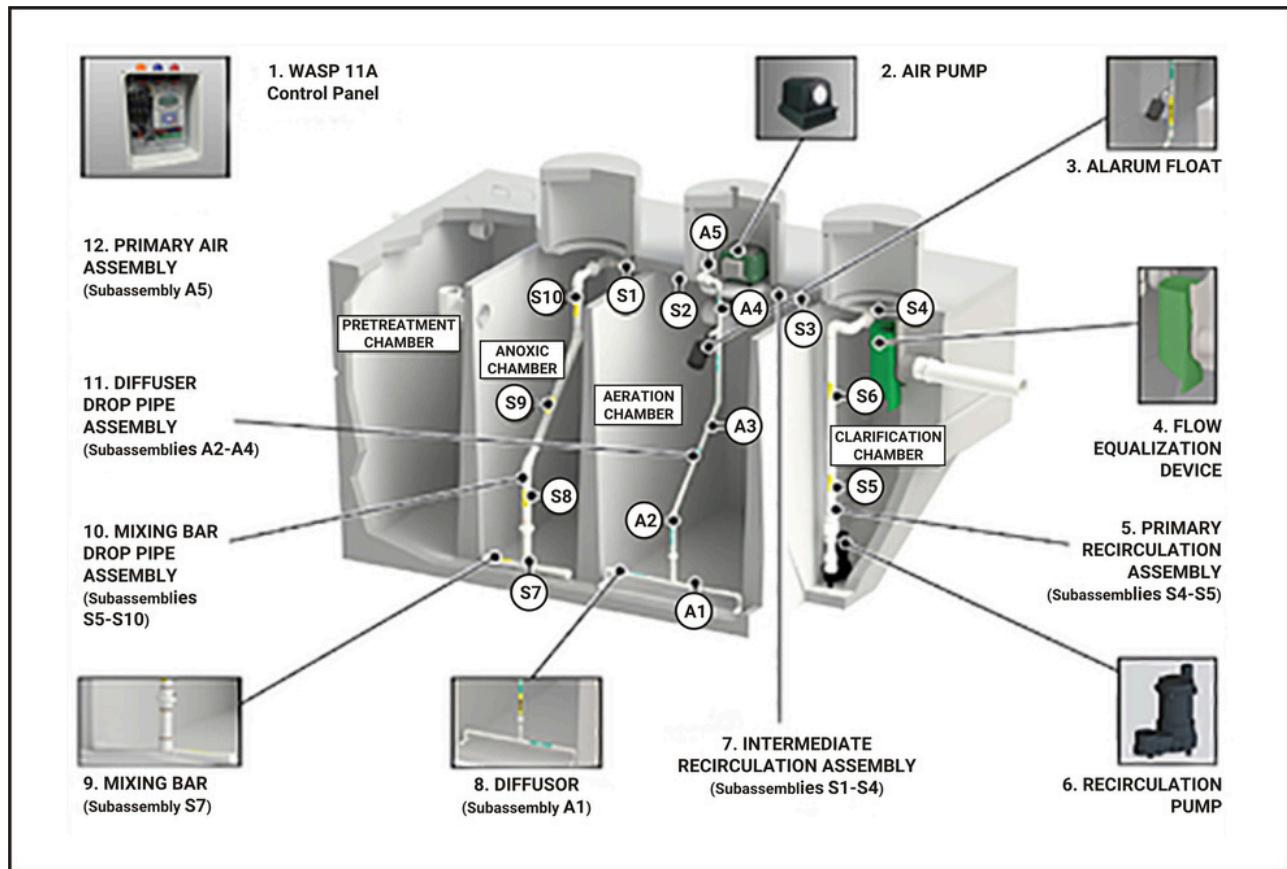


*norweconY*

# HYDRO-KINETIC<sup>®</sup>

## INSTALLATION INSTRUCTIONS



### PRE-DELIVERY TANK PREPARATION

To ensure your Hydro-Kinetic Tank is ready to be installed, prior to the delivery truck leaving the job site, confirm the following items have been received.

- Pre-Treatment & Treatment tank delivered
- Castings and Concrete Risers for each opening of the system
- Boot Clamps for inlet and outlet
- Butyl tape sealant

### TANK DELIVERY AND SETTING

1. When installing a Hydro-Kinetic system, first check the length, width and depth of the excavation. The excavation should have sufficient overdig to allow for a minimum of 6" clearance around the entire perimeter of the system. Additional overdig will be required on deep installations or where unstable soil conditions exist. Safe working conditions must be established and maintained during the entire installation procedure.

