

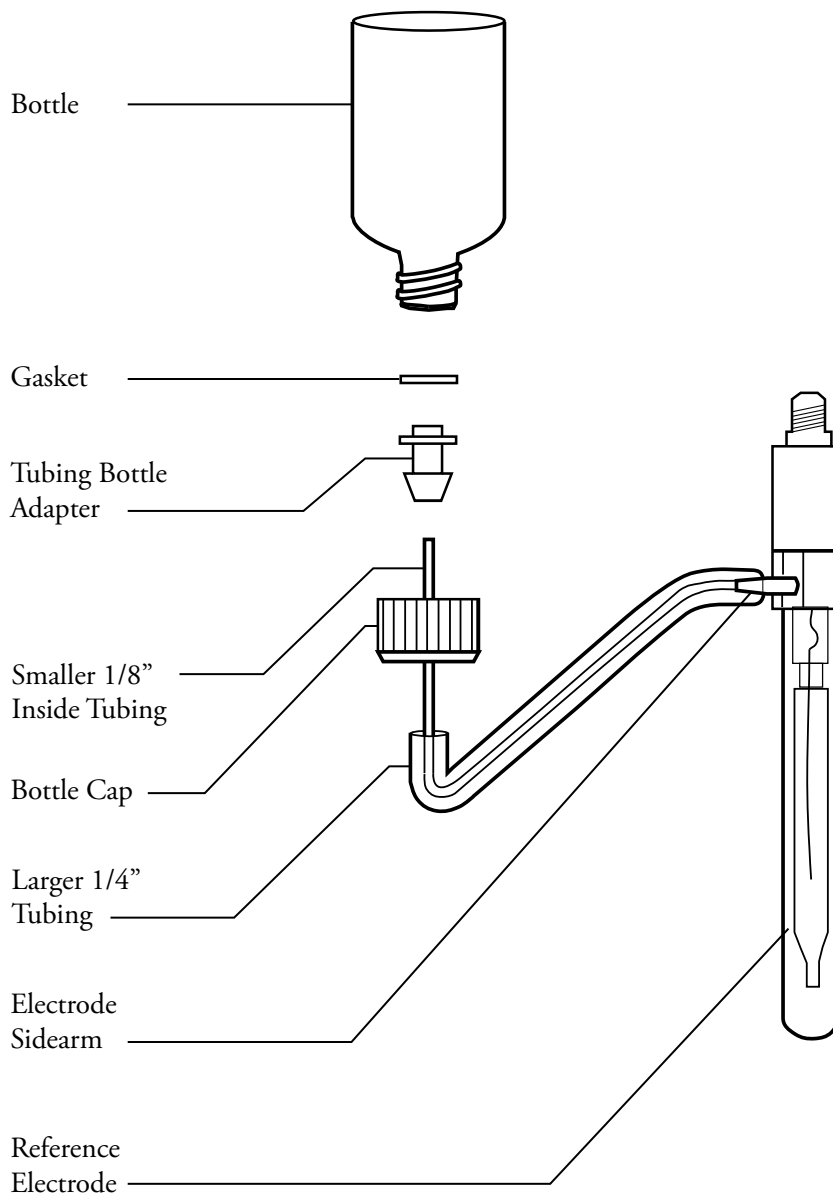
Thermo Scientific Orion Double Junction Frit Reference Electrode, Cat. No. 100057

Cat. No. 100057 double junction frit reference electrode is used on the Thermo Scientific Orion 2117XP, 1817HL and 1817LL online chloride monitors. This reference electrode requires Cat. No. 900063 filling solution. Do not use other filling solutions, as they may contain silver chloride (AgCl), which will clog the electrode ceramic frit junction.

Installation Procedure

1. Unpack the reference electrode and tubing assembly from the shipping box. Carefully remove the protective caps from the bottom and sidearm of electrode. Save the caps for future storage of the electrode. Inspect the internal chamber of the electrode. Verify that the internal chamber is at least half full with the internal fill solution. If the internal chamber is not at least half full, replace the electrode.
2. Wet the outside of the electrode sidearm with a couple drops of deionized water.
3. Pass the 1/8-inch tubing into the electrode sidearm and slide the 1/4-inch tubing over the sidearm. The outside tubing should extend 3/8-1/2-inch over the sidearm.
4. Remove the cap and seal from the electrode filling solution bottle. Hold the bottle in the upright position. Check that the rubber gasket is properly aligned and then connect the cap end of the tubing assembly to the bottle. The 1/8-inch tubing should extend into the bottle.
5. Hold the reservoir bottle above the electrode with the bottle cap end down. The electrode should be horizontal with the sidearm pointing up. Gently shake the electrode to allow any trapped air bubbles to rise into the bottle as the electrode fills with solution.
6. Dry off the ceramic frit on the base of the electrode with tissue paper. Squeeze the electrode filling solution bottle for a few seconds. A small amount of filling solution should bead up on frit surface, which indicates good electrolyte flow. If no moisture is visible, the electrode is clogged and should be cleaned or replaced.
7. Invert the electrode filling solution bottle and snap it into the clip. Use the supplied push pin to puncture three air vents on bottom of bottle.
Caution: Failure to vent the electrode filling solution bottle will lead to noisy and drift output signals.
8. Connect the electrode to the electronic chassis with the cable that is labelled Ref. Elect. Insert the electrode into the reference hole in the flow cell cap.

9. Mark the level of solution in the electrode filling solution bottle and note the date. The solution level should be checked monthly and refilled as required. The solution level should drop at least 1/8-inch per month or erratic monitor readings may result. Replace the reference electrode filling solution bottle as necessary.



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