CUSTOMISED SOLUTIONS FOR THE TELECOMS INDUSTRY

PROVIDING RELIABLE, ENERGY-EFFICIENT HEAT REMOVAL FROM SHELTERS, CABINETS, ENCLOSURES AND ROOMS CONTAINING TEMPERATURE-SENSITIVE ELECTRONIC AND TELECOMMUNICATIONS EQUIPMENT.

Puravent

ELECTRONICS COOLING
TELECOMS FREE COOLING

FLEXIBOX 460

Features

- Extremely energy-efficient – savings in all types of climates
- Total heat management – control of multiple external units
- Stable operation – step-less fan speed control
- Clean internal environment – overpressure system
- Extended air path protection – Dantherm AirMaze
- Flexible installation – outdoor only
- Low maintenance costs – washable compact filter
- Maximum security – remote monitoring and configuration

Controller

- Dantherm CC4 – 48V DC controller, integrated in the unit
- Control of external air-conditioning unit(s)
- Control of external heater
- Control of motorised damper(s)
- Communication port RS 485, Modbus protocol
- Filter monitor

Applications

- Radio base stations
- Telecom shelters
- Electronics enclosures
- Power supply rooms
- Network and computer rooms
- Drive stations
- Automation control cabinets
- Hybrid Telecom sites
- DC powered sites

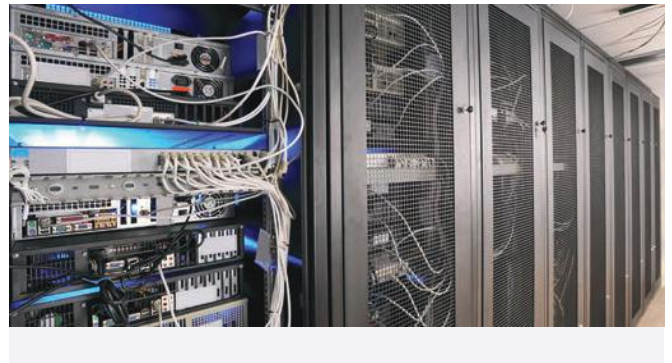| Specifications	Units	48V DC (EC fan)
Nominal air flow	m³/h	1334
Nominal cooling capacity in W/K (Δt = 1°C)	W/K	400
Nominal fan power consumption (at 80% fan speed)	W	63
Sound level @ 1m	dB(A)	54
Fan nominal voltage	DC	48V DC (42-57V DC)
Maximum air flow	m³/h	1488
Maximum cooling capacity	W/K	466
Maximum current	A	2.0
Maximum power consumption	W	93
Product size (h x w x d)	mm	758 x 455 x 500
Weight	kg	24

ELECTRONICS COOLING
TELECOMS FREE COOLING

FLEXIBOX 810 INDOOR

FLEXIBOX 810 OUTDOOR

Features

- Extremely energy-efficient – savings in all types of climates
- Total heat management – control of multiple external units
- Stable operation – step-less fan speed control
- Clean internal environment – overpressure system
- Extended air path protection – Dantherm AirMaze
- Flexible installation – both indoor and outdoor
- Low maintenance costs – washable compact filter
- Maximum security – remote monitoring and configuration

Controller

- Dantherm CC4 – 48V DC controller, integrated in the unit
- Control of external air-conditioning unit(s)
- Control of external heater
- Control of motorised damper(s)
- Communication port RS 485, Modbus protocol
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Applications

- Radio base stations
- Telecom shelters
- Electronics enclosures
- Power supply rooms
- Network and computer rooms
- Drive stations
- Automation control cabinets
- Hybrid Telecom sites
- DC powered sites

Specifications	Units	FLEXIBOX 810 INDOOR 48V DC (EC fan)	FLEXIBOX 810 48V DC (EC fan)
Nominal air flow	m³/h	2052	2052
Nominal cooling capacity in W/K (Δt = 1°C)	W/K	697	697
Nominal fan power consumption (at 80% fan speed)	W	222	222
Sound level @ 1m	dB(A)	62	62
Fan nominal voltage	DC	48V DC (42-57V DC)	48V DC (42-57V DC)
Maximum air flow	m³/h	2333	2333
Maximum cooling capacity	W/K	782	782
Maximum current	A	6.1	6.1
Maximum power consumption	W	329	329
Product size (h x w x d)	mm	600 x 455 x 490	758 x 503 x 500
Weight	kg	25	25.5

