

SURECHILL | COOLING
TECHNOLOGY

MEDICAL COOLING, PERFECTED.

Dependable and accurate medical-grade refrigeration
that can cool for days and weeks without power.





**MAKING A
DIFFERENCE.**

At Sure Chill, we believe in making a difference. Not just in the quality of the products we create, but in the way that they can improve the lives of people using them. Our technology is revolutionary; we deliver constant temperature for days and even weeks without constant power. And importantly without hurting the planet.

We'll never stop innovating and addressing the global cooling challenge. We're proud of the difference Sure Chill technology makes around the world, from vaccines in Gabon to medicine in London, it's cooling you can trust.

N Saunders

Nigel Saunders, CEO

SURECHILL | COOLING
TECHNOLOGY

NATURAL, UNSTOPPABLE COOLING.

Sure Chill is powering a revolution in cooling. Continuous cooling for days and even weeks without constant power. Even in the harshest of conditions. Used in over 44 countries, it's saving lives all over the world.

Our patented technology is robust and adaptable, it's able to use grid electricity when available, run on solar power when off-grid, or use our revolutionary ice battery to cool when no power is accessible.

In each case utilising ice in a way that is described as 'ingenious' by a Nobel prize winning scientist. Our innovative batteryless energy store means no chemicals, greater reliability, lower maintenance costs and importantly no pollution.



Perfect cooling, even without power

If the power goes off completely, Sure Chill can keep vaccines at a safe temperature for over 12 days, even with the refrigerator in normal use.



Grade A freeze protection

Sure Chill technology guarantees never to freeze vaccines. The unique technology limits the temperature variation in the cabinet to less than 1°C.



Unrivalled temperature stability

Sure Chill's unique way of cooling allows perfectly stable temperatures throughout the entire fridge, unlike conventional refrigeration.



Proven with renewable energy

From Kenya to Colombia, our Solar Direct Drive refrigerators work perfectly with renewable energy.



World Health Organization approved

Approved by WHO in 2011, our medical refrigerators are used in over 44 countries.



Energy efficient & planet friendly

A natural energy store means saving energy and saving the planet. Sure Chill is efficient on every level.

Time to think differently about medical refrigerators.

151 million

Vaccines are lost annually due to improper refrigeration in developing countries.

19.4 million

Infants worldwide are still missing out on basic vaccines.

20 seconds

One child dies every 20 seconds from a disease preventable by vaccine.

2-8°C

The temperature range that most vaccines need to stay between to keep their potency.

2.5 hours

The amount of power per day a Sure Chill fridge needs to stay perfectly cold.

12.5 days

How long a typical Sure Chill fridge can remain perfectly cool for without power.



Our reach

GLOBAL REACHING.

Sure Chill is headquartered in the United Kingdom, working with trusted, quality manufacturing partners to supply products across the world, to the people who need them the most.

Sure Chill's proven track record of supplying medical refrigerators globally has built a reputation of trust within the market as perfect partners for international NGO's, Ministries of Health and Private Healthcare.

Our adaptability

LIVESTOCK PROTECTION.

Monitoring animal health and preventing animal disease outbreaks is vital to the economy and safety of a country's food supply. Production of healthy livestock helps to ensure a safe food supply and keep consumer prices stable.

Animal vaccines demand the same high quality cold chain as human vaccines, therefore a dependable refrigeration network is critical. Sure Chill refrigerators are perfect for protecting vital livestock vaccinations, whether it's in clinics with erratic power or off-grid farms requiring solar power.

END TO END SERVICE.



Service and sales partners

Sure Chill has established a global network of service and sales partners which enables an exceptional customer experience, all over the world. Our partners have been carefully selected through a rigorous process, with their years of experience, local knowledge and capacity as an essential criteria to assisting customers with our products. This network of local expertise provides pre-sales, installation and post-sales activities.



In-country training

Sure Chill offers bespoke in-country training from their team of experienced engineers, transferring knowledge of how to operate the technology, directly to the local communities involved. This empowers them to increase reach of immunization services in their own regions and countries. Sure Chill medical refrigerators are straight-forward to install, but learning from best practice developed over many years will help them run reliably into the future.



Quality management

For planning and quality management of installations, Sure Chill utilises its 'Geographic Information System' software. A mobile data collection tool that has been tailored specifically for providing services projects for Sure Chill fridges.

It enables Sure Chill and the global project team with the quality framework to provide standard operating procedures and fault finding tools to the service partner technicians, as well as giving up to date records of the status of installations. For the local project team, it provides GPS locations of installation sites, planning tools, plus the ability to upload location photos, technician live location, installation quality records and sign-off signatures.



