

# Green System Room®

## Power and Equipment Enclosure Solutions

The Green System Room (GSR) series uses pre-engineered outdoor enclosures to house a variety of indoor equipment. This scalable and modular set of cabinets provides a pay-as-you-grow approach to expanding your deployment of wireline, wireless, and affiliated power equipment. Within each modular cabinet, a wide variety of kits and accessories provide the exact enclosure configuration to deploy your equipment in any environment or location. Other options include battery backup, AC/DC power termination and distribution, RF cable management trays, voltage stabilizers and external alarms.

The GSR series includes the MultiCool thermal management system, which employs both side-mounted Direct Air Cooling (DAC) and Air Conditioning (A/C) technologies combined with an advanced air duct design within the cabinet. The MultiCool system offers a scalable approach, where incremental A/C units can be added as needed. The MultiCool system uses a blend of DAC and A/C cooling to maintain the optimal interior temperature while minimizing energy costs.

### Applications:

Provides a scalable, thermally-controlled environment for telecommunication equipment including Base Transceiver Stations (BTS), RF cable management, AC and DC Power, battery backup, and auxiliary user space.

### Product Features:

- Modular and scalable cabinet system design
- Scalable MultiCool thermal system uses DAC and A/C
- RF Top for cable management
- Field upgradeable
- AC and DC power options
- Smaller footprint alternative to buildings and shelters
- Energy savings with optimized air flow and free cooling
- Individual cabinet access in case of operator-shared service



### 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.

# Green System Room®

Green System Room			Thermal Management Systems					
Exterior Dimensions		Rack Units	MultiCool 3		MultiCool 5		MultiCool 7	
One Bay	800mm x 996mm x 2386mm 31.5"W x 39.2"D x 94"H	Power Bay: 8 RU Battery Bay: N/A BTS Bay: Upon Request	Direct Air Cooler	Air Conditioner	Direct Air Cooler	Air Conditioner	Direct Air Cooler	Air Conditioner
Three Bay (Standard)	3430mm x 996mm x 2740mm 135"W x 39.2"D x 107.9"H		3300W	2 units: 3000W each 10.2K BTU/hr	5800W	2 units: 5000W each 17K BTU/hr	7700W	2 units: 7000W each 23.8K BTU/hr

## Specifications

EXTERIOR	INTERIOR	OTHER
Construction	Equipment Mounting	Environmental
<ul style="list-style-type: none"> <li>Frame: Material thickness 1,5 mm / 0.060" Steel (DC01 EN 10130)</li> <li>Insulation: Internal 25mm / 1" insulation</li> <li>Finish: Light Grey (RAL 7035) polyester powder coat</li> <li>Weight (Standard 3 bay configuration with Climate System): 620 kg / 1365 lbs</li> </ul>	<ul style="list-style-type: none"> <li>Power Bay: Includes 8 RU 19" equipment rails</li> <li>Battery Bay: Supports up to 5 tiers of four 12 Volt batteries.</li> <li>BTS Bay: Support most brands of BTS indoor cabinets</li> </ul>	<ul style="list-style-type: none"> <li>Operating Temperature: -33° to +50°C</li> <li>IP Protection: IP 55</li> <li>Humidity: Controlled as per ETSI 300 019-1-4 class 4.1</li> </ul>
Door/Side/Top Panels	AC Power Termination and Distribution	Warranty
<ul style="list-style-type: none"> <li>Doors: Front doors, left open</li> <li>Door Handles: Pad-lockable</li> <li>Door Hinges: Hidden hinges</li> <li>Side Panels: Removable for field expandability for extra bays</li> </ul>	<ul style="list-style-type: none"> <li>Load Center Location: Power Cabinet</li> <li>4 position internal load center</li> <li>63 Amp main breaker</li> <li>Surge protection upon request</li> <li>Generator back-up connection upon request</li> <li>AC Distribution to cover MultiCool Cooling Unit</li> <li>AC Distribution for DC Power plant upon request.</li> </ul>	<ul style="list-style-type: none"> <li>1 year</li> </ul>
Cable Entry	DC Power Systems and Distribution	
<ul style="list-style-type: none"> <li>Ingress/Egress: Power Bay: Knockout plate with blind cover on rear and inlets on bottom</li> <li>Ingress/Egress: Battery Bay: Knockout plate with blind cover on rear</li> <li>Ingress/Egress: BTS Bay: Roxtec® ComSeal® with blind cover on rear</li> </ul>	<ul style="list-style-type: none"> <li>Multiple suppliers and configurations available</li> </ul>	
Mounting Options	Other Options	
<ul style="list-style-type: none"> <li>Concrete pad mounting or rails</li> </ul>	<ul style="list-style-type: none"> <li>Alarms: thermal, door intrusion (per bay) and smoke alarms</li> <li>Rain and sun shield</li> </ul>	