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ELECTRONICS COOLING
TELECOMS FREE COOLING

FLEXIBOX 900 INDOOR

FLEXIBOX 900 OUTDOOR

CC 3000

Features

- Extremely energy-efficient – savings in all types of climates
- Total heat management – control of multiple external units
- Stable operation – step-less fan speed control
- Clean internal environment – overpressure system
- Extended air path protection – Dantherm AirMaze
- Flexible installation – both indoor and outdoor
- Low maintenance costs – washable compact filter
- Maximum security – remote monitoring and configuration

Controller

- Dantherm CC 3000 48V/230V – Dantherm developed, wall mounted
- Flexible configuration – live monitoring and configuration on any standard browser
- Energy-saving strategy – max. use of controlled ventilation
- Intelligent climate control – automated change of cooling mode
- Stable operation – step-less fan speed control
- User-friendly configuration – built-in SD card reader and digital colour display
- Service minimization – digital filter status detector
- Strategy evaluation/planning – complete data logging
- Communication: MODbus TCP/IP

Applications

- Radio base stations
- Telecom shelters
- Electronics enclosures
- Power supply rooms
- Network and computer rooms
- Drive stations
- Automation control cabinets
- Hybrid Telecom sites
- DC powered sites

Specifications	Units	FB900-48V-G4	FB900-230V-G4
Operating temperature range	°C	-25 - +55	-25 - +55
Cooling capacity @ 25°C at Δt=10°C, 50/80%	W	4950/7210	5370/8340
Maximum cooling capacity at 25°C ambient, Δt=10°C, 100%	W	8140	8610
Sound level 50/80% @ 3m	dB(A)	47/56	49/59
Input voltage range	VDC	48V DC (42-57V DC)	230V AC (200-277)
Maximum air flow	m³/h	2450	2590
Power consumption 50/80/100%	W	78/239/366	71/284/400
Product size (h x w x d)	mm	790 x 530 x 530	790 x 530 x 530
Weight	kg	25	25

HIGH-CAPACITY FREE COOLING

TKS 60

Controller

- Dantherm CC 3000 48V/230V – Dantherm developed, wall mounted
- Flexible configuration – live monitoring and configuration on any standard browser
- Energy-saving strategy – max. use of controlled ventilation
- Intelligent climate control – automated change of cooling mode
- Stable operation – step-less fan speed control
- User-friendly configuration – built-in SD card reader and digital colour display
- Service minimization – digital filter status detector
- Strategy evaluation/planning – complete data logging
- Communication: MODbus TCP/IP

Features

- Total heat management – designed for energy-efficiency with maximum use of controlled ventilation
- Ensure energy-efficient cooling strategy – automatic change between cooling modes
- Protect your equipment – standard M5 fine bag filter and optional AirMaze
- Avoid unscheduled service visits – plan service with built-in filter monitor
- Wide geographical usage – ambient temperature operating range from -40 to 55°C
- Stay in control from your laptop – remote monitoring

Applications

- Radio base stations
- Telecom shelters
- Power supply rooms
- Network and computer rooms
- Drive stations
- DC powered sites

Specifications	Units	230V AC (EC fan)		48V DC (EC fan)
Model		A	B	C
Nominal air flow	m³/h	3700	4200	3200
Nominal cooling capacity in W/K (Δt = 1°C)	W/K	1230	1400	1050
Nominal fan power consumption (at 100% fan speed)	W	529	782	374
Sound level @ 1m	dB(A)	64	67	64
Fan nominal voltage	V	230V AC	230V AC	48V DC (42-57V DC)
Maximum current	A	2.2	3.4	7.8
Product size (h x w x d)	mm	1100 x 600 x 600	1100 x 600 x 600	1100 x 600 x 600
Weight	kg	51	53	50

