



# Cold Chain Price List

Polar Models RR-2, RR-1, and RR-50L

## Refrigerator or Freezer, Compression Type RR-50L

### RR-50L



50 liter chest-type refrigerator/freezer. The RR-50L is designed for the storage of vaccines and medical supplies. Its small internal volume of 50 liters helps save energy by limiting the amount of non-essential items that are sometimes placed in medical refrigerators. The RR-50L can be: 100% refrigerator, 100% freezer, or 50% refrigerator and 50% freezer. The divider separating the freezer and refrigerator compartments is non-removable and is an optional accessory. Outside dimensions are: 93 cm long, 66 cm wide and 62 cm high. Inside dimensions are: 56 cm x 36 cm at the top, tapering down to 42 cm x 34 cm at the bottom, 35.5 cm deep. The approximate thickness of the polyurethane insulation is 13 cm on the lid, 15 cm on the sides and bottom. Weight is 38.5 Kg. With export packing, approximate dimensions are 69 cm high, 74 cm wide and 102 cm long. Weight is 57 Kg. Charge controller is standard equipment.

*Meets WHO performance requirements, no exceptions*

**Price in U.S. Dollars, FOB Bellingham, Washington.**

RR-50L Refrigerator Only:	1 Unit	USD 1,830
(PV Array & Battery Not Included)	2-9 Units	USD 1,480
Option Wood Crate Packing:		US\$55/Unit

<u>MODEL RR-50L</u>	<b>System B:</b>	<b>System C:</b>
<b>PHOTOVOLTAIC PANELS:</b>	225 pw. 3 qty Siemens Model SP75 modules	150 pw. 2 qty Siemens Model SP75 modules
<b>OVERALL VOLUME:</b>	Approx. 3 Cubic Meters	Approx. 3 Cubic Meters
<b>OVERALL WEIGHT:</b>	Approx. 250 Kgs.	Approx. 250 Kgs.
<b>SOLAR INSOLATION AT SITE</b>	3.4 - 4.7 kWh/m <sup>2</sup> /day	5.8 - 7.0 kWh/m <sup>2</sup> /day
<b>DAYS NO SUN SECURITY</b>	8	5
<b>PRICES OF COMPLETE SYSTEMS IN US\$</b>	\$4,655 <b>FOB Los Angeles.</b>	\$4,245 <b>FOB Los Angeles.</b>
<b>Optional Wood Crate</b>	\$275/System	\$275/System
<b>COMMENTS:</b> The RR-50L can be ordered as a 100% refrigerator or 100% freezer		

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SIZE	REFRIGERATOR	FREEZER
<b>Manufacturers Gross Volume</b>		
<b>Vaccine Storage Capacity</b>		
<b>External dimensions</b>	H x W x L , 93 X 66 X 62 cm	
<b>Shipping Volume/Gross Weight</b>	0.53 m3 / 57 kgs ( 68 kgs for wooden crate )	

PERFORMANCE		32DEGC	43DEGC
<b>Icepack Freezing, kgs. Per / no. hours...</b>	with Vaccine	2.3 / 24 kg / hrs	5.2 / 24 kg / hrs
	without Vaccine		
<b>Internal Temperature,</b>	Minimum	+1.3 DegC	-0.3 DegC
	Maximum	+5.5 DegC	+4.9 Degc
<b>Holdover Time During Power Cut</b>		5.7 hrs	4.8 hrs
<b>Power Consumption per 24 Hours...</b>	Electricity	0.3 Kwh	0.7 Kwh
	Kerosene	** Lts	** Lts
	LP Gas	** Kgs	** Kgs
<b>Minimum -1.1 C and Maximum</b>	+7.7 C recorded during day/night (43/15C) tests		

ENERGY REQUIREMENTS:	Energy Sources	12 vDC	

SPARES NEEDED / 10 UNITS	PART NO.		\$US/EACH
<b>Motor Controller, Danfoss</b>	E-0100		\$120.00
<b>Thermostat Danfoss BK-2</b>	T-8612-1		\$115.00
<b>Brushless Fan Motor</b>	E-0150		\$45.00

**Additional Options for Models RR-50L**

Prices in U.S. Dollars, FOB Bellingham, Washington. Standard cotton-box packing is acceptable for most export conditions. Custom documentation and handling for export: \$100.00

**Payment terms:** Confirmed Letter of Credit, irrevocable, payable at sight, all charges for the account of the buyer. On smaller orders, cashier's check or bank draft preferred, whenever possible.

Charge for negotiating Letters of Credit under \$20,000: \$75.00 (No charge for Letters of Credit over \$20,000.)

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