customer for labour and other expenses incurred by the Company to do so and the Customer shall be solely responsible for the delays caused by such works and making good any necessary damage to the Customer's property required by such further works.
- 4.6 Following the delivery of the goods, the Customer is responsible for ensuring that the goods remain secure and in the condition in which they were delivered. The Company shall not be liable for any damage caused to the goods by the Customer failing to do so.

5.0 CUSTOMER OBLIGATIONS:

- In addition to any other Terms contained herein, the Customer must
 - 5.1.1 notify the Company of the location of all mechanical or other obstructions or issues which may affect, or be affected by, the installation works to be carried out by the Company and the Customer will be liable for, and releases the Company from, any liability for the costs of any repairs necessary as a result of damage caused by the Company due to any failure by the Customer to make such notifications;
 - 5.1.2 supply electricity and water at all times and if such is not supplied, the Company will be entitled to charge the Customer for all additional costs associated with any delay and in obtaining an alternate supply;
 - 5.1.3 obtain all necessary permits from the local municipal Council, Water Authority or any other relevant authority for the works before they are to be commenced;
 - 5.1.4 give the Company prompt and timely instructions to progress works without unreasonable delay;
 - 5.1.5 obtain all necessary insurance the Customer may require for the installation site or the goods and 5.1.6 comply with any reasonable directions given by the
 - 5.1.6 comply with any reasonable directions given by the Company and, in the event the Customer fails to do so, the Customer

and, in the event the Customer fails to do so, the Customer must indemnify the Company against any loss, claims, actions of demands suffered by the Company as a consequence of such failure.

6.0 CUSTOMER ACKNOWLEDGMENTS:

- Without limiting any other Terms, the Customer acknowledges and agrees that:
 - 6.1.1 any additional unspecified works required to be undertaken by the Company, including those listed in the exclusions and as available services, shall be

completed by the Company as a variation to the parties initial agreement and at a further cost; any anticipated delivery or completion dates given by

- 6.1.2 any anticipated delivery or completion dates given by the Company are estimates only and may be subject to change due to circumstances beyond the Company's control such as, but not limited to, weather, industrial disputes and supplier delays, and the Company will have no liability to the Customer for any such delays;
- 6.1.3 goods are deemed to acceptable to the Customer and within specification if the Customer has not notified the Company otherwise within seven (7) days of the date of delivery;
- 6.1.4 it shall release and indemnify the Company from any liability incurred by the Customer or any third party from the use of the goods by the Customer, especially with respect to the use of the goods with respect hazardous substances;
- 6.1.5 the Company has provided the Customer with anticipated design performance information only and shall not be liable for the actual performance levels of any goods, as this may be impacted by unknown or unforeseen circumstances or factors in the installation or operation of the goods within a wider system; and
- 6.1.6 the goods are delivered and installed to perform within specified parameters and maintenance requirements notified to the Customer, subject to the Customer's intended use notified to the Company on or prior to the date of this Contract. The Customer agrees to operate and maintain the goods within those parameters and the Company shall not be liable for any loss or damage which may be suffered by the Customer as a result of any breach of this Clause.
- 6.2 The Customer acknowledges and agrees that the following are expressly excluded from any quotation or specification provided by the Company:
 - 6.2.1 Arranging any required permit (including payment of permit fee); 6.2.2 Any changes required or directed by any
 - 6.2.2 Any changes required or directed by any regulatory authorities;
 6.2.3 Unanticipated costs incurred due to in ground
 - or above ground obstacles that must be overcome;
 6.2.4 The provision of power and water, at suitable
 - 6.2.4 The provision of power and water, at suitable pressure, to a location on the Customer's site;
 - 8.2.5 Any need to complete further testing of a site, including any sampling, testing and analysis of samples; and
 - 6.2.6 Any items not specifically listed in the 'Inclusions' or 'Availability of Services'.