TO COOL

# ELECTRONICS COOLING
DISPLACEMENT FREE COOLING

DFC 350
DFC 450

Controller

- Dantherm CC 3000 48V/230V – Dantherm developed, wall mounted
- Flexible configuration – live monitoring and configuration on any standard browser
- Energy-saving strategy – max. use of controlled ventilation
- Intelligent climate control – automated change of cooling mode
- Stable operation – step-less fan speed control
- User-friendly configuration – built-in SD card reader and digital colour display
- Service minimization – digital filter status detector
- Strategy evaluation/planning – complete data logging
- Communication: MODbus TCP/IP

Optional accessories

- AirMaze for DFC 350
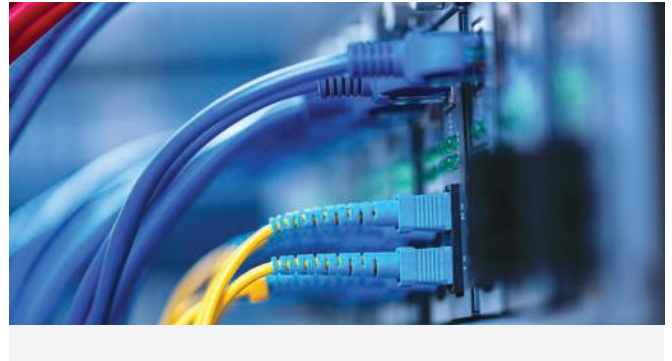
Features

- Stay in control: total heat management with control of several external units
- Ensure energy-efficient cooling strategy – automatic change between cooling modes
- Protect your equipment – F5 displacement bag filter keeps your rooms clean
- Avoid unscheduled service visits – plan service with built-in filter monitor
- Wide geographical usage – ambient temperature operating range from -40 to 55°C
- Silent and energy-efficient – very low air flow and fan speed

Applications

- Radio base stations
- Telecom shelters
- Electronics enclosures
- Power supply rooms
- Network and computer rooms
- Automation control cabinets
- DC powered sites

Specifications	Units	DFC 350 48V DC (DC fan)	DFC 350 230V AC(EC fan)
Maximum air flow	m³/h	514	514
Max. cooling capacity	W/K	600	600
Cooling capacity up to 1.6m above floor at t=5°C	kW	3	3
Fan max. current	A	2.3	0.9
Max. power consumption	W	40	35
Sound level @ 5m	dB(A)	36	34
Product size (h x w x d)	mm	1982 x 385 x 166	1982 x 385 x 166
Weight	kg	10	10

Specifications	Units	DFC 450 48V DC (DC fan)	DFC 450 230V AC(EC fan)
Maximum air flow	m³/h	1100	1100
Max. cooling capacity	W/K	1000	1000
Cooling capacity up to 1.6m above floor at t=5°C	kW	5	5
Fan max. current	A	2.5	1.1
Max. power consumption	W	40	61
Sound level @ 5m	dB(A)	41	41
Product size (h x w x d)	mm	2096 x 486 x 238	2096 x 486 x 238
Weight	kg	13	13

ELECTRONICS COOLING
COMBO COOLING

6000/900

Features

- Energy-efficient cooling systems
- Total heat management with free cooling, active cooling and heating
- Easy installation in indoor and outdoor shelters and enclosures
- Protection against dust, water, sand, leaves and snow
- Emergency cooling mode in case of power outage
- Digital controller for full thermal management and surveillance and changeable settings

Controller

- Built-in microprocessor controller – Dantherm CC4
- Changeable settings of e.g. cooling set point, heating, installed with high-temperature alarm, filter guard pressure etc
- Two galvanically insulated alarm outputs for warning, fault, high/low temperature, filter, fan failure, door switch or fire/smoke
- Digital input for smoke/fire alarm, door switch and one additional
- Data logging and change of control parameters via SD Card

Applications

- Radio base stations
- Telecom shelters
- Electronics enclosures
- Power supply rooms
- Network and computer rooms and drive stations

