

OPERATORS MANUAL FOR Mi-T-M® WCL-30D-0M10 CLARIFIER TYPE SOLIDS SEPARATOR

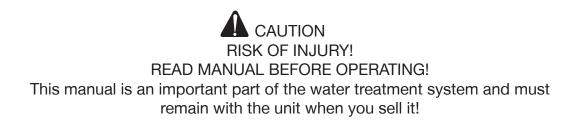


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A WARNING

▲ WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

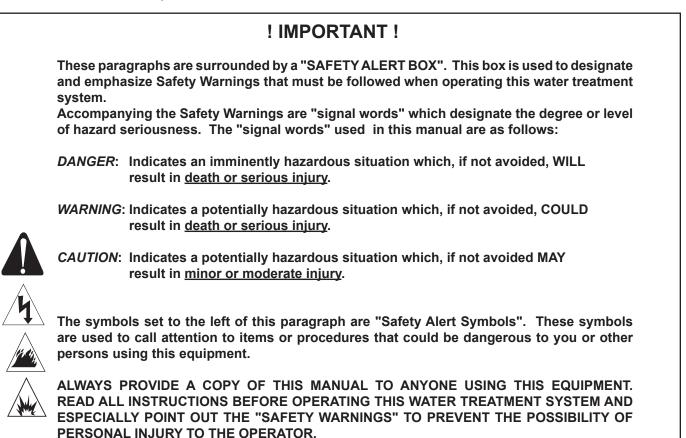
A WARNING

▲ WARNING: This product can expose you to chemicals including carbon monoxide, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

INTRODUCTION

Congratulations on the purchase of your new Mi-T-M water treatment system! You can be assured your Mi-T-M water treatment system was constructed and designed with quality and performance in mind. Each component has been rigorously tested to ensure the highest level of acceptance.

This operator's manual was compiled for your benefit. By reading and following the simple safety, installation, operation, maintenance and troubleshooting steps described in this manual, you will receive years of trouble free operation from your new Mi-T-M water treatment system. The contents of this manual are based on the latest product information available at the time of publication. Mi-T-M reserves the right to make changes in price, color, materials, equipment, specifications or models at any time without notice.



Once the unit has been uncrated, immediately write in the serial number of your unit in the space provided below.

SERIAL NUMBER

Inspect for signs of obvious or concealed freight damage. If damage does exist, file a claim with the transportation company immediately. Be sure that all damaged parts are replaced and that the mechanical and electrical problems are corrected prior to operation of the unit. If you require service, contact Mi-T-M Customer Service.

CUSTOMER SERVICE

CALL OUR TOLL-FREE NUMBER

for the Sales or Service Center nearest you!

800-553-9053

Please have the following information available for all service calls:

- 1. Model Number
- 2. Serial Number
- 3. Date and Place of Purchase

CONTENTS OF WCL-30D WATER TREATMENT SYSTEM

Carefully unpack your new Mi-T-M Clarifier Type Solids Separator. Check the contents against the packing list. Contact the freight line if a damage claim is required on any component. The following items are the basic equipment sent with your Clarifier Type Solids Separator.

- 1. Sump Pump
- 2. Unattached Float for Sump Pit
- 3. Clarifier Type Solids Separator

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- a. Clarifier Tank
- b. Tank Stand
- 4. Ozone Generator
- 5. Ozone Pump
- 6. Waste Oil Decanter
- 7. Sludge Tub
- 8. Sludge Hose
- 9. Manual
- 10. Control Box

Accessories: 165 gallon product tank

80 gallon product tank Ladder and Mezzanine

Model	WCL-30D-0M10
Maximum Flow	30 GPM
Electrical	230 Volt 1 Phase 15 Amps
Sump Pump	1 HP
Ozone Generator	12 grams/day
Ozone Pump	1/2 HP
Clarifier Capacity	600 Gallon
Oil Coalescing Area	425 Square Feet
Waste Oil Decanter	25 Gallon
Dimensions (LxWxH)	62" x 78" x 104"
Net Dry Weight (Approx.)	800 lbs.

SPECIFICATIONS

IMPORTANT SAFETY WARNINGS WARNING: When using this product, basic precautions should always be observed, including the following: READ ALL SAFETY WARNINGS BEFORE USING WATER TREATMENT SYSTEM