Remote monitoring

For perfect temperature control across thousands of devices, we offer Remote Temperature Monitoring Devices, vital for the quality surveillance of the Cold Chain and monitoring of vaccines

- Real time, continuous monitoring of temperature, door openings & GPS position
- Worldwide remote monitoring and data access over a secure web portal
- Diagnose issues remotely
- Global SIM technology allows devices to be deployed anywhere in the world
- Alarms including temperature deviations & door openings, sent by SMS or email

Our technology

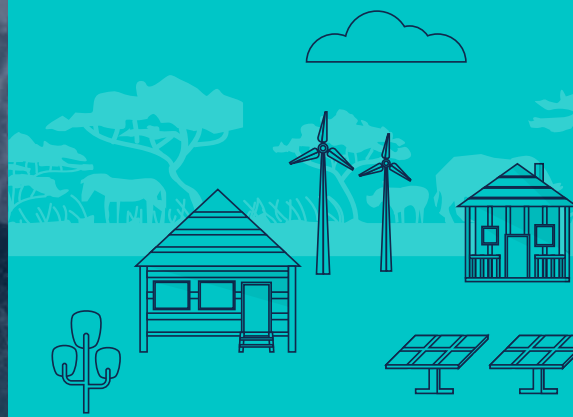
WE HARNESS NATURE.

How does it work?

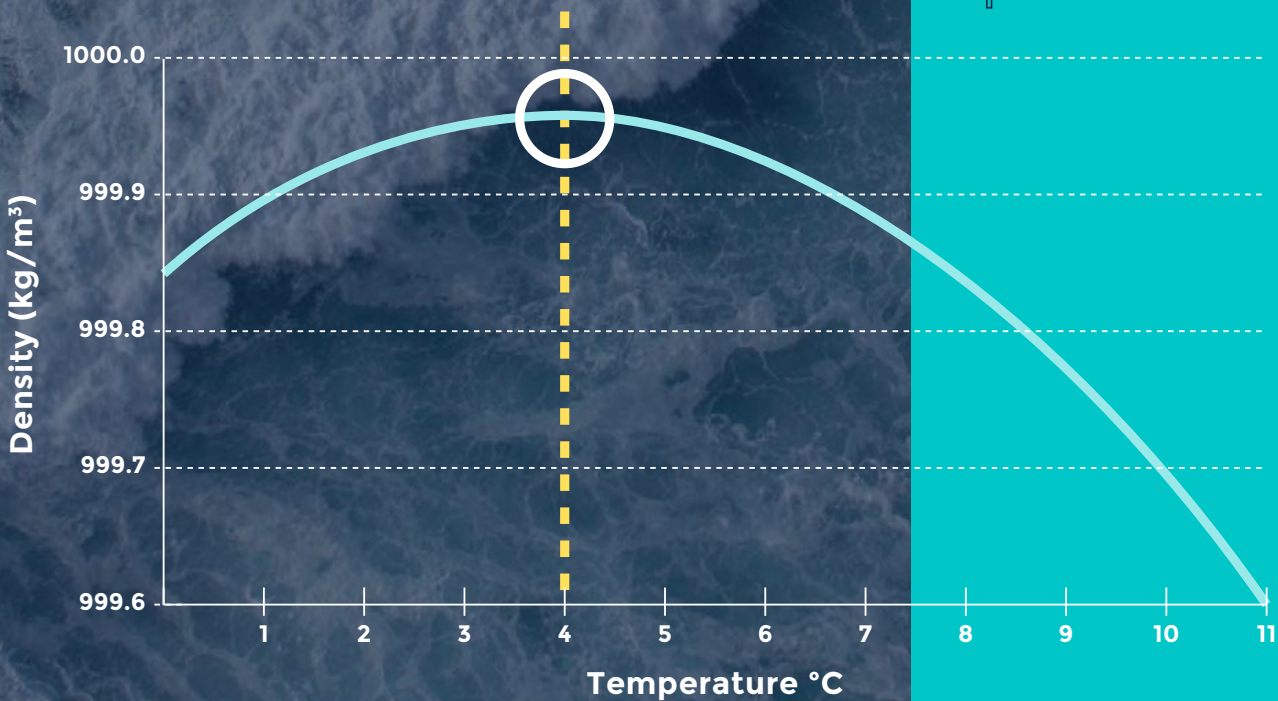
Sure Chill's patented technology harnesses a natural phenomenon to allow vaccines to be kept cool in some of the harshest climates in the world.

