

MOBILE HEATING AND COOLING



Dantherm®
CONTROL YOUR CLIMATE



OPTIMAL CLIMATE CONTROL
FOR SOLDIERS AND RESCUE TEAMS
AROUND THE WORLD

MOBILE HEATING AND COOLING UNITS

Optimal climate control for soldiers and rescue teams around the world

Dantherm mobile heating and cooling units are specially developed and built for use by the military and relief agencies in focal points around the world. In order to secure a comfortable climate where soldiers and rescue teams work and sleep, both groups require equipment that operates flawlessly at maximum load even under extreme weather conditions.

This is why the thoroughly tested and well-documented heating and cooling units from Dantherm are preferred by a considerable number of NATO forces and Non-Governmental Organizations.

Dantherm mobile heating and cooling units are manufactured at our factory in Skive, Denmark where only the latest manufacturing technology is used and they meet the highest standards, such as ISO 9001 and 14001.

Ease of mind

Dantherm not only offers reliable and virtually maintenance-free products that make field operations run smoother and the soldiers and NGO field workers more comfortable. We also provide ease of mind by assisting procurement specialists size heating and cooling requirements.

Furthermore, part of our technical competence is to advise on the spare parts needed to secure smooth operations in distant corners of the world – for any given period of time.

NATO Standard

Dantherm mobile units conform to all NATO requirements and norms and are chosen as the NATO standard. All units and accessories are allocated global NATO stock numbers (NSN) for easy integration into national logistics and supply channels or programs. This makes ordering of our products much easier.

Forever pursuing the ideal

No one knows what it takes to maintain a comfortable climate in the field better than the soldiers and rescue teams who work, live and sleep there. The development team at Dantherm is always looking to design new products or improve on existing ones to meet the requirements of those who use them on an everyday basis.

Regular visits to military camps keep us updated with new requirements and give us invaluable feedback on the performance of our products, thus allowing our R&D team to constantly working on improving the quality and functionality of our products.

In close cooperation with tent and container manufacturers we have developed and supplied customized heating and cooling units to be integrated in their accommodation solutions for tent camps, relief camps, field hospitals etc.

Facts about Dantherm mobile heating and cooling units:

- ▶ Produced at our own state-of-the-art manufacturing facilities in Denmark.
- ▶ Built to comply with advanced AQAP requirements as well as ISO 9001 and 14001.
- ▶ Adopted as a NATO standard and allocated NATO stock numbers.
- ▶ Operational at temperatures from -40°C to +60°C
- ▶ Exceptionally versatile, rugged and reliable units of high quality.

Dantherm offer:

- ▶ Stock readiness
- ▶ Thorough documentation
- ▶ Expert support
- ▶ Extensive product training courses
- ▶ Service agreements
- ▶ Site-specific, customized solutions for tent and container manufacturers.
- ▶ After sales service - back-in-shop concept.

MOBILE HEATING UNITS

Reliable operation even at the coldest locations

Dantherm mobile heating units provide a comfortable indoor climate that creates optimal working conditions – even when temperatures outside are far below freezing. Tactical command centres, communication centres and operating rooms are always pleasantly warm, allowing staff to execute critical decisions free from any discomfort.

Easy transport and efficiency in logistics

Dantherm mobile heaters are light and compact. They are made to be moved and installed in no time. The units are easy to carry over rough terrain, and feature either a hook for a crane or built-in glides for lifting with a fork truck. In addition, the units are stackable and easy to fasten to air-freight pallets, which makes them easy to handle and transport.

Benefits of Dantherm mobile heating units:

- ▶ Can operate at temperatures down to -40°C.
- ▶ Comfortable working and accommodation climate for staff. This provides optimal rest and revitalisation in the shortest possible time.
- ▶ Equipment such as helicopters stays warm and ready for use, reducing wear and tear and ensuring quicker response times.
- ▶ Reliable and virtually maintenance free.
- ▶ Easy to transport, even over ice and snow.
- ▶ Can be set up by one person without the use of tools, and is easy to operate.
- ▶ Developed in close collaboration with the armed forces of NATO countries.
- ▶ Chosen as the NATO standard, conforming to all NATO requirements and norms.
- ▶ All units are allocated NATO stock numbers (NSN).



Applications:

- Tents
- Containers
- Relief camps
- Field hospitals
- Operating rooms
- Communication centres
- Tactical command centres

Accessories:

- Remote thermostat with cable
- Remote CO monitor with cable
- Flex. air ducts
- Storage bag
- Air distribution ducts
- Oil lance
- Flue gas analyser kit

RELIABLE OPERATION
EVEN AT THE COLDEST LOCATIONS



Technical data	Heat output (kW)	Air flow (m ³ h)	Height (mm)	Length (mm)	Width (mm)	Weight (kg)
VAM 15 MK II	18	1080	605	1360	490	93
VAM 40 MK II	38	2200	890	1400	700	129

Flexible installation

All Dantherm mobile heating units can be installed without the use of tools, and are easy to adapt to local conditions. The units use insulated, flexible air ducts, but can also be connected to permanent air ducts.

Wide range of accessories

The mobile heating units can be equipped with a wide range of accessories, which are allocated NATO stock numbers (NSN). Available accessories include air distribution plenums ensuring the perfect distribution of warm air throughout the room. The ducts come in various lengths, designed to suit any camp layout. They have military grade reinforcing wire and provide flexibility even at zero degrees.