HAZARD	POTENTIAL CONSEQUENCE	PREVENTION
RISK OF ELECTRIC SHOCK OR ELECTROCUTION	OR ELECTROCUTION if the water treatment system is not properly grounded. Your water treatment system is powered by electricity and may cause electric shock or electrocution if not installed properly. This GF is the procure of the property is powered by electricity and may cause electric shock or electrocution if not installed properly. This GF is the procure of the property is powered by electricity and may cause electric shock or electrocution if not installed properly. This GF is the procure of the property is powered by electricity and may cause electric shock or electrocution if not installed properly. This GF is the property is powered by electricity and may cause electric shock or electrocution if not installed properly. This GF is the property is powered by electricity and may cause electric shock or electrocution if not installed properly. This GF is the property is powered by electricity and may cause electric shock may occur if water the property. This GF is the property is powered by electricity and may cause electric shock may occur if water the unit oper the property. Electrical shock may occur if water treatment system is not operated Dot treatment system is not operated Dot treatment system is not operated	Installation of this unit, including all electrical connections, must comply with all local, state and national codes.
		This product must be grounded. Connect to a GFCI circuit breaker when available. If the unit should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. Do not ground to a gas supply line.
		Improper connection of the equipment- grounding conductor can result in a risk of electrocution. Check with a qualified electrician or service personnel if you are in doubt as to whether the system is properly grounded.
		Always be certain the unit is receiving proper voltage (+/- 5% of the voltage listed on the nameplate). Before installing electrical connections, be certain the power switches are in the "OFF" position.
		Keep all connections dry and off the ground.
		Do not touch pump, pump motor, discharge piping or water when the unit is connected to the power supply; regardless of whether the unit is operating correctly or experiencing an operation failure.
		DO NOT allow metal components of the water treatment system to come in contact with live electrical components.
		Never operate the water treatment system with safety guards/covers removed or damaged. Ensure all electrical covers are securely in place when unit is operating.
	Serious injury or death may occur if electrical repairs are attempted by unqualified persons.	Any electrical wiring or repairs performed on this water treatment system should be done by Authorized Service Personnel in accordance with National and Local electrical codes.
		Before opening any electrical enclosure, always shut off the water treatment system and drain the water. Disconnect the water treatment system from the power source. If the power disconnect is not in sight, lock it in the open position and tag it to prevent power usage. (Never assume the water treatment system is safe to work on just because it is not operating, it could restart at any time! Always disconnect from the power source.) Allow the water treatment system to cool down. Service in a clean, dry, flat area.

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IMPORTANT SAFETY WARNINGS READ ALL SAFETY WARNINGS BEFORE USING WATER TREATMENT SYSTEM

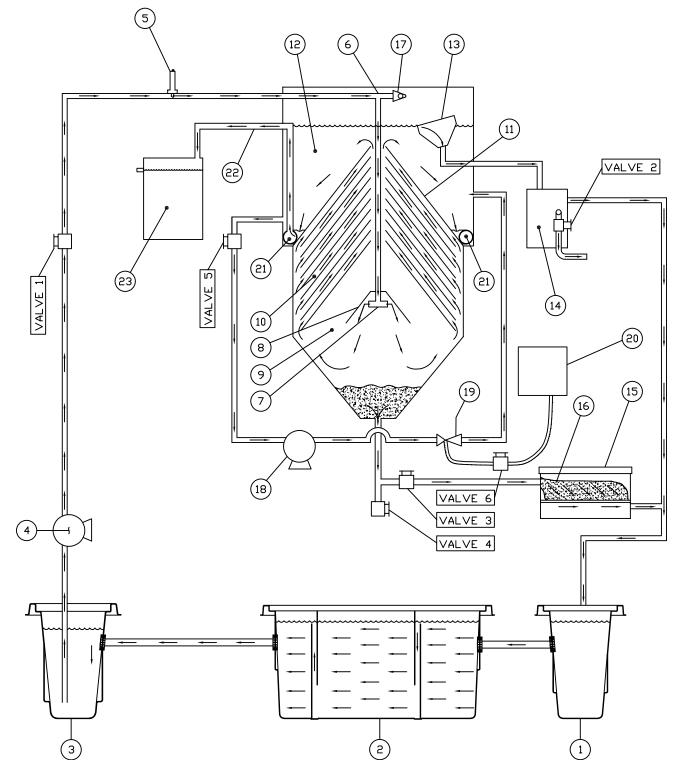
HAZARD	POTENTIAL CONSEQUENCE	PREVENTION
RISK OF EXPLOSION OR FIRE	Serious injury or death could occur from an explosion or fire caused by a system electric spark.	This unit must be placed in an area that is well ventilated, free of flammable vapors, combustible dust, gases or other combustible materials.
RISK OF BURSTING	Serious injury or death could occur from bursting caused by excessive pressure in the system. Serious injury may occur if attempting to start the water treatment system when the pump is frozen.	Do not use this water treatment system to pump flammable material! An explosion could occur from a gas vapor buildup inside the system. In freezing temperatures, the unit must always be warm enough to ensure there is no ice formation in the pump. Do not start the water treatment system if it has been in a freezing environment without first allowing the pump to thaw.
RISK OF BURNS	Serious injury may occur from touching the electrical motor. This area can remain hot for some time after the water treatment system is shutdown.	Never allow any part of your body to contact the electrical motor until cooled.

