OPERATORS MANUAL FOR Mi-T-M®

WCP-SERIES

WATER RECYCLING TREATMENT SYSTEM

⚠️ CAUTION
RISK OF INJURY!
READ MANUAL BEFORE OPERATING!

This manual is an important part of the water recycling treatment system and must remain with
the unit when you sell it!
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⚠️ 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

⚠️ 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
Congratulations on the purchase of your new Mi-T-M water recycling treatment system! You can be assured your Mi-T-M water recycling 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 recycling 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.

! IMPORTANT !

These paragraphs are surrounded by a "SAFETY ALERT BOX". This box is used to designate and emphasize Safety Warnings that must be followed when operating this water recycling treatment system. Accompanying the Safety Warnings are "signal words" which designate the degree or level of hazard seriousness. The "signal words" used in this manual are as follows:

**DANGER:** Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.

**WARNING:** Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.

**CAUTION:** Indicates a potentially hazardous situation which, if not avoided MAY result in minor or moderate injury.

The symbols set to the left of this paragraph are "Safety Alert Symbols". These symbols are used to call attention to items or procedures that could be dangerous to you or other persons using this equipment.

**ALWAYS PROVIDE A COPY OF THIS MANUAL TO ANYONE USING THIS EQUIPMENT. READ ALL INSTRUCTIONS BEFORE OPERATING THIS WATER RECYCLING TREATMENT SYSTEM AND ESPECIALLY POINT OUT THE "SAFETY WARNINGS" TO PREVENT THE POSSIBILITY OF PERSONAL INJURY TO THE OPERATOR.**

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 at 1-800-553-9053 for the Sales or Service Center nearest you.

Please have the following items available for all Service calls:

1. Model Number
2. Serial Number
3. Date and Place of Purchase
CONTENTS OF WCP-SERIES WATER RECYCLING TREATMENT SYSTEM

Carefully unpack your new Mi-T-M WCP-Series Water recycling treatment system. 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 WCP-Series Water recycling treatment system.

1. Water recycling treatment system Platform
   a. Clarifier Type Oil/Solids Separator
      1. Clarifier Tank
      2. Tank Stand
   b. Ozone Generator
   c. Ozone Pump
   d. Filter Pump
   e. Inlet Flow Meter
   f. Filter Flow Meter
   g. Multi-Media Filter
   h. Cartridge Filter
   i. Polishing Filter
   j. Transfer Pump
   k. Pressurized Water Storage Tank
   l. Waste Oil Decanter

2. Sump Pump
3. Three Unattached Floats for Sump Pit
   a. Blue: Protects sump pump low level.
   b. Red: To fill pit from the water recycling treatment system.
   c. Green: High pit level discharge.

4. Sludge Tub
5. Sludge Hose
6. Water Test Kit
7. Manual
8. pH Sensor Probe
9. ORP Sensor Probe

SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WCP-10-0M10</th>
<th>WCP-20-0M10</th>
<th>WCP-30-0M10</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAX FLOW</td>
<td>10 GPM</td>
<td>20 GPM</td>
<td>30 GPM</td>
</tr>
<tr>
<td>ELECTRICAL</td>
<td>230 VOLT / 1 PHASE / 26 MAX AMP</td>
<td>230 VOLT / 1 PHASE / 26 MAX AMP</td>
<td>230 VOLT / 1 PHASE / 37 MAX AMP</td>
</tr>
<tr>
<td>SUMP PUMP</td>
<td>3/4 HP</td>
<td>3/4 HP</td>
<td>3/4 HP</td>
</tr>
<tr>
<td>OZONE PUMP</td>
<td>1/2 HP</td>
<td>1/2 HP</td>
<td>1/2 HP</td>
</tr>
<tr>
<td>CLARIFIER CAPACITY</td>
<td>300 GALLONS</td>
<td>600 GALLONS</td>
<td>600 GALLONS</td>
</tr>
<tr>
<td>OIL COALESCING AREA</td>
<td>275 SQUARE FEET</td>
<td>425 SQUARE FEET</td>
<td>425 SQUARE FEET</td>
</tr>
<tr>
<td>FILTER PUMP</td>
<td>3/4 HP</td>
<td>3/4 HP</td>
<td>1-1/2 HP</td>
</tr>
<tr>
<td>MULTI-MEDIA FILTER</td>
<td>285 LBS</td>
<td>350 LBS</td>
<td>900 LBS</td>
</tr>
<tr>
<td>CARTRIDGE FILTER</td>
<td>120 SQ FT / 20 MICRON</td>
<td>450 SQ FT / 20 MICRON</td>
<td>450 SQ FT / 20 MICRON</td>
</tr>
<tr>
<td>POLISHING FILTER</td>
<td>220 LBS DEGASSED</td>
<td>330 LBS DEGASSED</td>
<td>440 LBS DEGASSED</td>
</tr>
<tr>
<td>TRANSFER PUMP</td>
<td>3/4 HP</td>
<td>3/4 HP</td>
<td>2 HP</td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td>96” X 60” X 101”</td>
<td>96” X 72” X 110”</td>
<td>108” X 84” X 110”</td>
</tr>
<tr>
<td>NET WEIGHT</td>
<td>1800 LBS</td>
<td>2650 LBS</td>
<td>3225 LBS</td>
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</table>

Mi-T-M® WCP-SERIES Operator's Manual
<table>
<thead>
<tr>
<th>HAZARD</th>
<th>POTENTIAL CONSEQUENCE</th>
<th>PREVENTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RISK OF ELECTRIC SHOCK OR ELECTROCUTION</td>
<td>Serious injury or death could occur if the water recycling treatment system is not properly grounded. Your water recycling treatment system is powered by electricity and may cause electric shock or electrocution if not installed properly.</td>
<td>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 allow metal components of the water recycling treatment system to come in contact with live electrical components. Never operate the water recycling treatment system with safety guards/covers removed or damaged. Ensure all electrical covers are securely in place when unit is operating. Any electrical wiring or repairs performed on this water recycling 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 recycling treatment system and drain the water. Disconnect the water recycling 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 recycling 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.)</td>
</tr>
</tbody>
</table>
# IMPORTANT SAFETY WARNINGS

**READ ALL SAFETY WARNINGS BEFORE USING WATER RECYCLING 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. | Do not mistreat the pressure gauges on the system. Pressure gauges will malfunction if they are subjected to excessive pressure, vibration, pulsation or temperature or if they are placed in an environment which causes corrosion of parts. Incorrect readings on a pressure gauge could mislead the operator and place him in a dangerous working condition. Do not use a booster pump or any type of additional pumping system. Pressurizing the suction of the pump may cause the pump body to explode. Do not use this water recycling 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 recycling 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 recycling 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 RECYCLING TREATMENT SYSTEM**

### HAZARD | POTENTIAL CONSEQUENCE | PREVENTION
--- | --- | ---

**RISK FROM MOVING PARTS**

Serious injury may occur to the operator from moving parts on the water recycling 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 recycling treatment system.

Injury may occur from chemicals contacting the skin.

- **DO NOT DRINK THE WATER IN THE WATER RECYCLING TREATMENT SYSTEM!!** This is non-potable water and is not suitable for consumption.
- The Cartridge Filter operates under pressure. DO NOT attempt to loosen the locking ring or open the filter tank unless the pump is turned off and the air relief valve is opened.
- 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 recycling treatment system. Be thoroughly familiar with controls.
- Before servicing, ALWAYS shut off the water recycling treatment system.
- Never use any solvents or highly corrosive detergents or acid type cleaners with this water recycling 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.
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 Water Inlet Flow Control Valve 1. 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 Diverted Tee (7). From there the water is deflected downward by the Solids Deflection Cone (8), then to the Solids Separation Chamber (9). 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).
**FLOW DIAGRAM**

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 Waste Oil Release Valve 2 is opened. Excess water is returned to the Wash Water Catch Pit (1).

2) The solids that accumulate in the bottom of the Solids Separation Chamber (9) should be regularly drained through the Solids Drain Valve 3 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, open Valve 4 and Valve 5 to push the solids towards the Sludge Tub (15). If the solids are still unable to drain, open Valve 6 and Valve 7 to break up the solids on the inside of the Solids Separation Chamber (9). When the solids from the Solids Separation Chamber (9) is emptied, close Valve 4, Valve 5, Valve 6 and Valve 7.