7.0 RECOMMENDED PRICES

- 7.1 In the event that the Customer has purchased goods from the Company for resale, then the Company shall provide, and the Customer shall take note of, the Company's list of recommended prices for such goods (the Recommended Prices List). The Company, at its discretion, may update the Recommended Prices List at any time.
 7.2 The parties acknowledge that the prices stated in the
- 7.2 The parties acknowledge that the prices stated in the Recommended Prices List are recommended prices only and there is no obligation on the Customer to comply with the recommendation.
- 7.3 In the event that the Customer intends to on sell the Company's goods for a price that is more than 10% higher or lower than the recommended price stated in the then current the Recommended Prices List, then the Customer shall notify the Company of its chosen resale price within seven (7) days of it making goods available at that price. The parties acknowledge that this information is collected by the Company solely for its marketing use.

8.0 WARRANTIES AND LIABILITY:

- 8.1 Unless otherwise specified by the Company in writing, the Company grants the Customer a twelve (12) month warranty on the goods sold and on goods sold and installed (if the installation was completed by the Company) to commence on the later of the date of delivery or the date of installation.
 8.2 This warranty shall be conditional upon the Customer having
- 8.2 This warranty shall be conditional upon the Customer having installed, operated and maintained the goods within the parameters notified to the Customer, by the Company, on the delivery or installation of the goods and shall be void in the event that the Customer has not complied with the Company's parameters. In the event that the goods were installed by the





Company, then, for purposes of this Clause and subject to the Customer's compliance with Clause 4.0 and 5.0, the Company shall accept that the goods have been properly installed.

- In addition to the warranty in Clause 8.1, the only conditions 83 and warranties which are binding on the Company in respect of the state, quality or condition of the goods or installation services sold to the Customer are those imposed and required to be binding by statute (including the Australian Consumer Law and the Competition and Consumer Act 2010).
- Except as expressly provided herein, the Company shall not 84 Except as expressly provided herein, the Company shall not be liable to the Customer for any liability, (including liability in negligence) loss or damage of whatsoever nature, consequential or otherwise, howsoever suffered or incurred by the Customer, caused by or resulting directly or indirectly from
- the goods or services provided by the Company. In the event that the Customer is a consumer for the purposes of the Australia Consumer Law, the parties agree that the 8.5 following provisions will apply and override any other terms in this Clause 8.0 to the extent of any inconsistency:
 - Our goods come with guarantees that cannot be excluded under the Australian Consumer 851 Law. You are entitled to a replacement or a refund for a major failure and for compensation for any other reasonable foreseeable loss or damage. You are also entitled to have the goods repared or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.
 - 8.5.2 Should the Customer ever need to make a warranty related enquiry about the goods, the Customer must cease using the goods and contact the Company by telephone 1800 501 635 or in writing to 42 Latitude Boulevard, Thomastown, Victoria 3074 and provide the model number, copy of purchase receipt and address details where the goods are installed.
 - The Customer is responsible for the costs of returning defective goods to Company or its 8.5.3 agent, except where the goods cannot be returned, removed or transported without significant cost to the Customer because of the size, height or method of installation of the goods, or because of the nature of the defect. The benefits provided to the Customer under 854 this warranty are in addition to other rights and
 - remedies available to the Customer at law.

9.0 SECURITY FOR GOODS

- Words and phrases used in this Clause 9.0 which are defined in the Personal Property Securities Act 2009 ("Cth") ("the PPS 9.1 Act") have the same meanings as the meanings set out in that Act
- Legal ownership of goods supplied by the Company will not pass to the Customer until the Customer has paid all monies owing to the Company for those particular goods. 92
- 93 The risk in the goods (including, but not limited to, loss or damage to the goods) will pass to the Customer upon delivery of the goods by the Company to the Customer, its agent or its
- carrier. The Customer hereby grants a security interest to the Company over all goods supplied by the Company pursuant to Supplied by the Company pursuant to the 94 these Terms until the Customer has made payment of all monies owing to the Company for those particular goods and nese Terms constitute a Security Agreement for the purposes of the PPS Act
- The security interest held by the Company includes an interest 9.5 in goods that become an accession to other goods.
- Until such time as the Customer has made payment of all 9.6
 - Ontil such time as the Customer has made payment of all monies owing for goods supplied by the Company :