IMPORTANT SAFETY WARNINGS READ ALL SAFETY WARNINGS BEFORE USING WATER TREATMENT SYSTEM

HAZARD	POTENTIAL CONSEQUENCE	PREVENTION
RISK FROM MOVING PARTS	Serious injury may occur to the operator from moving parts on the water treatment system.	Do not operate the unit without all protective covers in place. Follow the maintenance instructions specified in the manual.
RISK OF BODILY INJURY	Injury may occur from the water treatment system.	DO NOT DRINK THE WATER IN THE WATER TREATMENT SYSTEM!! This is non-potable water and is not suitable for consumption. DO NOT allow children to operate this unit. DO NOT allow children to operate this unit. DO NOT overreach or stand on unstable support. Wet surfaces can be slippery, wear protective foot gear and keep good footing and balance at all times. Know how to stop the water treatment system. Be thoroughly familiar with controls.
	Injury may occur from chemicals contacting the skin.	Before servicing, ALWAYS shut off the water treatment system. Never use any solvents or highly corrosive detergents or acid type cleaners with this water treatment system. Keep all chemicals out of the reach of children! Consult Material Safety Data Sheets for safe handling of chemicals used with your system, especially oxidizers and acids.

!SAVE THESE INSTRUCTIONS!

WATER TREATMENT SYSTEM FLOW CHART



CLARIFIER TYPE OIL/WATER/SOLIDS SEPARATOR FLOW CHART

As pressure washers are being operated, used water flows into the **Wash Water Catch Pit (1)**. From there, it moves to the **3-Stage Collection Pit (2)**. Heavy debris falls to the bottom of the pit where it is trapped by a weir which is designed to stop heavy debris while allowing the remaining water to move into the **Sump Pit (3)**. The **Sump Pump (4)** draws water from the **Sump Pit (3)** and brings it through the <u>Water Inlet Flow Control Valve 1</u>. This adjustable valve is used to regulate the flow of water entering the water clarification tank. A **Flow Meter (5)** is positioned just ahead of the water clarification tank. The water enters the water clarification tank through the **Inlet Tee (6)** and is directed down to the **Diverter Tee (7)**. From there the water is deflected downward by the **Solids Deflection Cone (8)**, then to the **Solids Separation Chamber (9)** allows the velocity of the water to slow so that any suspended solids settle to the bottom. The water then rises up through the **Oil Coalescing Cones (10)**.

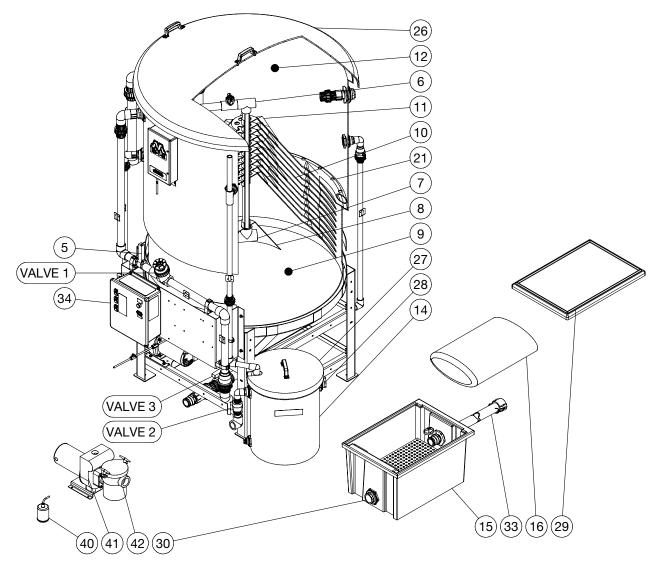
- 1) The non-emulsified oil molecules in the water adhere to the Oil Coalescing Cones (10). When enough oil molecules attach to each other, they form oil droplets. The oil droplets are carried along with the water through the Top Separator Cone (11) and into the Oil Separation Chamber (12), where the oil droplets float to the surface. The Oil Skimmer (13) is positioned near the top of the Oil Separation Chamber (12) which allows the thin layer of surface oil and water to drain into the Waste Oil Decanter (14). Since oil is lighter than water, the oil floats to the top and is released from the Waste Oil Decanter (14) when the <u>Waste Oil Release Valve 2</u> is opened. Excess water is returned to the Waste Catch Pit (1).
- 2) The solids that accumulate in the bottom of the Solids Separation Chamber (9) should be regularly drained through the <u>Solids Drain Valve 3</u> into the Sludge Tub (15) where the solids are filtered out and the water is returned to the Wash Water Catch Pit (1). The Filter Bag (16) is biodegradable and may be tied off and disposed of as it is filled. If the solids accumulated at the bottom of the Solids Separation Chamber (9) are unable to drain, the <u>Clean Out Valve 4</u> may be accessed to break the accumulation free.
- 3) An **Anti-siphon Device (17)** is attached to the **Inlet Tee (5)** to relieve any suction that may develop when the **Sump Pump (4)** is turned off, preventing any siphoning of water back out of the water clarification tank.

