

Installation, Operation and Maintenance Instructions



OTC-2 / OTC-3 CENTRIFUGE BOWL ASSEMBLY & DISASSEMBLY

ERIEZ MAGNETICS HEADQUARTERS: 2200 ASBURY ROAD, ERIE, PA 16506-1402 U.S.A.
WORLD AUTHORITY IN SEPARATION TECHNOLOGIES

OTC-2/OTC-3 Bowl

Assembly

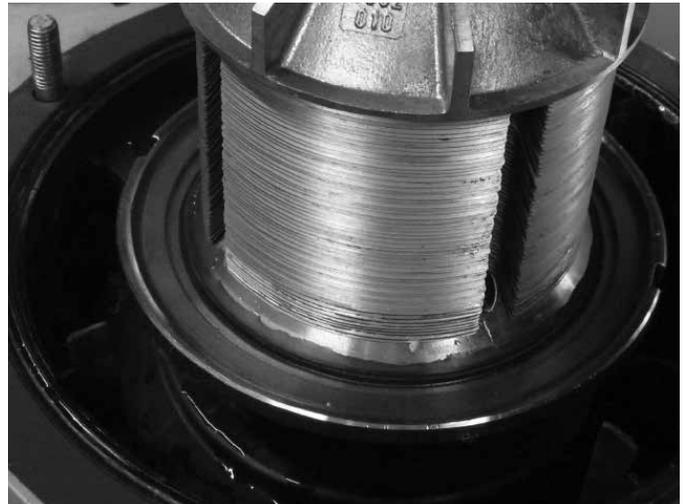
1. Make sure discs are clean and stacked correctly. Check the inner tabs to make sure they are not bent preventing the discs from stacking properly with no gaps. Stack the discs so that one disc with a "dot" punched on one inner tab is followed by a disc without the dot. This insures the discs are spaced correctly to the correct height.



2. Make sure the o-ring on the inside of the separating disc is in place and put on the distributor/spindle over the discs while pressing down on the disc stack.



3. The separating disc top should sit directly on top of the disc stack with no gap.



4. Place a clean or new sludge liner in the bowl top.
5. Place bowl top over the disc stack and fit it to the bowl bottom.
6. Thread the centripetal pump chamber bottom into the distributor spindle by hand. Place one wrench over the stud on the frame with the hook in the slot on the bowl bottom. Place second wrench with its hook into the slot of the chamber bottom and turn counterclockwise (close) until snug. **DO NOT OVERTIGHTEN!**



7. Place ring dam in the center of the pump chamber. It cannot be touching the inside of the pump chamber.



8. Place centripetal pump into the chamber.
9. Thread the centripetal pump chamber cover into the bottom by hand. Place one wrench with its hook into the slot of the centripetal pump chamber bottom. Rotate the bowl so the back of the wrench is touching the drive motor. Place the second wrench so the hook is in the slot of the cover and turn the wrench counterclockwise (close) until snug. **DO NOT OVERTIGHTEN!**



10. There should be no threads showing on the centripetal pump cover if assembled correctly.



11. Place hood over bowl assembly.
12. Tighten the bolt first! This insures the tip of the bolt depresses the hood limit switch to allow the unit to start. Then tighten the two nuts.
13. Insert the handle connection piece down into the hood, press down by hand.
14. Place one wrench over the handle connection piece. Place the tee handle hex wrench down into the handle connection piece. Holding the tee wrench, turn the wrench counterclockwise (tighten) until snug. **DO NOT OVERTIGHTEN!**



15. Screw the screw plug into the hood until snug. **DO NOT OVERTIGHTEN!**
16. Connect the two quick disconnect fittings to the hood.

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Disassembly

1. Remove quick disconnect fittings from hood.
2. Remove the screw plug from the top/center of the hood.
3. Place one wrench over the handle connection piece on top of the hood. Place the tee hex wrench in and down into the handle connection piece. Hold the tee wrench while turning the wrench clockwise (open) until completely unscrewed.



4. Remove the handle connection piece by pulling it straight up. Inspect the o-rings on it.



5. Loosen and remove the two (2) nuts and one (1) bolt that hold the hood down to the frame.
6. Place one wrench so the hook on the wrench fits into the slot on the bottom of the centripetal pump chamber. Rotate the bowl so the wrench is touching the drive motor. Place the other wrench so the hook on it fits in the slot on the centripetal pump chamber cover. Turn the second wrench clockwise (open) until the cover is loose, then remove it.



7. Remove the centripetal pump, inspect the gaskets. Remove the ring dam.



8. Place one wrench over the stud in the frame and place the hook on the wrench into the slot on the bowl bottom.



9. Place second wrench with its hook in the slot on the bottom of the centripetal pump chamber and turn clockwise (open).



10. Remove the chamber and inspect the gaskets.



11. Place your thumbs of both hands on separating disc where it sits above the bowl top. With the other fingers on the bottom of the bowl top, press down with your thumbs while lifting with your fingers. Lift the bowl top straight up and off.



continued

Disassembly *continued*

12. The separating disc may stick to the underside of the bowl top. Use a wooden or plastic object and tap it free and remove from the bowl top.



13. Holding the bowl top in one hand or placing on a bench, use a thin screwdriver to gently pry the loose end of the sludge liner away from the bowl top.



14. Take pliers and pull on the loose end of the liner and pull it out of the bowl top.



15. Clean the liner. The liner can be reused many times until it breaks apart.

16. Wipe the bowl top clean.

17. If solids have built up into the outer edge of the disc stack, they must be removed and cleaned.

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