FlexAir[®] GFCS-60

Energy Efficient Thermal Management Solutions

The Green Free Cooling System (GFCS) is a thermal management solution for installation on new and existing telecom shelters. GFCS provides an energy efficient and reliable free cooling system for managing the interior environment of a shelter. The solution is optimized for low energy consumption and long filter replacement intervals while maintaining the prescribed cooling capacity performance.

The cooling capacity is managed based on the temperature difference between the interior and exterior of the shelter. The system adjusts the cooling capacity based on actual heat load and degree of pollution within the inlet air filter. The control system ensures both the power consumption and fan rotations (RPMs) are kept to a minimum, while extending the lifetime of the fan and filter, reducing the need for maintenance and repair calls to the shelter.

The Green FCS consists of three main components; Fan Filter Module (with integrated controller located on the door or wall), and Outlet Module (gravity damper located on the rear).

Applications:

Provides a thermally-controlled environment for electronic equipment and batteries within a telecom shelter.

Product Features:

- Microprocessor control provides optimal fan speed for energy saving
- Easy to install in new and existing shelters
- Over pressure system eliminates unfiltered air and unwanted water ingress from exterior
- Reduces power consumption
- Control of existing air conditioning and heater



The Purcell Advantage

Purcell Systems designs and manufactures thermally-managed outdoor enclosures that meet the exact needs of the enclosed equipment for network operators and utilities. Our enclosures provide comparable solutions to prefabricated buildings, containers and shelters at a fraction of the cost. Both standard and custom enclosures are delivered with the following capabilities:

Choice of Options: Pre-engineered and interchangeable modules provide optimal configurations with minimal cost and lead time.

Thermal Management: The industry's widest selection of heating and cooling systems ensures the most efficient thermal management solution with the lowest energy consumption.

Lowest Total Cost of Ownership:

Engineering analysis and modeling ensures your enclosure configuration minimizes installation, maintenance, repair, capital, and operational expenses.

Equipment Integration and Staging: Electronic equipment can be staged and installed in our enclosures prior to final deployment and installation.



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GFCS 60		Thermal Management Systems	
Exterior Dimensions		Direct Air Cooling	
Filter Module	410mm x 370mm x 700mm 16.1"W x 14.6"D x 27.6"H		
Controller Module with Fan	420mm x 175mm x 733mm 16.5"W x 16.9"D x 28.9"H	3700 m3/h 2200 cfm -48VDC	
Outlet Module	465mm x 250mm x 410mm 18.3"W x 9.8"D x 16"H		

Specifications	Thermal Derfermence	ОТЦЕР
Construction	Cooling Consolity Danger C WW of best load (at dT	Uliten Environmentel
Construction		
Material thickness Imm / .039 corrosion	5 U); 2 Tans	• IP Protection: IP 55
resistant Aluzinc® (steel substrate coated with	Fan Type: Centrifugal fan	• Operating Temperature: -25 to + 50 C
aluminium-zinc alloy)	• Air filter: G4 or EU5 Filter available per request	• Humidity: 10-90%
• Finish: Light Grey (RAL 7035) polyester powder	 Power Requirements: 0,6 - 7,8 A depending on 	
coat	load and filter status	Warranty
Weight (Base Configuration): 30 kg / 66 lbs	• Acoustic Emissions (max): 62 dB(A) at 1,5m /	• 1 year
Mounting Requirements	five feet	
• Cut-out for Fan Filter Module: 250mm / 9.8"	Other Options	
diameter per fan	• Alarms: fan failure, temp sensors out of range,	
• Cut-out for Outlet Module: 425mm x 370mm /	high temperature, controller failure, LVD	
16.7"W x 14.6"H per outlet module		
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