Water then flows through the <u>Ozone Pump Valve 5</u> down into the **Ozone Pump (18)** where it is forced through the **Ozone Injector (19)** and back up into the **Oil Separation Chamber (12)**.

- Ozone is generated by oxygen molecules passing through a corona discharge Ozone Generator (20). This
 is an electric charge which causes the oxygen atoms to become ozone molecules. Since ozone molecules
 are extremely unstable, they only retain their structure for a very short time. For this reason, ozone cannot
 be stored, but must be continually produced by the Ozone Generator (20).
- 2) Ozone kills bacteria approximately 3,000 times faster than chlorine.
- 3) The flow of ozone is controlled by the <u>Ozone Flow Control Valve 6</u>.

Water then flows from the **Oil Separation Chamber (12)** through the **Outlet Ring (21)** and into the **Outlet Tee (22)**. The **Outlet Tee (22)** directs the water into the **Product Tank (23)** where it is held for further treatment or discharge as may be appropriate to your situation.

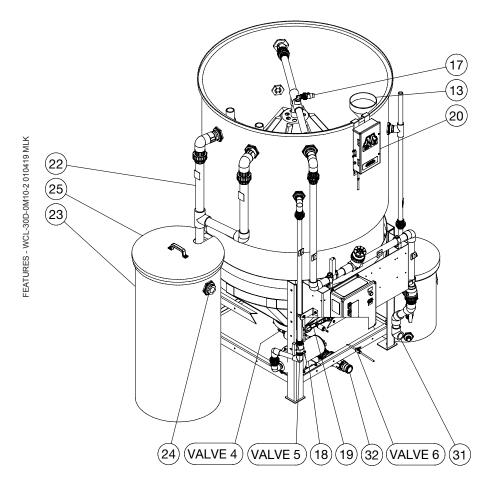
FEATURES FOR WCL-30D



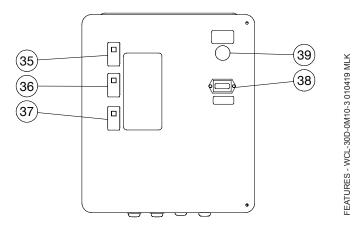
- Valve 1 Water Inlet Flow Control
- Valve 2 Waste Oil Release
- Valve 3 Solids Drain
- Valve 4 Clean Out
- Valve 5 Ozone Pump
- Valve 6 Ozone Flow Control
- 5. Flow Meter
- 6. Inlet Tee
- 7. Diverter Tee
- 8. Solids Deflection Cone
- 9. Solids Separation Chamber
- 10. Oil Coalescing Cones
- 11. Top Separation Cone
- 12. Oil Separation Chamber
- 13. Oil Skimmer
- 14. Waste Oil Decanter
- 15. Sludge Tub
- 16. Filter Bag
- 17. Anti-siphon Device
- 18. Ozone Pump
- 19. Ozone Injector
- 20. Ozone Generator
- 21. Outlet Ring
- 22. Outlet Tee
- 23. Product Tank (Option Only)

Mi-T-M® WCL-30D-SERIES Operator's Manual

FEATURES FOR WCL-30D



- 24. Product Tank Outlet (Option Only)
- 25. Product Tank Lid (Option Only)
- 26. Clarifier Tank Lid
- 27. Oil Decanter Lid
- 28. Oil Decanter Outlet
- 29. Sludge Tub Lid
- 30. Sludge Tub Outlet
- 31. Inlet Sludge Drain
- 32. Outlet Assembly
- 33. Sludge Hose
- 34. Control Panel
- 35. Master Switch
- 36. Sump Pump Switch
- 37. Ozone System Switch
- 38. Hour Meter
- 39. Power Indicator Light
- 40. Float #1 Blue: Pit Low Level Shut-Off
- 41. Sump Pump
- 42. 6" Strainer Basket

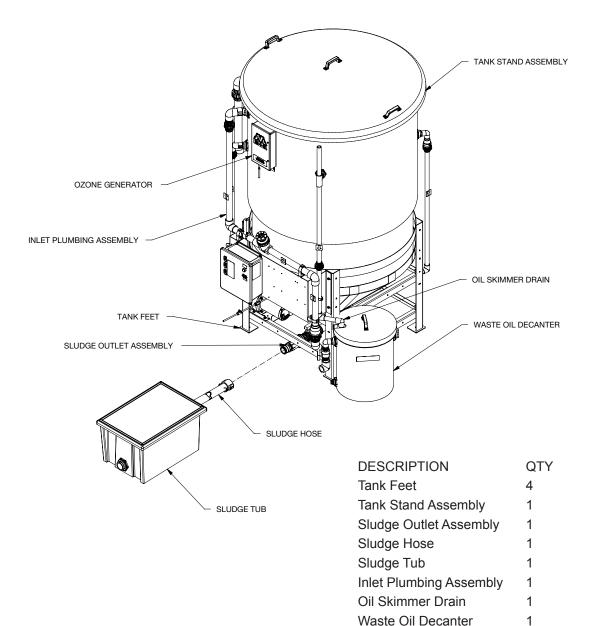


INSTALLATION

ASSEMBLY OF WCL-30D-0M10:

To assemble the Clarifier Type Solids Separator, first unpack all components and check for damage. Contact the freight line if a damage claim is required on any component. Below is a list of components that need to be assembled to the Clarifier Type Solids Separator unit.