Specifications	Units	6000/900
Operational temperature range	°C	-33 - +55
Storage temperature @ 55% RH	°C	-40 - +80
Sound level @ 1.5m	dB(A)	59
Refrigerant		R410a
Free cooling capacity (48VDC) Δt = 10°C	W	9000
EER free cooling at Δt = 10°C	W/W – BTU/W	23-76
Cooling capacity at 27°C internal/35°C ambient (total)	W	8300
Cooling capacity 27°C internal/35°C ambient (sensible)	W	7115
EER air-conditioning at 35°C internal/35°C ambient	W/W	3.7
Internal air flow by air-conditioning	m³/h	1840
Free cooling air flow	m³/h	800-3200
Power consumption free cooling	W	572 (DC)
Power consumption air-conditioning	W	2245 (AC)
Input voltage range	VAC	190-235
Input voltage range	VDC	40 -60
Power supply	V/Hz	230/1ph/48VDC
Product size (h x w x d)	mm	1999 x 1072 x 527
Weight	kg	183

ELECTRONICS COOLING
DC AIR-CONDITIONING
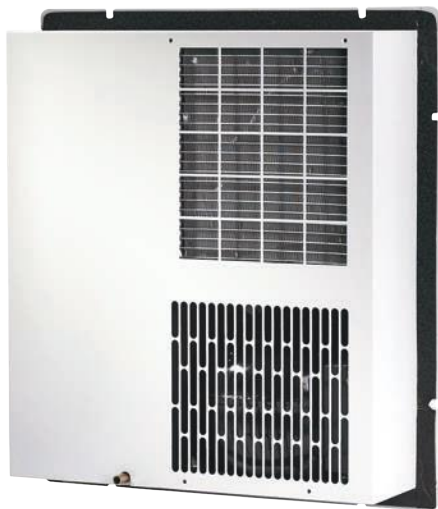
DC 450

DC 450 BACK

Features

- Clean internal environment – closed loop cooling
- Low inrush current – true DC air-conditioner
- No power loss in conversion – no inverter
- Energy-efficient – DC-supplied and capacity-controlled
- Easy installation – mono-block, plug-and-play units
- Lower carbon footprint – environmentally friendly refrigerant R134a
- Easy maintenance – small and compact design
- Expected service life – 10 years

Applications

- Radio base stations
- Electronics enclosures
- Hybrid Telecom sites and DC powered sites
- Battery compartments and power supply rooms
- Network and computer rooms
- Automation control cabinets
- Drive stations
- Billboards, kiosks, ad boards and displays

Specifications	Units	DC 450
Operational temperature range	°C	-10 - +55
Storage temperature @ 80% RH	°C	-20 - +70
Sound level @ 2m	dB(A)	65
Refrigerant		R134a
Cooling capacity at 25°C internal and 50°C ambient	W	220
Cooling capacity at 35°C internal and 35°C ambient	W	420
Cooling capacity at 55°C internal and 55°C ambient	W	520
Internal air flow	m³/h	180
External air flow	m³/h	330
Power consumption at 25°C internal and 50°C ambient	W	200
Power consumption at 35°C internal and 35°C ambient	W	190
Power consumption at 55°C internal and 55°C ambient	W	248
Input voltage range	VDC	45-57
Product size (h x w x d)	mm	491.5 x 443 x 158
Weight	kg	20

ELECTRONICS COOLING
DC AIR-CONDITIONING

DC 1000

Features

- Clean internal environment – closed loop cooling
- Low inrush current – true DC air-conditioner
- No power loss in conversion – no inverter
- Energy-efficient – DC-supplied and capacity-controlled
- Easy installation – mono-block, plug-and-play units
- Lower carbon footprint – environmentally friendly refrigerant R134a
- Easy maintenance – small and compact design
- Expected service life – 10 years

Controller

- Built-in digital controller – Dantherm CC0 controller, LED digital display placed on control board
- Energy-saving control strategy – fans and compressor are controlled with unique, stable RPM independent from supply voltage fluctuations
- SD card interface and TTL link make the configuration fast and easy
- 1pcs RS485 communication port, Modbus protocol support remote monitor

Applications

- Radio base stations
- Electronics enclosures
- Hybrid Telecom sites and DC powered sites
- Battery compartments and power supply rooms
- Network and computer rooms
- Automation control cabinets
- Drive stations
- Billboards, kiosks, ad boards and displays

