SunDanzer DC-Powered Refrigeration

DC Refrigerators and Freezers

Energy Efficient Refrigeration

Save on costs with ***SunDanzer***® DC refrigerators and freezers. These high efficiency refrigerators and freezers have exceptionally low energy consumption requiring smaller, less expensive power systems and low operating expense.

High quality construction provides excellent reliability and long life. Super-insulated cabinets feature 11cm of polyurethane insulation with powdered-coated galvanized steel exterior and aluminum interior. A zero-maintenance, brushless, thermostatically controlled DC compressor operates on 12 or 24 VDC. A patented low-frost system reduces frost and moisture build-up for low maintenance. These chest-style refrigerators and freezers are easy to clean using the drain hole at the bottom of the unit.

With thick insulation and a refrigeration system optimized for solar, SunDanzer refrigerators and freezers provide outstanding economical and reliable operation.

Low energy consumption is the key that allows SunDanzer refrigerators and freezers to be cost effectively powered from solar, wind, fuel cells or batteries. This technology allows refrigeration in remote locations where it was previously unavailable or prohibitively expensive.

Applications:

Remote Homes	Cabins
Unreliable Grid	Eco-Resorts
Micro-enterprises	Farms
Boats and Marine	Medical Clinics
Beverage Vending	Missionaries
Remote Stores	Disaster Preparedness
Ice Making	Mobile Vendors

SunDanzer units are manufactured in a highly automated factory by one of the world's leading appliance manufacturers to SunDanzer's stringent standards for quality and efficiency.

Features:

- Refrigerators run on a single 50-100W module in most climates!
- 12 or 24 VDC with low voltage
- Dual AC/DC option available on some models
- Disconnect for battery protection
- Environmentally friendly CFC- free refrigerant (R-134a)
- Rugged scratch resistant galvanized steel exterior
- Easy to clean aluminum interior
- Interior light
- Patented low-frost system
- Automatic control with adjustable thermostat
- Baskets for food organization

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Energy Consumption

Daily Energy Consumption - Standard Test Conditions* 12VDC				
Model	**Type**	**21.1°C (70°F)**	**32.2°C (90°F)**	**43.3°C (110°F)**
DCR50	**Refrigerator**	53W-h / 4.4A-h	114W-h / 9.6AH	235W-h / 20A-h
DCF50	**Freezer**	172W-h / 14A-h	280W-h / 25A-h	486W-h / 41A-h
DCR165	**Refrigerator**	77W-h / 6.5A-h	168W-h / 14A-h	348W-h / 29A-h
DCF165	**Freezer**	272W-h / 23A-h	441W-h / 37A-h	766W-h / 64A-h
DCR225	**Refrigerator**	90W-h / 7.5A-h	198W-h / 17A-h	393W-h / 33A-h
DCF225	**Freezer**	360W-h / 30A-h	532W-h / 44A-h	817W-h / 68A-h
DCF390	**Freezer**	541W-h / 45A-h	800 W-h / 67A-h	1.23kW-h / 103A-h

*Standard Test Conditions: No door openings, no food insertion, refrigerator 3°C (38°F), freezer -12°C (+10°F). Add 25% to 50% for real world residential use patterns. W-h = Watt Hours per day, A-h = Amp hours per day at 12V

Physical & Electrical Specifications

Input Voltage	10-31VDC		**Refrigerator Range**	-1 to 9°C (30 to 48°F)
Power (typical-max)	40 – 80 W		**Freezer Range:**	-18 to -5°C (0 to 23°F)
Fuse Size:	15A @ 12V 7.5A @ 24V		**Ambient Range:**	10 to 43°C (50 to 110°F)

Capacity and Shipping Information

Model	Gross Capacity	External Dimensions W x D x H	Shipping Dimensions W x D x H	Shipping Weight	Container Qty 20'/40'
DCR/F50	50L 1.8 c.f.	67.3 x 58.4 x 77.5 cm 26.5 x 23 x 30.5 in	70 x 76 x 92.7 cm 27.5 x 24.5 x 36.5 in	34 kg 75 lbs	54/114
DCR/F165	165L 5.8 c.f.	93.5 x 66.5 x 87.6 cm 36.8 x 26.2 x 34.5 in	102 x 76 x 94 cm 40 x 30 x 37 in	54.4 kg 120 lbs	36/72
DCRF225	225L 8.1 c.f.	119 x 66.5 x 87.6 cm 46.9 x 26.2 x 34.5 in	127 x 76 x 94 cm 50 x 30 x 38 in	63.5 kg 140 lbs	28/56
DCF390	390L 13.7 c.f.	161 x 73 x 87 cm 63.4 x 28.7 x 34.3 in	169 x 79 x 93 cm 66.5 x 31.1 x 36.6 in	107 kg 235 lbs	21/42

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