Expect Service

Radiation Products Design Inc

INSTRUCTIONS

RPD INFORMATION

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Phone	763-497-2071 or 800-497-2071
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RPD PRODUCT INFORMATION

Item Number	Description
470-206	Pocket Thermometer -15 to 105° C., Spirit, 160 mm/6.3"
470-207	Pocket Thermometer +30 to 120° F.,Spirit, 165mm/6.5"
470-051	Room Thermometer -35 to 50° C., Spirit, 305mm/12"
470-121	Room Thermometer -30 to 120° F., Spirit, 305mm/12"
470-131	Room Thermometer -1 to 51° C., Spirit, 400mm/ 15.8"
470-132	Room Thermometer -1 to 51° C., Spirit, 460mm/ 18"
470-260	Room Thermometer -50 to 50° C., Spirit, 305mm/12"
470-266	Room Thermometer -58 to 120° F.,Spirit, 305mm/12"

IMPORTANT

Store thermometers in an upright position only.

REUNITING SEPARATED FLUID COLUMN OF A SPIRIT FILLED THERMOMETER

Handle instruments with care; wear safety glasses and gloves before proceeding

Organic Liquid Separations
The liquid in organic-filled (spirit-filled) thermometers can often be rejoined by using gentle centrifugal force. Swinging the thermometer in a slow arc causes the liquid to be pushed towards the bulb. Do not snap or shake like a fever or maximum registering thermometer. Also, for small separations at the top of the column, tapping the instrument against a finger or hand may break the contact of the liquid against the capillary well and allow it to drain down into the main column.

If centrifugal force does not work, it is possible to heat the thermometer until the liquid reaches the expansion chamber at the top of the thermometer. While holding the instrument in a vertical position, slowly heat the bulb until the separated segments and a portion of the main column enter the chamber. Never heat the bulb directly over an open flame and be sure the heating medium has a flash point above the highest temperature graduated on the thermometer. Do not allow the chamber to be more than half to three quarters full, otherwise the bulb may break due to excessive pressure. Be very cautious when using a heating method with organic liquid thermometers. If the bulb breaks, the liquid inside may be flammable.

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