Sure Chill technology is a result of more than 20 years of experience and in use in over 30 countries across the globe.

Our refrigerators have been independently tested and WHO pre-qualified to ensure consistent performance and reliability.

Godrej Appliances is a pioneer in the field of refrigeration with a rich experience of over 57 years.

**Expert Opinion**

“Sure Chill technology has the potential to improve the living conditions and healthcare of populations in some of the poorest countries and to lessen the impact of global warming on mankind. There can be no greater purpose.”

Sir John Houghton, CBE FRS
Former Chair of the Royal Commission on Environmental Pollution and Author of Global Warming: The Complete Briefing

“Nothing has made a greater contribution to the health of mankind than the massive scale up of childhood immunisation around the world, over the past two decades. Sure Chill technology will play a critical role in both sustaining and expanding of this impact in the years to come.”

Sir Richard Feachem, KBE, FREng, DSr(Med), PhD
Professor of Global Health at the University of California and Under Secretary General of United Nations

CRITICAL CARE FOR CRITICAL NEEDS

Godrej Medical Refrigerators with Sure Chill® technology ensure perfect temperature control with no risk of freezing.
Why choose Godrej Medical Refrigerators with Sure Chill technology?

• **Guaranteed never to freeze vaccines**: Research suggests that 75% to 100% of vaccine shipments are exposed to freezing temperature at some point during their time in the cold chain. Sure Chill® technology guarantees never to freeze vaccines. The unique technology limits the temperature variation in the cabinet to less than 1°C. This eliminates the stratification and freezing problems found in conventional vaccine refrigerators and ensures vaccines are kept at a constant safe temperature.

• **Minimises thermal shock**: Damage can occur to vaccines through a single exposure to heat when there is a power outage. It can also occur through several short exposures to heat when standard equipment fails to meet the twin challenges of high ambient temperatures and unreliable electricity supply. Godrej Medical Refrigerators with Sure Chill technology are different. They deliver outstanding performance with as little as 2½ hours of electricity per day at high ambient temperatures. If the power goes off completely, Sure Chill can keep vaccines at a safe temperature for 10 days or more, even with the refrigerator in normal use.

• **Thrives under testing conditions**: The Sure Chill Solar Direct Drive vaccine refrigerator delivers the same reliable performance as the mains powered version. What’s more, it doesn’t need a battery to keep delivering that performance overnight or in low light conditions.

• **Patented Sure Chill technology**: Sure Chill works on the principle that water is at its densest at 4°C. Water, not ice, surrounds a Sure Chill refrigerator compartment. When power is supplied to the refrigerator, the water cools and ice is formed above the compartment leaving only water at 4°C cooling the contents. When the power is switched off, the water warms and rises while the ice begins to melt. This keeps only water at a perfect 4°C cooling the contents of the compartment. The system can operate like this, without any power whatsoever, for many days.

• **A sound investment**: Vaccines are a major investment. Over the course of its lifetime millions of dollars of vaccines will be stored in it. Thousands of lives will depend on its performance. It makes sense to invest in a vaccine refrigerator that can ensure the safe storage of vaccines even under the most challenging conditions. An inferior refrigerator is a false economy and one that could cost lives.

### Product Features:

1. General
   - Solar Direct Drive vaccine refrigerators

2. Performance
   - Minimises thermal shock during usage compared to conventional refrigerators
   - Operating temperature range: +10°C to +43°C
   - Voltage and frequency: 2 x 235 Wp, 24V solar panels
   - Guaranteed never to freeze contents with patented Sure Chill technology

3. Features
   - Display Thermometer: Externally readable digital display thermometer
   - Surge protector (optional)
   - Front opening for easy stock management
   - Corrosion resistant: Outer cabinet is made of galvanised steel
   - Fitted with two latch locks for use with a padlock
   - Designed for easy maintenance and repair
   - 2 year warranty

