

## DANTHERM CC3000 COOLING CONTROLLER FOR TELECOM



The Dantherm CC3000 Cooling Controller for Telecom is designed for control and monitoring of free cooling systems.

The controller has connections for up to two free cooling units, e.g. Flexibox Free Cooling 900 series and DFC products, with or without motorized dampers. Additional to controlling two free cooling units, the CC3000 can control a heater unit and two air conditioners.

CC3000 includes graphic user interface (GUI) and WEB interface, WEB GUI and SNMP for access via any standard browser. The Dantherm CC3000 optimizes cooling performance with lowest possible energy consumption.

## FEATURES AND BENEFITS

### Benefits of Dantherm CC3000 Cooling Controller

- Operational security: Configuration parameters stored in On-board, non-volatile memory
- Access via standard browser: WEB GUI for remote monitoring, configuration, data collection, change of operational mode, firmware upgrades, backup and restore.
- Ready for remote control: Configurable digital input/outputs supporting remote monitoring/control Ethernet SNMP
- Intelligent monitoring: Built-in SD card reader
- Easy configuration and logging: On-board 2,4 inch TFT colour display
- Clear, user-friendly display: On/off and capacity-regulated control of fans/compressor
- Flexible operation: 85-265V AC (ext. AC/DC converter)
- Wide operating supply voltage: On display
- Quick change of temp. set point: Requires battery
- Real-time clock/calendar

### Connections

- Connection for analogue pressure sensor (filter monitoring)
- Connection for analogue humidity sensor (operational mode change)
- Connection and capacity control for two free cooling units
- Euro type spring loaded pluggable connectors
- Galvanically insulated alarm output (insulation voltage: 500V).
- TTL Link serial connection for TTL/USB cable for laptop

### Optional features

- SD card
- Serial TTL/USB adapter.(Standard adapter for use with standard terminal PC software)
- Humidity sensor
- Pressure sensor



**TECHNICAL SPECIFICATIONS**  
**DANTHERM CC3000 COOLING CONTROLLER**

<b>Product overview</b>		<b>Category</b>	<b>Details</b>
Dantherm CC3000 Cooling Controller for Telecom		Wall-mounted	091210
<b>Specifications</b>			
Operational temperature range, min./max.	°C	-45 to +85	
Dimensions, controller box (height×width×depth)	mm	200 x 215 x 90	
Display	in	2.4 TFT colour w. back light	
<b>Input</b>			
DC supply voltage range	40-60 V		
Digital 1, 2, 3	Pull up to 12V. For use with dry contact		
Room/hotspot sensor	-30 to 85°C NTC type NTCLE100E3272GB0		
Humidity sensor	I2C		
Pressure sensor	I2C		
<b>Output</b>			
AC 1, 2	0/24V DC 200mA or dry contact		
FB 1, 2	8-way multi cable		
Heater 24V DC AUX	0/24V DC 200mA or dry contact		
Alarm 1-10	Dry contact		
Damper 1, 2	0/24V DC 200mA		
<b>Communication</b>			
Opto-insulated TTL	+, -, TX, RX	AMP - 281698-6	
Ethernet	RJ 45	w. shield	
<b>Memory</b>			
Onboard EEprom	1K non volatile	Storage of operating parameters.	
Mass storage device	<32 GB SD Flash	For logging and change of parameters	
<b>Certifications</b>			
EN 60950-1			
EN 61000-6-2:2005			
EN 61000-6-3:2007			