

VACCIBOX CATALOG

Vaccibox version 2.5



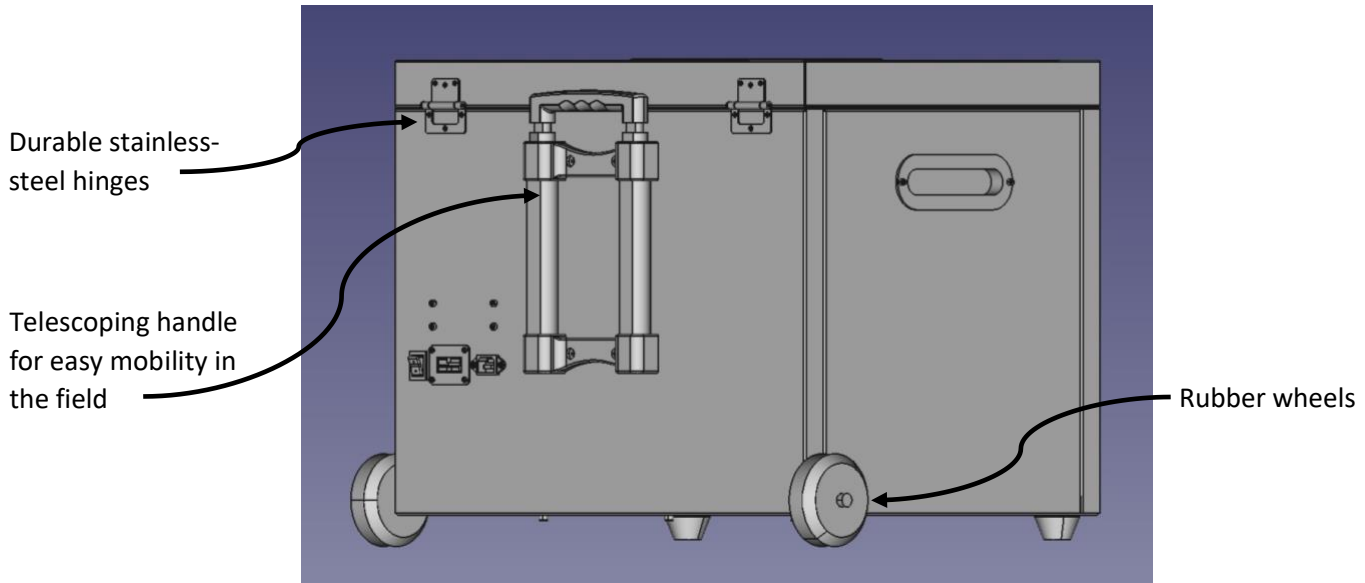
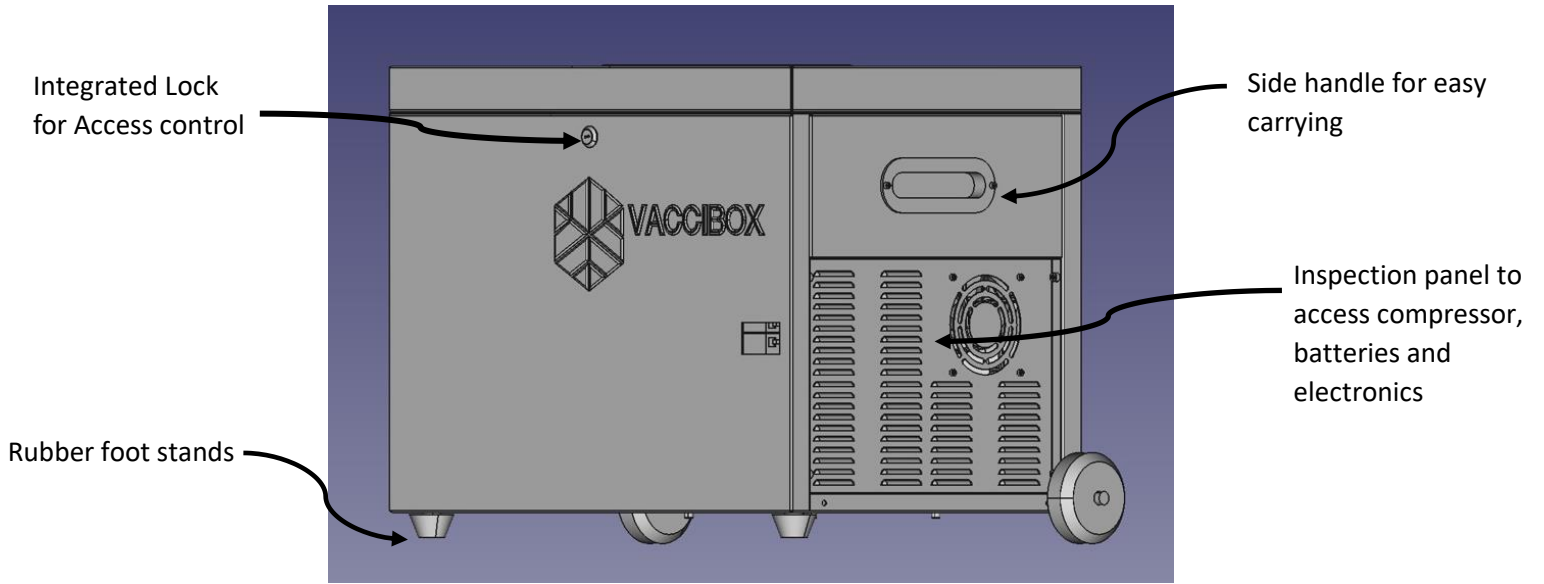
Description

