

Innovative Solutions For Extreme Environments



CLIMATE - POWER - SHELTER



Our mission: To be the supplier of choice to the global defence market

Since its formation in 1998 CMCA has built an enviable global reputation for the provision of high performance, reliable climate, power and shelter solutions capable of operating in the most extreme environments. CMCA is a UK based original equipment manufacturer designing, manufacturing and delivering specialist air conditioning systems, dehumidification and filtration systems as well as power generation, distribution and charging systems.

The bespoke design and integration of rigid wall shelters provides customers with maximum flexibility and ease working with a single supplier, with the confidence that the solution will be manufactured to the highest standards and quality, backed up by a world class support network.



Unmatched Capability

As an original equipment manufacturer of high performance, innovative climate control, power and shelter solutions, CMCA boast a unique capability in providing turn-key solutions to a wide range of requirements as a supporting partner or a lead prime, CMCA have an outstanding reputation of delivering to the most stringent standards.

The in-house expertise in climate control, power and shelter systems provide low risk solutions and a flexible and rapid response to problem solving. Systems are delivered with first class introduction and training programmes and are supported from cradle to grave with life cycles exceeding twenty years.

Proven Partner



CMCA's commitment to delivering and supporting high performance equipment has resulted in outstanding customer relations with governments and leading defence prime contractors and provided the opportunity to partner high calibre programmes including:

- ◆ Watchkeeper X Unmanned Aircraft System
- ◆ Skynet 5 Satellite Communication System
- ◆ Soothsayer Electronic Warfare System
- ◆ Rapid Deployment Aircraft Hangars and Infrastructure
- ◆ Joint Forces Allied Command Headquarters
- ◆ Forward Artillery Sensor Systems

Operational Readiness



With over two decades of experience delivering and supporting innovative solutions for defence requirements, CMCA have the capability, expertise and equipment to maintain operational electiveness in the harshest environments on earth. As a key supplier to the UK MoD during operation Telic in Iraq, operation Herrick in Afghanistan and operation Shader, CMCA's advanced

climate control, power and shelter solutions provided critical infrastructure, power and comfort in the most challenging of environments, supported by a rapid turn around maintenance and repair programme to ensure maximum operational readiness and effectiveness.

Extreme Versatility

The image shows a military fighter jet, possibly an F-16, on a tarmac. The jet is grey with a white 'Y' on the tail fin and a red and blue stripe. A large green industrial equipment unit, likely a power or climate control system, is in the foreground. The unit has a large metal mesh grille on the right side and a circular fan on the left. Black hoses are connected to the unit. The background is a clear blue sky.

As a project driven company CMCA are not bound by fixed production programmes and provide extreme versatility in delivering advanced equipment. Covering the three core activities of climate control, power generation and shelter integration CMCA can provide off the shelf equipment, modified equipment or fully bespoke solutions to meet the exacting needs

of the customer. CMCA's equipment is also versatile in its capabilities, covering static systems, trailered and mobile systems as well as deployable shelter systems supporting a range of applications from accommodation and laundry systems to radar and electronic warfare systems.



Advanced Protection

Chemical, biological, radioactive and nuclear weapons pose a devastating threat to personnel operating in extreme conditions, CMCA's advanced filtration systems offer protection and safe, breathable air for shelter occupants without the need for bulky personal filtration equipment.

Utilising CMCA's rugged air conditioning solutions to maintain a workable environment for personnel and equipment provides essential continuity and operational effectiveness.



High Attenuation

CMCA are renowned for their effectiveness to deliver high specification equipment, conforming to the most stringent requirements. Utilising a modular design ethos, systems can be configured to suit a number of requirements. High electromagnetic interference and radio frequency interference can cause communication, signalling and RADAR complications

and interrupt mission-critical activities. CMCA's equipment is proven to provide high attenuation and is tested up to TEMPEST requirements. Full customisation is possible through the intelligent modular design, allowing systems from CE to TEMPEST levels of attenuation to suit project specific requirements.

Auxiliary Support



Military vehicles and mobile platforms require auxiliary support equipment to reduce the load on the batteries and main vehicle engine as well as providing continuous power and climate control when stationary. CMCA's vehicle integrated systems combine high performance, reliability and efficiency to provide mission continuity without inducing unnecessary wear on the main vehicle equipment.