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 Ozone Pump Valve 8 down past the Sensor Probes (18 & 19) then into the Ozone Pump (20) where it is forced through the Ozone Injector (21) and back up into the Oil Separation Chamber (12). (See "pH & ORP Control System" pg. 16 for details.)

1) Ozone is generated by oxygen molecules passing through a corona discharge Ozone Generator (22). 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 (22).

2) Ozone kills bacteria approximately 3,000 times faster than chlorine.

3) The flow of ozone is controlled by the Ozone Flow Control Valve 9.

Water then flows from the Oil Separation Chamber (12) through the Outlet Tee (24) and into the Outlet Y (24). The Outlet Tee (24) directs the water into the Product Tank (25) where the Filter Pump (26) sends the water to the Filter Control Valve 10 which regulates the amount of water going into the filtering system. A Flow Meter (27) is positioned just ahead of the Multi-Media Filter (28) to monitor flow. (Flow should be set at no more than the rating of the machine.) The Multi-Media Filter Valve 11 has many settings, with only two being utilized: Filter and Backwash. When in the “Filter” Position, water flows into the Multi-Media Filter (28) from the top and passes through several layers of filtering product as it moves toward the bottom. By the time the water reaches the bottom to the filter tank, the contaminants have been filtered down to approximately 30 microns. Laterals are positioned at the bottom of the filter tank, which absorb the filtered water and move it up through the center and out the top of the tank. From there, the water flows into the bottom of the Cartridge Filter (29). A Cartridge Filter Drain Valve 12 is located at the bottom of the Cartridge Filter (29) for filter cleaning purposes. This valve should be closed during the water recycling treatment operation. On initial start-up, the Air Bleed Valve (30) must be opened to let air escape while the Cartridge Filter (29) fills with water. Once full, and the Air Bleed Valve (30) is closed, the water passes through the Reemay Polyester Fiber filter which reduces the contaminants down to 20 microns. The water moves out of the Cartridge Filter (29) and into the Polishing Filter Valve 13. This filter has many settings, two of which are utilized: “Filter” and “Backwash”. When in the “Filter” position, water flows into the Polishing Filter (31) from the top and passes through the activated carbon or filtering agent. As it moves toward the bottom, the activated carbon or filtering agent absorbs odor and contaminants while “polishing” the water. Laterals are positioned at the bottom of the tank, which absorb the water and move it up through the center and out the top of the tank. From there, the water moves to the Product Tank (32) where the recycled water is held until usage is required. When needed, water is pulled from the Product Tank (25) by the Transfer Pump (33) and moved into the Pressure Tank (34). This tank holds water at 30-50 PSI/2.0-3.5 Bar. Water moves directly from this tank to the water discharge outlets upon demand.

If water is needed for washing, water is sent to the Outlet To Pressure Washer (35).

If the Wash Water Catch Pit (1) water level is low, water is added through the Fresh Water Makeup (38).

If the Water Catch Pit (1) water level is too high, water is sent to the Rain Water Overflow (36).

If the recycle timer turns on, water is sent through the Recycled Wash Water (37) to the Wash Water Catch Pit (1).
FEATURES FOR WCP-10

VALVE DESCRIPTIONS

1. Pressurized Clean-Out (Sludge Outlet)
2. Pressurized Clean-Out (Solids Chamber)
3. Ozone Pump
4. Ozone Flow Control
5. Solids Drain
6. Sludge Outlet Pressurized Clean-Out (Not Shown)
7. Solids Chamber Pressurized Clean-Out (Not Shown)

UNIT DESCRIPTIONS

1. Inlet Flowmeter
2. High Filter Pump Float
3. Transfer Pump Float
4. Pressure Gauge: Transfer Pump
5. Transfer Pump
6. Pressure Tank
7. Inlet From Sump Pump
8. Outlet Return To Pit
9. ORP Sensor Probe
10. pH Sensor Probe
11. Ozone Pump
12. Sludge Outlet
13. Optional Pit Return
14. Ozone Injector
15. Solids Separations Chamber
16. Holding Tank Overflow
17. Oil Coalescing Cones
18. Solids Deflections Cones
19. Diverted Tee
20. Top Separator Cone
21. Oil Separation Chamber
22. Lid
23. Sludge Tub
24. Filter Bag
25. Power Indicator Light
26. Indicator Light: Backwash Required
27. Backwash Switch
28. Sump Pump Switch (On/Off)
29. Filter Pump Switch (On/Off)
30. Transfer Pump Switch (On/Off)
31. pH/ORP Meters Switch (On/Off)
32. pH Pump Switch (On/Off)
33. ORP Pump Switch (On/Off)
34. Hour Meter
35. ORP Meter
36. pH Meter
FEATURES FOR WCP-10

UNIT DESCRIPTIONS

37. Outlet Y
38. High Sump Pump Float
39. Filter Flowmeter
40. Low Filter Pump Float
41. End Fork Lift Holes
42. Filter Pump
43. Air Relief Valve
44. Skid
45. Side Fork Lift Holes
46. Product Tank Overflow
47. Rain Water Overflow
48. Rinse Water Outlet
49. Outlet to Pressure Washer
50. Fresh Water Makeup
51. pH Pump
52. ORP Pump
53. ORP Chemical Injector
54. pH Chemical Injector
55. Polishing Filter
56. Pressure Gauge: Polishing Filter
57. Product Tank
58. Recycled Wash Water
59. Control Panel
60. Ozone Generator Switch
61. Ozone System Switch
62. Waste Oil Decanter
63. Ozone Generator
64. Oil Skimmer
65. Anti-Siphon Device
66. Outlet Ring
67. Holding Tank
68. Pressure Gauge: Multi-Media Filter
69. Multi-Media Filter
70. Cartridge Filter
71. Pressure Gauge: Cartridge Filter
FEATURES FOR WCP-20

**VALVE DESCRIPTIONS**
1. Pressurized Clean-Out (Sludge Outlet)
2. Pressurized Clean-Out (Solids Chamber)
3. Ozone Pump
4. Ozone Flow Control
5. Solids Drain
6. Sludge Outlet Pressurized Clean-Out (Not Shown)
7. Solids Chamber Pressurized Clean-Out (Not Shown)
8. Filter Control
9. Cartridge Filter Drain
10. Polishing Filter
11. Waste Oil Release
12. Water Inlet Flow Control
13. Multi-Media Filter

**UNIT DESCRIPTIONS**
1. Product Tank Overflow
2. Inlet Flowmeter
3. High Filter Pump Float
4. Transfer Pump Float
5. Pressure Gauge: Transfer Pump
6. Transfer Pump
7. Pressure Tank
8. Ozone Generator Switch
9. Ozone System Switch
10. Sump Pump Inlet
11. Pit Outlet Return
12. ORP Sensor Probe
13. pH Sensor Probe
14. Ozone Pump
15. Sludge Outlet
16. Ozone Injector
17. Optional Pit Return
18. Solids Separations Chamber
19. Oil Coalescing Cones
20. Solids Deflections Cones
21. Holding Tank Overflow
22. Diverted Tee
23. Top Separator Cone
24. Oil Separation Chamber
25. Lid
26. Sludge Tub
27. Filter Bag
28. Power Indicator Light
29. Indicator Light: Backwash Required
30. Backwash Switch
UNIT DESCRIPTIONS

31. Sump Pump Switch (ON/OFF)  
32. Filter Pump Switch (ON/OFF)  
33. Transfer Pump Switch (ON/OFF)  
34. pH/ORP Meters Switch (ON/OFF)  
35. pH Pump Switch (ON/OFF)  
36. ORP Pump Switch (ON/OFF)  
37. Hour Meter  
38. ORP Meter  
39. pH Meter  
40. Outlet Y  
41. High Sump Pump Float  
42. Filter Flowmeter  
43. Low Filter Pump Float  
44. End Fork Lift Holes  
45. Filter Pump  
46. Air Relief Valve  
47. Skid  
48. Side Fork Lift Holes  
49. Rain Water Overflow  
50. Rinse Water Outlet  
51. Outlet to Pressure Washer  
52. Fresh Water Makeup  
53. ORP Chemical Injector  
54. pH Chemical Injector  
55. Polishing Filter  
56. Pressure Gauge: Polishing Filter  
57. Product Tank  
58. Recycled Wash Water  
59. pH Pump  
60. ORP Pump  
61. Control Panel  
62. Waste Oil Decanter  
63. Ozone Generator  
64. Oil Skimmer  
65. Anti-Siphon Device  
66. Outlet Ring  
67. Holding Tank  
68. Pressure Gauge: Multi-Media Filter  
69. Multi-Media Filter  
70. Cartridge Filter  
71. Pressure Gauge: Cartridge Filter
FEATURES FOR WCP-30