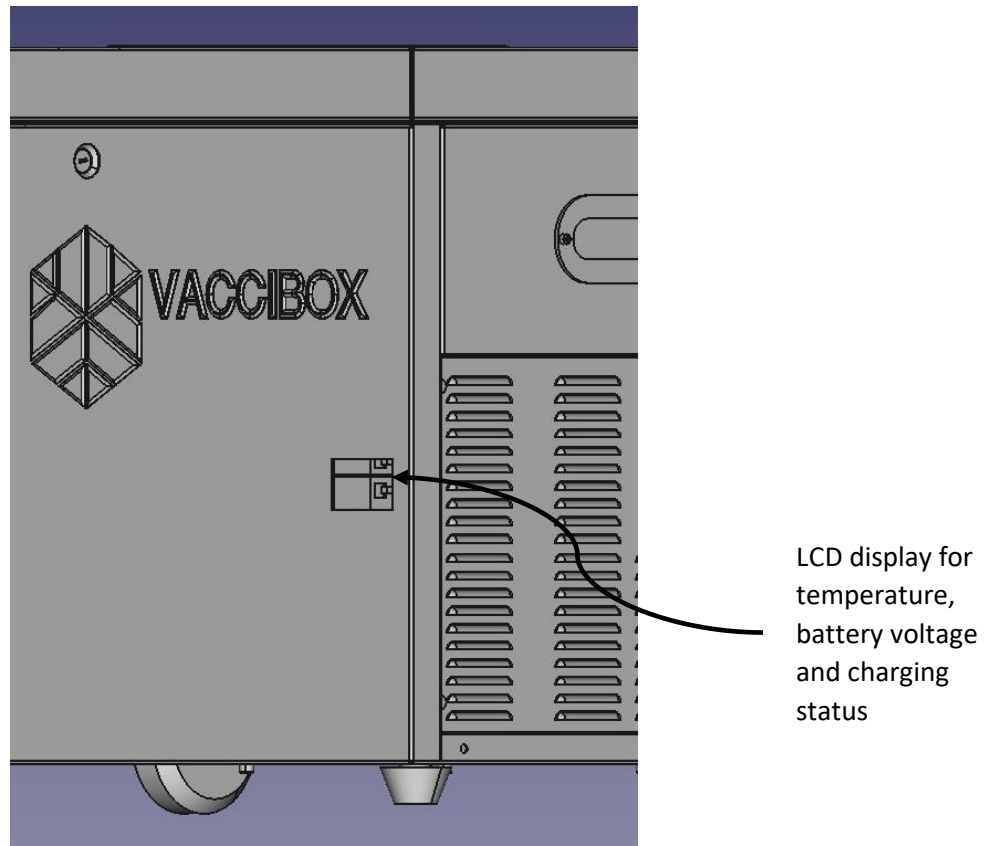
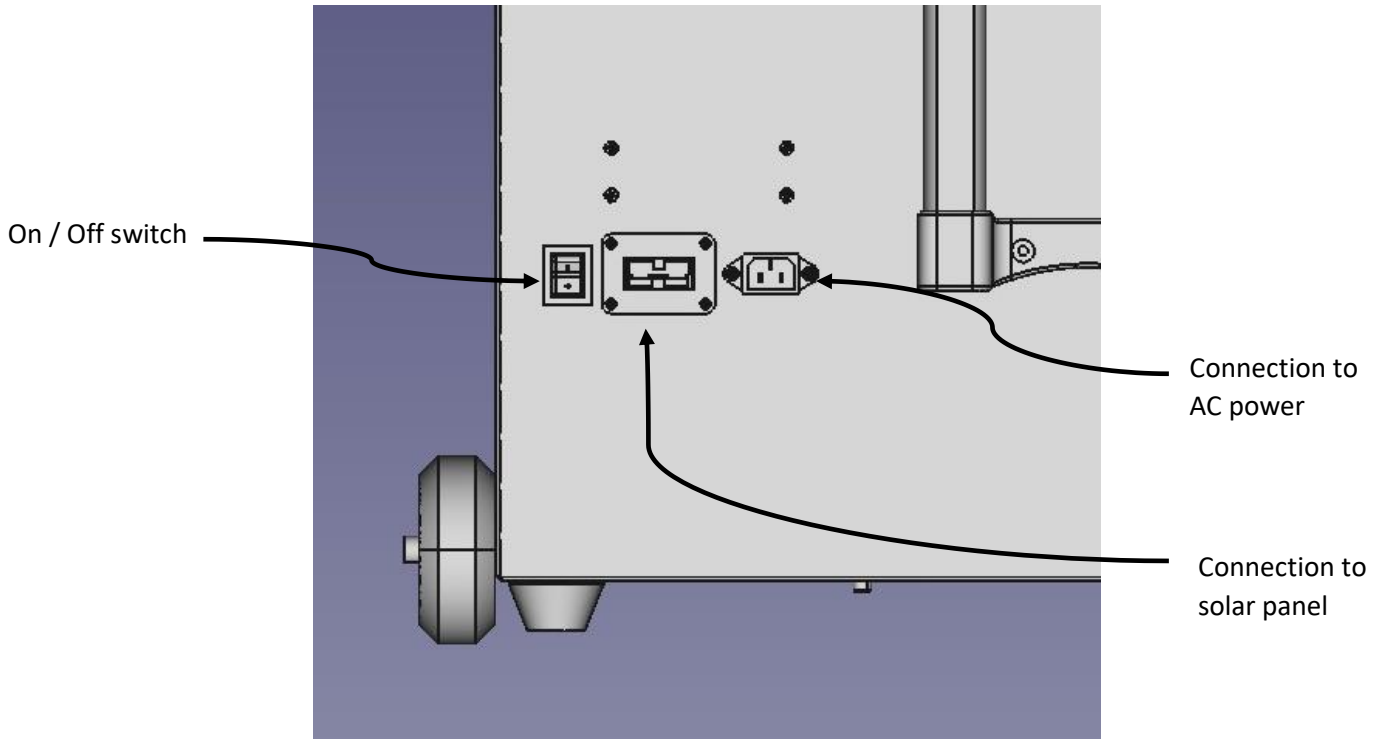
Vaccibox V2.5 is a portable solar-powered vaccine refrigerator designed and made in Kenya by Drop Access limited. It is a Refrigerator or combined refrigerator and water-pack freezer: Compression cycle, with solar rechargeable battery storage.

