TEMPARMOUR REFRIGERATION
WORRY FREE VACCINE REFRIGERATION

1-866-485-4199
info@TempArmour.com

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	$3,299	$3299
COLD CHAIN INCIDENTS – RELATED COSTS	$200	0 per year
AVERAGE VACCINE LOSSES PER YEAR	$1,000	0 per year
NOTIFICATION SYSTEMS – CAPITAL COST	$200	0
NOTIFICATION SYSTEMS – ONGOING COST	$200	0 per year
MAINTENANCE COST	$200	$100 per year
BACKUP POWER – CAPITAL COST	$2,300	0
BACKUP POWER – ONGOING COST	$400	0
ELECTRICITY CONSUMPTION - kW/year	3,500	200 kW/year
ELECTRICITY COST 10¢/kWh x kW/year	$350	$20 per year
TOTAL COST FIRST YEAR	**$7,549**	**$3,319**
TOTAL COST OVER 10 YEARS	**$27,899**	**$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.