

The TempArmour™ Vaccine Refrigerator

Exceptional vaccine protection AND cost savings

Lower capital, human resource, electrical & maintenance costs

The TempArmour Refrigerator stays within temperature range for up to 6 days through power outages, cord unplugged, or other disruption to its operation.

Cost savings result from:

- Drastically reduced cold chain incidents and vaccine losses
- No need for backup batteries or generator
- No remote monitoring systems or on-call staff required
- Lower administrative costs

The refrigerator also has a very low power consumption and does not require scheduled maintenance.

What our Customers are saying:

Cost Savings Related to Power Outages

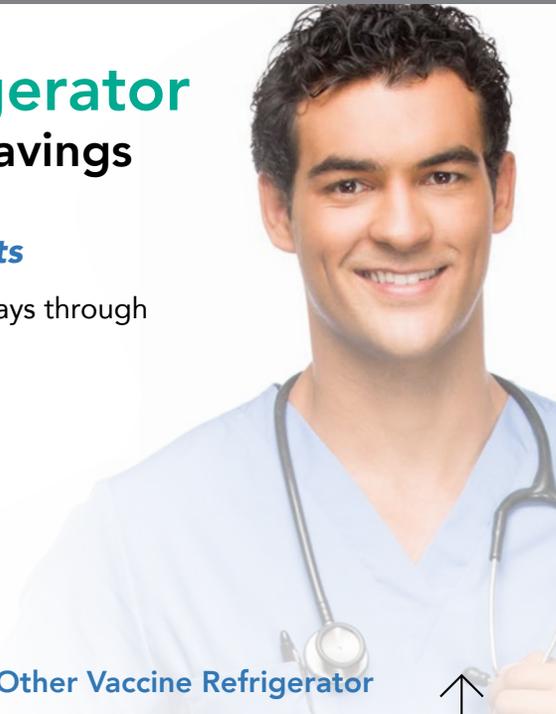
"We experienced a power outage due to Hurricane Irma for 6 days. Temperatures in our TempArmour™ Refrigerator stayed in range that entire time."

— *Pediatrics by the Sea, Delray Beach*

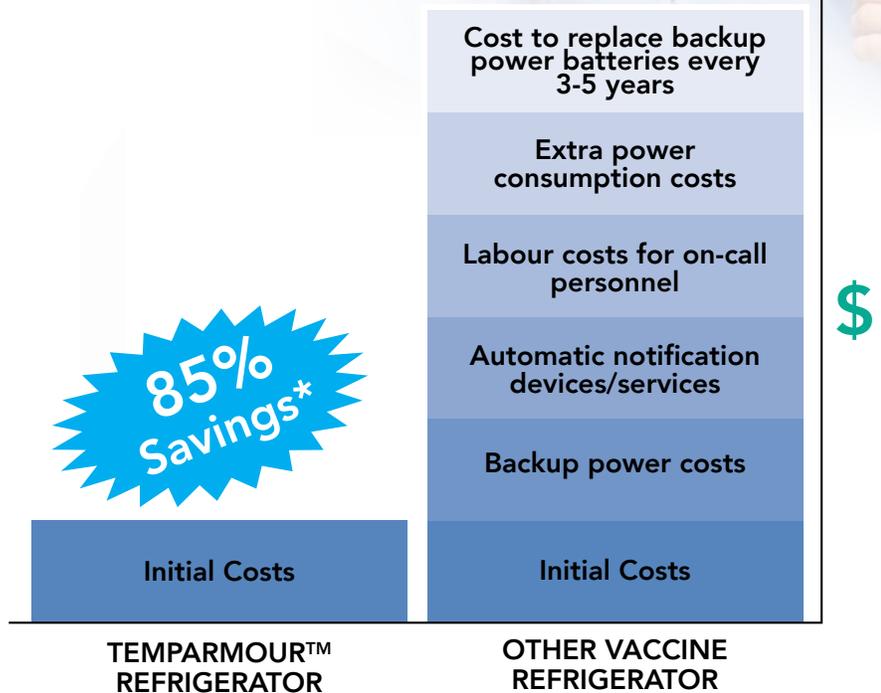
Cost Savings Everyday

"...the power saving is amazing. The compressor rarely comes on, and the temperature is as stable as can be asked. This fridge is a saver! I would recommend it to anyone dealing with vaccines!"

