

## Cool Trap Configuration with the DURRIDGE DRYSTIK

If condensation occurs in the tube bridge of a DURRIDGE DRYSTIK, between the instrument's pump and Nafion tubing input, water will make contact with the Nafion tubing, making the device ineffective. This can be avoided using the Cool Trap.

The Cool Trap is offered in two models: a compact version that fits in a mug, and a larger and more efficient version that fits in a bucket. Either model can be placed in a container with ice water or other coolant, or mounted in the door of a refrigerator (avoiding the need for refrigerant tubes).

The Cool Trap is intended to reduce the dew point of sampled air down towards the temperature of the instrument, preferably close to zero degrees celsius. Condensate is expelled through the instrument's drain pipe. The drain needle valve should be adjusted so that a bubble appears occasionally. If the drain blows a bubble occasionally, it can be inferred that water is not accumulating in the reservoir. If the compressed air leaving the Cool Trap has a dew point below the ambient temperature, condensation will not occur inside the teflon membrane tube.