- 1. Place **Tank Stand Assembly** on flat level surface with enough room for maintance as required and plumbing connections. Anchor **Tank Feet** if required.
- 2. The **Ozone Generator** should be hung above the **Clarifying Tank** water level. It may hang from the top lip of the **Clarifying Tank**, or it may be wall mounted.
- 3. Place Oil Decanter under Oil Skimmer Drain.
- 4. Run plumbing or hose from **Oil Decanter** back to pit.
- 5. Couple Sludge Tub to Sludge Outlet Assembly with Sludge Hose.



INSTALLATION

ATTIRE:

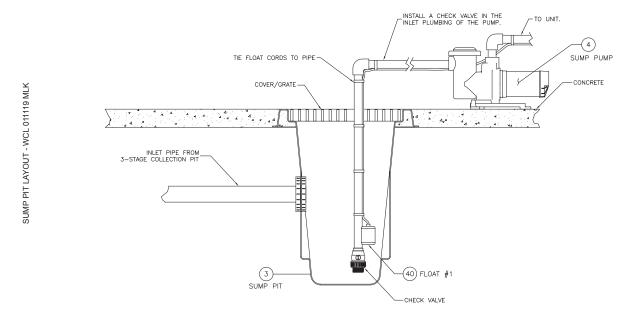
1. Proper attire is essential to your safety. It is advised to utilize whatever means necessary to protect eyes, ears, and skin.

INSTALLATION:

- A Collection Pit System must already be an established structure before installing the Clarifier Type Oil/Water/ Solids Separator. A well designed pit system is critical for the proper operation of the treatment system. Consult your Mi-T-M dealer for installation requirements.
- Place the Clarifier Type Oil/Water/Solids Separator on a hard, level surface in an area free of flammable vapors, combustible dust, gases or other combustible materials. Set the unit so your have access to the <u>Water Inlet Flow</u> <u>Control Valve 1</u> and the <u>Solids Drain Valve 3</u>. Place a level on the Clarifier Type Oil/Water/Solids Separator to ensure it is level.
- Do not place unit in an area:

 -with insufficient ventilation.
 -where environmental hazards (i.e. rain and snow) can come in contact with the oil water separator system.
 -in a freezing environment.
- 4. The oil water separator system may be shipped with union connections loosened to protect the unit from shipping damage. Tighten all union connections at this time.
- 5. Install the Sump Pump (4) in the Sump Pit (3) as shown below.
- 6. Install plumbing from **Sump Pump (4)** using 1-1/2" minimum connection sizes.
- 7. Install a check valve near the outlet plumbing of the Sump Pit (3).
- 8. Install the float in the **Sump Pit (3)**. Allow a 2" tether and enough room for them to move freely without interfering with the plumbing.
 - Float #1 Blue: Pit low level shut-off (40). Attach this float 10" above the Sump Pump (4) inlet.
- **NOTE:** The above information is for reference only. Professional installers or architects may use this guideline to meet specific site requirements.
- 9. Connect the Sludge Hose (33) to the Sludge Outlet Assembly (32) and the Sludge Tub (15).
- 10. Install the return plumbing from the **Oil Decanter Outlet (28)** and the **Sludge Tub Outlet (30)** to the **Wash Water Catch Pit (1)** using 1-1/2" minimum connection sizes.
- 11. Install plumbing from the **Product Tank (23)** to a secondary treatment system for further processing or disposal. Do not send the water back to the **Sump Pit (3)**.

NOTE: In most cases, you must have a permit to legally dispose discharged water.

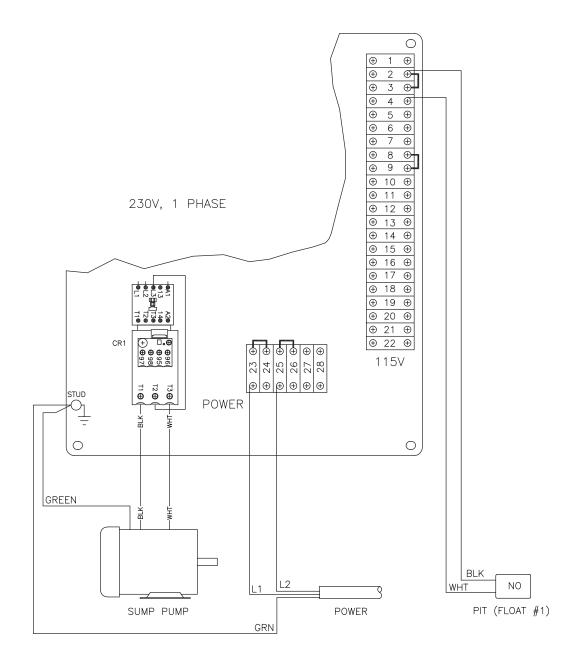


INSTALLATION

WARNING

RISK OF ELECTROCUTION! TO REDUCE THE RISK OF ELECTROCUTION, KEEP ALL CONNECTIONS DRY AND OFF THE GROUND.

