

Precision
Refrigeration for
Healthcare.



Emvólio is a Portable active-cooling (battery-powered) device that will provide a platform for delivery of vaccines and all other biologicals like blood, serums, viral culture which require to be kept strictly between 2°C and 8°C for 12+ hours in the field. The product has been designed in accordance with WHO PQS E003 specifications and conforms to IEC 60601 standards.



LED and Buzzer Alerts



LCD Display for temperature indication



Active Cooling



Continuous Operation when plugged in



Portable and Lightweight



IP55 Rated - Dust & Water Resistance



Easy and fast charging



Adaptable to DRE (Solar) applications

Blackfrog technologies is an ISO 13485:2016, ISO 9001:2015 certified manufacturer of Medical Devices







Device Specifications (Emvólio Plus)

Product available in 3 variants with a backpack or rigid carrying handle

Adjustable internal chamber Temperature Range

Accuracy of maintained ±0.5°C

Temperature

Operating Time^[1] 15-20 Hours

Operating ambient^[2] -20°C to 65°C

Temperature

Operating Humidity Up to 100%

Initial cool down time^[3] < 20 minutes

Dimensions (L x B x H) 30cm x 20cm x 41cm

Weight Approx. 6 kg

Payload Capacity^[4] 1.55 l

Battery 390 Wh

Charging Time 5 Hours

IP Rating IP55

Device Life 10 Years



Stainless Steel 304 chamber for easy cleaning after use



IoT based online dashboard for remote monitoring and data-logging



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^{1] 12}h battery life at test condition of 43°C ambient temperature and 5°C chamber set temperature

^[2] Minimum temperature which can be attained at 65°C ambient temperature is 25°C

^[3] At an ambient temperature of 35°C

^[4] Total Chamber capacity is 1.8L