

# Thermo Scientific Orion Diffusion Tubing Assembly

The DIPA reagent diffusion tubing assembly for all Thermo Scientific Orion 2111LL and 2111XP sodium monitors has been upgraded. This instruction sheet provides directions for upgrading your system with the new diffusion tubing and the monthly maintenance instructions for replacing the new diffusion tubing.

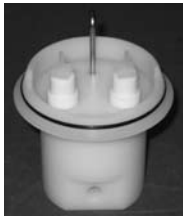
Designed to maximize uptime, our new diffusion tubing assembly can now be replaced in a matter of seconds. Our method of snap and connect tubing installation combined with the easy pull off and dispose technique will have your system back online faster than ever before.

## Diffusion Tubing Upgrade

1. Remove the diffusion tubing assembly from the reagent bottle adaptor, as shown in the figures below.



2. Insert the adaptors into the reagent bottle adaptor, as shown in the figure below, and hand tighten the adapters.



3. Connect the new diffusion tubing assembly, as shown in the figure below.



4. Press the diffusion tubing caps onto the adaptors and hook the tubing, as shown in the figure below.

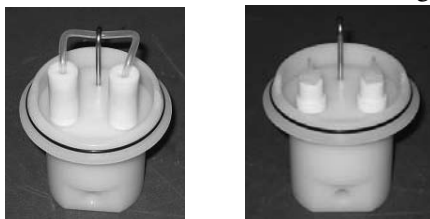


## Monthly Maintenance Diffusion Tubing Replacement

**Note:** The diisopropylamine (DIPA) reagent is hazardous. Use protective glasses and gloves when working with DIPA. Refer to the DIPA bottle label and MSDS for precautions. Work in a well-ventilated area.

**Note:** Turn off the air pump before beginning this procedure; otherwise, the air pump will splatter the reagent outward as the bottle is removed.

1. Remove the diffusion tubing assembly by unhooking the tubing from the hook, pulling off the two diffusion tubing caps and pulling the tubing off of the connectors, as shown in the figures below.



2. Press the diffusion tubing assembly onto the connector barbs, as shown in the figure below. The holes at the tubing ends press onto the barb fittings.



3. Press the diffusion tubing assembly caps onto the adaptors and loop the tubing onto the hook, as shown in the figure below.

**Note:** If using the 8 inch diffusion tubing, Cat. No. 211198, ensure that the tubing is above the DIPA reagent level. The 8 inch diffusion tubing may need to be looped twice onto the hook to keep the tubing above the liquid level.



## Ordering Information

Cat. No.	Description
211194	Diffusion tubing kit for DIPA reagent, 4 inch tubing
211198	Diffusion tubing kit for DIPA reagent, 8 inch tubing, designed for low pH samples

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