

Vaccine Carrier

Description

A **Vaccine Carrier** is a compact, insulated, and highly portable container used to **safely transport vaccines and biologicals** in field or outreach settings. These specific capacities — **0.90 L, 1.67 L, and 2.90 L** — are ideal for **short-duration immunization programs, veterinary fieldwork, and doorstep healthcare delivery**, where lightweight handling and cold-chain compliance are critical.

Specification

Parameter	0.90 L	1.67 L	2.90 L
Vaccine Storage Volume	~0.15–0.25 L	~0.4–0.6 L	~0.9–1.2 L
Ice Pack Capacity	2 × 0.4L (standard)	2–3 × 0.4L	4 × 0.4L
Cold Life (at 43°C)	12–16 hours	16–24 hours	24–36 hours
External Dimensions	Approx. 18 x 18 x 22 cm	Approx. 22 x 20 x 24 cm	Approx. 25 x 23 x 27 cm
Weight (empty)	~1.2 kg	~1.8 kg	~2.5 kg
Lid Type	Hinged with rubber gasket	Hinged with lock	Snap-fit with silicone seal
WHO PQS Certified	Optional in all sizes	Optional in all sizes	Available
Handle Type	Carry strap or fixed top handle for all sizes		

Size Applications

Size Use Case

0.90 L Single-day visits, small-scale outreach (1–2 vaccines)

1.67 L Community health campaigns, remote field delivery

2.90 L Veterinary immunizations, large household or outreach sessions

Types Available

- **Standard (Manual)** – With strap, no internal rack
- **Rack-fitted** – Fixed or removable vial rack
- **WHO PQS-Approved** – Cold chain compliance for global programs
- **Label-Ready** – For vaccine type/date tagging

Material

- **Outer:** High-Impact HDPE (shockproof, weather-resistant)
- **Insulation:** PU Foam (35–40 mm thick)
- **Gasket:** Silicone rubber for tight sealing

Category

- Cold Chain Transport
- Medical & Veterinary Vaccine Carriers
- Field Health Equipment

Product Form

- Compact, cuboid-shaped with hinged lid
- Inner compartment with optional vial holders
- Marked space for ice packs
- Shoulder strap or moulded handle for portability

Usage

- **0.90 L:** Mobile healthcare, quick-response vaccine drops
- **1.67 L:** Daily outreach camps, nurse or vet field rounds
- **2.90 L:** Larger community immunization and rural vet services

Advantages

- Compact and ultra-portable
- Durable and resistant to heat/splash
- Maintains 2°C to 8°C for up to 36 hours (2.90 L)
- Ideal for emergency kits and field mobility
- Customizable with labels, tracking tags, and inner racks

Disadvantages

- Limited storage space (only for short missions)
- Requires pre-conditioning of ice packs
- Temperature control limited to ambient conditions
- Not suitable for frozen vaccines or samples requiring -20°C

Precaution

- Use WHO-approved ice packs for reliable cold retention
- Minimize lid opening during use
- Monitor internal temperature using freeze indicators or data loggers
- Always disinfect after each use

HS / HSN Code

- **HS Code:** 9018.39
- **HSN Code (India):** 9018.39.00 – Vaccine carrier, insulated medical containers

Handling & Sterilization

- Wipe external body with mild soap and water
- Disinfect inner chamber with 70% alcohol or hypochlorite
- Air-dry thoroughly before storage
- Do not autoclave or expose to direct flame

Human and Veterinary Application

Veterinary Application

- Portable use in **rural livestock vaccination programs**
- Transport of **FMD, rabies, anthrax, PPR vaccines**
- Suitable for **on-field vaccine delivery in cattle, poultry, goats, and pets**
- **2.90 L model** ideal for full-day immunization runs in livestock health drives

Human Application

- Used in **national immunization campaigns** (measles, polio, tetanus, etc.)
- Suitable for **COVID-19 booster delivery in remote areas**
- Ideal for **doorstep child immunization & home care**
- Used by **PHC/CHC staff, nurses, and cold-chain assistants**

FAQ's (Frequently Asked Questions)

Q1: How long do these vaccine carriers keep vaccines cool?

A1: Between 12 to 36 hours depending on size — 0.90L (~12–16 hrs), 1.67L (~24 hrs), 2.90L (~36 hrs).

Q2: Are the carriers WHO certified?

A2: Select models, especially 1.67L and 2.90L, are available with WHO PQS certification.

Q3: Can I use gel packs instead of ice packs?

A3: Yes, but only **WHO-recommended cold packs** should be used for accurate performance.

Q4: Is 0.90L carrier sufficient for a full day of vaccines?

A4: Only for **very small quantity or limited-use scenarios** — otherwise, 1.67L or 2.90L is recommended.

Q5: Can I use this for animal and human vaccines both?

A5: Yes! These are multipurpose carriers suitable for **human immunization** and **veterinary vaccine field delivery**.