- 12. A qualified electrician must hook up the electrical system.
 - a. Verify the electrical supply at the power source is off.
 - b. Be certain all switches on the Control Panel (34) are in the "OFF" position.
 - c. Run water tight conduit.
 - 1. From the Sump Pump (4) and Float to the Control Panel (34).
 - 2. From the local disconnect to the **Control Panel (34)**. The electrician will need to drill holes in the **Control Panel (34a)** for the conduit.
 - d. Make connections to the terminal strips as shown in the wiring diagram.



PREPARATION

STOP

TO ENSURE YOUR WATER RECYCLE TREATMENT SYSTEM OPERATES SAFELY AND EFFICIENTLY, COMPLETE THE PRE-OPERATION CHECKLIST BEFORE PROCEEDING.

Before proceeding, answer all the questions on this checklist.	YES	NO
CODES:		
1. Does the electrical wiring meet all codes?		
2. Does plumbing meet all codes?		
LOCATION:		
1. Is the unit located on a hard level surface free of flammable vapors,		
combustible dust, gases or other combustible materials?		
2. Is the unit located in a large ventilated area?		
ELECTRICAL:		
1. Is the unit properly grounded?		
2. Does the power supply, voltage and amperage match the data plate?		
PLUMBING:		
1. Is the plumbing sized correctly?		
2. Is the check valve installed near the Sump Pump (4) ?		
3. Are all unions tightened?		
GENERAL:		
1. Have all operators using this unit read and understood this entire manual?		
2. Has the unit been installed by qualified service people who followed the		
instructions listed in this manual?		
IE "NO" WAS MARKED TO ANY OF THESE QUESTIONS CORRECT THE SITUR	TION REFORE	ODEDATING

IF "NO" WAS MARKED TO ANY OF THESE QUESTIONS, CORRECT THE SITUATION BEFORE OPERATING.

PRE-START PROCEDURES:

- 1. Turn <u>Water Inlet Flow Control Valve 1</u> one rotation short of completely closed.
- 2. Ensure the Sump Pit (3) is filled with water.
- 3. Be certain all hoses and plumbing connections are secure.
- 4. Be certain the incoming air tube to the **Ozone Generator (20)** is not obstructed.
- 5. Be certain all switches on the **Control Panel (34)** are in the "OFF" position.

WARNING RISK OF ELECTROCUTION! TO REDUCE THE RISK OF ELECTROCUTION, KEEP ALL ELECTRICAL CONNECTIONS DRY AND OFF THE GROUND.

START-UP:

- 1. Turn power from main disconnect "ON", "POWER ON" Indicator Light (39) should be lit.
- 2. Turn on the Master Switch (35).
- 3. Turn on the Sump Pump Switch (36), water will begin to flow into the Clarifier Type Oil/Water/Solids Separator.
- 4. Flow can be increased by opening the Water Inlet Flow Control Valve 1 and reading the Flow Meter (5).
- 5. As the water fills the **Solids Separation Chamber (9)**, it will begin to flow through the **Top Separator Cone (11)** and fill the **Oil Separation Chamber (12)**.
- 6. When the **Oil Separation Chamber (12)** is full, the water will begin to flow through the **Outlet Ring (21)** and into the **Outlet Tee (22)**.
- 7. The Outlet Tee (22) directs the water into the Product Tank (23) where it is ready for further processing.
- 8. Open Ozone Pump Valve 5.
- 9. Prime the **Ozone Pump (18)** by loosening the union immediately after the **Ozone Pump (18)** until water exits. Retighten the union.
- 10. Turn on the Ozone System Switch (37), the Ozone Pump (18) will turn on and air bubbles will be seen in the Oil Separation Chamber (12).

