

Portable Generator Transfer

IMPORTANT

After using a generator connection it is recommended to inspect all power breakers to make certain none have tripped during the loss of and restoration of power. This includes the 30-amp double pole breaker in the main service panel and the 15-amp double pole 240 volt and 15-amp single pole, 120-volt breakers inside the E/One Sentry alarm panel. Close and lock all panels after completion of these inspections.

PORTABLE GENERATOR TRANSFER SWITCH PANEL

Environment One Corporation offers the Sentry Alarm panel for use with Environment One Pump Systems. These panels have standard options that are easily added to the base panel package. Panels can be furnished with an internal automatic generator transfer switch to allow grinder pump operation with an emergency generator during periods of extended power outages. In the event that normal power is lost, the transfer switch will automatically transfer power from utility power to emergency power once an emergency generator is connected to the emergency power plug. The automatic transfer feature is designed to use the main power supply at all times, unless emergency power is applied to the receptacle, complying with NEC & UL safety requirements. **NEVER apply emergency power to the generator receptacle when the pump is running.**



GENERATOR LOAD TRANSFER PROCEDURE

1. Open generator transfer switch cover.
2. Connect emergency power source (generator) to the panel by plugging it in using the properly sized connector to match the panel and generator.
Cables must be rated to 20-amp, 240-volt with L14-20 connectors. Panel is equipped with male end L14-20 Leviton 20A 125/250V, 4 prong plug. Cables must be made to match with female end on power cord from the generator
3. Start the generator. If the portable generator is equipped with a circuit breaker, start generator with it off. Once the generator is at full power, turn the breaker on.
4. If the pump “on” level switch is calling for the pump to run, the pump will automatically start and will continue to run until the liquid level is at the “off” level.
5. If the basin is full to the “alarm” level the alarm will sound and may be silenced using the silence button described below. The pump will start and the liquid level will be lowered to shut off the alarm light and horn (if not silenced) and will continue to pump until the water level is at the “off” level.
6. If the “on” switch is not calling for the pump to run, the system will remain functional until the liquid level is raised to the “on” level. Only when the “on” level is reached will the pump operate under normal or emergency power.



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7. When normal power is restored, shut off the emergency generator supply and unplug the emergency power cord. The Access cover on the alarm panel should snap closed and remain closed under normal operation.

A MINIMUM SIZE OF A 6500 WATT GENERATOR IS RECOMMENDED

Operate all generators outdoors with proper ventilation. Use of emergency generators in the home can result in dangerous carbon monoxide gas and can kill you in minutes. Properly ground Portable Generator per Generator Manufacturer's instructions.

REMOTE SENTRY™ REDUNDANT ALARM PANEL

Environment One Corporation offers the Remote Sentry Alarm panel for use with Environment Pump Systems. This panel is a separate alarm panel which connects to the Sentry Alarm panel.

Some Grinder Pump Control Panels are supplied in a manner that will allow the Remote Unit to indicate the chamber is becoming full even during a power outage. (This is an additional cost and not standard)



During extended power loss the Remote Sentry Alarm may sound to indicate the chamber is becoming full. This is an indication that the pump water level is at “high” level. Further reduce the use of water until power to the pump is restored by use of a generator or until line power returns.

If the Remote Sentry Alarm sounds during normal power condition this is an indication that the pump water level is at “high” level and the pump requires service. Reduce the use of water and call your local service provider