VALVE DESCRIPTIONS
1. Pressurized Clean-Out (Sludge Outlet)
2. Pressurized Clean-Out (Solids Chamber)
3. Ozone Flow Control
4. Ozone Pump
5. Solids Drain
6. Sludge Outlet Pressurized Clean-Out (Not Shown)
7. Solids Chamber Pressurized Clean-Out (Not Shown)
8. Filter Control
9. Cartridge Filter Drain
10. Polishing Filter
11. Waste Oil Release
12. Water Inlet Flow Control
13. Multi-Media Filter

UNIT DESCRIPTIONS
1. Inlet Flowmeter
2. High Filter Pump Float
3. Pressure Gauge: Transfer Pump
4. Transfer Pump Float
5. Rain Water Overflow
6. Rinse Water Outlet
7. Outlet to Pressure Washer
8. Fresh Water Makeup
9. Ozone Generator Switch
10. Ozone System Switch
11. Inlet from Sump Pump
12. Outlet Return to Pit
13. ORP Sensor Probe
14. pH Sensor Probe
15. Ozone Pump
16. Sludge Outlet
17. Ozone Injector
18. Optional Return to Pit
19. Solids Separation Chamber
20. Oil Coalescing Cones
21. Solids Deflection Cone
22. Diverter Tee
23. Top Separator Cone
24. Oil Separation Chamber
25. Lid
26. Sludge Tub
27. Filter Bag
28. Power Indicator Light
29. Indicator Light: Backwash Required
30. Backwash Switch
UNIT DESCRIPTIONS

31. Sump Pump Switch (ON/OFF)
32. Filter Pump Switch (ON/OFF)
33. Transfer Pump Switch (ON/OFF)
34. pH/ORP Meters Switch (ON/OFF)
35. pH Pump Switch (ON/OFF)
36. ORP Pump Switch (ON/OFF)
37. Hour Meter
38. ORP Meter
39. pH Meter
40. Outlet Y
41. High Sump Pump Float
42. Filter Flowmeter
43. Low Filter Pump Float
44. End Fork Lift Holes
45. Filter Pump
46. Air Relief Valve
47. Skid
48. Side Fork Lift Holes
49. ORP Chemical Injector
50. pH Chemical Injector
51. Polishing Filter
52. Pressure Gauge: Polishing Filter
53. Product Tank
54. Product Tank Overflow
55. Transfer Pump
56. pH Pump
57. ORP Pump
58. Recycled Wash Water
59. Control Panel
60. Pressure Tank
61. Waste Oil Decanter
62. Ozone Generator
63. Oil Skimmer
64. Anti-Siphon Device
65. Outlet Ring
66. Holding Tank Overflow
67. Holding Tank
68. Pressure Gauge: Multi-Media Filter
69. Multi-Media Filter
70. Cartridge Filter
71. Pressure Gauge: Cartridge Filter
NOTE: Proper Attire is essential to your safety. It is advised to utilize whatever means necessary to protect eyes, ears, and skin.

1. A Collection Pit System must already be an established structure before installing the WCP-Series water recycling treatment system. A well designed pit system is critical for the proper operation of the recycle system. Consult your Mi-T-M dealer for installation requirements.

2. Place the water recycling treatment system platform on a hard, level surface in an area free of flammable vapors, combustible dust, gases or other combustible materials.

3. Set the unit so you have access to all four sides.

4. Do not place unit in an area:
   a. with insufficient ventilation.
   b. where environmental hazards (i.e. rain and snow) can come in contact with the water recycling treatment system.
   c. where the unit may freeze.

5. The water recycling treatment system is shipped with some union connections loosened to protect the unit from shipping damage. Tighten all union connections at this time.

### INSTALLATION

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<thead>
<tr>
<th>Ref</th>
<th>Description</th>
<th>WCP-10</th>
<th>WCP-20</th>
<th>WCP-30</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Rainwater Overflow</td>
<td>11 3/4&quot;</td>
<td>11 3/4&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>B</td>
<td>Rinse Water Outlet</td>
<td>8 3/4&quot;</td>
<td>8 3/4&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>C</td>
<td>Pressure Washer Outlet</td>
<td>5 3/4&quot;</td>
<td>5 3/4&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>D</td>
<td>Fresh Water Inlet</td>
<td>2 3/4&quot;</td>
<td>2 3/4&quot;</td>
<td>N/A</td>
</tr>
<tr>
<td>E</td>
<td>Rainwater Overflow</td>
<td>N/A</td>
<td>N/A</td>
<td>34&quot;</td>
</tr>
<tr>
<td>F</td>
<td>Rinse Water Outlet</td>
<td>N/A</td>
<td>N/A</td>
<td>37&quot;</td>
</tr>
<tr>
<td>G</td>
<td>Pressure Washer Outlet</td>
<td>N/A</td>
<td>N/A</td>
<td>40&quot;</td>
</tr>
<tr>
<td>H</td>
<td>Fresh Water Inlet</td>
<td>N/A</td>
<td>N/A</td>
<td>43&quot;</td>
</tr>
<tr>
<td>J</td>
<td>Inlet From Sump Pump</td>
<td>18 1/2&quot;</td>
<td>18&quot;</td>
<td>25&quot;</td>
</tr>
<tr>
<td>K</td>
<td>Outlet Return to Pit</td>
<td>21&quot;</td>
<td>21 1/2&quot;</td>
<td>28 1/4&quot;</td>
</tr>
<tr>
<td>L</td>
<td>Optional Outlet Return to Pit</td>
<td>35 1/2&quot;</td>
<td>68&quot;</td>
<td>74&quot;</td>
</tr>
</tbody>
</table>
6. Use schedule 80 PVC slip connections.
   a. Install the **Sump Pump** in the plumbing in between the **Sump Pit** and the unit. Install the **Sump Pump** close to the **Sump Pit** to reduce priming time.
   b. Install plumbing from the Sump Pit to the **Sump Pump** using minimum connection sizes of 1-1/2" for WCP-10 and 2" for the WCP-20 and WCP-30.
   c. Install a check valve between the **Sump Pit** and the **Sump Pump**.
   d. Install plumbing from the **Sump Pump** to the unit using 1-1/2" minimum plumbing.
   e. Install plumbing from the **Outlet Return To Pit** to the **Wash Water Catch Pit** using a minimum pipe size of 2" for the WCP-10 and 3" for the WCP-20 and WCP-30.
   f. Install plumbing from the **Sludge Tub** to the **Wash Water Catch Pit**. Position the **Sludge Tub** so that the **Sludge Hose** can be connected from the **Sludge Outlet** to the **Sludge Tub**.

7. Install the three floats in the **Sump Pit**. Allow a 2" tether and enough room for them to move freely without interfering with the plumbing.
   a. Float #1 Blue: Pit low level shut-off. Attach this float 10" above the inlet.
   b. Float #5 Red: Fresh water makeup. Height of this float must be adjusted to the individual pit system.
   c. Float #6 Green: Rain water overflow. Height of this float must be adjusted to the individual pit system.

**NOTE:** The above information is for reference only. Professional installers or architects may use this guideline to meet specific site requirements.
8. 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 are in the "OFF" position.
   c. Run water tight conduit or cord from the Sump Pump and Floats to the Control Panel.
   d. Run water tight conduit from the local disconnect to the Control Panel.
   e. The electrician will need to drill holes in the Control Panel for the conduit and/or cord(s).
   f. Make connections to the terminal strips as shown below.

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

9. Make the following hose connections:
   a. From a pressurized water supply to the Fresh Water Makeup.
   b. From the Outlet to Pressure Washer to the pressure washer.
   c. From the Rain Water Overflow to a storage tank for further processing or disposal. **DO NOT SEND THIS WATER BACK TO THE WASH WATER CATCH PIT!**
   d. Connect the Sludge Hose to the Sludge Outlet and the Sludge Tub.

   **NOTE:** In most cases, you must have a permit to legally dispose discharged water.
STOP
TO ENSURE YOUR WATER RECYCLE TREATMENT SYSTEM OPERATES
SAFELY AND EFFICIENTLY, COMPLETE THE PRE-OPERATION CHECKLIST
BEFORE PROCEEDING.