Specifications	Units	DC 1000
Operational temperature range	°C	-15 - +55
Storage temperature @ 95% RH	°C	-20 - +70
Sound level @ 2m	dB(A)	65
Refrigerant		R134a
Cooling capacity at 35°C internal and 50°C ambient	W	700
Cooling capacity at 35°C internal and 35°C ambient	W	1000
Internal air flow	m³/h	450
External air flow	m³/h	350
Power consumption at 30°C internal and 50°C ambient	W	430
Power consumption at 35°C internal and 35°C ambient	W	320
Input voltage range	VDC	45-57
Product size (h x w x d)	mm	1170 x 470 x 170
Weight	kg	35

DC SPLIT AIR-CONDITIONING

DC 3500

Features

- Clean internal environment – closed loop cooling
- Low inrush current – true DC air-conditioner
- No power loss in conversion – no inverter
- Minimum hot spots – high air flow ensures constant air recirculation
- Steady performance – compressor/fan RPM independent from supply voltage fluctuations
- Energy-efficient – DC-supplied and capacity-controlled
- Cooling On Demand – maintains capacity-controlled room temperature when activated by master
- Expected service life – 10 years

Controller

- Ready for remote control – built-in Dantherm CC0 controller ready for remote climate control
- Energy-saving strategy – applies a minimum of energy to maintain temperature set point
- Cooling On Demand – maintains capacity-controlled room temperature when activated by master
- Easy change of settings – user-friendly display (optional)
- Fast configuration – SD card interface and TTL link
- Automation – standard ModBus protocol over RS485 for easy connection to internet and customer interface

Applications

- Radio base stations
- Electronics enclosures
- Hybrid Telecom sites
- Battery compartments
- Power supply rooms
- Network and computer rooms
- Automation control cabinets
- Drive stations

Specifications	Units	DC 3500
Operational temperature range	°C	-15 - +55
Storage temperature @ 80% RH	°C	-40 - +70
Sound level @ 1m	dB(A)	57
Refrigerant		R134a
Cooling capacity at 35°C internal and 50°C ambient	W	3624
Cooling capacity at 35°C internal and 35°C ambient	W	3822
Internal air flow	m³/h	860
External air flow	m³/h	1950
Power consumption at 35°C internal and 35°C ambient	W	1138
Input voltage range	VDC	40-57
Product size (l x h x d)	mm	1170 x 757 x 730
Weight	kg	24

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Get In Touch

Call: 0845 6880112
Email: info@adremit.co.uk

Our Address

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Puravent

PELTIER TEC COMPARTMENT COOLING

TEC 200

Features

- Dantherm Peltier TEC for battery compartment cooling
- Compact
- Wide operational temperature range
- Corrosion-proof materials
- Industrial quality fans
- Easy to install – plug and play

Applications

- Radio base stations
- Telecom shelters
- Electronics enclosures
- Battery compartments
- Telecom cabinets

TO COOL

Specifications	Units	PELTIER TEC 200
Operational temperature range	°C	-20 - +55
Sound level @ 2m	dB(A)	62
Cooling capacity at 32°C internal and 35°C ambient	W	200
Internal air flow	m³/h	160
External air flow	m³/h	180
Power consumption at 32°C internal and 32°C ambient	W	450
Input voltage range	VDC	36-58
Product size (h x w x d)	mm	400 x 180 x 208
Weight	kg	8

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ELECTRONICS COOLING
HEAT EXCHANGE

Features

- Cost-effective closed loop cooling system
- Adjustable control system with unique cooling strategies
- Step-less fan speed control
- Efficient and reliable radial fans
- Compact construction
- Power supply 48 VDC
- Quick and easy installation and maintenance
- For plastic cores: very light

HEAT EXCHANGER 70
HEAT EXCHANGER 90
HEAT EXCHANGER 120

Controller

- Cooling strategy based on internal temperature set points. The cooling capacity relates to fan speed on internal and external circuit. Internal and external fan speeds are controlled separately
- Temperature sensor situated on control board – eases plug and play installation

Applications

- Radio base stations
- Telecom shelters
- Electronics enclosures
- Drive stations
- Billboards
- Kiosks
- Automation control cabinets
- Ad boards
- Displays