— *Chippewas of Nawash Heath Centre*



TempArmour™ VS Other Vaccine Refrigerator



*See our detailed cost comparison table



PRICE: \$3299.00 USD

PRODUCT DIMENSIONS: 38" x 28" x 35"

BASKET DIMENSIONS: 7" x 10.5" x 10.2"
(3 top and 2 bottom)

VFC COMPLIANT DATA LOGGER

CAPACITY:

Holds over 200 boxes of 10 x 0.5 ml vials or 70 boxes of 10 single dose syringes (based on typical manufacturer box sizes)

Total Cost Comparison of the TempArmour™ vs Other Vaccine Refrigerators

When comparing vaccine refrigerators, take into account the entire cost of your choice! The TempArmour™ Vaccine Refrigerator provides the most effective vaccine protection as well as significant COST SAVINGS.

Vaccine Refrigerator Cost Comparison Table* (US \$)

	Typical vaccine refrigerator	
COST OF REFRIGERATOR		\$3299
COLD CHAIN INCIDENTS - RELATED COSTS		0 per year
AVERAGE VACCINE LOSSES PER YEAR		0 per year
NOTIFICATION SYSTEMS - CAPITAL COST		0
NOTIFICATION SYSTEMS - ONGOING COST		0 per year
MAINTENANCE COST		\$100 per year
BACKUP POWER - CAPITAL COST		0
BACKUP POWER - ONGOING COST		0
ELECTRICITY CONSUMPTION - kW/year		200 kW/year
ELECTRICITY COST 10¢/kWh x kW/year		\$20 per year
TOTAL COST FIRST YEAR		\$3,319
TOTAL COST OVER 10 YEARS		\$4,399 TempArmour™ Refrigerator

Lower your costs by 84%

Do the above numbers differ from your situation? Plug in your own figures to estimate the costs for your vaccine refrigerator.

*NOTES/ASSUMPTIONS FOR OUR EXAMPLE: (assumes a 10 year lifespan for both refrigerators)

- Cost of refrigerator:** The same cost as the TempArmour™ Refrigerator (\$3299) is used for the sake of simplicity. \$1500 - \$5000 is the typical cost of upright vaccine refrigerators (purpose built and comparable in the quantity of vaccines that it can hold)
- Cold chain incidents:** This number comprises the human resource costs (time) incurred by staff managing cold chain incidents. TempArmour™ customers typically don't experience refrigerator-related cold chain incidents.
- Vaccine losses:** \$1000 per year average chosen as a typical scenario (e.g. one \$10000 loss in a 10 year period). Average vaccine losses of TempArmour™ customers is \$0.
- Notification system costs:** Remote monitoring/notification systems are available with varying costs and are important for standard vaccine refrigerators that can go out of temperature range quickly. The majority of TempArmour™ customers opt not use monitoring systems as the TempArmour™ typically maintains its temperature for 6 days during power outages, un plugged cords, etc.
- Maintenance cost:** The TempArmour™ does not require on-site maintenance by a technician. Costs include recalibration/replacement of thermometers and data loggers when required (Note: Vaccines for Children (VFC) Providers are typically required to do that yearly).
- Backup-Power costs:** The TempArmour™ does not require backup power as it typically maintains its temperature for 6 days during power outages, unplugged cords, etc.

\$2300 is the cost of a backup power system (PowerHub 1800-400) that would provide 8-16 hours of backup power for a standard upright vaccine refrigerator. The cost of battery replacement every 3 years for that system is \$1200 (\$400/year). (Tip: if your fridge is currently hooked up to a hospital generator, using the TempArmour™ will free up that generator capacity for another critical item in the hospital.)
- Electricity costs:** The power consumption of a typical full size upright vaccine refrigerator varies, however 400 W/hr is a reasonable estimate. The approximate power consumption of the TempArmour™ is 20 W/hr. Electricity costs vary therefore the average electricity cost of 10¢/kWh was used. The calculated numbers were also rounded off for clarity in the example.