 9.6.1
 The Company grants the Customer a licence to use, maintain, fix or install the goods;

 9.6.2
 The Customer will not otherwise deal with the
 - goods in any way which may be adverse to the Company:
 - 9.6.3 The Customer will not charge the goods in any way nor grant or otherwise give any interest in the goods to any other person except in accordance with this Clause 9.0;
 - 9.6.4 In the event that payment has not been received within the Company's terms, the Company may give notice in writing to the Customer to return the goods or any part of them to the Company, in which event the

Customer will forfeit any rights to obtain ownership of the goods, the licence granted pursuant to Clause 9.6.1 will be terminated and any monies partly paid by the Customer will be forfeited to the Company; and

- 9.6.5 If the Customer fails to comply with a request to return the goods to the Company, or if the Customer commits any act of bankruptcy or insolvency, or if an administrator or liquidator is appointed to the Customer (but not a receiver or a receiver and manager), then the Company (or its agents) may enter upon and into land and premises owned, occupied or used by the Customer where the goods are situated, disassemble the goods and take possession of the goods.
- The Customer must do all things necessary to assist the Company to perfect and enforce its security interest to the fullest extent available at law, including enabling the Company to gain first priority for its security interest. Accordingly, the Customer must not grant a security interest in the equipment to any other party without the Company's prior written consent. The parties agree that Sections 98, 125, 142 and 143 of the Dependence of the section of the se
- PPS Act shall not apply to these Terms. The Customer waives its rights to receive any notifications,
- verifications, statements, disclosures, proposals and any other documentation specified under Sections 95, 121(4), 130, 132(3)(d), 132(4), 135, 157 of the PPS Act
 9.10 For the purposes of Section 275 of the PPS Act, the Customer agrees not to disclose any information provided by the Customer agrees not to disclose any information provided by the Customer agrees not to disclose any information provided by the Customer agrees not to disclose any information provided by the Customer agrees not to disclose any information provided by the Customer agrees not to disclose any information provided by the Customer agrees not to disclose any information provided by the Customer agrees not to disclose any information provided by the Customer agrees not to disclose any information provided by the Customer agrees not to disclose any information provided by the Customer agrees not to disclose any information provided by the Customer agrees not to disclose any information provided by the Customer agrees not to disclose any information provided by the Customer agrees not to disclose any information provided by the Customer agrees not to disclose any information provided by the Customer agrees not to disclose agrees agrees not by the Customer agrees not to disclose agrees agrees not by the Customer agrees not by t
- Company under that Section to any third party without the Company's prior consent in writing (unless required by law or
- the information has entered the public domain). 9.11 The Customer indemnifies the Company for any costs, fees and expenses the Company incurs in the enforcement of the security interest.
- 9.12 Receipt by the Company of any form of payment for goods other than cash will not be deemed to be payment until that form of payment has been honoured, cleared or recognised and until then the security interest will continue to apply in model. relation to those goods.

10.0 GUARANTEE AND INDEMNITY

- In part consideration for the Company undertaking work for the Customer, the Directors of the Customer ('the Directors'), including but not limited to those persons listed as Directors in the agreement or quotation between the parties or who have otherwise executed the same, hereby personally jointly and severally guarantee the Customer's performance of its obligations to the Company pursuant to these Terms, including but not limited to the payment of all debts, interest, costs and other moneys payable to the Company.
- 10.2 The Directors further individually guarantee and indemnify the Company against all losses (including consequential losses), damages, costs, charges and expenses which the Company incurs (whether directly or indirectly) by reason of any default by the Customer of the Customer's obligations pursuant to ese Terms.
- 10.3 This Guarantee and Indemnity shall be continuing and shall not be released or compromised by any neglect or indulgence (whether as to time or otherwise) of the Company either in enforcing the Company's rights and obligations or in respect to the performance of the obligations of the Customer pursuant ese Terms.
- 10.4 This guarantee and indemnity and the agreements and obligations contained in this Clause 9.0 will be binding upon the Directors, their executors and administrator, unless otherwise agreed by Company in writing or noted on the quotation

11.0 INTELLECTUAL PROPERTY

- The Customer agrees that the intellectual property in all goods supplied by the Company, including in any designs, drawings, plans or other documents produced by the Company for the Customer, shall be and remain the absolute property of the Company irrespective of any variation or other work on such items completed by the Customer. 11.2 Any and all intellectual property rights and inventions arising
- during the course of the Company's supply of goods to the Customer and resulting from the services provided by the Company are acknowledged to be the sole and absolute property of the Company.





