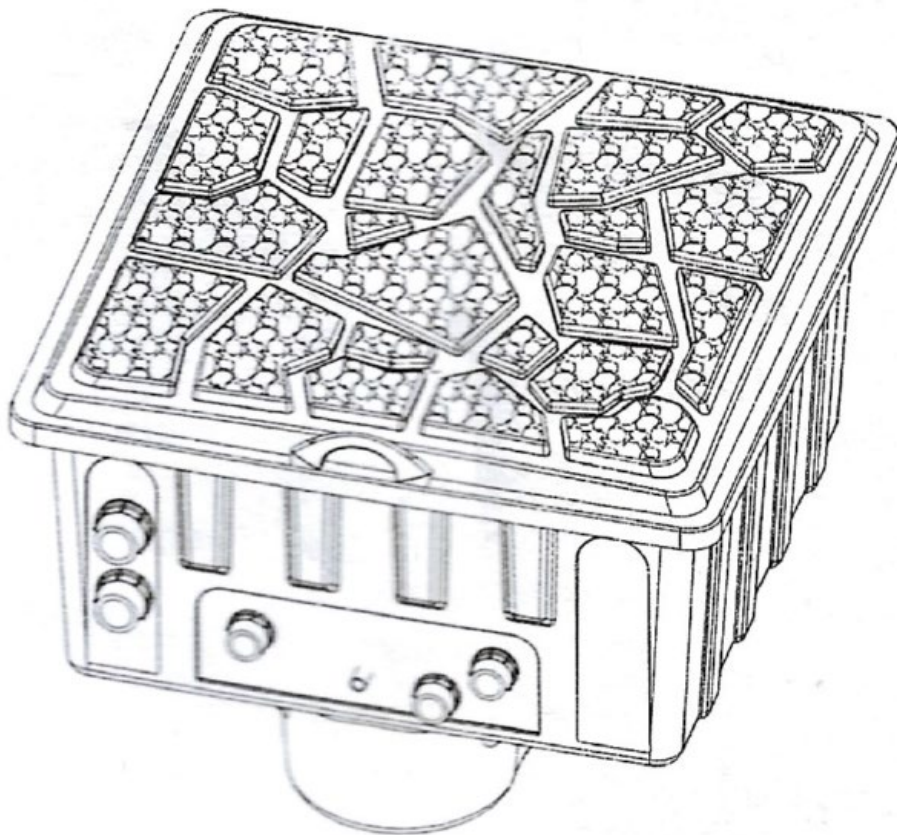


INSTALLATION & OPERATION MANUAL OF FILTRATION UNIT

WL-DMT
WL-MMT
WL-GMT



II. Safety precaution

Read and follow safety instructions provided safety warnings, cautions and notices to make sure to use this unit safely. Do not try to operate this unit in the way which is not recommended in the instruction.



Please always follow basic safety precautions to avoid fatal electrical shock hazard, fire or equipment damage caused.

