

DATASHEET · COLD CHAIN & VACCINE STORAGE

# VTS-30 Vaccine Transport System — Portable Battery-Powered Medical Refrigerator/Freezer.

SKU CS-VTS-30 Spec v1 Rev. 2026-07-09

DATASHEET · P  
**CS-V1**  
 Rev 2026  
**PREVIEW — FIELDS F**



PRODUCT FAMILY  
 ANIMAL MODEL  
 APPLICATION  
 COUNTRY OF ORIGIN  
 MFG. STANDARD  
 LOT TRACEABLE **No**  
 VERIFIED **Spec v1 · 2026-07-09**

PRODUCT SPECIFICATIONS

FROM PUBLISHED PROD

PRODUCT TYPE	external	REFRIGERATION MODE	2°C to 8°C (programmable digital setpoint)
FREEZER MODE	-30°C to -10°C (setpoint -20°C)	TEMPERATURE ACCURACY	±0.5°C across all operating range
TEMPERATURE UNIFORMITY	±1°C via fan-forced air circulation throughout payload area	COOLING METHOD	Active compressor-based refrigeration
TEMPERATURE CONTROL	Microprocessor-based thermostat with high-precision digital thermistor	DEFROST	Automatic
AC INPUT	110–240V, 50–60 Hz (NEC standard)	DC INPUT	12V and 24V vehicle-compatible
POWER TRANSITION	Seamless switchover between AC, DC, and battery operation	BATTERY CHEMISTRY	Lithium Iron Phosphate (LiFePO <sub>4</sub> )
BATTERY VOLTAGE	24V nominal	BATTERY RUNTIME — REFRIGERATION	≥60 hours (full charge, 2–8°C mode)
BATTERY RUNTIME — FREEZER	≥12 hours (full charge, -20°C setpoint)	BATTERY CYCLE LIFE	>2,000 cycles to 80% capacity
BATTERY SHELF LIFE	≥2 years at delivery (<3% annual self-discharge)	BATTERY PROTECTION (BMS)	Overcharge, over-discharge, short circuit, over-temperature
BATTERY CERTIFICATION	UN38.3 (battery supplier certified)	DATA LOGGER MODEL	ConductScience DDL-51 (integrated)
LOGGER ACCURACY	±0.5°C	RECORDING CAPACITY	≥32,000 data points
RECORDING INTERVAL	Configurable (default: 5 minutes)	DATA OUTPUT	Auto-generated tamper-proof PDF USB; non-editable binary log

CALIBRATION STANDARD NIST-traceable, 5-point, ISO/IEC 17025-accredited laboratory

CALIBRATION POINTS +30°C, +20°C, +5°C, -20°C, -3 ±0.5°C tolerance

INTERNAL PAYLOAD 25-30 liters

SYSTEM WEIGHT <125 lbs (with battery module: t

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PREVIEW — FIELDS F

BILL OF MATERIALS · EXTENDED ATTRIBUTES

ITEM

VTS-30 Vaccine Transport System — Portable Battery-Powered Medical Refrigerator/Freezer

MATERIALS REFERENCE

0 MATERIAL

CODE	DESCRIPTION	PROPERTIES	USED IN
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Cross-reference.



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**CS-V1**  
Rev 2026-07-09  
**PREVIEW — FIELDS F**

OPERATING & STERILIZATION ENVELOPES

CONDITIONS, CYCLES, COM

**OPERATING**

TEMPERATURE

HUMIDITY

PRESSURE

**STORAGE**

TEMPERATURE

HUMIDITY

ORIENTATION

**STERILIZATION & CLEANING**

AUTOCLAVE

GAMMA

AVOID

ETO

WIPE

ANIMAL COMPATIBILITY

BY SPECIES

NOTES

USE & S

SPECIES	BODY WEIGHT	CHAMBER FIT
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Specifications verified against current published product data. Verified 2026-07-09 · Since 2026-07-09.

**Cite:** ConductScience CS-VTS-30, Spec v1, 2026-07-09. [conductscience.com/lab/vts-30-vaccine-transport-system](https://conductscience.com/lab/vts-30-vaccine-transport-system)

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