Sure Chill uses the unique properties of water; that it's most dense at 4°C, and that when it freezes, it retains and stores a huge amount of energy

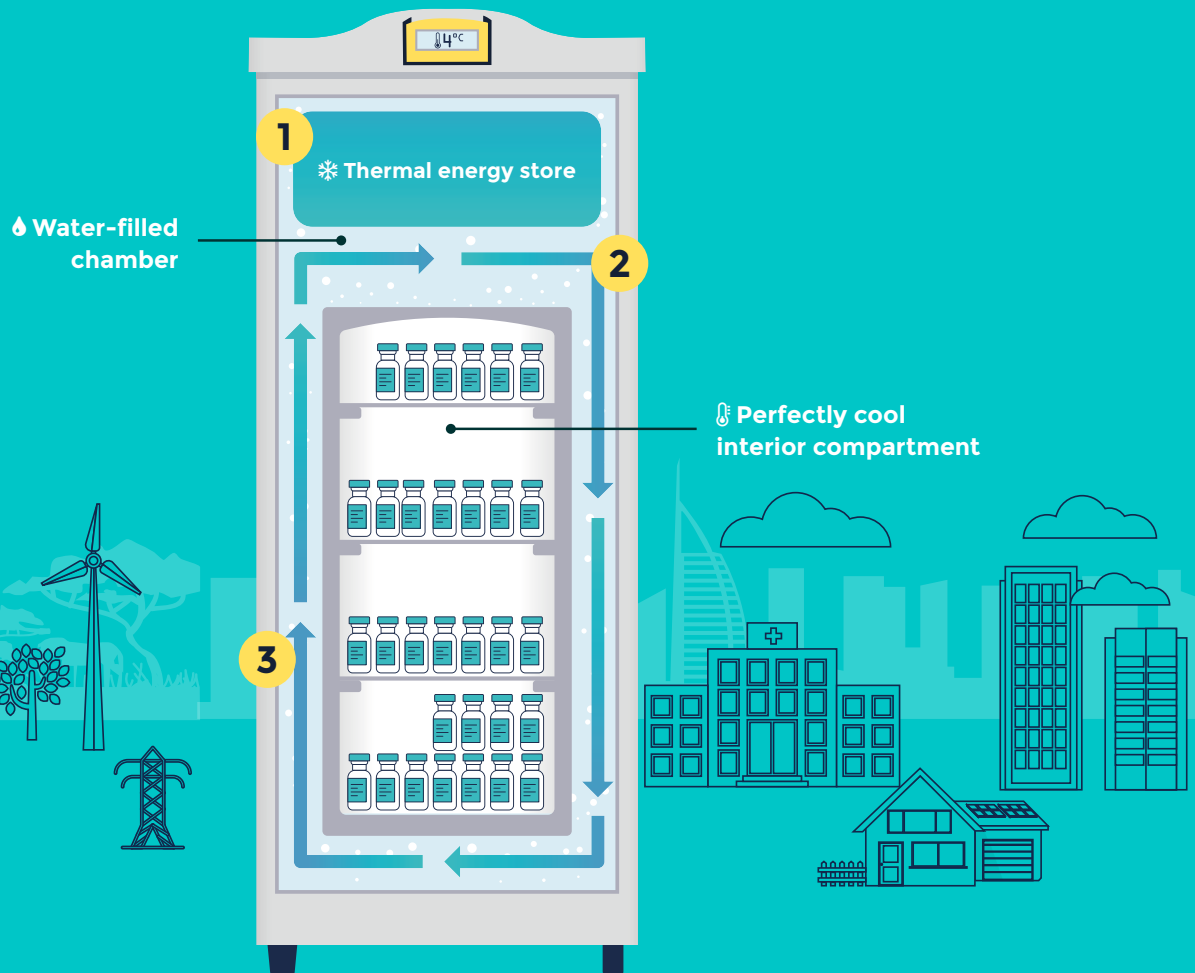
This natural phenomenon is the core of our technology, enabling our refrigerators to run for a long time with no energy. It teams perfectly with solar power, or any other situation when the power supply is sporadic.



Density of water



Q Simplified cross-section of a Sure Chill refrigerator



- 1** Sure Chill innovative refrigerators contain walls filled with water. Above the refrigerator compartment there is a small tank with ice and water inside, this is our ingenious natural battery.
- 2** Water is heaviest at 4°C, all the water under the ice is 4°C, meaning that the entire compartment temperature is controlled to a perfectly cool temperature range.
- 3** The ice acts just like a battery that never wears out, storing useful, high density energy any time that power is available. This unique method of cooling allows a constantly stable temperature, with or without power.

Case Study Mali

REINVENTING THE COLD CHAIN.

When a country trusts you to equip their whole cold chain, you know you're doing something right.

At the beginning of 2014, Mali's Ministry of Health recognised the need to improve the vaccine cold chain across the country and selected Sure Chill as their partner to do so. Mali received assistance from UNICEF and funding from UNICEF partners to substantially rebuild the cold chain from regional cold stores to health post refrigerators. A UNICEF cold chain consultant was based in country for 3 years and developed an overarching strategy with the requirement to prevent vaccines freezing, conventional refrigeration had been used previously.