Multifuel operation

All Dantherm heating units are multifuel (diesel) capable which gives commanders great flexibility. Due to a specially designed suction pump the fuel tanks can simply be placed on the ground near the heating units. This makes refueling of the supply tanks easier.



Dantherm mobile heating units:



VAM 15 MK II mobile heating unit



VAM 40 MK II mobile heating unit

MOBILE COOLING UNITS

Stay cool under hot skies

Dantherm mobile cooling units are ideal for cooling tents, containers and other temporary buildings. They provide a comfortable indoor climate, optimal for making fast decisions. Dantherm cooling units ensure that electronic equipment stays at operating temperatures, and they help staff keep a cool head – thus reducing the risk of critical errors.

Easy transport and efficiency in logistics

Dantherm mobile cooling units are light and compact. They are made to be moved and re-installed in no time. Even the more stationary models, used in environments such as office, housing and technical containers, are designed for quick installation and removal. All units feature either a hook for a crane or built-in pockets for lifting with a fork truck. In addition, the units are stackable and easy to fasten to air-freight pallets, which make them easy to handle and transport.

Benefits of Dantherm mobile cooling units:

- ▶ Can operate at temperatures up to +60°C
- ▶ Comfortable working and accommodation environment for staff. This provides optimal rest and revitalization in the shortest possible time.
- ▶ Cool environment for electronic equipment, so that down time and other operational disturbances are avoided.
- ▶ Fresh air supply to ensure sufficient air change
- ▶ Reliable and virtually maintenance free.
- ▶ Easy to move, set up and operate.
- ▶ Developed in close collaboration with the armed forces of several NATO countries.
- ▶ Chosen as the NATO standard, conforming to all NATO requirements and norms.
- ▶ All units are allocated NATO stock numbers (NSN).



Applications:

- Tents
- Containers
- Relief camps
- Field hospitals
- Communication centres
- Tactical command centres
- Oil, gas and mining camps
- Clean Rooms

Accessories:

- Trap door and welding frame
- Trolley with wheels
- Booster heater
- Remote thermostat with cable
- Electric heating coil
- Clean Room HEPA filtration
- Flex. ducts with storage bag
- Air distribution ducts
- Filters

STAY COOL
UNDER HOT SKIES



Technical data	Max. cooling (kW)	Heating* (kW)	Air flow (m³h)	Height (mm)	Length (mm)	Width (mm)	Weight (kg)
ACM 5*	4,9	2	700	446	752	630	79
ACM 5 MK II*	4,7	2	900	482	755	666	79
ACM 7 MK II*	6,5	7,2	2500	1233	934	984	190
ACM 7C	7,7	n/a	3000	698	2457	515	197
ACM 11*	11,5	8	1700	735	1140	1140	170
ACM16	15	n/a	2200	1112	1370	1080	220
ACM 18*	17,5	6/16	2500	780	1450	1140	240
ACM 18 CBRN*	17,5	16/20	2500	780/780	725/725	1140/1140	104/137
HX-M100	-	-	100	360	1140	235	25

* Option with built-in heating.

Flexible installation

All Dantherm mobile cooling units are easy to adapt to local conditions. Some units must be placed outside the rooms, while others are placed half inside and half outside. The ACM 7C container AC is ideal for on-road application. In order to optimise the cooling effect, the units - and ideally also the ducts - must be placed adjacent to the tent with ducts as short as possible on the outside to minimise solar radiation. Solar shielding of the cooling unit and ducts will further increase performance.

Energy savings with fresh air/heat exchanger unit

Up to 50% energy can be saved by using the heat exchanger unit HX-M100 in combination with container air conditioners.

Heating and cooling from the same unit

All of the Dantherm mobile cooling units can be supplied with a built-in heat source. This makes these units especially useful in geographical areas with extreme differences in daytime and night-time temperatures, such as deserts.

Wide range of accessories

The units can be equipped with a wide range of Dantherm accessories, which are also allocated NATO stock numbers (NSN). Available accessories include air distribution plenums, ensuring the perfect distribution of cooled air throughout the room.



Dantherm mobile cooling units:



ACM 11 mobile cooling unit



ACM 16 mobile cooling unit



ACM 18 mobile cooling unit



ACM 18 CBRN mobile cooling unit



ACM 5 mobile cooling unit



ACM 7 MK II mobile cooling unit



ACM7C for on-road application



HX-M100 heat exchanger

ABOUT THE DANTHERM GROUP

Control your climate

The Dantherm Group is a leading provider of climate control products and solutions. The group companies have more than 60 years of experience in designing and manufacturing high quality and energy efficient equipment for heating, cooling, drying and ventilation for a wide range of mobile and fixed applications.

Every year Dantherm Group uses significant resources on product development to stay in the forefront and are constantly adapting the products to changing market demands and legislation.

The Dantherm Group has a number of strong brands with well established market positions in the mobile, pool, commercial/industrial and residential markets.

Dantherm Group customers benefit from our comprehensive knowledge base and the experience and expertise that we have gained from more than three million climate control products and solutions sold worldwide.

Global reach

The Dantherm Group is headquartered in Skive, Denmark and has an own market presence in Norway, Sweden, United Kingdom, Germany, Switzerland, Italy, Spain, Poland, Russia, China and United Arab Emirates.

In 2016 the Dantherm Group was acquired by the Swedish equity fund Procuritas Capital Investors V LP – a strong owner with the ambition to continue the development and growth of the company.

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Dantherm®

 **MASTER®**
CLIMATE SOLUTIONS

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