Specifications	Units	70	90	120
Operational temperature range	°C	-33 - +60	-30 - +60	-33 - +60
Relative humidity	%	0-99	0-99	0-99
Sound level @ 2m	dB(A)	64	66	68
Cooling capacity	W/K	70	90	120
Internal air flow (free blowing)	m³/h	400	580	690
External air flow (free blowing)	m³/h	400	680	800
Max. power consumption	W	95	165	165
Max. current	A	1.8	3.2	3.2
Nominal power supply	VDC	-48	-48	-48
Product size (h x w x d)	mm	1149 x 449 x 148	1227 x 449 x 165	1230 x 596 x 153
Weight	kg	21	26	32

ELECTRONICS COOLING
THERMOSIPHON HEAT EXCHANGE

DC 150

Controller

- Built-in digital controller – Dantherm CC1 controller, temperature sensor placed on control board
- Energy saving control strategy. Fans are controlled with unique, stable RPM independent of supply voltage fluctuations
- Configuration parameters stored in on-board, non-volatile memory. Configurable digital in/outputs
- Regulates internal and external fans to achieve optimum inside temperature at minimum power consumption

Applications

- Radio base stations
- Telecom shelters
- Electronics enclosures and power supply rooms
- Network and computer rooms
- Drive stations
- Automation control cabinets and Telecom cabinets
- Hybrid Telecom sites

Features

- Closed loop cooling
- Corrosion-proof components

Operation modes

- Main cooling mode with dynamic, step-less fan speed control
- Power save, boost, emergency cooling, self-test

Communication, alarms and surveillance

- Two galvanically insulated alarm outputs – high and low temperature, fans, temperature sensor function

Built-in safety

- Leakage, voltage and function test from factory
- Reverse polarity protection
- Inrush current limiter

Easy installation

- Installation cable provided
- No need for cooling technician
- No soldering or refrigerant filling on site

Specifications	Units	DC 150
Operational temperature range	°C	-33 - +55
Storage temperature @ 95% RH	°C	-40 - +70
Sound level @ 2m	dB(A)	64
Refrigerant		R134a
Cooling capacity W/K	W/K	150
Cooling capacity at Δt of 10°C e.g. 40°C internal and 30°C ambient	W	1500
Internal air flow	m³/h	1000
External air flow	m³/h	1100
Max. power consumption	W	200
Input voltage range	VDC	36-57
Product size (h x w x d)	mm	790 x 540 x 318
Weight	kg	35

AIR VENT WEATHER PROTECTION

AIRMAZE CUBE II

AirMaze is a compact air path protection capable of removing wind-driven water and sand particles from even high air speed applications.

The AirMaze is designed for rough climate conditions, optimising filter service life and protecting the shelter and cabinet applications from intruding water and sand particles.

Features

- Flexible mounting and flexible air intake
- Outdoor mounting – discrete and elegant solution
- Constructed of sheet metal (Alu-zinc AZ150)
- Low pressure drop – optimising your power consumption

Applications

- Radio base stations
- Telecom shelters
- Electronics enclosures
- Drive stations
- Billboards
- Kiosks
- Automation control cabinets
- Ad boards
- Displays

Specifications	Units	AIRMAZE II
Pressure drop	Pa	30
Product size (h x w x d)	mm	500 x 450 x 450
Weight	kg	18

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Puravent

ELECTRONICS COOLING
AIR VENT WEATHER PROTECTION

AIRMAZE PANEL I & III

AirMaze is a compact air path protection capable of removing wind-driven water and sand particles from even high air speed applications.

The AirMaze is designed for rough climate conditions, optimising filter service life and protecting the shelter and cabinet applications from intruding water and sand particles.

Features

- Compact air path protection for frame mounting
- Designed for protection of indoor Free Cooling units
- Standard material – alu-zinc
- Optional insect protection grid (painted RAL 7035)
- Optional customer-specified colouring

Applications

- Radio base stations
- Telecom shelters
- Electronics enclosures
- Drive stations
- Billboards
- Kiosks
- Automation control cabinets
- Ad boards
- Displays

TO COOL

Specifications	Units	AIRMAZE I	AIRMAZE III
Material		Alu-zinc	Painted RAL 7035
Grill		No	Yes – GR487
Pressure drop	Pa	30	30
Product size (h x w x d)	mm	1149 x 735 x 120	1149 x 735 x 120
Weight	kg	16	22