This essential objective required the use of fail-safe freeze-free cooling and the replacement of ice pack with chilled water packs for outreach. As the first Grade A freeze-free vaccine refrigerator, Sure Chill technology was perfectly suited to the task.

Sure Chill units were supplied to Mali from 2014, equipping the entire cold chain of the country with Sure Chill technology, ensuring vital vaccines are protected throughout the country's clinics and outreach centres.

Training from Sure Chill's team of experienced engineers was provided to technicians who would be responsible for looking after the units, ensuring that knowledge of servicing, fault diagnostics, maintenance and repairs was transferred.

See how Mali is utilising Sure Chill fridges to provide a freeze-free cold chain on the diagram overleaf. →

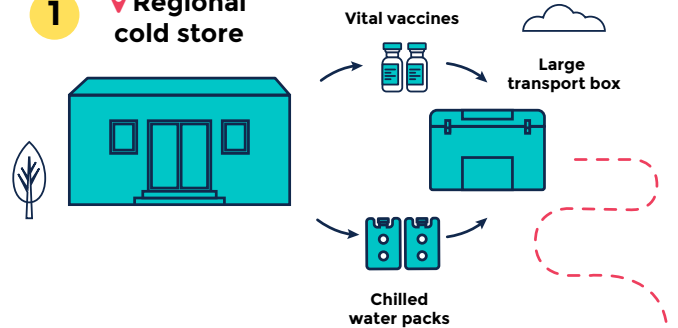
SURE CHILL'S FREEZE-FREE COLD CHAIN

Vaccines are only as good as the cold chain they depend on, which is why Sure Chill has reinvented the cold chain, changing it for good. Shockingly 75-100% of vaccines are exposed to freezing temperatures at some point during the cold chain, which can destroy their life-saving properties.

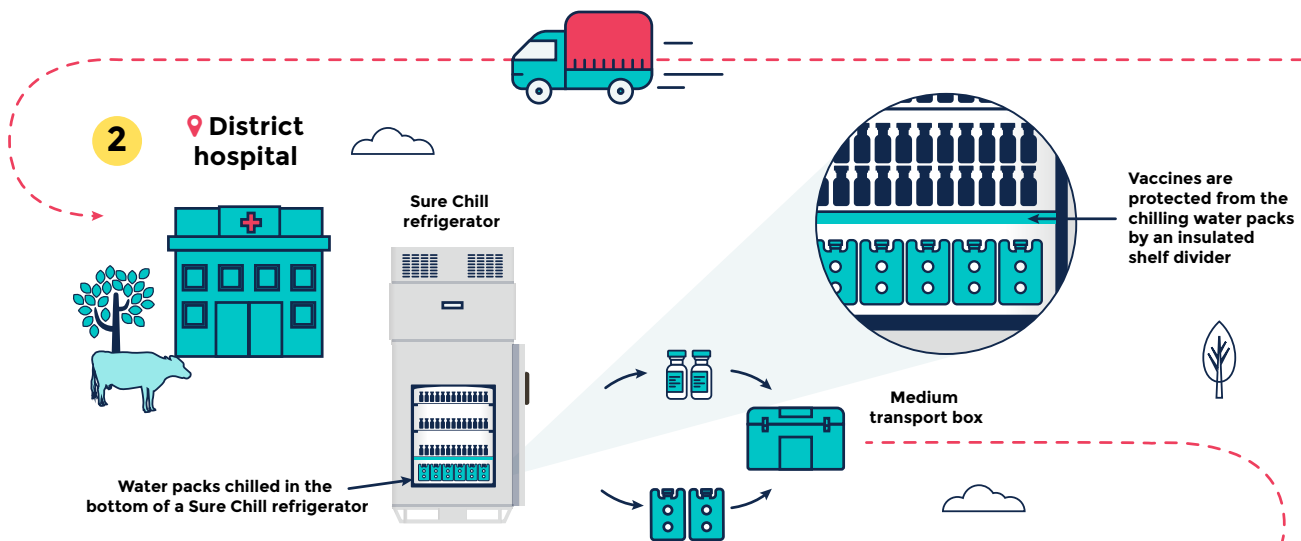
Offering an entirely freeze-free solution, Sure Chill's cold chain uses chilled water packs, which are cooled in the very same refrigerators the vaccines are stored.

See how it's working in Mali.