CMCA's man portable power solutions have been used to provide vehicle auxiliary power to mobile artillery and communication vehicles whilst maintaining maximum flexibility with the systems being demountable for remote operation. Acoustic, thermal and electromagnetic attenuation makes CMCA's vehicle integrated systems silent over each respective spectrum.

Rapid Deployment

An aerial photograph of a military airfield. In the foreground, a large, white, temporary hangar structure is partially open, revealing a fighter jet inside. To the right, another fighter jet is parked on the tarmac, with its canopy open and ground support equipment nearby. The background shows a concrete runway and other temporary structures. The lighting suggests it's either early morning or late afternoon, with long shadows cast across the tarmac.

Temporary structures provides essential infrastructure for a range of applications from forward operating bases, aircraft hangars, tactical headquarters and humanitarian accommodation. CMCA's climate control and power solutions provide reliable, economical and efficient power and comfort to for the occupants and equipment.

Being able to deliver supporting infrastructure and equipment is key to any successful operation. CMCA's equipment and services ensure maximum logistical efficiency is achieved.

Temporary structures



Temporary structures provides essential infrastructure for a range of applications from forward operating bases, tactical headquarters and humanitarian accommodation. CMCA's climate control and power solutions provide reliable, economical and efficient power and comfort for the occupants and equipment.

The C120 and C250 air conditioning units provide high performance and high reliability with minimal logistical requirements, available with a NATO towing trailer and utilising a compact space envelope allowing two systems to be packed on a single 463 litre air cargo pallet.

Flexible Manufacturing

The image shows a spacious industrial warehouse. In the foreground, there is a large yellow piece of machinery, possibly a CNC machine or a specialized manufacturing unit, with a control panel and various components. In the background, there are high industrial shelving units with orange beams and blue vertical supports. The shelves are stocked with various items, including boxes and pallets. The floor is a light-colored concrete with some blue and green markings. The overall atmosphere is one of a modern, well-organized manufacturing facility.

Located in the North-east of England, CMCA utilises a highly skilled and dedicated team to deliver and support advanced equipment. By implementing lean manufacturing techniques and innovative engineering, CMCA offer complete flexibility in the manufacturing processes, allowing equipment to be designed and manufactured to customer specific requirements and

managed in a controlled environment to ensure only the highest quality. As an ISO9001:2015 accredited company, CMCA are driven by the quality management system to provide customers with the expected quality and documentation procedures.

Through life Support

A large industrial workshop with rows of green equipment units. A worker in a blue uniform is working on a unit in the foreground. The background shows shelves, tools, and other equipment.

Equipment integrity is critical to any operation, whether it is military or commercial, CMCA provide a world class technical support capability to instil confidence in the end user that the equipment is safe and operating at its maximum potential. Adhering to industry standards and government security measures, CMCA provide a truly global capability, supporting equipment in the harshest conditions.

Whether the equipment is supporting personnel or equipment, maintaining its operational readiness is critical, and CMCA have a proven pedigree providing first class technical support.

Advanced Solutions & Services



- ◆ Air conditioning
- ◆ Space Heating
- ◆ Dehumidification
- ◆ CBRN Filtration
- ◆ Air Distribution
- ◆ Renewable Energy Systems
- ◆ Diesel Power Generation
- ◆ Hybrid Power Generation
- ◆ Man Portable Systems
- ◆ Power Distribution
- ◆ Battery Monitoring, Charging and Jump Starting
- ◆ Uninterrupted Power Supplies
- ◆ Power and Lighting Rigs
- ◆ Containerised Shelters
- ◆ Vehicle Integrated Shelters
- ◆ Soft Wall Shelters
- ◆ Inflatable Storage



- ◆ Concept Design Analysis
- ◆ Bespoke Solution Design
- ◆ Off The Shelter Modification
- ◆ System Investigation
- ◆ Prototyping and One-Offs
- ◆ System Integration and Commissioning
- ◆ Training and Support
- ◆ Investigation and Fault Diagnostic
- ◆ Refrigeration Handling
- ◆ F-Gas Certification
- ◆ F-Gas Training
- ◆ Electro-mechanical Support
- ◆ Electrical Inspection and Testing



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