

Solinst® The Drive-Point Profiler® Operating Instructions

Model 660 AW

Set-up

1. Ensure that the peristaltic pump is functioning properly.
2. Check that enough D.I. (deionized) water is on hand to complete the job.
3. Cut an appropriate length (expected depth + 10 feet) of 5/32" tubing (LDPE or Teflon lined).
4. Thread the tubing through the first length of AW Drive Rod.
5. Push the tubing into the fitting on the inside of the profiler point.
6. Thread the drive rod into the profiler tip and tighten with pipe wrenches.
7. Thread the AW drive head adapter over the tubing and tighten onto the drive rod.
8. Slip the drive head over the tubing onto the adapter ensuring that the tubing protrudes through the drive head slot.
9. Connect the 5/32" tubing to the peristaltic pump.

Driving and Sampling

1. Turn the pump on and begin driving the profiler to the appropriate sampling level.
 - Monitor the level of water in the D.I. source container in order to ensure continuous flow and also note the rate and volume of water injected into the ground.
 - If the profiler is clogged, the flow will stop.
 - Increase the pumping rate to clear the obstruction.
2. Stop driving and turn off the pump when the appropriate sampling level has been achieved.
3. Remove the pump tubing from the D.I. source.
4. Hold the pump tubing over the waste water container and reverse the flow of the peristaltic pump.
 - Monitor the clarity, volume, and conductivity of the sampled water.
 - Take samples when the water becomes "dirty", the volume removed equals the volume injected and the conductivity exhibits marked change.
5. Replace the pump tubing into the D.I. source and pump back into the system to rinse the tubing before driving to the next sampling point.
6. Repeat steps 1 through 5 for each subsequent sampling point.

Adding Drive Rod Lengths

1. Disconnect the 5/32" tubing from the peristaltic pump.
2. Remove the drive head and drive head adapter
3. Thread an AW couple and drive rod over the tubing.
4. Thread the rods together using the couple and tighten with pipe wrenches.
5. Reinstall the adapter and drive head (see **Set-up** steps 7 - 8)
6. Continue profile sampling (see **Driving and Sampling**)
7. Reconnect the 5/32" tubing to the peristaltic pump.

Note: Replacement or decontamination of materials used is recommended before attempting subsequent sampling sites (see Maintenance and Decontamination section)

Decontamination

After the system has been removed, proper decontamination of The Drive-Point Profiler® must be performed.

1. Disconnect the 5/32" tubing and discard appropriately or decontaminate.
2. Using the Allen key provided, remove the screened inlet hole inserts and then remove the screens (50mesh).

Note: Be careful not to lose the screens. Replacement screens are provided for convenience.

3. Wash all components with a mild detergent and thoroughly rinse with D.I. water.

Note: Be careful not to damage the screens when decontaminating.

Model 660 AW

