

AFC Oil/ Water Separator - Installation Guidelines

A) Excavation:

- 1) All excavation work to be performed in accordance with W.C.B. and applicable regulations.
- 2) Supplier is to be contacted if the depth of the water table necessitates the separator being placed in liquid deeper than 600mm.

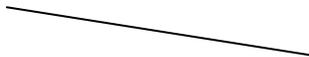
B) Base Preparation:

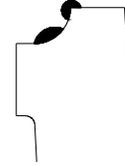
- 1) The depth of the base preparation is to be determined by the existing soil conditions or by a Geotechnical Engineer.
- 2) The prepared base is to be 1" (25mm) minus free draining material.
- 3) The minimum recommended base dimensions are to be 6" (150mm) deep x 140" (3550mm) long x 100" (2540mm) wide.
- 4) The prepared base is to be compacted to a minimum 95% Standard Proctor density.

C) Installation:

- 1) The AFC Oil/ Water Separator is to be lowered into the ground using a four (4) point spreader bar and chains complete with safety hooks attached to each lifting cable, with an angle not greater than 80 degrees.
- 2) All personnel shall be a safe distance away from the excavation while the separator is being placed.
- 3) Ensure that the bottom of the separator is centered on the prepared base and is level in both directions using a spirit level.
- 4) Slide your ASTM 2729 PVC Sewer and Drain pipe through the flexible connectors at inlet end and clamp in place. Prime and then glue the shorter supplied tee on the end of your pipe. Do the same at the outlet end and clamp in place. Prime and then glue the longer supplied tee on the end of the outlet pipe.
- 5) Three 75mm vents are provided on each side of the AFC Oil Water Separator so the customer can vent the side they choose. Each vent has a PVC coupler cast in, the interior threaded and the exterior one half smooth with a stop. We thread a PVC nut to the coupler on the inside to seal the opening. If using the vents, and after deciding which side of the AFC unit to use, prime and glue an appropriate length 75mm vent pipe c/w a 90 degree elbow facing up into the coupler. Then remove the PVC nut from the inside and dispose of it. The appropriate length vent stacks can be primed and glued to the 90 degree elbow when finishing later.
- 6) Apply the appropriate sealant:
 - Apply two (2) rows of bituminous tape sealant along the spigot line and bottom of tongue. Lap all sealant joints a minimum of 2" (50mm)

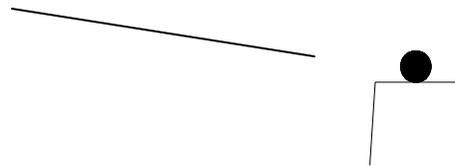
2 rows bituminous sealant





Apply one (1) row of bituminous tape sealant along the top of the partition between the second and third compartments, lapping the spigot sealant.

1 row bituminous sealant



- 7) The lid is to be lowered into place using the same four (4) point spreader bar.

The lid is to be placed in such a manner as to ensure that the sealants are properly compressed to fill the total annular space.

NOTE:

- 1) Ensure that the lid is square to the bottom of the separator prior to compressing the sealant. Any movement of the lid, after the sealants have been compressed will destroy the integrity of the seal. The integrity of the seal will have to be re-established by removing the sealant and re-applying new sealant prior to backfilling.

D) Backfill:

- 1) Ensure that the separator is level, with all inverts at the required elevation BEFORE backfilling. Install risers to grade using Con-Seal at tongue and groove (or other Butyl Mastic Sealant) and grout outside of risers for a waterproof seal.
- 2) Backfill material to be free draining 1" (25mm) minus.
- 3) Backfill the separator evenly on all four (4) sides in 12" (305mm) lifts
- 4) Perform a water test, if required, to ensure the separator is sealed.
- 5) Compact backfill to a minimum of 95% Standard Proctor density.
- 6) Continue to backfill the separator evenly on all four (4) sides in 12" (305mm) lifts until the separator is buried.
- 7) Maximum bury depth of regular separator is 4ft (1.2m).
- 8) Maximum bury depth of industrial separator is 10ft (3.0m).

E) Operation:

- 1) After oil/ water separator has been set up as per details and specifications, fill oil separator with fresh water until invert of outlet tee is reached.
- 2) AFC Oil/ Water Separator is now ready for operation. See Maintenance Schedule.

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U.S.A. Patent No. 6,079,571

Canadian Patent No. 2,252,307