

DIRECTIONS FOR UNITING FLUID SEPARATION for all models of Temp-Chex Liquid Thermometers

Occasionally, fluid separation occurs during shipping or during normal use. This separation is evidenced by single or multiple breaks in the column, fluid reservoir at the bottom or expansion bulb at the top of the thermometer. If any of these are obvious or if the thermometer does not seem to be functioning properly, the following procedures should be followed to correct the problem.

CENTRIFUGE METHOD

If available the entire Temp-Chex can be placed in a centrifuge. Spin at 1500 RPMs for 7.5 minutes. This should correct the fluid separation. If the entire Temp-Chex can not be inserted into the centrifuge, one of the alternative methods may be used.

Before attempting the following methods, the thermometer must first be removed from its protective sleeve and glycol-filled vial. **THE THERMOMETER IS MADE OF GLASS AND CAN EASILY BE BROKEN. BEFORE REMOVING THE THERMOMETER FROM THE VIAL, IT IS RECOMMENDED THAT THE TECHNICIAN WRAP THE THERMOMETER IN PARAFILM® OR WEAR RUBBER GLOVES.** Hold the vial in an upright position, using a gentle twisting motion, remove the thermometer from the vial.

TEST TUBE SPINNER METHOD

Place the thermometer in a 15ml centrifuge tube and spin at 1500 RPMs for 7.5 minutes. Carefully reinsert the thermometer into the Temp-Chex vial and replace the vial in the protective sleeve.

HEATING METHOD

Heat the thermometer bulb in an upright position away from your face in warm liquid, air or over a soft flame. Allow the liquid column to rise slowly until the separated position of the column enters the expansion chamber at the top of the thermometer. Note that over-filling the expansion chamber will break the thermometer. Tap the thermometer GENTLY (if struck too hard, the fluid reservoir can break) in an upright position allowing the gas separating the column to rise above the column. Allow the thermometer to cool slowly in an upright position. Carefully reinsert the thermometer into the Temp-Chex vial and replace the vial in the protective sleeve.

COOLING METHOD

Prepare a solution of shaved ice and salt or CO₂ (dry ice) and alcohol. Place the thermometer bulb only in the solution. Keep the thermometer upright. Allow the liquid column to retreat into the bulb, swing the thermometer (bulb down) in an arc forcing the entrapped gas above the column. Allow the thermometer to warm slowly in an upright position. Carefully reinsert the thermometer into the Temp-Chex vial and replace the vial in the protective sleeve. After using one of the above methods, examine the thermometer for fluid separation. Repeat the procedure if separation is still evident. CAP recommends that the thermometer be checked against a thermometer of known accuracy.

In the event the fluid cannot be reunited, contact Streck at (800) 843-0912.

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