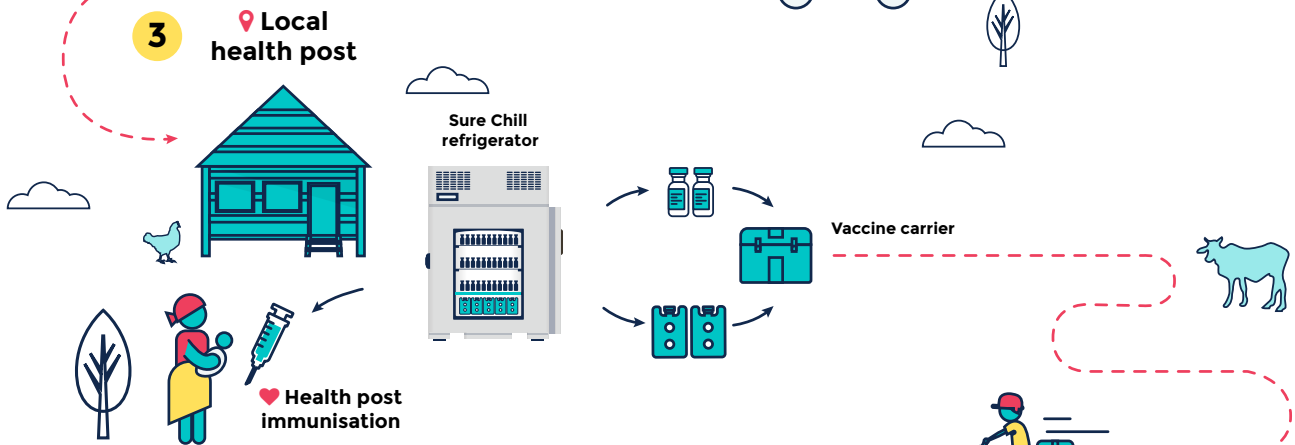
1 Regional cold store



2 District hospital



3 Local health post



4 Outreach area



Our products

 **Solar powered - SDD range**

UNRIVALLED STABILITY.



Sure Chill's Solar Direct Drive (SDD) range of refrigerators are perfect for off-grid locations, working straight from solar panels without batteries or harmful phase change materials (PCM). The range safely achieves twice the holdover time of regular SDD's.



**RUNS ON
SOLAR DIRECT
DRIVE**



**UNRIVALLED
TEMPERATURE
STABILITY**



**GRADE A
FREEZE-FREE
GUARANTEE**



**WORLD HEALTH
ORGANIZATION
APPROVED**



**MARKET
LEADING
HOLDOVER**



**PLANET
FRIENDLY
& EFFICIENT**



Utilises a two panel solar array





	ZLF30DC	GVR50DC	ZLF100DC	GVR100DC	ZLF150DC
WHO PQS Code	E003/055	E003/049	E003/037	E003/050	E003/052
Type	SDD	SDD	SDD	SDD	SDD
Vaccine Storage (L)	27	46.5	99	99	128
Vaccine Storage Capacity					
Hold over @ 43C (days)	3.6	5.0	5.2	11.6	7.0
Grade A freeze protection					
Autonomy @ 43C (days)	3.2	5.6	7.1	7.3	4.5
Power Supply	Solar Array - 1x 250Wp, 24VDC	Solar Array - 2x 235Wp, 24VDC	Solar Array - 2x 250Wp, 24VDC	Solar Array - 2x 250Wp, 24VDC	Solar Array - 2x 250Wp, 24VDC
Fully CCEOP compliant					
Refrigerant	R600a	R600a	R600a	R600a	R134a
Dimension (cm)	102.5 x 60 x 56	122 x 79.5 x 75	180 x 85 x 73	182 x 79.5 x 75	189 x 83 x 71
Net Weight (kg)	65	96	115	125	120
Accessories (included)	3 wire shelves, 1 Padlock	3 wire shelves, 1 Padlock	3 wire shelves, 1 Padlock	5 wire shelves, 1 Padlock	3 wire shelves, 1 Padlock
Environmentally friendly	CFC & HFC free	CFC & HFC free	CFC & HFC free	CFC & HFC free	CFC free
Quality standard	ISC 9001:2008	ISC 9001:2008	ISC 9001:2008	ISC 9001:2008	ISC 9001:2008
Manufacturer	Zero	Godrej	Zero	Godrej	Zero

Additional advantages

PERFECT 4°C

Sure Chill technology keeps vaccines at a perfectly safe temperature.

BATTERY FREE

Does not rely on a battery to store energy during periods of no power.

PLUG AND PLAY

Easy to install with Plug and Play solar panels.

INTELLIGENT CONTROL

Early warning and energy management system.

DIGITAL DISPLAY

Always visible easy to read temperature display.

CORROSION RESISTANT

Corrosion resistant outer cabinet.

Our products

Mains Electric - ILR Lite range

INTRODUCING THE LITE RANGE.



Introducing Sure Chill Lite, our lean, slimline range of vaccine refrigerators. When the temperature sensitive contents are vitally important, the Lite can protect them against short-term power loss, featuring a slimmer profile than our other devices.