REMOTE CLIMATE CONTROL
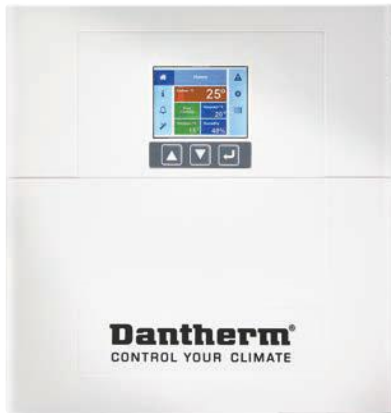
CC 3000

Options

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

Features

- 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
- Intelligent monitoring – ethernet SNMP
- Easy configuration and logging – built-in SD card reader
- Clear, user-friendly display – on-board 2,4 inch TFT colour display
- Flexible operation – on/off and capacity-regulated control of fans/compressor
- Wide operating supply voltage – 85-265V AC (ext. AC/DC converter)
- Quick change of temp. set point – on display
- Real-time clock/calendar – requires battery
- MODbus TCP/IP
- Many languages available (EN, DK, DE, SE, FR, IT, PL)

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

Specifications	Units	CC 3000
Input		
DC supply voltage range	V	40-60
Digital 1, 2, 3		Pull up to 12V. For use with dry contact
Room/hotspot sensor	°C	-30 - +85 NTC type NTCLE100E3272GB0
Humidity sensor		I2C
Pressure sensor		I2C
Output		
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
Communication		
Opto-insulated TTL	+, -, TX, RX	AMP – 281698-6
Ethernet	RJ 45	w. shield
Memory		
Onboard EEprom	1K non volatile	Storage of operating parameters
Mass storage device	<32 GB SD Flash	For logging and change of parameters
Operational temperature range, min./max.	°C	-45 - +85
Display	inch	2.4 TFT colour w. back light
Product size (h x w x d)	mm	200 x 215 x 90

ELECTRONICS COOLING CONTROLS
REMOTE CLIMATE CONTROL

REMOTE CLIMATE CONTROL

Features

- Remote change of configurations and operation parameters
- Data history log for real-time and historical analysis
- Data saved on redundant servers
- Ability to tailor dashboard to own monitoring policy
- Alarm handling – defined per user (SMS/E-mail alerts)
- Reduce service visits – perform service only when needed
- Increase battery life by staying on top of temperatures in your BTS

Installation

- Secure access through firewalls
- True plug-and-play installation
- Requires no public or static IP numbers
- Eliminates complex VPN solutions
- On-board I/O and serial ports
- Available with GPRS or Ethernet communication

Cloud technology

- No software installations – software provided through the cloud
- Instant access from any location and any platform
- Designed for scalability
- Benefit from continuous improvements without software upgrades
- Easy integration with other tools and applications
- Reduces the need for large capital investments

Specifications	Units	RCC GSM	RCC Ethernet
GPRS		Quad band GPRS Class 12 850/900/1800/1900 MHz	-
Ethernet		-	RJ45-10/100 Mbit/s
Relay (max. 24V AC/DC, 1A)		1	1
Digital inputs (isolated max. 24V DC)		2	2
Analogue input		2 (PT100, 0-10V, 0-20mA)	-
Analogue output	0-10V DC	1	-
Data export format		Txt, xls, csv	Txt, xls, csv
Serial port #1		RS232 up to 115.2 kbit/s	RS232 up to 115.2 kbit/s
Serial port #2 (isolated)		RS485 up to 115.2kbit/s	RS485 up to 115.2kbit/s
Antenna		SMA Female	-
Protocols		Modbus-RTU	Modbus-RTU
Baud rates	Baud	300-115200	300-115200
Wall mounting		Yes (optional DIN)	Yes (optional DIN)
Temperature range (operation/storage)	°C	-30 - +65/-40 - +85	-30 - +65/-40 - +85
IP rating		IP20	IP20
Power supply	V DC	9-24	9-24
Power consumption	W	2	2
Alarm outputs		E-mail, SMS	E-mail, SMS
Product size (h x w x d)	mm	92 x 115 x 25	92 x 115 x 25
Certifications		CE, cUL, UL, FCC/IC, PTCRB	CE, cUL, UL, FCC/IC, PTCRB