2. Prepare the excavation to the appropriate depth based on the elevation of the building sewer line. Concrete systems should have a maximum burial depth of 36" below grade to top of the tank. Allow 1/8" of fall per foot from the building to the system. Fall through the system is 5" from inlet invert to outlet invert. Therefore, the outlet line from the system must be installed 5" lower than the inlet sewer line. The bottom of the excavation must be level and smooth.
3. Using extreme caution, place the pre-treatment tank into the excavation hole & install Butyl Tape Sealant under the top slab.
4. Using extreme caution, place the treatment tank into the excavation hole & install Butyl Tape Sealant between each riser seam including baffle walls.
5. Connect the building sewer line to the pretreatment chamber inlet. The inlet line must be laid continuously and unspliced from the tank to undisturbed earth beyond the limits of the tank excavation.
6. Install risers as required to bring the access covers to grade.

## **REQUIRED PRIOR TO BACKFILLING**

1. For installations where the air pump will not be located in the aeration riser, install a 3/4" Schedule 40 PVC air line from the air pump to the system. The air line should be buried in a trench at a recommended depth of at least 12 inches. Protect the air line in a casing pipe if heavy loading is anticipated. The air line must be run into the aeration riser and the opening in the riser sealed with mortar or approved sealant.

## **BACKFILLING**

1. The system should be backfilled immediately after sewer lines and underground electrical cables are installed. Fine, loose earth should be used to backfill the tank excavation and sewer line trenches. Be sure it is completely free of rocks, large clumps of earth and construction debris. Use fine granular material when backfilling around electrical cables and conduits. The underground electrical cables should have at least two feet of earth cover. If the proposed finished grade will not permit this coverage, the cables should be installed in approved conduit from the tank to the building foundation. Backfill evenly around the entire perimeter of the tank rather than all at once on each side. Take care to completely fill in the cavity beneath the hopper at the bottom of the clarifier end wall.
2. Use extreme care in backfilling. Do not allow dirt or mud to enter any part of the treatment system or sewer lines. If dirt or mud enters any portion of the system, it must be removed to insure proper system operation. Removing the dirt or mud may require repeated flushing and tank pumping.
3. Immediately after backfilling, fill each chamber of the treatment system with water to the outlet invert. The water must be free of leaves, mud, grit or any other materials that might interfere with system operation.

## **FINAL CHECK AND SYSTEM STARTUP**

1. Place the dedicated circuit breaker for the Hydro-Kinetic system in the main service panel in the "on" position.
2. To commission the telemetry system, first ensure the phone/network cable is properly installed. Place the control center power switch in the "off" position. While holding in the reset button, place the power switch in the "on" position. Continue to hold the reset button for 5 seconds. Release the reset button and allow the telemetry system up to 60 seconds to call out and complete the commissioning process. The phone/network light will illuminate during the call out process. If commissioning is successful, the alarm light will flash 5 short flashes and stop as verification. If commissioning is unsuccessful, refer to the Service Pro Model WASP 11A Installation and Operation Instructions.
3. If no telemetry system is installed, press and hold the **RESET** button on the control center for 5 seconds. The audible alarm should sound and the alarm light should illuminate.
4. Lift the High Water Alarm Float in the Aeration chamber to trigger and test the alarm. Once the float is in the down position the alarm audio and red light will reset.

5. The system is operational once all installation and startup steps have been completed to this point. It will take 2 to 6 weeks for the system to reach biological maturity, depending upon system loading. Refer to the Hydro-Kinetic Owner's Manual for expected effluent quality.

**DANGER: Make sure the system access covers are in good condition and securely installed on the mounting castings. Never allow access risers to be left uncovered or partially covered. Failure to secure access covers and safety nets could result in bodily.**

## OVERVIEW

Use Butyl Tape Sealant around entire perimeter of the groove in the tank & across the baffle walls.

**IMPORTANT: For HK-800 and larger Tanks Butyl Must be installed under & on top of middle riser section.**

**AFTER TANK HAS BEEN BUILT OUT AND INTERNAL PLUMBING HAS BEEN COMPLETED BY NORWECO NY -** Please place Butyl Tape Sealant under each Concrete Riser and under each Casting.



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and wastewater treatment*

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