PRE-OPERATION CHECKLIST

<table>
<thead>
<tr>
<th>Before proceeding, answer all the questions on this checklist.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CODES:</strong></td>
</tr>
<tr>
<td>1. Does the electrical wiring meet all codes?</td>
</tr>
<tr>
<td>2. Does plumbing meet all codes?</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>LOCATION:</strong></td>
</tr>
<tr>
<td>1. Is the unit located on a hard level surface free of flammable vapors, combustible dust, gases or other combustible materials?</td>
</tr>
<tr>
<td>2. Is the unit located in a large ventilated area?</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>ELECTRICAL:</strong></td>
</tr>
<tr>
<td>1. Is the unit properly grounded?</td>
</tr>
<tr>
<td>2. Does the power supply, voltage and amperage match the data plate?</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>PLUMBING:</strong></td>
</tr>
<tr>
<td>1. Is the plumbing sized correctly?</td>
</tr>
<tr>
<td>2. Is the check valve installed before the Sump Pump?</td>
</tr>
<tr>
<td>3. Are all plumbing connections secured?</td>
</tr>
<tr>
<td>4. Are all hose connections secured?</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>GENERAL:</strong></td>
</tr>
<tr>
<td>1. Have all operators using this unit read and understood this entire manual?</td>
</tr>
<tr>
<td>2. Has the unit been installed by qualified service people who followed the instructions listed in this manual?</td>
</tr>
</tbody>
</table>

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

PRESTART PROCEDURES:
1. Position the valves on the WCP water recycling treatment system in the “Start-up Mode”.
   - **Water Inlet Flow Control Valve**: Turn valve one rotation short of completely closed.
   - **Filter Control Valve**: Turn valve one rotation short of completely closed.
   - **Multi-Media Filter Valve**: Turn valve to “Filter”.
   - **Polishing Filter Valve**: Turn valve to “Filter”.
   - **Cartridge Filter Drain Valve**: Turn valve completely closed.
   - **Air Bleed Valve**: Turn valve open.
   - **Oil Release Valve**: Turn valve completely closed.
   - **Ozone Pump Valve**: Turn valve open.
   - **Pressurized Clean-Out Valves**: Turn valves completely closed.

2. Be certain all hoses are securely connected.
3. Be certain the incoming air tube to the Ozone Generator is not obstructed.
4. Be certain all switches on the Control Panel and Ozone Generator are in the “OFF” position.
5. Turn on the power supply. The **Power Indicator Light** should glow.

START-UP:
1. Ensure water supply to the Fresh Water Makeup is turned on and pit is filled with water. If the pit is not full, water will fill the **Product Tank** and overflow through the **Product Tank Overflow** and back to the **Sump Pit**.
2. To prime the Sump Pump, remove the lid over the Basket Strainer and fill the Basket Strainer and the plumbing from Sump Pit to the Sump Pump, then replace the lid.
3. Turn on the Sump Pump Switch; water will flow into the Clarifier Tank.
4. Flow can be increased by opening the **Water Inlet Flow Control Valve** and reading the **Inlet Flowmeter**. Fill the Clarifier Tank.
5. After the water fills the Solids Separation Chamber, it will begin to flow through the Top Separator Cone and fill the Oil Separation Chamber.
6. As water fills the Oil Separation Chamber, the Ozone Pump will prime.
7. When the Oil Separation Chamber is full, the water will begin to flow through the Outlet Ring and into the Outlet Y.
8. The Outlet Y directs the water into the **Holding Tank** where it is ready to be processed.
9. As the water fills the **Holding Tank**, it will begin to flow out the **Overflow Drain** at the top of the tank. At this point, flow can be adjusted to the rated flow rate with the Water Inlet Flow Control Valve.
10. Ensure that the Ozone Pump Valve is open and turn on the **Ozone System Switch** located on the **Ozone Generator**. The ozone system is working properly when air bubbles are seen in the Oil Separation Chamber. If no air bubbles are observed, turn off the Ozone System Switch and loosen the union after the Ozone Pump until the pump is primed. (The Ozone Flow Control Valve is set at the factory and should not need adjusting.) The Ozone Generator Switch can now be turned on.
11. Turn on the Filter Pump Switch. The Filter Pump will automatically turn off when the **Product Tank** is full of water.
12. As water flows to the filters, use the Filter Control Valve to adjust the water flow to the GPM rating of the Water Treatment System. Check the Filter Flowmeter located ahead of the Multi-Media Filter.
13. Water will begin to flow from the Multi-Media Filter to the Cartridge Filter. As water flows through the Multi-Media Filter, air will automatically bleed from the Multi-Media Filter to the Cartridge Filter.
14. Air will release from the Air Bleed Valve as the Cartridge Filter fills. Close the Air Bleed Valve when water begins to exit from it. This indicates the Cartridge Filter is filled and water will begin flowing to the Polishing Filter. Since it may take some time for the air to bleed out of the Multi-Media Filter, occasionally open the Air Bleed Valve while the Filter Pump is operating to relieve any air buildup. For optimum efficiency, the Air Bleed Valve may need to be periodically opened to relieve any air that builds up in the Cartridge Filter during operation.
15. As water flows through the Polishing Filter, air will automatically bleed from the Polishing Filter to the Product Tank.
16. When the **Product Tank** is full and the Filter Pump turns off, prime the Transfer Pump by opening the Outlet to Pressure Washer valve until water exits.
17. Turn on the Transfer Pump Switch to allow water to flow into the Pressure Tank.
18. Water is now completely cycled in the system.
PREPARATION

pH AND ORP CONTROL SYSTEM:

Proper pH and ORP levels must be maintained in the pit to prevent growth of bacteria, algae, odors, etc. Water must be chemically balanced to effectively recycle. The effectiveness of Safe 0³ in the water depends on the pH level.

- The optimum pH level to add Safe 0³ is 6.5 - 6.8.
- As the pH level rises to 7.5, about 5% more Safe 0³ must be added to achieve the same ORP reading.
- At a pH level of 8.0 and above, a large amount of Safe 0³ must be added to increase the ORP reading.

As excess water flows through the Ozone System, it moves past the pH and ORP Sensor Probes before returning to the Oil Separation Chamber. The Sensor Probes analyze the pH and ORP levels in the water.

a. pH Sensor Probe. This probe analyzes the pH (acidity & alkalinity) in the water. If the water is too acidic (low pH) the acid will breakdown the iron present in the water to a liquid form, thus causing rusty looking water in the system. If the water is too alkaline (high pH) the bacteria killing potential of the ORP agent will be drastically lowered.

b. ORP Sensor Probe. This probe analyzes the Oxidation Reduction Potential (ORP). This reading states amount of bacteria killing agent in the water.

The probes analyze the pH and ORP levels of the water and display the readings on the digital pH and ORP Meters.
PREPARATION

INSTALLATION OF PH AND ORP PROBES:

**CAUTION**

**RISK OF PROBE DAMAGE!**
- DO NOT ALLOW PROBES TO BE EXPOSED TO AIR. ONCE PROBES ARE IN PLACE, TURN WATER ON IMMEDIATELY.
- HANDLE PROBES CAREFULLY AS THEY ARE MADE OF GLASS.
- DO NOT ALLOW PROBES TO BE EXPOSED TO FREEZING ENVIRONMENTS. KEEP THE ORIGINAL CONTAINERS IN WHICH THE PROBES WERE SHIPPED. THEY WILL BE NEEDED FOR PROBE STORAGE DURING WINTERIZING.

1. Turn off the **Ozone System Switch** and close the **Ozone Pump Valve**.
2. Locate the probe grips in the **Ozone System** plumbing and unscrew the nut from one of the grips.
3. Remove one of the probes (pH or ORP) from its storage container. (Be certain to save the container for probe storage during winterizing.)
4. Carefully slide the probe grip nut over the glass probe.
5. Gently push the probe through the probe grip approximately 2 inches and tighten the nut onto the probe grip.
6. Repeat process for the remaining probe.
7. Immediately open the **Ozone Pump Valve** to refill the plumbing with water.