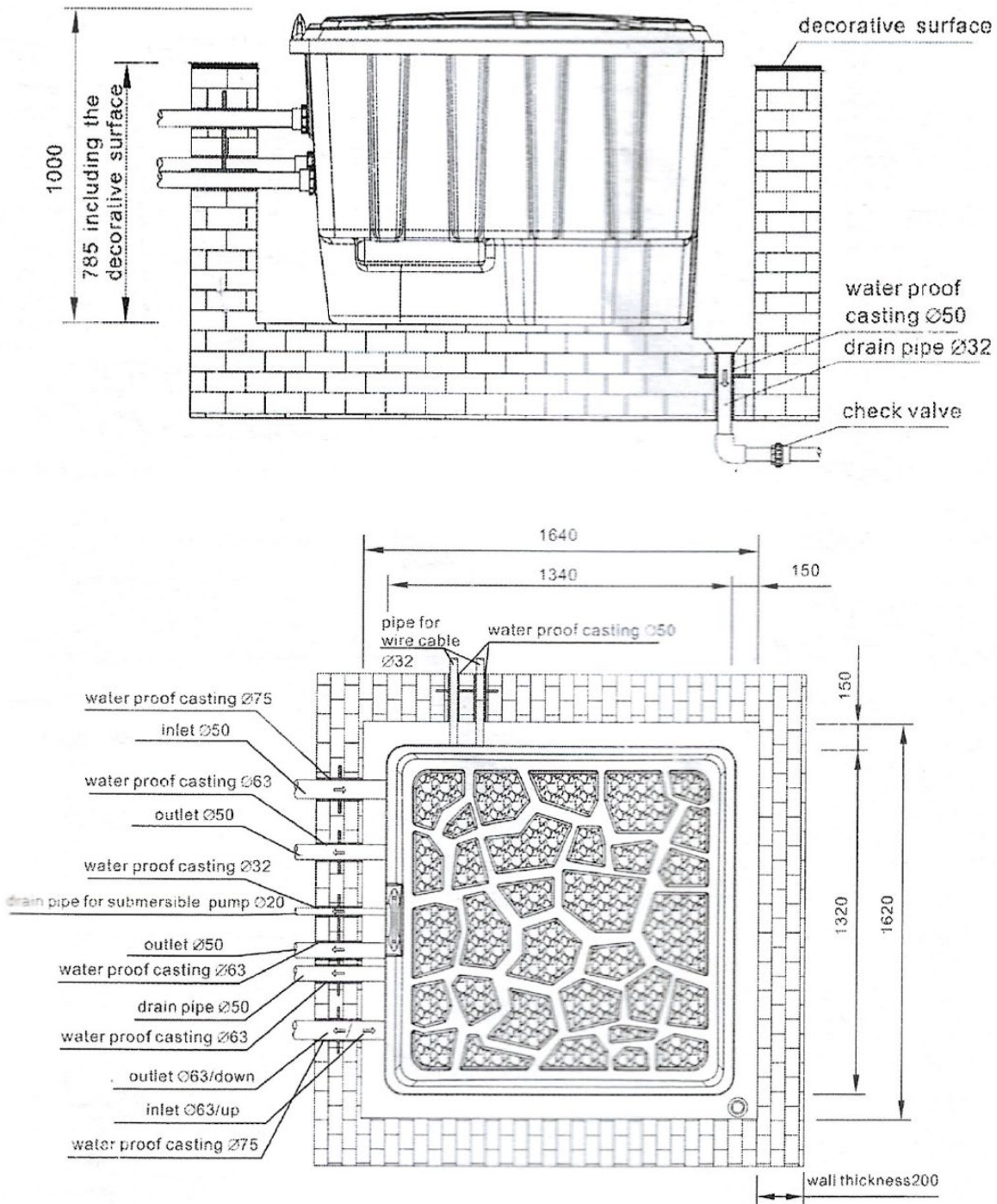
1. To avoid the danger of injury, children are not allowed to operate this filtration unit.
2. To avoid the danger of electric shock, the circuit must have a Ground Fault Circuit Interrupter (GFCI), and have an appropriately leakage circuit breaker. The earth resistance should be no more than 0.1 Ω .
If you are not sure whether earth termination system is included, please contact with licensed electrician.
If you want to install the electric power and connection wires underground, it must meet the requirement of the National Electrical Code GB50303-2002 and CECS: 2002.
3. To avoid the danger of electric shock, please change the damaged cable.
4. Select the location position.
Never store flammable and explosive materials near the filtration unit.
It is designed for swimming pool. Never use the filtration unit for other liquids.
5. Power supply
Wire connection must be done by a licensed or certificated electrician and make sure it is power off before operation. The earth wire of electrical control box must be connected with earth termination of power supply. Otherwise, it may cause electric shock, fire and equipment damage.
6. Maintenance
Never try to disassemble or modify the electric box and wiring.
Make sure the leakage circuit-breaker work properly, it must be checked once per month at least.