OPERATION

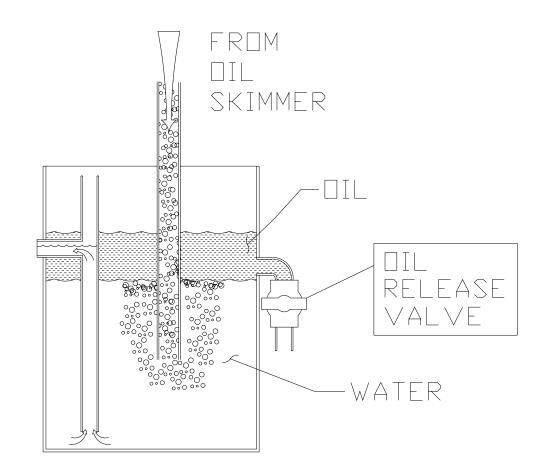
OPERATION:

- 1. The Clarifier Type Oil/Water/Solids Separator is ready to operate.
- 2. With the sump pump running, set <u>Water Inlet Flow Control Valve 1</u> so that the Flow Meter (5) reads the rated flow rate of the system.
- 3. **Oil Skimmer (13)** positioning must be done when water is flowing into the Clarifier Type Oil/Water/Solids Separator at the rated flow rate.
 - a. Ensure the Waste Oil Decanter (14) is connected to the pit return line.
 - b. Tilt the **Oil Skimmer (13)** so that it just breaks the surface of the water.
- 4. Monitor the system closely the first few days to ensure smooth operation.

MAINTENANCE

WASTE OIL DECANTER:

- 1. The **Oil Skimmer (13)** removes the top layer of oil and water from **Oil Separation Chamber (12)** and sends it to the **Waste Oil Decanter (14)**.
- 2. As the **Waste Oil Decanter (14)** fills with the oil/water mixture, the oil will float to the top while the water remains on the bottom.
- 3. The water then moves up the standpipe, through the **Oil Decanter Outlet (28)**, and back to the **Wash Water Catch Pit (1)** to be recycled again.
- 4. As oil accumulates, it will have to periodically be removed from the Waste Oil Decanter (14).
 - a. Place a 5 gallon bucket below <u>Waste Oil Release Valve 2</u>.
 - b. Open the <u>Waste Oil Release Valve 2</u> and allow oil to flow into the 5 gallon bucket. Turn off the valve when water begins flowing into the bucket.
 - c. Dispose of oil according to EPA Standards



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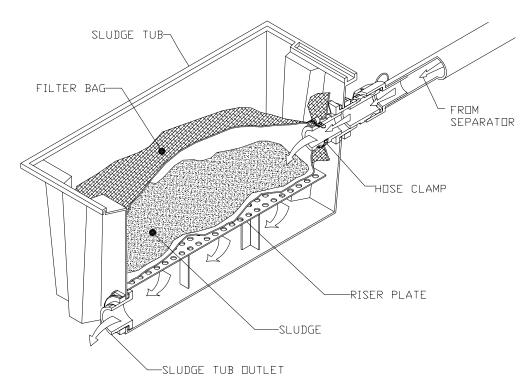
MAINTENANCE

SLUDGE TUB OPERATION:

The solids collection area of the **Solids Separation Chamber (9)** will need to be cleaned occasionally to prevent overflow of solids into the **Product Tank (23)**. Do not use pressure washers while performing this maintenance.

- 1. Ensure the Sludge Hose (33) is connected to the Sludge Tub (15) and the Sludge Outlet Assembly (32) and a Filter Bag (16) is secured in the Sludge Tub (15).
- 2. By opening <u>Solids Drain Valve 3</u>, sludge from the Solids Separation Chamber (9) will enter the Sludge Tub (15).
- 3. If there is no flow from the **Sludge Outlet Assembly (32)**, open <u>*Clean Out Valve 4*</u> and use a stiff wire to break up blockage.
- 4. The sludge is forced into the disposable **Filter Bag (16)**, Solids in the **Sludge** are retained by the disposable **Filter Bag (16)** and fluids drain out into the area created by the **Riser Plate**.
- 5. The remaining water drains out of the bottom of the Sludge Tub (15) through Sludge Tub Outlet (30) and back to the Wash Water Catch Pit (1).
- When the Filter Bag (16) is filled with accumulated solids, close the <u>Solids Drain Valve 3</u> and loosen the Hose Clamp used to retain the Filter Bag (16). Tie the Filter Bag (16) off and dispose of in a manner consistent with local and federal regulations.
- 7. To replace the **Filter Bag (16)**, bunch up the neck and feed it through the **Hose Clamp**, place the **Hose Clamp** and **Filter Bag (16)** over the inside nipple on the inlet coupling and tighten the **Hose Clamp**.

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WINTERIZING:

If you must store your unit in an area where the temperature may fall below 32°F/0°C, you can protect your Clarifier Type Solids Separator system by draining all water from the system.

- 1. Turn all switches on the Control Panel (34) to the off position and disconnect power to the Control Panel (34).
- 2. Open the check valve near the Sump Pit (3) and drain the water transport line.
- 3. Ensure all oil has been skimmed from the surface of the Oil Separation Chamber (12) by the Oil Skimmer (13).
- 4. Remove the sludge from the bottom of the **Solids Separation Chamber (9)** as described in **SLUDGE TUB OPERATION**.
- 5. Open <u>Solids Drain Valve 3</u> and drain the Clarifier Type Solids Separator and clean the tank.
- 6. Remove the oil from the Waste Oil Decanter (14) and drain.
- 7. Empty the Product Tank (23) and wipe down the Sludge Tub (15).