**THE PROBES CANNOT BE ALLOWED TO DRY OUT.**

8. Turn on the **Ozone System Switch**.
9. Turn on the **pH/ORP Meters Switch**.
SETTING THE PH AND ORP METERS:

1. A suitable pH level reading should be 7.0. When the pH of the water rises above this number, chemical will be added from the pH Adjustment Chemical.

2. A suitable ORP reading should be 550 - 600. When the ORP of the water falls below this number, chemical will be added from the ORP Adjustment Chemical.

3. Follow the directions below to register the set point "C" of the pH and ORP Meters.
   a. Press the SP button "D" on the meter. Press the button that corresponds to the desired number you wish to change "E-G". The first number will begin flashing. Press "E-G" to raise the number or "H" to lower the number.
   b. When the correct number is achieved, press enter "I".

CALIBRATING pH METER:

1. The pH and ORP meters are preset at the factory.
   a. The ORP Meter will not need to be recalibrated.
   b. The pH Meter should be checked for accuracy on a weekly basis.

2. Follow the procedure outlined below to calibrate the pH Meter.
   a. Dip a test strip or a portable pH Meter in the Holding Tank for a pH reading.
   b. If the reading on "A" does not correspond to the reading on the test strip or a portable pH Meter, use a small screwdriver and slowly turn the CAL (calibration) set screw "B" on the pH Meter until the "A" reading matches the number on the test strip.
      1. You do not need to calibrate if the pH level on the test strip or a portable pH Meter and the pH meter is within a +/- .4.
      2. If the meter does not calibrate correctly, follow the detailed directions in the manual accompanying your pH Meter.

FINAL pH AND ORP SYSTEM SETUP:

1. Place the hoses from the pH and ORP Pumps into the Adjustment Chemicals.
   a. The recommended pH chemical for this system is aluminum sulfate.
   b. The recommended ORP chemical for this system is Safe 0³.

2. Turn on the pH and ORP Pump Switches. Chemicals will be inserted into the water as necessary.
PREPARATION

SETTING OF THE WATER RECYCLING TIMER:

1. Dormant water creates bacteria buildup and odor. If the water recycling treatment system is going to be dormant for more than six (6) hours, a water recycle mode should be setup.

2. The water recycling treatment system should be set to recycle in accordance with the unit dormant time.

   Example 1: If the unit will be dormant for approximately 10 hours, the recycle time should be set to run for 3-4 hours half way between the dormant time.
   - Dormant time: 8:00 p.m. to 6:00 a.m
   - Recycle time: 11:00 p.m. to 3:00 a.m.

   Example 2: If the unit will be dormant for approximately 3 hours, the recycle time should be set to run for 1 hour half way between the dormant time.
   - Dormant time: 2:00 a.m. to 5:00 a.m
   - Recycle time: 3:00 a.m. to 4:00 a.m.

   NOTE: If odor is still present, increase recycle times.

3. Disconnect power to the system and open the Control Panel. Located inside the Control Panel, the water recycling timer consists of individual pins which surround a 24 hour clock display.
   a. Turn the dial until the arrow points to the correct time.
   b. Each pin represents 1/2 hour of water recycling time.
   c. Using your fingertips, pull the amount of pins needed for water recycling time to correspond to the clock on the timer.
   d. The water recycling treatment system will automatically recycle during the set time.

4. Close the Control Panel and reconnect power supply.

OPERATION

1. The water recycling treatment system is now ready to operate.
2. Ensure all switches on the Control Panel are on.
3. With the sump pump running, set Water Inlet Flow Control Valve so that the Inlet Flowmeter reads the rated flow rate of the systems.
4. Oil Skimmer positioning must be done when water is flowing into the Clarifier Tank at the rated flow rate.
   a. Tilt the Oil Skimmer so that it just breaks the surface of the water.
   b. When a thick layer of oil accumulates in the Waste Oil Decanter, place a container below Waste Oil Release Valve and open the valve until water begins to come out.

5. Monitor the system closely the first few days to ensure smooth operation.
MAINTENANCE

WASTE OIL DECANTER:
1. The Oil Skimmer removes the top layer of oil and water from the Oil Separation Chamber and sends it to the Waste Oil Decanter.
2. As the Waste Oil Decanter 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, and back to the Wash Water Catch Pit to be recycled again.
4. As oil accumulates, it will have to periodically be removed from the Waste Oil Decanter.
   a. Place a 5 gallon bucket below the hose on the Waste Oil Release Valve
   b. Open the Waste Oil Release Valve and allow oil to flow into the 5 gallon bucket. Turn off valve when water begins flowing into the bucket.
   c. Dispose of oil according to EPA Standard

SOLIDS COLLECTION AREA:
The solids collection area of the Solids Separation Chamber will need to be cleaned occasionally to prevent overflow of solids into the Holding Tank. Do not use pressure washers while performing this maintenance.
1. Ensure the Sludge Hose is connected to the Sludge Tub and the Sludge Outlet Assembly and a Filter Bag is secured in the Sludge Tub.
2. By opening the Solids Drain Valve, sludge from the Solids Separation Chamber will enter the Sludge Tub.
3. If the solids accumulated at the bottom of the Solids Separation Chamber are unable to drain, open Valve 4 and Valve 5 to push the solids towards the Sludge Tub. If the solids are still unable to drain, open Valve 6 and Valve 7 to break up the solids on the inside of the Solids Separation Chamber. When the solids from the Solids Separation Chamber is emptied, close Valve 4, Valve 5, Valve 6 and Valve 7.
4. As sludge is forced into the disposable Filter Bag, solids in the Sludge are retained by the disposable Filter Bag 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 through Sludge Tub Outlet and back to the Wash Water Catch Pit.
6. When the Filter Bag is filled with accumulated solids, loosen the Hose Clamp used to retain the Filter Bag, tie the Filter Bag off and dispose of in a manner consistent with local and federal regulations.
7. To replace the Filter Bag, bunch up the neck and feed it through the Hose Clamp, place the Hose Clamp and Filter Bag over the inside nipple on the inlet coupling and tighten the Hose Clamp.

BACKWASHING OF FILTERS:
1. Backwashing removes debris from the filters and sends the sediments back to the pit where they will settle. Always backwash the filters if the Indicator Light or Audio Alarm turns on. The Multi-Media Filter Pressure Gauge should be checked daily for pressure elevation. When the pressure difference between the Multi-Media Filter Pressure Gauge and Cartridge Filter Pressure Gauge registers more than 10 PSI, the Multi-Media Filter needs to be cleaned even if the Indictor Light is not lit.
2. Pressure washers cannot be in use when backwashing any filters.
3. When performing backwash maintenance, backwash the Polishing Filter immediately after backwashing the Multi-Media Filter. When backwashing is complete, be certain to clean the Cartridge Filter.

CAUTION!
Filter Pump Switch must be turned off before repositioning any valves on the Filters! Failure to do so can cause equipment damage.
MAINTENANCE

BACKWASHING OF FILTERS (CONT.):

a. Multi-Media Filter & Polishing Filter:
   1. Turn the Filter Pump Switch to OFF.
   2. Set the Multi-Media Filter Valve to "Backwash".
   3. Turn the Filter Control Valve one rotation short of completely closed.
   4. Turn the Filter Pump Switch to ON.
   5. Press the Backwash Switch until the Filter Pump turns on.
   6. Use the Filter Control Valve to adjust the rate on the Filter Flow Meter as listed:
      
      |       |       |       |
      | WCP-10 | WCP-20 | WCP-30 |
      | 10 GPM | 15 GPM | 20 GPM |

   7. When the backwash water is the same color as the incoming water, the backwashing process is complete. (Approximately 5 minutes.)
   8. Turn the Filter Pump Switch to OFF.
   9. Set the Polishing Filter Valve to "Filter".
   10. Set the Multi-Media Filter Valve to "Backwash".
   11. Turn the Filter Pump Switch to ON. If the Filter Pump does not turn on, press the Backwash Switch until the Filter Pump turns on.
   12. Set the Filter Control Valve as listed in #6, above. See "Caution" above.
   13. Backwash approximately 5 minutes.
   14. Turn the Filter Pump Switch to OFF.
   15. Set the Polishing Filter Valve to "Filter".
   16. Turn the Filter Pump Switch to ON.
   17. Clean Cartridge Filter as explained below.

