

# Solar Refrigerators Store Life-Saving Vaccines



**Johnson Space Center**

**SunDanzer Refrigeration Inc.  
El Paso, Texas**

## NASA Technology

- ◆ Over the years, NASA has advanced photovoltaic technology to power components on spacecraft, rovers, and the International Space Station
- ◆ The Space Agency has transferred this technology for uses on Earth, including water pumping systems, medical equipment, and lighting



## Technology Transfer

- ◆ David Bergeron, former head of the Advanced Refrigerator Technology Team at Johnson, founded SunDanzer Refrigeration in 1999
- ◆ SunDanzer offers a variety of battery and non-battery solar-powered refrigerators, the latter of which the company used as the basis in developing a vaccine refrigerator that was approved for use by the World Health Organization

## Benefits

- ◆ The units are ideal for use in rural, sunny areas with little or inconsistent access to electricity
- ◆ Setup is simple and doesn't require a technician
- ◆ The refrigerator can withstand combination cloudy weather and outside temperatures of 109.4 °F for 3½ days