



Mobile Climate Control
Off Road



**You can't change the weather
but you can choose the climate**

HVAC-solutions for the Off Road industry

Total comfort wherever you go

For a better view

MCC Off Road Division develops high performance HVAC systems for vehicles and machinery in construction, agriculture, forestry, mining, material handling and municipal vehicle industries, making the driest or wettest surroundings and the most extreme hot or cold weather unnoticeable. Our products are designed to withstand the harshest conditions and are relied upon to provide a comfortable climate, exceeding our customers' expectations.

The MCC HVAC systems can be found in the deepest forests of Canada to the depths of the mines of South Africa, and everywhere in between. Our mission is to create a comfortable working environment in every type of vehicle no matter the terrain or the weather. We are proud to deliver it every time.

Qualifications and experience

For over 30 years, MCC has been providing exceptional climate control systems for some of the largest vehicle manufacturers in the world. MCC can accurately determine the type of approach best suited for each client. From the initial concept MCC is committed to working in partnership with our clients to ensure a comfortable driving environment for their customers, the end users.

The MCC Engineering group excels at designing custom HVAC systems for all types of working vehicles, for different markets, and to fit in limited amounts of space. They have the skills and are qualified to offer innovative products. The MCC electrical team has the knowledge and the skills to ensure a perfect control of the interior climate. We can guarantee complete, innovative and customized solutions with outstanding performance.



Exceeding every expectation

MCC has extensive experience working on the global market within the OEM industry. Our products have consistently met or exceeded our clients' specifications, expectations and demands. Our HVAC systems can be found in vehicles manufactured by AGCO, Bobcat, CNH, Hitachi, JLG, John Deere, Cargotec Kalmar Industries, Komatsu, NACCO, Ponsse, Renault, Sandvik, Terex/Genie, Tigercat, Volvo and many more. What all these vehicles have in common is an HVAC system designed and manufactured for function, reliability and longevity. We welcome the challenge and we surpass every expectation.



Global manufacturing presence

MCC is a fully integrated company, designing and manufacturing our cooling, heating and evaporating coils, our control panels and everything in between. Our global organization can provide cost effective HVAC solutions for your vehicle from manufacturing locations in Europe and North America. We continue to strengthen our market presence, enabling us to offer reduced manufacturing lead-times and global support for our clients and their products.

Proven results

The MCC research, development and testing facilities include extensive equipment for testing the performance of our HVAC systems as well as the components within the systems. Our custom-built climate chamber, the core of our test facility, enables MCC to stand behind the products we design and manufacture by proving what we state. In our climate chamber, we can simulate the most severe conditions and put our prototypes through the most demanding tests. All our systems and sub-components undergo rigorous testing prior to delivery to ensure our customers receive exactly what they expected, a durable and superior HVAC system built to the provided specifications. We are not satisfied until you are satisfied!

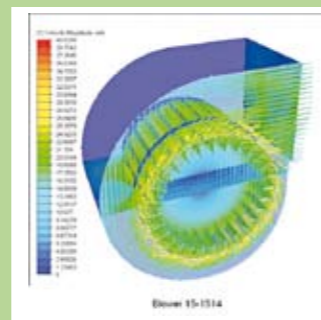
World wide support

At MCC we can provide on-site support to ensure that your HVAC system has been properly installed and certified. Our personalized service ranges from the first contact, all the way to the pilot run on your assembly line and far beyond, no matter the location. Our organization offers flexibility and the capacity to provide a prompt response to your requests. Our continuously expanding service network enables MCC to make certain that your customers remain satisfied, all across the globe. We are an established and reliable organization that is capable of becoming an integral part of your supply chain. The choice is yours, consult MCC about the possibilities for your vehicle, and allow us to assist you with any projects regarding heating, ventilation and air conditioning.



3-D models

Our design team creates computerized 3-D models utilizing the most advanced CAD software, enabling our customers to visualize how the products will integrate into their vehicle. This process allows engineers to see the maximum potential of the HVAC system and offers the flexibility to alter the design and add or remove options as required.



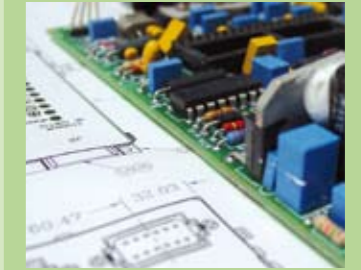
Computational fluid dynamics

With CFD software, as used by NASA and Formula 1 racing teams, our team of engineers can see how the cold or warm air circulates inside the vehicle, before the prototype is even built. The design can then be perfected and the results shared with our clients to ensure total satisfaction.