TROUBLESHOOTING

SYMPTOM	PROBABLE CAUSE	REMEDY
ELECTRICAL		
No power at Control Panel (34).	Power failure to Control Panel (34).	Check circuit breaker at power source or contact your local distributor.
Power Indicator Light (39) is OFF.	Blown fuses inside Control Panel (34) on step down transformer.	Check fuses, replace if necessary. If fuses are OK, contact your distributor.
SUMP PUMP		
Sump Pump (4) will not run.	Floats are not adjusted correctly in the Sump Pit (3) .	Readjust.
	Not enough water in the Sump Pit (3).	Add water to the Sump Pit (3).
	Float 1 is defective.	Replace.
	Circuit overload/breaker has tripped.	Reset breaker or replace fuse at power source.
	Motor overload.	Allow motor to cool. Motor will automatically restart when cool.
	Motor is defective.	Replace motor.
Sump Pump (4) motor starts and stops frequently.	This is a common occurrence on initial start-up while pits are filling.	Allow pits to fill.
	Excessive water flow to water treatment system.	Turn valve clockwise to reduce flow.
	Sump Pump (4) impeller is clogged.	Disconnect power and unclog impeller.
	Motor overload.	Allow motor to cool. Motor will automatically restart when cool.
	Sump Pit (3) is not large enough.	Expand size of pit.
Sump Pump (4) runs, but there is little or no water discharge.	Strainer basket in Sump Pump (4) is clogged.	Clean, repair or replace.
	Water level is below pump inlet.	Ensure Float 1 is not caught in plumbing.
	There is an air lock in the Sump Pump (4) .	Manually fill the inlet pipe with water. Turn the Sump Pump (4) on and off several times.
	Low voltage.	Ensure wire size is capable of handling the rated amperage of the unit. If wire size is correct, contact your distributor.
	Clogged impeller or worn pump parts.	Contact your distributor.
Sump Pump (4) will not turn off.	Defective switch inside the Float #1 (40)).Replace.
	Pump is air locked.	Cycle pump in one minute increments several times to clear air from pump.

TROUBLESHOOTING

EDY in Sump Pump (4) . t or turn breaker "ON". n. onnect power and clean. to thaw. Inject with warm if necessary. ran dry. Ensure seal chamber ed with liquid. ace.
t or turn breaker "ON". n. onnect power and clean. to thaw. Inject with warm if necessary. ran dry. Ensure seal chamber ed with liquid. ace.
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t.
ir or replace.
ir or replace.
switch on.
t breaker or replace fuse.
motor to cool. Motor will natically restart when cool.
ace switch.
re the inlet pipe if filled with Turn the Ozone System ch (37) on and off several times.
nate leaks and tighten all ections on intake line.
off Ozone System Switch (37) Dil Separation Chamber (12) ed with water.
n or replace as necessary.
to thaw. Inject with warm if necessary. Ensure the p Pit (3) remains above ng.
Ozone Pump Valve 5.
act your local distributor.
act your local distributor.
re wire size is capable of ling the rated amperage of the If wire size is correct, contact local distributor.
motor to cool. Motor will natically restart when cool.



Mi-T-M warrants all parts (except those referred to below) of your new Clarifier type oil/water/solids separator to be free from defects in materials and workmanship for one year from the date of original purchase.

Defective parts not subject to normal wear and tear will be repaired or replaced at Mi-T-M's option during the warranty period. In any event, reimbursement is limited to the purchase price paid.

EXCLUSIONS

- 1. The motor is covered under separate warranty by its respective manufacturer and is subject to the terms set forth therein.
- 2. Normal wear parts:

Seals	Gaskets
O-rings	Packings
Valve Assembly	Brushes

3. Parts damaged due to:

-normal wear, misapplication, modifications/alterations, abuse,
-operation at other than recommended speeds, pressures or temperature,
-the use of caustic liquids,
-chloride corrosion or chemical deterioration,
-fluctuations in electrical or water supply,
-operating unit in an abrasive, corrosive or freezing environment.

- 4. Parts damaged by failure to follow recommended: -installation, operating and maintenance procedures.
- This warranty does not cover the cost of: -normal maintenance or adjustments, -labor charges, -transportation charges to Service Center, -freight damage.
- 6. The use of other than genuine Mi-T-M parts will void warranty. Parts returned, prepaid to Mi-T-M's factory or to an Authorized Service Center will be inspected and replaced free of charge if found to be defective and subject to warranty. There are no warranties which extend beyond the description of the face hereof. Under no circumstances shall Mi-T-M bear any responsibility for loss of use of the unit, loss of time or rental, inconvenience, commercial loss or consequential damages.