b. Cartridge Filter:
   When the pressure difference between the Cartridge Filter Pressure Gauge and the Polishing Filter Pressure Gauge is more than 10 PSI, it is time to clean the Cartridge Filter.
   1. Turn the Filter Pump Switch to OFF.
   2. Open the Cartridge Filter Drain Valve to allow water to be released from the Cartridge Filter.
   3. Open the Air Bleed Valve to allow air to displace the outgoing water.
   4. When water is drained from tank, unscrew the center ring.
   5. There are knobs on the center ring which are designed to pry open the Cartridge Filter. Place a center ring knob into the center groove and pry the lid open.
   6. Remove the Reemay Polyester Fiber filter(s).

   | CAUTION! |
   | Risk of bodily injury! Filters may weigh up to 70 pounds each. Use caution when lifting the filters. |

   7. Use a garden hose to spray clean the filter(s).
   8. Rinse out the Cartridge Filter tank.
   9. If filter(s) are in good condition, reinsert them into the Cartridge Filter. If excessive wear is noted, replace with new filter(s).
   10. Lubricate the o-ring with petroleum jelly and replace around the outside of the Cartridge Filter body.
   11. Reinstall the tank lid.
   12. Reinstall and tighten the center ring.
   13. Close the Cartridge Filter Drain Valve to stop water from flowing out the bottom of the Cartridge Filter tank.
   14. Turn the Filter Pump Switch to ON.
   15. Leave the Air Bleed Valve open as the tank fills with water. Close completely when water begins to emerge from the Air Bleed Valve.
MAINTENANCE

ACTIVE CARBON TEST:

To ensure the Polishing Filter is working effectively, you should perform an active carbon test.

I. TEST PROCEDURE A: For systems with pH & ORP Control, your test kit will include test strips.
   A. Following the directions included with the test strip kit, test the water in the Holding Tank.
      1. The test strip should show chlorine present in the system.
      2. If no chlorine is present, check the following:
         a. The ORP Adjustment Chemical is empty. Replace.
         b. The ORP Pump is turned off or malfunctioning. Ensure the ORP Pump Switch is in the ON position. Contact your local distributor if additional maintenance is needed.
         c. If you are not using chlorine as an ORP control, you must refer to TEST PROCEDURE B to ensure the carbon is still active.
   B. With the Filter Pump operating, use a test strip to test the incoming water to the Product Tank.
      1. The test should not show chlorine present in the system.
      2. If chlorine is present, the carbon must be replaced. See REMOVING AND REFILLING MEDIA section pg. 21.

II. TEST PROCEDURE B: For systems without pH & ORP Control, your test kit will include a Carbon removal scoop, 4 oz. empty container, 2 oz. empty container, 2 oz. bottle of chlorine, Chlorine test paper with color chart. Contact your local distributor if any parts are missing.
   A. Turn off the Filter Pump Switch.
   B. Unscrew the six head bolts and remove the Polishing Filter Valve.
   C. Remove the following items from the Polishing Filter tank in the order given:
      1. Upper dispersing cup.
      2. Small section of PVC.
      3. Lower dispersing cup.
   D. Fill the Carbon Removal Scoop with a sample of carbon from the Polishing Filter tank.
   E. Add 2 oz. of the carbon sample into the 4 oz. empty container.
   F. Fill the 2 oz. empty container with water.
   G. To the water, add one drop of chlorine.
   H. Follow the directions on the bottle of test strips. Dip a chlorine test paper into the 2 oz. container. The chlorine reading should be at least 10 parts per million. If not, add another drop of chlorine.
   I. Add the 2 oz. of chlorine/water solution to the carbon sample in the 4 oz. container.
   J. Tightly cap the chlorine/carbon mixture and shake occasionally for 3 minutes.
   K. Dip a new strip of chlorine test paper into the liquid part of the 4 oz. container. Do not dip the test paper into the solid carbon as this will produce incorrect results. Read the directions on the bottle of test strips.
   L. Check the reading against the color chart.
      1. A reading of zero means the carbon is still active.
         a. Reassemble the dispersing section of the Polishing Filter and replace the Polishing Filter Valve.
         b. Turn the Filter Pump Switch on.
      2. A positive reading means the carbon is inactive and must be recharged or replaced. Refer to pg. 18.
MAINTENANCE

REMOVING & REFILLING MEDIA FROM THE MULTIMEDIA & POLISHING FILTER:

1. New media can be ordered from your local distributor using the part numbers listed below.

<table>
<thead>
<tr>
<th>Model</th>
<th>Part number</th>
<th>Description</th>
<th>Quantity</th>
<th>Weight (lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WCP-10-0M10</td>
<td>19-0502</td>
<td>22.5&quot; MEDIA FILTER</td>
<td>1</td>
<td>100 LBS</td>
</tr>
<tr>
<td></td>
<td>33-0303</td>
<td>GRAVEL #3</td>
<td>1 BAG</td>
<td>50 LBS</td>
</tr>
<tr>
<td></td>
<td>33-0304</td>
<td>GARNET #12</td>
<td>.5 BAG</td>
<td>50 LBS</td>
</tr>
<tr>
<td></td>
<td>33-0305</td>
<td>GARNET #50</td>
<td>.5 BAG</td>
<td>50 LBS</td>
</tr>
<tr>
<td></td>
<td>33-0306</td>
<td>FILTER AG</td>
<td>1 BAG</td>
<td>50 LBS</td>
</tr>
<tr>
<td>19-0502</td>
<td>22.5&quot; POLISHING FILTER</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>33-0302</td>
<td>ACTIVATED CARBON</td>
<td>2</td>
<td>110 LBS</td>
</tr>
<tr>
<td>WCP-20-0M10</td>
<td>19-0503</td>
<td>25&quot; MEDIA FILTER</td>
<td>1</td>
<td>100 LBS</td>
</tr>
<tr>
<td></td>
<td>33-0303</td>
<td>GRAVEL #3</td>
<td>1 BAG</td>
<td>100 LBS</td>
</tr>
<tr>
<td></td>
<td>33-0304</td>
<td>GARNET #12</td>
<td>1 BAG</td>
<td>100 LBS</td>
</tr>
<tr>
<td></td>
<td>33-0305</td>
<td>GARNET #50</td>
<td>1 BAG</td>
<td>100 LBS</td>
</tr>
<tr>
<td></td>
<td>33-0306</td>
<td>FILTER AG</td>
<td>2 BAGS</td>
<td>50 LBS</td>
</tr>
<tr>
<td>19-0503</td>
<td>25&quot; POLISHING FILTER</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>33-0302</td>
<td>ACTIVATED CARBON</td>
<td>3</td>
<td>165 LBS</td>
</tr>
<tr>
<td>WCP-30-0M10</td>
<td>19-0541</td>
<td>36&quot; MEDIA FILTER</td>
<td>1</td>
<td>100 LBS</td>
</tr>
<tr>
<td></td>
<td>33-0303</td>
<td>GRAVEL #3</td>
<td>3 BAGS</td>
<td>400 LBS</td>
</tr>
<tr>
<td></td>
<td>33-0304</td>
<td>GARNET #12</td>
<td>2 BAGS</td>
<td>200 LBS</td>
</tr>
<tr>
<td></td>
<td>33-0305</td>
<td>GARNET #50</td>
<td>3 BAGS</td>
<td>200 LBS</td>
</tr>
<tr>
<td></td>
<td>33-0306</td>
<td>FILTER AG</td>
<td>4 BAGS</td>
<td>100 LBS</td>
</tr>
<tr>
<td>19-0540</td>
<td>31&quot; POLISHING FILTER</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>33-0302</td>
<td>ACTIVATED CARBON</td>
<td>4 BAGS</td>
<td>220 LBS</td>
</tr>
</tbody>
</table>

2. Be certain to wear proper attire such as goggles, gloves, coveralls, dust mask, etc. to protect eyes and skin.
3. Turn off the Filter Pump Switch.
4. Remove the valve from the desired filter tank.
5. Remove the following items from the filter tank in the order given:
   Upper dispersing cup, Small section of PVC, Lower dispersing cup.
6. Use a vacuum to remove the media from the filter.
7. Cover the PVC opening to prevent media from entering the laterals.
8. Ensure the lateral assembly remains centered and flush on the bottom of the tank and the layers are level when pouring media into the filter tank.
9. Reassemble the dispersing section of the filter tank and replace its corresponding valve.
10. Turn on the Filter Pump Switch.
11. Dispose of used media according to EPA standards.
MAINTENANCE

WATER TESTING:
Water chemical makeup should be tested on a weekly basis. With the Sump Pump operating, use a test strip, test the incoming water to the Holding Tank. (Follow the directions given with your test strips.) Use the flow chart below to check and correct the following:

1. pH: Acidity and alkalinity in the water. Low pH (acidic) will cause rusty looking water.
2. Alkalinity: Dissolvable salts in the water. Too much alkaline causes cloudiness and reduces filter life.
3. Calcium Hardness: Calcium in the water. Too much calcium creates scale buildup in coils of hot water pressure washers.
4. *Free Chlorine: Chlorine which is not combined with dirt, oils, etc. Controls odor, bacteria and algae formation. *If using chlorine as a water purifying agent.