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**REQUIRES
ONLY 2.5HRS
POWER A DAY**



**CUSTOMISABLE
DATA LOGGER**





	CVR51AC Lite	CVR75AC Lite	CVR99AC Lite
WHO PQS Code	E003/080	E003/081	E003/082
Type	ILR	ILR	ILR
Vaccine Storage (L)	51	72.5	98.5
Vaccine Storage Capacity			
Hold over @ 43C (days)	3.7	3.4	2.5
Grade A freeze protection			
Power Supply	Mains Electric 220V & 110V	Mains Electric 220V & 110V	Mains Electric 220V & 110V
Fully CCEOP compliant			
Refrigerant	R600a	R600a	R600a
Dimension (cm)	151.5 x 73.5 x 62	151.5 x 73.5 x 62	170 x 73.5 x 62
Net Weight (kg)	85	85	95
Accessories (included)	3 wire shelves, 1 padlock, voltage regulator	3 wire shelves, 1 padlock, voltage regulator	3 wire shelves, 1 padlock, voltage regulator
Environmentally friendly	CFC & HFC free	CFC & HFC free	CFC & HFC free
Quality standard	ISC 9001:2008	ISC 9001:2008	ISC 9001:2008
Manufacturer	Godrej 	Godrej 	Godrej

Additional advantages

PERFECT 4°C

Sure Chill technology keeps vaccines at a perfectly safe temperature.

BATTERY FREE

Does not rely on a battery to store energy during periods of no power.

DATA LOGGER

Records up to 30 days of temperature readings.

INTELLIGENT CONTROL

Early warning and energy management system.

SLIMMER PROFILE

Lighter holdover, lighter storage, lighter price.

CORROSION RESISTANT

Corrosion resistant outer cabinet.

Our products

Mains Electric - ILR range

UNRIVALLED PERFORMANCE.



Sure Chill's mains electric range of refrigerators keep vaccines perfectly cool in the absence of any power for days, and even weeks, at a time even in a constant 43°C ambient temperature. This range provide the durability and robustness required for intensive use, and are perfectly suited for health centres where power is unreliable, or intermittent.



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**PLANET
FRIENDLY
& EFFICIENT**





	ZLF30AC	CVR50AC	ZLF100AC	CVR100AC	ZLF150AC	CVR225AC
WHO PQS Code	E003/051	E003/046	E003/036	E003/047	E003/044	E003/083
Type	ILR	ILR	ILR	ILR	ILR	ILR
Vaccine Storage (L)	27	46.5	99	99	128	225
Vaccine Storage Capacity						
Hold over @ 43C (days)	3.2	7.6	4.7	12.5	5.3	2.3
Grade A freeze protection						
Power Supply	Mains Electric 220V & 110V	Mains Electric 220V & 110V	Mains Electric 220V & 110V	Mains Electric 220V & 110V	Mains Electric 220V & 110V	Mains Electric 220V & 110V
Fully CCEOP compliant						
Refrigerant	R134a	R600a	R134a	R600a	R134a	R600a
Dimension (cm) HxLxD	102.8 x 61.9 x 56.3	122 x 79.5 x 75	178 x 85 x 71	182 x 79.5 x 75	190 x 85 x 72	182 x 79.5 x 75
Net Weight (kg)	65	96	100	125	116	125
Accessories (included)	3 wire shelves, 1 padlock, voltage regulator	3 wire shelves, 1 padlock, voltage regulator	3 wire shelves, 1 padlock, voltage regulator	5 wire shelves, 1 padlock, voltage regulator	3 wire shelves, 1 padlock, voltage regulator	5 wire shelves, 1 padlock, voltage regulator
Environmentally friendly	CFC free	CFC & HFC free	CFC free	CFC & HFC free	CFC free	CFC & HFC free
Quality standard	ISC 9001:2008	ISC 9001:2008	ISC 9001:2008	ISC 9001:2008	ISC 9001:2008	ISC 9001:2008
Manufacturer	Zero 	Godrej 	Zero 	Godrej 	Zero 	Godrej

Additional advantages

PERFECT 4°C

Sure Chill technology keeps vaccines at a perfectly safe temperature.

SAFE AND SECURE

Latch locks are fitted for extra security.

DIGITAL DISPLAY

Always visible easy to read temperature display.

BATTERY FREE

Does not rely on a battery to store energy during periods of no power.

INTELLIGENT CONTROL

Early warning and energy management system.

CORROSION RESISTANT

Corrosion resistant outer cabinet.

Our products

Fridge freezer combination

IMPROVING OUTREACH.

Sure Chill's combined fridge freezer keep vaccines perfectly cool in the absence of any power for days, and even weeks, at a time even in a constant 43°C ambient temperature. Allowing the freezing of up to 24 ice packs that can be used in portable vaccine carriers, the perfect device to facilitate 'last mile' vaccinations and outreach programmes.



