

## Off-Grid DC Powered Air Cooling

Save on total off-grid system cost with **SunDanzer<sup>™</sup>** DC Air Coolers. These ultra high efficiency air coolers have exceptionally low energy consumption requiring smaller, less expensive power systems and low operating expense.

High quality construction provides excellent reliability and long life.. A zero maintenance, brushless, microprocessor controlled DC motor-compressor operates on a wide variety of DC voltages, including direct connection to a PV array without batteries.

With variable speed compressor and state of the art heat exchangers, SunDanzer Air Cooling Systems provide outstanding economical and reliable operation.

The Battery-Free (PV Direct) model, developed by NASA and licensed to SunDanzer, utilizes patented refrigeration technology in its design to optimize the refrigeration cycle and achieve ultra low energy consumption.

Low energy consumption and very soft starting are the keys allowing SunDanzer Air Cooling to be cost effectively powered from solar, wind, fuel cells or batteries. This technology affords air cooling in remote locations where it was previously unavailable or prohibitively expensive.

Automatic, hybrid operation with AC generator mitigates fuel use and lowers maintenance costs.

Fully instrumented with high and low pressure sensors and LCD user interface for diagnostics and repair.

### Off-Grid Applications;

Air conditioning ♦ Cool Storage ♦ Vaccine Storage ♦ Electronics Cooling ♦ Remote homes ♦ Tent cooling ♦ Village stores ♦ Schools ♦ Medical Clinics ♦ Eco-resorts ♦ shops ♦ food storage ♦

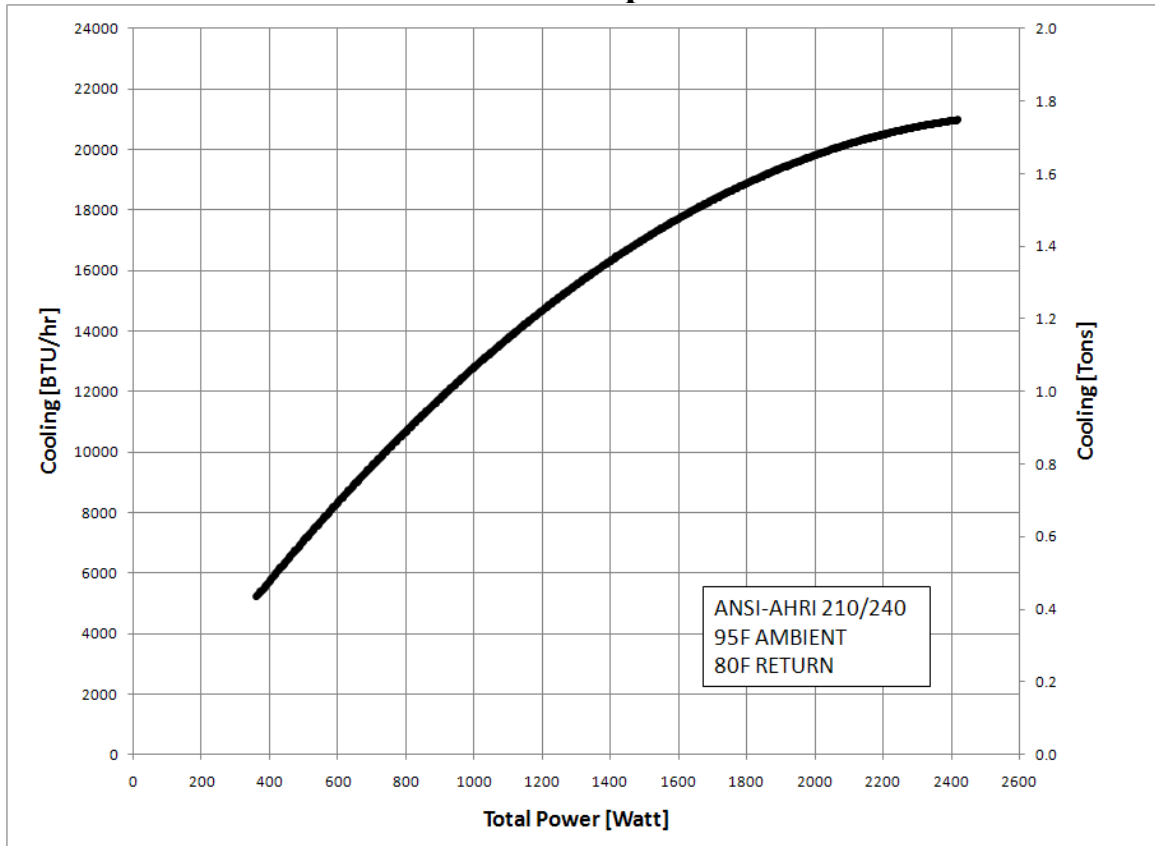


*Shown above with duct interface for military shelters. SunDanzer<sup>™</sup> Air Coolers are manufactured in the USA to SunDanzer's stringent standards for quality and efficiency.*

### Features:

- **300 or 150 VDC direct from PV array, battery free, operation**
- **48 VDC battery operated option**
- **120-240 VAC 50-60 Hz adapter available**
- **Minimize generator use with hybrid AC PV Direct simultaneous operation**
- **Environmentally friendly CFC- free refrigerant (R-134a)**
- **Rugged aluminum chassis for salt spray environment in custom colors.**
- **Easy to clean air filter**
- **Dehumidification mode**
- **Fresh air introduction port**
- **12V, 1 amp and optional 26V 10 amp outlet for auxiliary battery charging**
- **Reverse polarity protection**
- **Lightning arrestor protection**
- **Compressor sump heater**
- **Very quiet operation**
- **150 °F ambient operation**
- **Four person carry with handles**
- **Circular duct interface for military shelter available**

## Performance Specifications



### Physical & Electrical Specifications:

PV Input Voltage	600-120 VDC (300Vmpp)	Ambient temperature range;	-25°F-150°F
	450-60 VDC (150Vmpp)	39.4W x 29.5H x 21.5D inches	175lbs
Battery Power	45-59 VDC	Electrical protection	IP54
AC-DC Power Supply	120-375 VDC	Maximum cooled air flow rate	1000 CFM
Power (minimum)	250 watts (1.1 ton unit)	Minimum evaporator temperature	-14 °F
Power (max)	2500 watt (1.7 ton unit)		
Current (max)	50 amp (48V battery mode)		

<u>Retail Price</u>	<u>Part No.</u>	<u>Description</u>	<u>Capacity</u>	<u>Shipping Dimensions</u>	<u>Shipping Weight</u>
\$ 13595	DCAC.21.30	PVD 300V 2400 W	1.7 ton	48W x 24D x 38H in	195 lbs
\$ 13570	DCAC.14.15	PVD 150V 1100 W	1.1 ton	48W x 24D x 38H in	195 lbs
\$ 13695	DCAC.21.48	Battery 48V 2400 W	1.7 ton	48W x 24D x 38H in	195 lbs
\$ 1599	ADPTR.DCA	Internal AC-DC	2400 Watt		15 lbs
\$465	CRGR.DCAC	24V battery charger	250 Watt	Installed at factory	
\$575	RMT.DCAC	Remote LCD controller			
\$2525	DUCT.DCAC	Circular Duct Adapter	18" diam	48W x 48D x 40H in	73 lbs

Prices subject to change. Prices do not include PV system