

SELF-CONTAINED COMFORT SERIES



The DC Comfort T Series Climate Control Unit is controlled by a thermostat that senses the internal enclosure temperature. When cooling is desired, the compressor, evaporator blower and condenser fan turn on. Cool air is discharged from the DC Comfort T Series into the enclosure. When two DC Comfort T Series Climate Control Units are used on the same cabinet, the optional lead lag controller provides temperature control of the redundant units and equal run time on both units. The system can also be configured to shut off when used in enclosures with a fire or smoke alarm system. Please refer to the Operation & Maintenance Manual for details. Electric DC heat is optional.



Optimized battery management is included in every DC Comfort T Series system. The control board on the system monitors battery consumption and protects the components from over temperature through a low voltage disconnect.



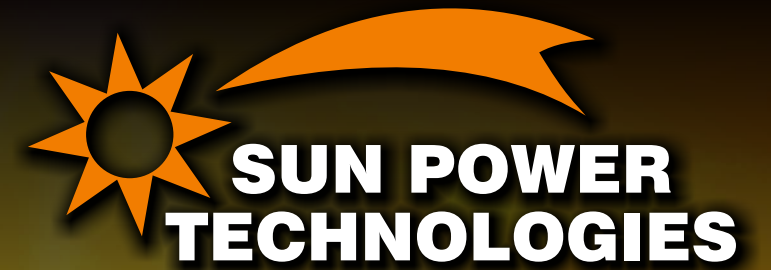
Sun Power Technology offers a wide range of grid tie, on grid and off grid battery and charge input systems to compliment the DC Comfort T Series system. Please contact your Sun Power Representative to which system configuration best fits your application.



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**SELF-CONTAINED
COMFORT SERIES**



DC6000T
DC8600T
DC11000T
DC17000T



www.SunPowerTech.com

Standard Features

Designed for operation down to 0°F (-18°C)

- Low ambient control cycles condenser fan to maintain proper refrigerant pressures.
- Electric heat is optional.
- Timed low pressure bypass for low ambient start-up.

Built-in Reliability

- High and low pressure switches with lockout relay protect refrigerant circuit.
- High pressure switch with lockout relay and frost sensor protect refrigerant circuit.
- Compressor time delay prevents rapid cycling of the compressor.

CLOSED-LOOP COOLING: The enclosure interior airflow system is isolated from the ambient airflow system. Ambient air cannot invade the cool, dehumidified sensitive component compartment.

BRUSHLESS DC MOTORS: All fan motors are UL/CSA Recognized and include automatic-reset thermal overload protection and double-sealed or double-shielded precision ball bearings. Special permanent lubricants in the tube axial fans perform over a broad temperature range: -20°F [-28.9°C] to 250°F [121.1°C].

RUGGED CONSTRUCTION: Precision-engineered heavy gauge steel construction of all shells and blowers insures Air Conditioners will stand up under tough applications.

TEXTURED BAKED POWDER FINISH: Durable, baked-on textured beige powder nish is standard. Other finishes are available.

POWER: DC 24 or 48 Volt

REFRIGERANT: Ozone Friendly R134

FILTERS: Reusable/Washable

LOW AMBIENT KIT: Maintains sufficient operating pressures when ambient temperatures drop below 50°F [10°C]. Includes a compressor heater and pressure actuated condenser blower cycling control.

LOW TEMPERATURE CONTROL: Thermostatic Low Temperature Control prevents over-cooling and provides energy-efficient operation.

Ease of Installation

- Factory installed disconnect.
- Can be installed on either side of splice chamber.
- Built-in mounting holes.

Vandal Resistant

- All mounting holes are inside the ECU.
- Powder coated finish for long term durability

Remote Alarm Capability

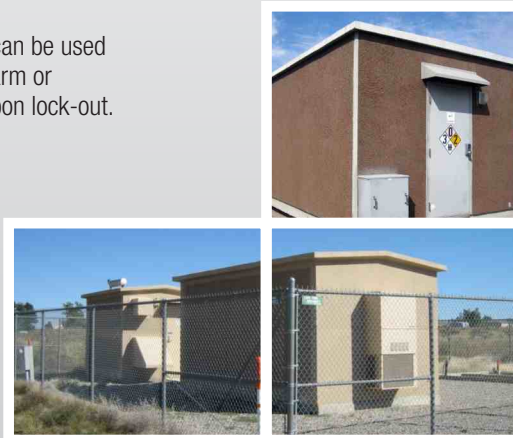
- Dry contacts can be used for remote alarm or notification upon lock-out.