The fridge is designed for level 3 and below health facilities to meet vaccine cold chain gaps. It tackles power challenges that exist in rural and urban communities in Kenya by utilizing solar power and a rechargeable inbuilt battery storage.

Vaccibox is equipped with an inbuilt remote monitoring feature. Temperature, location, battery voltage, door status (open or closed) is monitored with the use of sensors and transmitted to a mobile application and web platform via GSM. This enables the real-time monitoring of the performance of the fridge. Warning alerts are also sent to the user when there is a fault in the system, for example, when the door is left open for more than 1 minute or when the temperature is outside the desired range of +2 to +8 degrees Celsius.

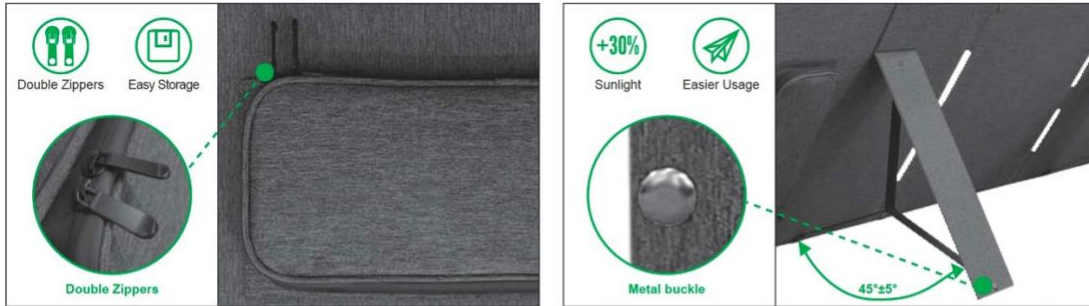
The Vaccibox fridge design, remote monitoring solution, Logo and Software are registered patents, trademarks and copyrights.





Vaccibox can be supplied with a fixed solar panel or optional foldable Solar panel, depending on customer needs.

Foldable Solar Panel



Easy Storage

Equipped with a storage pocket for easy packing of cables

Adjustable Kickstand Design

This will get 25-30% more sunlight than lying flat



Foldable & Portable

Foldable easy to carry, Simply unfold the solar panel,
Power up your device away from



Junction Box

IP67 junction box with in-built diodes
(Connector: DC/MC4/Andersson/XT60 etc.)

200W



Technical Data Sheet
VacciBox: Solar Powered Portable Vaccine Refrigerator

Version #2.5, June 2022

Drop Access Limited, Kenya.

Specifications	Application and Features
Application	Storage of vaccines and other medical items
Storage Volume	50 Liters
Temperature Rating	2° to 8°C
Holding Time	4 hours
Runtime on battery	36 hours
Lifetime of Product	10 Years
Warranty - Battery	12 Months
Warranty - Compressor	5 years
	Additional Features
PCB Board	Real time monitoring of battery performance, temperature, door status
GPS	Real time location tracker
Vaccibox Android App	End user interface
Vaccibox Web platform	Administrative back-end user platform
	Dimensions and Construction
Number of Doors	1, chest lid
Type of Door	Hinged, Opens upwards, non-reversible
Door Lock	Hasp lock with 2 keys
Interior Light	White LED
Interior Material	304 Stainless Steel
Exterior Material	304 Stainless Steel
Color	Brushed stainless steel exterior and interior
Side handles	2 on each side, 304 Stainless Steel
Telescopic handle	Rear side, powder coated steel
Casters / Feet	2 Fixed feet In Front, 2 rubber wheels In Rear

Exterior Dimensions (L x W x H) mm	625 x 450 x 540
Packaged Dimensions (H x W x D) mm	675 x 500 x 590
Interior Storage Configuration	Open space, vaccine racks used for stacking (not provided)
Unpacked Weight	31kg
Shipping Weight	33kg approx.
Refrigeration Configuration	
Compartment Type	Refrigerator
Refrigerant	R134a
Insulation	Polyurethane Foam
Cooling Method / Defrost	Compression cycle / Manual defrost
Controller Type / Controller Location	Electronic / Accessory compartment, Right Side Bottom panel
Compressor Mounting	Bottom Mounted, rubber insulated
Compressor Specifications	Max input power 60W, max current 4.9A, DC 12/24V
Electrical System Configuration and Installation Features	
Electrical Power (AC input)	240 Volts / 50 Hertz
Rated Wattage of Refrigerator	80 Watts
Power Plug/Power Cord Length	Provided / Three prong, 1.5 Metres
Solar Panel	Foldable flexible solar panel with carrying case
Solar panel Rated Current / Voltage / Wattage	11.1A (Imp) / 18V (Vmp) / 200W
Solar Plug / Solar panel cable length	50-amp Anderson plug / 5 meters
Battery	52Ah 14.8V lithium-ion battery with inbuilt BMS
Screen	2" LCD screen
On/off switch	Installed on rear panel
Minimum Air Clearance Required	2" On Sides, 2" At Back
<ul style="list-style-type: none"> - Performance is nominal and individual units may vary - Fridge performance will differ due to product amount, product size and operating conditions. - Continuous product enhancements may, without notice, result in amendments or omissions to this specification. - Drop Access cannot accept responsibility for damage, injury, loss of expenses resulting from misapplication of the information or misuse of the equipment. 	