Final testing

Once the design has been completed and approved by your organization, prototypes are made and testing can begin. The product is then evaluated and undergoes a challenging battery of tests to ensure quality and performance. Our state of the art climate chamber is 22m (72') in length and can maintain temperatures of 60°C (140°F) to -54°C (-65°F) with the ability to add up to 95% RH.



Electronics

State of the art electronics to control the system and interact with your vehicle.



Total control from the start

MCC develops both manual and electronic control panels. The interface is designed according to the customer's preferences.

In limited space

Our engineering team provides compact, durable high performance HVAC solutions for numerous types of vehicles in various industries all around the world.

Cooling hoses with steel joints

Refrigerant hoses and hose assemblies are manufactured according to the customer's specifications.

HVAC systems with filters

Customized climate control systems are developed for size, weight and performance. For optimal air quality, filters can be integrated into the HVAC system or installed separately.

Condensers

Copper and aluminum designs to fit your application and meet your demands.

Compressors

A wide range of sizes and options available including piston and scroll compressors.

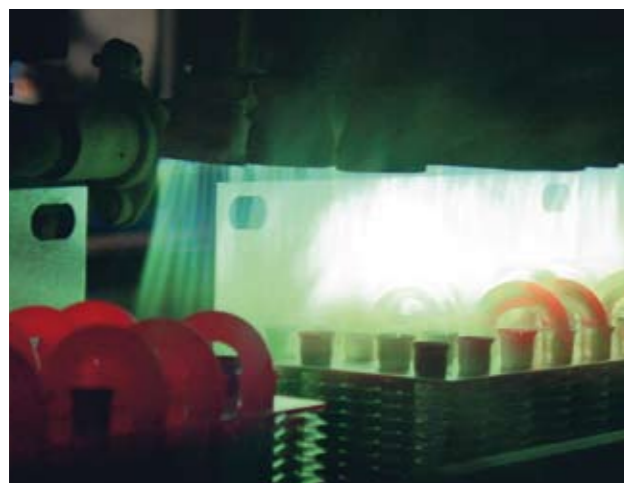
We are Mobile Climate Control

Since 1975, MCC has led the field in the design and manufacturing of exceptional heating, ventilation and air conditioning solutions. MCC specializes in custom designed HVAC systems for all types of vehicles in numerous industries all over the world. With our experience and engineering expertise, we develop exceptional and



innovative climate control products. MCC HVAC systems can be found all over the world. From the forests of Scandinavia to the diamond mines in South Africa, on the battlefields in the Middle East and

through the streets of New York. Our customers know where their vehicle will be used and MCC knows how to create a comfortable working environment wherever that may be. We listen to our clients, we understand their expectations and needs and we offer the best recommendations to suit our customers' applications. Our cus-



State of the art facilities around the world ensure quality and efficiency in our manufacturing processes.



tomers' clients expect excellence and outstanding performance, and we have the ability to deliver, every time!

Mobile Climate Control is certified by ISO 9001:2000 and ISO 14001:2004.

A stable horizon

Mobile Climate Control is owned by Ratos – a stable, listed, private equity company with an industrial profile and a total annual revenue of about 4 billion US-dollars. The Ratos business concept is professional, active and long-term ownership. This gives us a stable and bright horizon for future planning.



Capable of providing any vehicle with a superior climate inside

Mobile Climate Control provides specialized expertise in four different market segments: On Road, Military, Off Road and Specialty Applications.



Mobile Climate Control On Road



The MCC On Road Division creates customized climate systems for the bus industry around the world. This market segment includes city, intercity, shuttle, school and touring buses. We offer numerous types of HVAC products for buses found on the streets of Cairo to the highways in Alaska, and everywhere in between. Our mission is to create a comfortable travel experience for everyone on board.



Mobile Climate Control Military



The MCC Military Division specializes in custom engineered HVAC systems for hostile environments. With our products, soldiers can focus on their assigned duties, instead of on the conditions surrounding them. We have extensive experience working with the military industry and can always find the best approach for each client, and design a system to withstand rigorous demands and to fit in the available space.



Mobile Climate Control Specialty Applications



The MCC Specialty Applications Division provides the global market with customized climate products. This segment includes fire and rescue as well as electric and battery powered AC systems for use in cooling electronics. It also includes fully independent AC systems for sleeper cabins in highway trucks and for small freight containers.

Every operator deserves the best possible vehicle climate with MCC products

- Innovative ideas
- Numerous options
- Proven results
- A stable supply chain partner
- An established global organization
- Personalized service and support
- Understanding your industry and your customers
- Exceeding all expectations



www.mcc-hvac.com

Certified ISO 9001 and ISO 14001. Specifications subject to change without notice. MCC is a registered trademark.