**FREEZES
UP TO 24 ICE
PACKS**



**RUNS ON
SOLAR DIRECT
DRIVE**



**UNRIVALLED
TEMPERATURE
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Ice packs for use with passive vaccine carriers





In development

CVR55FF DC

CVR55FF AC

ZLF90FF DC

WHO PQS Code

E003/095

Pending

Pending

Type

SDD

ILR

SDD

Vaccine Storage (L)

58

58

46.5

Vaccine Storage Capacity



Ice Pack Capacity (L)

14.4
(24 x 0.6L)

14.4
(24 x 0.6L)

14.4
(24 x 0.6L)

Grade A freeze protection



Autonomy @ 43C (days)

11.8

N/A

> 3

Power Supply

Solar Array -
1000W, 24V

Mains Electric
220V & 110V

TBC

Fully CCEOP compliant



Refrigerant

R290

R290

R600a

Dimension (cm)

183 x 79.5 x 75

183 x 79.5 x 75

144 x 80 x 70

Net Weight (kg)

380 (boxed)

200 (boxed)

TBC

Accessories (included)

2 wire shelves, 1
padlock, lightning
protector

2 wire shelves, 1
padlock, voltage
regulator

2 wire shelves, 1
padlock, lightning
protector

Environmentally friendly

CFC & HFC
free

CFC & HFC
free

CFC & HFC
free

Quality standard

ISC 9001:2008

ISC 9001:2008

ISC 9001:2008

Manufacturer

Godrej



Godrej



Zero



Additional advantages

PERFECT 4°C

Sure Chill technology keeps vaccines at a perfectly safe temperature.

DATA LOGGER

Records up to 30 days of temperature readings.

DIGITAL DISPLAY

Always visible easy to read temperature display.

BATTERY FREE

Does not rely on a battery to store energy during periods of no power.

INTELLIGENT CONTROL

Early warning and energy management system.

CORROSION RESISTANT

Corrosion resistant outer cabinet.

Our products

Blood banks

RELIABLE STORAGE.

All Sure Chill medical refrigerators (apart from the Lite range) can be modified for blood bank storage. Sure Chill Blood Bank refrigerators are based on the World Health Organization PQS approved refrigerators. With them the integrity of blood supplies is safeguarded. The refrigerators deliver outstanding performance on as little as 2½ hours power per day and keep blood below 6°C for days without any power whatsoever. Solar Direct Drive Blood Bank Refrigerators are also available for off-grid locations.



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**PLANET
FRIENDLY
& EFFICIENT**



New products

Accessories

	Now available	In development
	ZLF80AC	ZLF57DC
WHO PQS Code	E003/096	Pending
Type	ILR	SDD
Vaccine Storage (L)	77	54
Vaccine Storage Capacity	📦📦📦📦📦	📦📦📦📦📦
Hold over @ 43C (days)	4.4	TBC
Grade A freeze protection	❄️	❄️
Autonomy @ 43C (days)	N/A	>3
Power Supply	Mains Electric 220V & 110V	Solar Array - 2x 235Wp, 24VDC
Fully CCEOP compliant	✓	✓
Refrigerant	R134a	R600a
Dimension (cm)	182 x 79.5 x 75	182 x 79.5 x 75
Net Weight (kg)	TBC	80
Accessories (included)	Wire shelves, 1 padlock, voltage regulator	Wire shelves, 1 padlock, voltage regulator
Environmentally friendly	CFC & HFC free	CFC & HFC free
Quality standard	ISC 9001:2008	ISC 9001:2008
Manufacturer	Zero  	Zero  

	Manufacturer
Solar Pathfinder	Godrej & Zero
Installation Kit	Godrej & Zero
Compass	Godrej & Zero
Cabling	Godrej & Zero

Temperature monitoring

Fridge Tag 3 📶 remote	Godrej
StatSend 📶 remote	Zero
VaxTag	Zero
FridgeTag 2E	Zero

Other Accessories

Colored Dye	Godrej & Zero
Additional Wire Shelves	Godrej & Zero
Blood bank shelves	Godrej & Zero
Insulated dividers To facilitate the additional cooling of water packs without causing thermal shock.	Godrej

Case Study South Sudan

“WITHOUT THE FRIDGE, THESE DISEASES WOULD HAVE CLAIMED MANY, MANY LIVES”

We meet the fantastic staff at Liwolo Clinic to find out how a Sure Chill medical refrigerator is saving lives in South Sudan.

Landlocked South Sudan is nestled between Democratic Republic of the Congo and Uganda and as one of the poorest and most fragile nations in the world, there is just one doctor per 100,000 people.

South Sudan is wrought with poverty and is the world's youngest country. It's lived through 50 years of war and there is minimal healthcare; 83% of the country's primary healthcare is provided by NGOs, like the British charity CRESS. Sure Chill Technology has been cited as one of the top innovations saving lives. To discover how our technology is making a life-changing difference in South Sudan, we spoke to CRESS and staff at Liwolo Clinic.