FILTRATION UNIT

1. Installation

Installation diagram

WL-MNT-8/WL-MNT-12-WL-MNT16



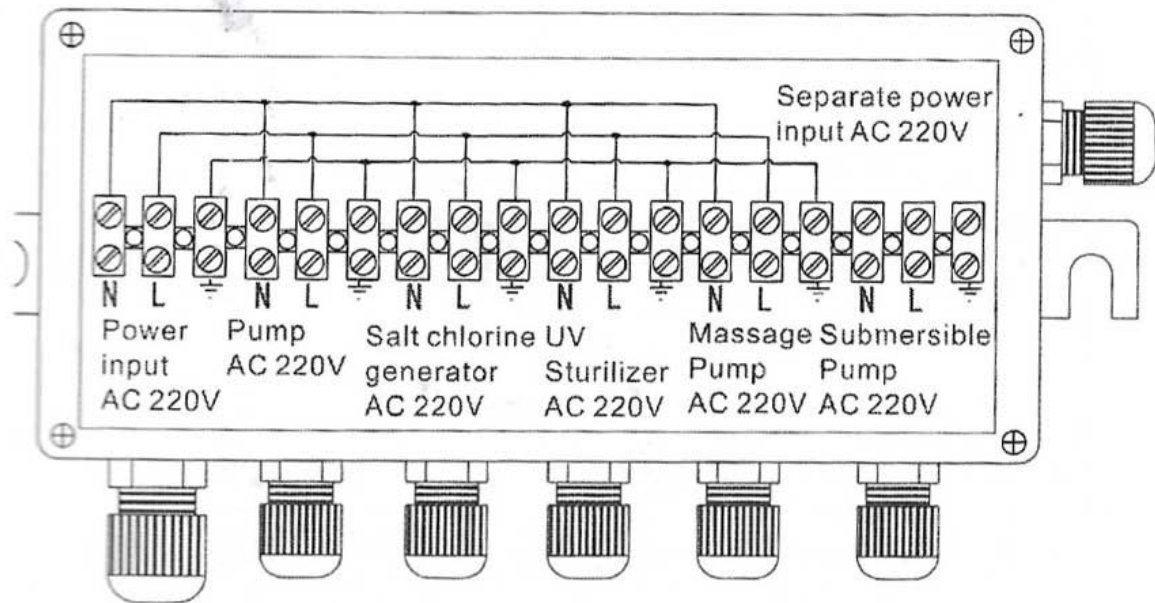
2. Installation

1. Precast installation base according to the dimension of installation diagram at the place of ordered position. Then install the filtration unit after it is solidified.
2. Inspect the filtration unit, clean up the installation base and adjust benchmark before installation.
3. Rated Volt: AC220-240V Frequency: 50Hz.
4. Make sure all the electrical equipments connected with leakage circuit breaker x1.5mm² separate cable for submersible pump before installation (Rated current is 32A, rated operating current is not more than 30mA. Operating break time is less than 0.1 second).
5. The size of pre-casted copper cable between electrical control box and loading junction box meets (GB) 3x4mm², and 3x1.5mm² separated cable for submersible pump, the length is not more than 20m.
6. Place the filtration unit in proper position according to the installation diagram Using gradienter to adjust the levelness, to make sure the tolerance less than 2 mm. Set filling pieces to regulate the horizontal if it is not in level.
7. install water pipe, drain pipe and cable pipe according to installation diagram. Controller must be installed where is moisture proof and water proof. All wire connection must be done by electrician according to manual.
8. The connection part of filter and pool wall is filled with cement and sealed with sealant,
9. Pave the stone based on the whole structure of pool after installation.
10. The electric control box must be installed at the ventilated place, avoid sunshine and far from chemical glass, and 3 meters away from water to make sure safety.

If it is installed outdoor, please make sure the control box waterproof and rainproof.

WL-MMT electric control box wiring diagram

WL-MMT electric control box wiring diagram



3. Equipments



IV. Operating Instructions for filtration unit

1. Connect input power as shown in Wiring Diagram of electric control box (P10-P11).
2. Fill the water into pump before operating the filtration unit, kindly refer to the operating details of pump in this manual.
3. Start pump first, then activate UV sterilizer (GMT series configuration) and salt chlorine generator (GMT series configuration) in sequence, otherwise UV sterilizer or salt chlorine generator will be damaged.

Note: Forbidden to start first or activate UV sterilizer or salt chlorine generator alone, UV sterilizer and salt chlorine generator must run after starting water pump.