WINTERIZING:
If you must store your unit in an area where the temperature may fall below 32°F/0°C, you can protect your water recycling treatment system by draining all water from the system.

1. Follow the backwashing/cleaning procedures outlined on pages 15-16 for the Multi-Media Filter, Polishing Filter and Cartridge Filter, but DO NOT refill the Cartridge Filter.
2. Turn all switches on the Control Panel to the OFF position and disconnect power to the Control Panel.
3. Open the check valve near the Sump Pit and drain the water transport line. Drain Sump Pump.
4. Open check valve at the inlet and drain the inlet line.
5. Set the Multi-Media Filter Valve 3 and the Polishing Filter Valve 4 to "Winterize".
6. Remove drain plug from Multi-Media Filter and Polishing Filter.
7. Open the Cartridge Filter Drain Valve 5 and open the Air Bleed Valve. Break the unions on each side.
8. Remove the drain plug from the Filter Pump.
9. Remove the drain plug from the Transfer Pump.
10. Follow the procedures listed for the solids collection area in the maintenance section. Completely drain the Clarifier Tank.
11. Remove the pH and ORP Sensor Probes and place them in their original containers filled with deionized water. Store at room temperature.
12. Drain the pH and ORP lines.
13. Store all chemicals at room temperature.
<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>TROUBLESHOOTING</th>
<th>REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SUMP PUMP</strong>&lt;br&gt;Sump Pump will not run.</td>
<td>Floats are not adjusted correctly in the Sump Pit.</td>
<td>Readjust.</td>
</tr>
<tr>
<td></td>
<td>Not enough water in the Sump Pit.</td>
<td>Add water to the Sump Pit.</td>
</tr>
<tr>
<td></td>
<td>Float 1 is defective.</td>
<td>Replace.</td>
</tr>
<tr>
<td></td>
<td><strong>Level Limit Switch</strong> in the Holding Tank has flipped up.</td>
<td>Push Level Limit Switch down, or remove excess water in the Holding Tank.</td>
</tr>
<tr>
<td></td>
<td>Circuit overload/breaker has tripped.</td>
<td>Reset breaker or replace fuse at power source.</td>
</tr>
<tr>
<td></td>
<td>Motor overload.</td>
<td>Allow motor to cool. Motor will automatically restart when cool.</td>
</tr>
<tr>
<td><strong>Sump Pump</strong> motor starts and stops frequently.</td>
<td>Motor is defective.</td>
<td>Replace pump.</td>
</tr>
<tr>
<td></td>
<td>This is a common occurrence on initial start-up while pits are filling.</td>
<td>Allow pits to fill.</td>
</tr>
<tr>
<td></td>
<td>Excessive water flow to reclaim unit.</td>
<td>Turn valve clockwise to reduce flow.</td>
</tr>
<tr>
<td><strong>Sump Pump</strong> runs, but there is little or no water discharge.</td>
<td><strong>Sump Pump</strong> impeller is clogged.</td>
<td>Disconnect power and unplug impeller.</td>
</tr>
<tr>
<td></td>
<td>Motor overload.</td>
<td>Allow motor to cool. Motor will automatically restart when cool.</td>
</tr>
<tr>
<td></td>
<td><strong>Sump Pit</strong> is not large enough.</td>
<td>Expand size of pit.</td>
</tr>
<tr>
<td></td>
<td>Strainer basket in <strong>Sump Pump</strong> is clogged.</td>
<td>Clean, repair or replace.</td>
</tr>
<tr>
<td></td>
<td>Water level is below pump inlet.</td>
<td>Ensure Float 1 is not caught in plumbing.</td>
</tr>
<tr>
<td></td>
<td>There is an air lock in the <strong>Sump Pump</strong>.</td>
<td>Manually fill the inlet pipe with water.</td>
</tr>
<tr>
<td></td>
<td>Low voltage.</td>
<td>Ensure wire size is capable of handling the rated amperage of the unit. If wire size is correct, contact your distributor.</td>
</tr>
<tr>
<td></td>
<td>Clogged impeller or worn pump parts. Defective switch inside Float 1.</td>
<td>Contact your distributor.</td>
</tr>
<tr>
<td><strong>Sump Pump</strong> will not turn off.</td>
<td>Pump is air locked.</td>
<td>Replace. Cycle pump in one minute increments several times to clear air from pump.</td>
</tr>
<tr>
<td>SYMPTOM</td>
<td>PROBABLE CAUSE</td>
<td>REMEDY</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>ELECTRICAL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No power at Control Panel.</td>
<td>Power failure to Control Panel.</td>
<td>Check circuit breaker at power source or contact your local distributor.</td>
</tr>
<tr>
<td></td>
<td>Power Indicator Light is OFF.</td>
<td>Blown fuses inside Control Panel. on step down transformer.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check fuses, replace if necessary. If fuses are OK, contact your distributor.</td>
</tr>
<tr>
<td><strong>CLARIFIER TANK</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water will not flow into the</td>
<td>Sump Pump is not turned on.</td>
<td>Move Sump Pump Switch to &quot;ON&quot;.</td>
</tr>
<tr>
<td>Clarifier Tank.</td>
<td>Circuit breaker has tripped or is &quot;OFF&quot;.</td>
<td>Reset or turn breaker &quot;ON&quot;.</td>
</tr>
<tr>
<td></td>
<td>High Sump Pump Float in Holding Tank is malfunctioning.</td>
<td>Check On/Off with voltmeter, repair or replace.</td>
</tr>
<tr>
<td></td>
<td>Strainer basket in Sump Pump is clogged.</td>
<td>Clean, repair, or replace.</td>
</tr>
<tr>
<td></td>
<td>Dirt is lodged in the check valve.</td>
<td>Clean.</td>
</tr>
<tr>
<td></td>
<td>Sump Pump impeller is clogged.</td>
<td>Disconnect power and clean.</td>
</tr>
<tr>
<td></td>
<td>Lines or valves contain frozen water.</td>
<td>Allow to thaw. Inject with warm water. water if necessary.</td>
</tr>
<tr>
<td><strong>FILTERS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indicator Light remains on after</td>
<td>Debris is packed too tightly.</td>
<td>Increase backwash flow to 5 GPM above the maximum listed on pg.16.</td>
</tr>
<tr>
<td>backwashing.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SHAFT SEALS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Water is leaking at pumps.</td>
<td>Damaged stationary shaft seal.</td>
<td>Seal ran dry. Ensure seal chamber is filled with liquid.</td>
</tr>
<tr>
<td>Short seal life.</td>
<td>Unexpected temperature and chemical usage.</td>
<td>Replace.</td>
</tr>
<tr>
<td>SYMPTOM</td>
<td>PROBABLE CAUSE</td>
<td>REMEDY</td>
</tr>
<tr>
<td>------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>FILTER PUMP</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Filter Pump will not run.</td>
<td>Filter Pump Switch is off.</td>
<td>Turn switch on.</td>
</tr>
<tr>
<td></td>
<td>Circuit overload/breaker has tripped.</td>
<td>Reset breaker or replace fuse.</td>
</tr>
<tr>
<td></td>
<td>Motor overload.</td>
<td>Allow motor to cool. Motor will automatically restart when cool.</td>
</tr>
<tr>
<td></td>
<td>Filter Pump Switch is malfunctioning.</td>
<td>Replace switch.</td>
</tr>
<tr>
<td></td>
<td>Low Filter Pump Float or High Filter Pump Float is malfunctioning.</td>
<td>Check On/Off with voltmeter, repair or replace.</td>
</tr>
<tr>
<td>Filter Pump runs but there is no water discharge OR Filter Pump cycles excessively.</td>
<td>Plumbing is obstructed.</td>
<td>Remove obstruction.</td>
</tr>
<tr>
<td></td>
<td>Pump sucking air.</td>
<td>Eliminate leaks and tighten all connections on intake line.</td>
</tr>
<tr>
<td></td>
<td>Low water in Holding Tank.</td>
<td>Increase flow by opening Water Inlet Flow Control Valve 1.</td>
</tr>
<tr>
<td></td>
<td>Rain Water Overflow is discharging too much water.</td>
<td>Reduce flow by adjusting solenoid on the Rain Water Overflow.</td>
</tr>
<tr>
<td></td>
<td>Check valve is leaking or stuck in closed position.</td>
<td>Clean or replace as necessary.</td>
</tr>
<tr>
<td></td>
<td>Filters are dirty.</td>
<td>Backwash filters. (See pg.15-16.)</td>
</tr>
<tr>
<td></td>
<td>Lines or valves contain frozen water.</td>
<td>Allow to thaw. Inject with warm water if necessary. Ensure the Sump Pit remains above freezing.</td>
</tr>
<tr>
<td></td>
<td>Pump impeller is obstructed.</td>
<td>Disconnect power and clean.</td>
</tr>
<tr>
<td></td>
<td>Pump motor is operating below maximum RPM.</td>
<td>Contact your local distributor.</td>
</tr>
<tr>
<td>Filter Pump is hot or turns off.</td>
<td>Multi-Media Filter is dirty.</td>
<td>Backwash.</td>
</tr>
<tr>
<td></td>
<td>Low voltage.</td>
<td>Ensure wire size is capable of handling the rated amperage of the unit. If wire size is correct, contact your local distributor.</td>
</tr>
<tr>
<td></td>
<td>Motor overload.</td>
<td>Allow motor to cool. Motor will automatically restart when cool.</td>
</tr>
</tbody>
</table>
## TROUBLESHOOTING