A New Clinic for Liwolo

Liwolo clinic is the first of its kind within in a 40 mile radius in South Sudan, with people travelling in trepidation for three long days just to get the healthcare they crucially need.

When CRESS responded to the urgent need for healthcare, they constructed a clean, private and solar powered clinic.

Joseph Aba, head of CRESS in South Sudan reflects, “my people can now access treatment and be treated with dignity, love and care in their time of great need. My heart is filled with joy.”

Liwolo Receives The Only Fridge in a 40 Mile Radius

By early 2016, the clinic had made huge strides in improving healthcare for the community, yet it was missing one vital ingredient; a medical refrigerator that could protect essential medical supplies in one of the world’s most remote locations where there is no electricity.

Joseph tells us how much the clinic needed the refrigerator at Liwolo Clinic, “The community was suffering hugely, there was no fridge within a 40 mile radius,” Joseph pauses, “many people ended up dying without treatment for diseases and life-saving vaccines. We have so many terrible stories to testify where this has happened...”

CRESS addressed this urgent need and purchased a Sure Chill solar direct drive (SDD) medical refrigerator after a recommendation from a fellow NGO. Sure Chill SDD’s can last for weeks without power, will never freeze vaccines and are easy for clinics to use and maintain.

After an eventful journey from Johannesburg to Liwolo, the ZLF30DC refrigerator was installed in the clinic.

Caroline Lamb, CEO of CRESS spoke of the equipment for the clinic,

“This precious item has made all the difference to earlier diagnoses of diseases and protecting and prescribing the right medicine.”

As the only clinic with a medical refrigerator within a 40 mile radius, word has spread about Liwolo Clinic over the past year. It sees some 50 people attend the clinic each day, travelling from Northern Uganda, South Sudan and Moruba to access its services. Joseph told us, “one child in Laniya tried all the clinics in Laniya to access treatment, without success, but they came to this clinic and were successful!”

The clinic doesn’t only attract and serve the local community, but international personnel. Two UN officials supervising bridge construction work in South Sudan commended the clinic for the services provided to their staff. Simon L, UN Official praised the clinic, “Many of our staff building the three bridges had to use the clinic to be treated for typhoid and malaria. Some would’ve certainly died without the treatment – and if one had died, the others would

have given up and the three bridges would not have been completed.”

Clinic recommended for National Vaccination Programmes

Boasting its reliable and robust Sure Chill medical refrigerator, the County Health Director has recommended that Liwolo Clinic be used for National Vaccination Programmes. “The clinic can now treat successfully cases of Typhoid, Malaria, Hepatitis B and C, HIV and AIDS,” explained Joseph, “without the fridge, these diseases would have claimed many, many lives.”

Nurses at Liwolo Clinic said: “The drugs, vaccines and laboratory reagents which used to get spoiled due high temperature are now preserved and kept potent since they are kept under controlled temperature hence proper diagnosis and effective management of patients.” They added: “Patients no longer have to take drugs that have lost their efficacy and can receive effective, life-saving management for their problems.”



Speaking of their thoughts on the fridge performance, they told us: “The fridge doesn’t consume much power, which is important to us as we’re in such a remote place.” They went on to commend it for its safety, user-friendly design and maintenance benefits.

Upon reflection, Joseph explained, “without Liwolo clinic, its staff, medical equipment and the service it provides to a community of 40,000 people, it would be really impossible to save lives from disease and illness, people would continue to suffer helplessly.”

COMING
2019

Introducing...

LongTermPassive

Using patented Sure Chill technology, the **LongTermPassive** keeps vaccines perfectly cool and secure for over 30 days with no power and absolutely no risk of freezing.

SIMPLE, USER-FRIENDLY TWO STEP PROCESS

1 Simply load ice packs, ice, or a combination of both, straight from the freezer into the ice compartment.

2 Insert vaccines in the cooled 8 litres of freeze-free, secured vaccine storage space. It's that simple!



Immunization rates are lowest in rural areas such as Sub-Saharan Africa. Poor infrastructure and unreliable power make life-saving vaccines hard to come by and even harder to store, leaving entire communities vulnerable to preventable diseases.

Sure Chill technology has solved this challenge with its latest passive vaccine storage device. The only device of its kind to be certified with Grade-A Freeze Protection.

LongTermPassive is perfect for:



**RURAL OFF-GRID
OUTREACH
PROGRAMS**



**INNER CITY
CLINICS WHERE
SOLAR IS NOT A
POSSIBILITY**



**RAPID
EXPANSION OF
COLD CHAIN TO
NEW SITES**



**PROTECTING
VACCINES
DURING A FRIDGE
BREAKDOWN**