



TC600 RANGE

Model: TC600-5 Twin Circuit

Precision Environmental Control Systems



TC600-5

DESCRIPTION

The DAQS TC600 range of Dual-Cooling-Mode precision air conditioning units are designed to maximise energy efficient free-cooling operation, while keeping DX operation to an absolute minimum.

The Freecooling Damper allows the room load to be cooled directly using outside air (at suitable outdoor temperatures). This provides yearly energy savings of up to 70% over conventional units. The mechanical cooling circuit (evaporator, condenser, compressor etc.) is integrated within one cabinet, eliminating the need for on-site refrigerant piping and outdoor condensers - and ensuring a very simple installation. Units feature a central microprocessor controller which monitors indoor and outdoor air temperature and air cleanliness and ensures accurate measured machine response to room load conditions.

In addition to room status, the controller also monitors unit operation, generating alarms (both locally and remotely) in response to a major component fault or failure.

Major components are fully serviceable from the front. Units are supplied fully pre-charged with zero ODP refrigerant R407C.

APPLICATIONS

- Cell / mobile phone base stations
- Switch rooms
- Equipment / plant rooms
- Telecommunications installations
- Network controllers
- Laboratories

FEATURES:

- Dual-Cooling Mode - exceptional year round free cooling performance with mechanical cooling back up
- EC fan technology
- Refrigerant circuit - scroll compressors with high / low pressure protection and fully modulating condenser fan
- Dual rail power supply, 48VDC and 230VAC power input
- Integrated microprocessor control system with user friendly display / keypad
- Fully integrated electrical panel
- Fully BMS comms. compatible
- EU4 filtration

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OPTIONS

- Extended-freecooling fan
- On/Off or thyristor controlled electric reheat
- Integrated emergency fan
- Connectivity with customer building management systems -wide range of BMS protocols are supported
- Electronic expansion valve
- High ambient operation
- EU5-EU7 filtration
- Power Supply - 230VAC Only, 48VDC/400VAC and further options
- Full range of RAL colours
- Fire/Shut off dampers
- Single refrigeration circuit option

TECHNICAL DATA

1) Free Cooling Capacity	kW	13.8
2) Free Cooling Capacity	kW	9.8
3) DX Capacity - Total	kW	13.7
3) DX Capacity - Sensible	kW	13.7
4) DX Capacity - Total	kW	11.9
4) DX Capacity - Sensible	kW	11.9
Max Freecooling Airflow	m ³ /h	6000
DX Airflow	m ³ /h	3400
Nom. Fan Input Power	kW	0.4
5) Sound Pressure Level	dB(A)	56
Overall Dimensions	mm	2150 H x 1330 W x 720 D
Footprint	m ²	0.96
Net Weight	kg	410
Gross Weight	kg	435

- 1) Quoted @ 7°C Delta temperature (indoor to outdoor)
 2) Quoted @ 5°C Delta temperature (indoor to outdoor)
 3) Quoted @ 26°C/45% R.H., in-room, 32°C outdoor ambient
 4) Quoted @ 24°C / 45% R.H., in-room, 32°C outdoor ambient
 5) Quoted @ 1.5m distance, free-field

