

Medical-grade countertop refrigerator, 9/16

September 2016—Helmer Scientific released its MLR102 medical-grade countertop refrigerator with AdvanceCore cooling technology. The refrigerator is used to safeguard expensive, life-saving vaccines and medications as well as sensitive, and at times irreplaceable, reagents and patient samples.

Using the AdvanceCore cooling technology, the MLR102 meets medical-grade performance requirements related to temperature stability, uniformity, and recovery after routine door openings. AdvanceCore leverages thermoelectric cooling technology to remove heat from the core of the storage cabinet. Using a solid-state heat pump, small amounts of heat are dissipated into the ambient environment without the use of moving parts. This system maintains temperature control within $\pm 1^{\circ}\text{C}$ within the 1.8 cubic foot cabinet. AdvanceCore also provides near-silent operation and dramatically reduces energy usage and heat output generated by the system, according to a company statement.

Software features designed to improve patient safety and staff efficiency include precise electronic temperature controls, onboard data logging, alarm condition notifications, and minimum/maximum temperature tracking. The refrigerator is compatible with standard universal power supplies as an option for emergency backup power.

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