



KUPFERLE

WATER SOLUTIONS

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OPERATING AND MAINTENANCE MANUAL

#EEP Electric Evacuation Pump for Cold Climate Sample Stations

DEC 12, 2024

KUPFERLE WATER SOLUTIONS

St. Louis, MO. 63102

T: 1-800-231-3990

Disclaimer: While this document is complete, comprehensive, and accurate to the best of Kupferle’s knowledge, this document is subject to change and is for general information purposes only.

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DESCRIPTION

The EEP or Electric Evacuation Pump is made for evacuating the water out of cold climate sample stations. The unit has connection hoses for both standard, and extreme cold climate sample stations. The pump is self priming, and can evacuate a 22' DOB sample station in less than 35 seconds. The unit comes with a rechargeable 12 volt NiCd battery with a runtime of 1.25 hours per charge. The wall charger will be able to be stored inside the case. The unit is packaged in a lightweight, rugged case for easy transportation. The pump will help evacuate water from the lines of your sample stations, but can also help draw water for sampling in low or no pressure conditions.

OPERATION

1. When you are ready to evacuate water from your sample station, connect the longer tube to the sample station (use adapter tube if necessary)
2. Open the valve on the drain tube
3. Turn on the Electric Evacuation Pump
4. You will hear some noise as the pump starts to prime itself
5. Water will be coming out of the short end of the hose



CHARGING THE BATTERY

1. The Charger is stored inside of the unit



2. Disconnect the battery from the switch



3. Plug the charger into the wall FIRST, then connect it to the battery
4. The light on the charger will be red while the battery is charging, and turn green when charging has been completed

NOTE: Charge time from a dead battery can be 3+ hours

5. Reconnect the battery, and the unit is ready to go

STORING THE BATTERY

1. If the pump and battery are to be stored for one month or longer, the battery must be properly stored.
2. After the last use before storage, disconnect the battery from the switch.



3. If you have a voltmeter or multimeter, you can check to see if the battery voltage is around 11.5V. The battery must be stored at about 50% charge. 12.5V is 100% charged, and 11V is 0% charged.
4. Store in a cool dry place
5. Every 3 months of storage, completely charge the battery. Then discharge it partially again. Place it back in a cool dry place for storage.

TROUBLESHOOTING THE PUMP

If your pump has gotten quiet or is no longer sucking up any water, you may have a stuck check valve in the pump. This can be caused by the pump sitting without use for extended periods of time. Use some type of pressurized air to fix this problem.

1. Make sure the unit is off, and disconnect the battery on the inside of the case
2. Blow air into the intake tube of the pump until you can feel a small amount of air on the output
3. Test with water to make sure the valves are clear
4. If this does not help, please contact Kupferle for support

NOTE: This does not need a lot of pressure or volume of air to un-stick the check valve.



ORDERING REPLACEMENT PARTS

Replacement parts may be ordered from any water works distributor. A list of distributors may be obtained by calling Kupferle Water Solutions at 800-231-3990 or by visiting Kupferle's website. Parts lists are also available on Kupferle's website. hydrants.com/parts