- 11.3 The parties agree that any improvements to the goods or the processes of the Company suggested or provided by the Customer shall be deemed to be the intellectual property of the Company.
- 11.4 The Customer agrees that it shall hold confidential all intellectual property of the Company and shall not disclose such information to any party without the prior written consent
- of the Company, unless required to do so by law. 11.5 Given this Clause 11.0, the Customer agrees that it shall not resell, on sell, transfer or give the goods to any other party for any reason without the Company's consent. In the event that the Customer is removing the goods from its premises for any reason, then it agrees to either return the goods to the Company or have the goods destroyed.
- Intellectual property rights means all intellectual property rights, including but not limited to: 1161
 - patents, copyright, inventions, designs and trademarks; and 1162
 - any application or right to apply for registration of any of the rights referred to in Clause 11.6.1.

12.0 AUTHORITY TO VARY TERMS AND CONDITIONS:

- No manager, employee, servant, agent or representative of the Company (other than a director and then only in writing) has any authority to vary these Terms or any of them and without Initing the generality of the foregoing no warranty, representation, promise, agreement, term or condition whether express or implied made by any such person shall be deemed to be included in or form part of these Terms or operate in any way collateral to these Terms other than those warranties, representations, promises, agreements, terms or conditions which expressly appear herein or which are implied by law and not expressly excluded herein.
- 13.0 GST:
- 13.0 GS r:
 13.1 In these Terms:
 13.1.1 "GST" or "Goods and Services tax" means a tax, duty, levy, charge or deduction, imposed by or under a GST law, together with any related additional tax, interest, service for other amount imposed in respect of the above.
 - 13.1.2 "GST law" means the same as in the A New Tax System (Goods and Services Tax) Act 1999. 13.1.3
 - "Supply" has the same meaning as given by section 195 of the GST law.
- The parties agree that, unless otherwise stated, any consideration payable to the Company shall be exclusive of GST and the Customer shall pay the amount of GST to the Company with the payment of the consideration.
 To the extent that any moneys payable by the Customer to the
- Company under an indemnity in this contract or for a breach of the Terms are regarded, for the purposes of the GST law, as consideration (in whole or part) for a taxable Supply made by the Company, the Customer must pay an additional amount to the Company calculated by multiplying the prevailing GST rate by the consideration payable to the Company for the relevant supply
- 14.0 MISCELLANEOUS: 14.1 The Customer shall not be entitled to withhold or set off payment of any amount due to the Company under these Terms whether in respect of any claim of the Customer in respect of faulty or defective goods or services or for any other reason which is contested or liability for which is not admitted by the Company. No order or accepted quotation may be cancelled except with
- 14.2 consent in writing and on terms which will indemnify the Company against all losses.
- 14.3 Any delay in or failure by the Company to insist upon strict performance of any term, warranty or condition of these Terms shall not be deemed a waiver thereof or of any rights the Company may have and no express waiver shall be deemed a waiver of any subsequent breach of any term, warranty or condition.
- 14.4 If any provision of these Terms shall be determined by any statute or any court having jurisdiction in relation thereto to be illegal, invalid, void, voidable or unenforceable the legality validity or enforceability of the remainder of these Terms shall not be affected and the illegal, invalid, void, voidable or unenforceable provision shall be deemed deleted to the same extent and effect as if never incorporated herein but the remainder of these Terms shall continue in full force and effect.

- 14.5 These Terms shall survive any accepted repudiation or other termination of the contract to supply to goods or services existing between the Company and the Customer.
- 14.6 These Terms shall be governed and interpreted according to the laws of Victoria and the parties agree to submit to the non-exclusive jurisdiction of the courts of Victoria.





PLEASE REFER TO YOUR WIRING DIAGRAM AND PUMP MANUAL FOR OTHER IMPORTANT PACKAGE INFORMATION.