4. Specifications

   **GVR 50DC SOLAR DIRECT DRIVE SURE CHILL REFRIGERATOR**
   - Dimensions: 122 x 79.5 x 75 cm (HxLxD)
   - Gross Storage Capacity: 57.7 Ltr
   - Vaccine Storage Capacity: 46.5 Ltr
   - Energy Source: Solar direct drive
   - Solar Array Details: Multicrystalline panels, 470 Wp
   - Power Consumption at +43°C (Stable running and cool down): 0.26 kWH/24 hours
   - Refrigerant: R600a
   - PQS Code: E003
   - Weight: 125 Kg for refrigerator/115 Kg for solar system
   - Holdover Time: Holdover 5+ days

   **GVR 100DC SOLAR DIRECT DRIVE SURE CHILL REFRIGERATOR**
   - Dimensions: 182 x 79.5 x 75 cm (HxLxD)
   - Gross Storage Capacity: 99 Ltr
   - Vaccine Storage Capacity: 86 Ltr
   - Energy Source: Solar direct drive
   - Solar Array Details: Multicrystalline panels, 470 Wp
   - Power Consumption at +43°C (Stable running and cool down): 0.35 kWH/24 hours
   - Refrigerant: R600a
   - PQS Code: E003
   - Weight: 160 Kg for refrigerator/115 Kg for solar system
   - Holdover Time: Holdover 11+ days

SureChill is a patented technology licensed by The SureChill Company.
Key Features

- Solar Direct Drive Refrigerator
- Easy to use plug and play solar panels
- Does not rely on batteries to store energy during periods of no power
- Sure Chill technology guarantees never to freeze vaccines
- Environment friendly - CFC, HFC and HCFC free
- WHO pre-qualified. Ambient temperature rated +10˚C to +43˚C.
- Has a built-in intelligent temperature control, early warning and energy management system

Proven Performance with Sure Chill technology -

Uncompromised cooling

- Sure Chill technology limits temperature variation within the cabinet to less than 1˚C and guarantees never to freeze vaccines
- The technology provides exceptionally long holdover times to cope with periods of no power
- Ice never forms on the cabinet walls - no risk of freezing and no need to ever defrost the refrigerator
- Solar Direct Drive models deliver same reliable performance as mains powered versions

Compliant with International Standards

- All models have been independently tested and are WHO pre-qualified
- All models are extensively tested to simulate the harshest environmental conditions
- Independent study confirms Sure Chill technology provides dependable cooling - protecting lifesaving vaccines

Saving lives around the world

- Sure Chill technology is in use in over 30 countries across the world including: Afghanistan, Chad, DR Congo, Ethiopia, Haiti, India, Malaysia, Mali, Nigeria, Philippines, Senegal, Sierra Leone, South Africa, South Sudan, USA, Vietnam, Zambia and Zimbabwe

Trusted by Ministries of Health

- “Sure Chill has not only ensured that our vaccines are stored at the right temperature even without power for a long time, but also relieved us of the tension of getting the valuable vaccines spoiled due to regular outage of power and ambient temperatures.”

Gilbert Musonda, Chief Medical Equipment Officer, Republic of Zambia, Ministry of Health
Sure Chill is a patented technology licensed by The Sure Chill Company

**Key Features**

- Sure Chill technology guarantees never to freeze vaccines
- Environment friendly - CFC, HFC and HCFC free
- WHO pre-qualified. Ambient temperature rated +10°C to +43°C.
- Has a built-in intelligent temperature control, early warning and energy management system
- Refrigerator continues to operate on only 2.5 hrs/day power at 43°C ambient

**Product Features:**

1. **General**
   - Vaccine refrigerators powered by mains electricity

2. **Performance**
   - Minimises thermal shock during usage compared to conventional refrigerators
   - Operating temperature range: +10°C to +43°C
   - Voltage and frequency: 220-240V 50/60 Hz
   - Guaranteed never to freeze contents with patented Sure Chill technology

3. **Features**
   - Display Thermometer: Externally readable digital display thermometer
   - Voltage Stabiliser (optional): Operating range 160-270V
   - Front opening for easy stock management
   - Corrosion resistant: Outer cabinet is made of galvanised steel
   - Fitted with two latch locks for use with a padlock
   - Designed for easy maintenance and repair
   - 2 year warranty

4. **Specifications**

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