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Products for Research Inc.

ARCHIVE

Liquid Heat-Exchanged Thermoelectric

Cooled Photomultiplier Tube Chambers

for Tubes of 2.56" (65 mm), and 2.1" (53.4 mm) or less Nominal Diameter

The liquid heat-exchanged standard series includes the **TE104RF** (end on), **TE146RF** (side on), and **TE184RF** (end on) thermoelectrically cooled photomultiplier tube chambers. These chambers utilize single stage Peltier devices to achieve temperatures needed for superior detector performance, while maintaining the convenience of thermoelectric cooling. These PMT coolers are provided complete with magnetic, electrostatic and RFI shielding, a double pane evacuated window cell designed to prevent formation of condensation in the light path, the low voltage DC power supply to drive the Peltier devices, and the appropriate PMT socket assembly.

Digital PID Temperature Control is available as Option 36, and if included, changes the type numbers to **TE104TSRF**, **TE146TSRF**, and **TE184TSRF** respectively.

Liquid heat-exchanged thermoelectrically cooled PMT housings typically use water, either by means of a recirculating liquid heat exchanger, or tap water flowing into an open drain to remove heat from the PMT cooler. Other non-hazardous liquids may also be used.

Chambers in the liquid heat-exchanged standard series have been designed to accept all interchangeable options and accessories used in conjunction with the standard line of cooled housings for 2.1 inch (53.4 mm) or less nominal diameter photomultipliers.

Unit Type	Description	Performance
TE104RF	Standard liquid heat exchanged thermoelectric PMT chamber for 53.4 mm diameter end on PMT's Outline drawing (9K) and Specifications	$\Delta T \geq 40°C$, w/Liquid $\geq 0°C$ Performance Graph (11K)

TE146RF	Standard liquid heat exchanged thermoelectric PMT chamber for 53.4 mm diameter side on PMT's Outline drawing (8K) and Specifications	ΔT ≥ 40°C, w/Liquid ≥ 0°C Performance Graph (11K)
TE184RF	Standard liquid heat exchanged thermoelectric PMT chamber for 65 mm diameter end on PMT's Outline drawing (9K) and Specifications	ΔT ≥ 40°C, w/Liquid ≥ 0°C Performance Graph (11K)

BACK TO TEXT

NOTICE
The PHOTOCOOL line of PMT housings is now being manufactured and sold
Click This Box for More Information

Products for Research Inc.
88 Holten Street, Danvers, MA 01923, USA

Return to ARCHIVE CROSS REFERENCE
Return to QUICK INDEX
Return to POWER INDEX
Return to CONTENTS
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