4. To make sure salt chlorine generator running normally, put proper salt into pool water, recommended concentration is 2700-3400PPM (i.e. salt content is 2.7-3.4kg/ m³), refer to operating instructions of salt chlorine generator for details.
5. Check above four steps, connect the pump to trial operate. Stop working if any abnormal and resolve all problems to ensure normal operation.

1. Operation and maintenance of pump

A. Operation

1. Never run pump dry. Running pump dry may damage seals, causing leakage and flooding. Fill pump with water before starting motor.
2. Before removing trap cover:
 - a. STOP PUMP before proceeding.
 - b. CLOSE GATE VALVES in suction and discharge pipes.
 - c. RELEASE ALL PRESSURE from pump and piping system.
 - d. NEVER tighten or loosen clamp while pump is operating.
3. Do not block pump suction.

B. Initial Water Filling

1. Release all pressure from filter, pump, and piping system, see the filter owner's manual.
2. In a flooded suction system (water source higher than pump), pump will prime itself when suction and discharge valves are opened.
3. If pump is not in a flooded suction system, remove trap cover, fill trap and pump with unit
4. Unit and inspect O-Ring, reinstall on trap. Replace trap cover



Tighten trap cover by hand only (no wrenches)!

Trap Maintenance

Only routine maintenance needed is inspection/cleaning of trap basket. Debris or that collects in basket will choke off water flow through the pump.

Follow

Instructions below to clean trap:

1. Turn pump, close valves in suction and discharge, and release all pressure from them before proceeding.

2. Remove trap cover (turn counterclockwise).

3. Remove strainer basket and clean. Be sure all holes in basket are clear, flush basket with water and replace in trap with large opening at pipe connection port (between ribs indicated). If basket is replaced backwards cover will not fit on trap body.

4. Clean and inspect lid O-Ring; reinstall on trap.

5. Lubricate O-Ring groove on trap body and replace cover. To help keep cover from leaking, tighten hand tight only.

6. Restart pump (see priming instructions).

2. Sand filter Installation

1. Preparing the sand media. Filter sand media is loaded through the top opening of the filter. Remove flange clamp and remove filter control valve (if previously installed). Seal internal pipe with plastic cap to prevent sand from entering it. We recommend filling tank approximately half full of water to provide a cushion effect as the filter sand is poured in. This helps protect the under-drain laterals from excess shock. Fully pour in correct amount and grade of filter sand. (Be sure center pipe remains centered in opening.) Sand surface should be leveled and up to about the middle of the tank. Remove plastic cap from internal pipe. Install the cover and test.

2. Install / start-up of filter

a. Be sure correct amount of filter sand is in tank and that all connections have been made and secured.

b. Push down control valve handle and rotate to BACKWASH position. (To prevent damage to control valve seal, always push down handle before turning.)

c. Start pump according to pump instructions (be sure all suction and return lines are open), allowing the filter tank to fill with water. The pump should work no less than one minute at the first start, and it is recommended to do the backwash at the first start after load the sand to remove any impurities or fine sand particles in the sand media.

d. Stop the pump and set valve to RINSE position. Start pump and operate until water in sight glass is clear, about 1 to 2 minutes. Stop the pump and set valve to FILTER position and then restart pump. The filter is now operating in the normal filter mode, filtering dirt particles from the pool water. Adjust pool suction and return valves to achieve desired flow. Check system and filter for water leaks and tighten connections, bolts, nuts, as required.

e. Adjust pool suction and return valves to achieve desired flow. Check system and filter for water leaks and tighten connections, bolts, nuts, as required.

f. Note the initial pressure gauge reading when the filter is clean. (It will vary from each pool depending upon the pump and general piping system.) As the filter removes dirt and impurities from the pool water, the accumulation in the filter will cause the pressure to rise and flow to diminish. When the pressure gauge reading is 150KPa/1.5Kg/cm² higher than the initial "clean" pressure you noted, it is time to backwash the filter (see BACKWASH under filter and control valve functions).



During initial clean-up of the pool water it may be necessary to backwash frequently due to the unusually heavy initial dirt load in the water.