Rugged Construction

- Copper tube, aluminum fin evaporator and condenser coils.
- High efficiency compressor.
- Baked on neutral tan finish.
- Decorative coil guard.

Ease of Service

- Simple access to all components.



CRANKCASE COMPRESSOR HEATER: Optional

HEAD PRESSURE CONTROL SWITCH: A control device to minimize compressor cycling and prevent evaporator coil icing.

POWER CORD: Included to customer spec.

INSULATION: All cold components, lines and the evaporator compartment are insulated with high-performance insulation for maximum efficiency.

GASKETING: All units are fully gasketed for tight, leak proof installation, in compliance with the NEMA 3R Enclosure Rating.

QUALITY ASSURANCE: Refrigeration system components are kept sealed until charged with refrigerant; all brazed joints are thoroughly leak-tested; each unit is functionally tested before shipment.

INSTALLATION: Detailed Installation and Operator's Manual, with drawings, mounting plan and spare parts list is included with each unit.

UL/CUL RECOGNIZED: All DC Comfort T series models utilize UL/EUL recognized components. All models are available as Listed at added cost.

The DC Comfort T Series is designed for the telecommunication enclosure for both on and off grid applications. The system can be configured with solar, wind, hydro or grid tie input power options. The heart of the DC Comfort T Series is the hermetically sealed brushless DC compressor (BLDC). This component allows the system to perform very efficiently while delivering maximum cooling capacity and minimal current draw. The system is 100% DC powered, eliminating the need for an inverter.

Thermostat controls are standard with the DC Comfort T Series, but the system can also be configured to operate with a lead lag controller when redundancy is required.

Component	DC 6000 T	DC 8600 T	DC 11000 T	DC 17000 T
Self Contained	22"W x 13"D x 42"H	22"W x 13"D x 42"H	22"W x 13"D x 42"H	22"W x 13"D x 42"H
Weight	130 LBS	133 LBS	134 LBS	141 LBS
20'/40' Container Quantity	60/120	60/120	60/120	60/120
Capacity	6000 BTU	8600 BTU	11,000 BTU	17,000 BTU
Voltage	24 Volt DC	24/48 Volt DC	48 Volt DC	48 Volt DC

Specifications subject to change without notice / Contact Sun Power Technologies for special requests

DC Comfort Series Detailed Specifications

Specification	DC6000T	DC8600T
Cooling Capacity	1850 Watts - 6000 BTU	2650 Watts - 8600 BTU
Power Consumption	580 watts @ 100% Duty Cycle	740 Watts @ 100% Duty Cycle
Size Inches	13Lx22Wx42H	13Lx22Wx42H
Size mm	350Lx700W1065H	350Lx700W1065H
Weight	130 / 59	133 / 60
Low Voltage Protection	24 Volt - 21.6 volt	48 Volt - 43.1 volt
Restart Voltage	24 Volt - 25.2 volts	48 Volt - 51.5 volts
Pressure Protection	High / Low	High / Low
Internal Shutdown	High Motor Temp	High Motor Temp
Refrigerant	R134A	R134A
Manufactured	USA	USA

Specification	DC11000T	DC17000T
Cooling Capacity	3400 watts - 11000 BTU	5300 watts - 17000 BTU
Power Consumption	880 watts @ 100% Duty Cycle	1400 Watts @ 100% Duty Cycle
Size Inches	13Lx22Wx42H	13Lx22Wx42H
Size mm	350Lx700W1065H	350Lx700W1065H
Weight	134 / 61	141 / 64
Low Voltage Protection	48 Volt - 43.1 volt	48 Volt - 43.1 volt
Restart Voltage	48 Volt - 51.5 volts	48 Volt - 51.5 volts
Pressure Protection	High / Low	High / Low
Internal Shutdown	High Motor Temp	High Motor Temp
Refrigerant	R134A	R134A
Manufactured	USA	USA



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System Specifications



Capacity

DC Comfort 6000T: 6,000 BTU/HR Cooling Only*
 DC Comfort 8600T: 8,600 BTU/HR Cooling Only*
 DC Comfort 11000T: 11,000 BTU/HR Cooling Only**
 DC Comfort 17000T: 17,000 BTU/HR Cooling Only**
 Rated @ full capacity to 120F ambient



Electrical

*24 or 48 Volt DC Configurations
 120/240 Volt AC Option

**48, 100, 150, 300, 350 Volt DC Configurations



Description

Self-contained design utilizing hermetically sealed compressor and R134A refrigerant.



Custom Solutions Available!



Contact Sun Power Technology for Special Requests.