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>PROBABLE CAUSE</th>
<th>REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TRANSFER PUMP</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Transfer Pump runs but there is low water</strong></td>
<td>Water is being used elsewhere.</td>
<td>Reduce flow to other source or contact your local distributor.</td>
</tr>
<tr>
<td><strong>Low Transfer Pump Float is not functioning.</strong></td>
<td>Low Transfer Pump Float is not functioning.</td>
<td>Check On/Off with voltmeter. Repair or replace.</td>
</tr>
<tr>
<td><strong>Timer kicked in. Water is recycling</strong></td>
<td>Timer kicked in. Water is recycling</td>
<td>Do not run pressure washers while water is in timed recycle mode.</td>
</tr>
<tr>
<td><strong>Rain Water Overflow is discharging back to</strong></td>
<td>Rain Water Overflow is discharging back to pit.</td>
<td>Do not run pressure washers while water is discharging.</td>
</tr>
<tr>
<td>plumbing.</td>
<td>Plumbing is obstructed or too small.</td>
<td>Remove obstruction or use larger plumbing.</td>
</tr>
<tr>
<td><strong>Scale buildup in metal piping.</strong></td>
<td>Scale buildup in metal piping.</td>
<td>Replace with plastic plumbing.</td>
</tr>
<tr>
<td><strong>Transfer Pump cycles excessively.</strong></td>
<td>Solenoid valve(s) is open or stuck open.</td>
<td>Fix Solenoid valve(s) or reduce flow.</td>
</tr>
<tr>
<td></td>
<td>Pump sucking air.</td>
<td>Eliminate leaks and tighten all connections on intake line.</td>
</tr>
<tr>
<td></td>
<td>Bladder failure in Pressure Tank.</td>
<td>Replace Pressure Tank.</td>
</tr>
<tr>
<td></td>
<td>Pressure switch malfunction.</td>
<td>Adjust pressure settings.</td>
</tr>
<tr>
<td></td>
<td>Too low of pressure in the Pressure Tank.</td>
<td>Increase pressure.</td>
</tr>
<tr>
<td><strong>Transfer Pump does not turn off.</strong></td>
<td>Pressure switch line is obstructed.</td>
<td>Disconnect line and remove obstruction. Replace.</td>
</tr>
<tr>
<td></td>
<td>Pressure switch is out of alignment.</td>
<td>Realign or replace.</td>
</tr>
<tr>
<td></td>
<td>Pressure switch contacts are frozen.</td>
<td>Replace if necessary.</td>
</tr>
<tr>
<td></td>
<td>Impeller is obstructed.</td>
<td>Contact your local distributor.</td>
</tr>
</tbody>
</table>
### TROUBLESHOOTING

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>PROBABLE CAUSE</th>
<th>REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SOLENOIDS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solenoid valve won’t turn on.</td>
<td>Low or no water pressure.</td>
<td>Turn off water, switch solenoids between valves. Turn on water. If problem is corrected, replace faulty solenoid.</td>
</tr>
<tr>
<td></td>
<td>No electrical contact to solenoid.</td>
<td>Contact your local distributor.</td>
</tr>
<tr>
<td>Solenoid valve leaks when turned off.</td>
<td>Solenoid is obstructed.</td>
<td>Turn off water, remove and clean solenoid.</td>
</tr>
<tr>
<td></td>
<td>Damaged solenoid.</td>
<td>Replace.</td>
</tr>
<tr>
<td></td>
<td>Solenoid o-ring is misaligned or damaged.</td>
<td>Realign or replace.</td>
</tr>
<tr>
<td></td>
<td>Diaphragm seat is dirty.</td>
<td>Clean or replace.</td>
</tr>
<tr>
<td></td>
<td>Diaphragm is damaged.</td>
<td>Replace.</td>
</tr>
<tr>
<td><strong>ODOR</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Excessive odor in water system.</td>
<td>Not enough chemicals in the system to maintain water balance.</td>
<td>Increase the pH and ORP set points. (See pg.14)</td>
</tr>
<tr>
<td></td>
<td>Water remains dormant in the system too long causing bacteria buildup.</td>
<td>Increase timer settings to recycle water.</td>
</tr>
<tr>
<td><strong>CHEMICALS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Excessive chemical usage.</td>
<td>pH and ORP Meters are calibrated incorrectly or faulty probes.</td>
<td>Recalibrate meters or change probes.</td>
</tr>
<tr>
<td>Low chemical usage (with possible odor.)</td>
<td>Chemical pumps are not working.</td>
<td>Replace chemical hose inside pump. Recalibrate pH and ORP Meters.</td>
</tr>
<tr>
<td><strong>WATER FLOW</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air shoots from Water Outlet.</td>
<td>This is a common occurrence while pump is priming.</td>
<td>Air will stop shooting from the water outlet when pump is primed.</td>
</tr>
<tr>
<td></td>
<td><strong>Transfer Pump</strong> is sucking air at suction inlet.</td>
<td>Eliminate leaks or tighten connection.</td>
</tr>
<tr>
<td>Water will not turn off.</td>
<td>Solenoid failure.</td>
<td>Repair or replace.</td>
</tr>
</tbody>
</table>
### REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>REORDER PART #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Replacement Cartridge Filter for WCP-10</td>
<td>19-0109</td>
</tr>
<tr>
<td>Replacement Cartridge Filter for WCP-20/30</td>
<td>19-0098</td>
</tr>
<tr>
<td>pH Sensor Probe</td>
<td>32-0538</td>
</tr>
<tr>
<td>ORP Sensor Probe</td>
<td>32-0540</td>
</tr>
<tr>
<td>Activated carbon / 55 lbs.</td>
<td>33-0302</td>
</tr>
<tr>
<td>Gravel / 100 lbs.</td>
<td>33-0303</td>
</tr>
<tr>
<td>Garnet #12 / 100 lbs.</td>
<td>33-0304</td>
</tr>
<tr>
<td>Garnet #50 / 100 lbs.</td>
<td>33-0305</td>
</tr>
<tr>
<td>Filter Ag / 25 lbs.</td>
<td>33-0306</td>
</tr>
<tr>
<td>Test Strips / 50</td>
<td>33-0314</td>
</tr>
</tbody>
</table>
STATEMENT OF WARRANTY

Mi-T-M warrants all parts (except those referred to below) of your new WCP Water Recycling Treatment system to be free from defects in materials and workmanship for One (1) 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
   - Filters
   - Gaskets
   - O-rings
   - Packings
   - Pistons
   - Valve Assembly
   - Brushes
   - Filtering Media
   - Sensors

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.

5. 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.