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Product Name :

Solar Direct-Drive Vaccine Refrigerator

Product Code :

SLE/CCE/01



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Description :

Solar Direct-Drive Vaccine Refrigerator (Product Code: SLE/CCE/01) is a solar direct drive (SDD) vaccine refrigerator used to keep vaccines cold at health posts and immunisation sites that run on solar power rather than mains electricity. It provides 50 litres of net vaccine storage with Grade A freeze protection and R600a refrigerant, and is delivered as a complete plug-and-play system with all necessary components and fittings. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Type	Complete stand-alone solar direct drive (SDD) refrigerator with all necessary components and fittings (plug and play)
Net vaccine storage volume	50 litres
Freeze protection	Grade A
Refrigerant	R600a
Ambient operating temperature	Min. +10°C, max. +43°C
Solar power system	Matched to the refrigerator's power consumption, climate and ambient temperatures, with a solar radiation reference of 3.5 kWh/m² per 24 hours
Manuals	User, installation and technician's manuals in English
Temperature range	+2 to +8 °C controlled vaccine zone
Monitoring	Continuous logger/alarm
Power	Solar direct drive (direct PV operation)
Product code	SLE/CCE/01
Manufacturer	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is an SDD Vaccine Refrigerator Used For?

Vaccines lose potency if they get too warm or freeze, so remote clinics without a reliable grid need a refrigerator that keeps working from sunlight alone. In a solar direct drive design the refrigerator is powered straight from its solar array, and SDD systems generally avoid the separate battery bank used by older solar fridges. With 50 litres of net storage, this model suits a smaller health post or an outreach store that holds a modest stock of vaccine.

Install the cabinet in a shaded, ventilated room whose temperature stays between +10°C and +43°C, mount the panels where nothing shades them, and keep the panels clean. A temperature logger inside the cabinet gives staff a daily record. Unlike a mains-powered laboratory refrigerator in Ind

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