

Rail & Vehicles





RAIL APPLICATIONS

Perfect locomotive driver's cab conditions ensure the comfort of the driver and therefore optimal conditions for safe operation. Perfect temperature control in passenger cars ensures satisfied travellers, improving passenger revenue. We care about their comfort.



MOBILE CIVIL APPLICATIONS

Sensitive technical equipment often has to cope with extreme requirements, as do the operating staff. We create and maintain perfect ambient working conditions for both personnel and machine.



MOBILE MILITARY APPLICATIONS

Safety first – this applies especially for military vehicles. Reliability and effectiveness of all systems in harsh environmental conditions are both crucial. With our experience, we offer a valuable contribution to this vital safety requirement.



SERVICE

Spare parts, maintenance, repair – worldwide our experienced technicians provide all the necessary service for your system in the shortest possible reaction times. We are where you are.

Get the Technology

Comfort, whether it be for people or machinery, we can provide you with first-class technology and high performance customised solutions to suit your specific demands. You provide the vehicle and we provide the perfect inside conditions.

Noske-Kaeser stands for experience, reliability and quality. Being one of the market leaders in the fields of air-conditioning, refrigeration, piping and fire fighting systems, we offer customised systems as well as a broad range of standard components and modules.

In addition to rail passenger cars, locomotives and special purpose vehicles, Noske-Kaeser also provides equipment for civil and military armoured vehicles as well as containers and shelters for special applications.

Noske-Kaeser equipment and engineering excellence is proven globally via an extensive list of references for rail vehicles, special purpose vehicles as well as all sectors of the shipbuilding industry.

With very specialised expertise and knowledge accumulated over 130 years, the company owns numerous patents and is a pioneer in developing sophisticated technology.

Our systems and installations have proven themselves under the toughest operating conditions and meet the highest safety and quality requirements.

We co-operate with universities and research institutes on national and international projects on a regular basis. This includes the testing of environment-friendly materials as well as improving the efficiency of our installations.

Noske-Kaeser operates a comprehensive global sales and service network, providing local customer support at all stages of a project: design, prototyping, environmental and performance type testing, through to manufacturing, supply, installation, commissioning and after-sales support.



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HVAC condenser fans

Noske-Kaeser has extensive experience in coping with a wide range of environmental and operational conditions. Whether it is the extreme heat of the Western Australian desert, mid-winter in northern Germany or the phenomenally high-speed conditions experienced on the Transrapid Maglev train in Shanghai – our engineers can adapt our technologies to provide cost-effective, reliable heating and cooling for your application.

We provide HVAC equipment and systems for trams and suburban railcars, regional train railcars, high-speed trains, carriages and locomotive drivers' cabs. Systems include self-contained roof-mounted units, underfloor units, split systems and wall-mount vertical configuration equipment.



Compressor/Condenser for air-conditioning unit

Your advantages:

- Compact design for best adaptation to space envelope available
- Good accessibility for maintenance and repair
- Low weight and low operational noise
- Economic and environmentally friendly operation
- Corrosion resistant construction
- Independent PLC control or linked to central locomotive control
- Compliance to national regulations and standards

REFERENCES



Stadler Tram Basel equipped with air-conditioning



Downer EDI Rail Standard gauge locomotive in Australia fitted with air-conditioning

■ MOBILE CIVIL APPLICATIONS

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Evaporator unit



Compressor unit

Noske-Kaeser is continuously increasing its expertise in providing systems and equipment for special purpose vehicles such as broadcast vans, calibration and medical vehicles, van carriers, mobile environmental measuring units as well as containers for living or working.

We work closely in co-operation with our customers who, in turn, benefit from our long-term experience as together we develop the specific performance requirements of the system, for example systems with cooling capacities of up to 200 kW or higher.

One very special capability that we offer is the ability to provide air-conditioning systems with integrated NBC protection filters. These can be mounted on external covers.

Your advantages:

- Broad range of standard units ready for customizing
- Easy to install and easy to handle due to compact design
- Very low operational noise level
- Shock and vibration proof units
- Extremely low-maintenance operation
- High reliability even under extreme climatic conditions



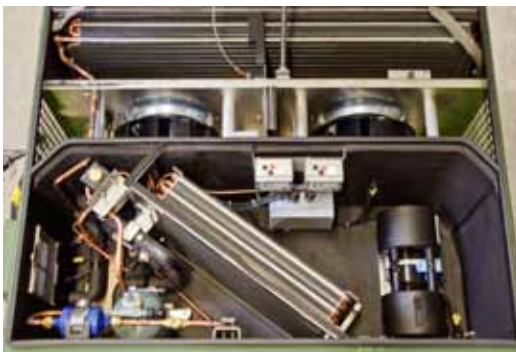
Broadcast van equipped with split air-conditioning units



Container with chilling units for use in desert area

MOBILE MILITARY APPLICATIONS

Safety first – this applies especially for military vehicles. Reliability and effectiveness of all systems in rough environments is crucial. With our experience, we offer a valuable contribution to this vital safety requirement.



Standard air cooling unit

In addition to the expertise Noske-Kaeser offers in air-conditioning and refrigeration, we also specialise in NBC protection and fire-fighting. For military applications, all systems have to operate reliably all over the world in all climate zones. Our systems have a robust and modular design, are ready for retrofitting and can operate in silent mode.

We work closely in co-operation with our customers, who in turn, benefit from our long-term experience as together we develop the specific performance requirements of the system.

Noske-Kaeser designs and builds systems to comply with the very special shock and vibration requirements for military vehicles. We recognise that it is essential that the quality of the supplied protective air is retained in order to protect the lives of the occupants.



Air-conditioning unit for shelter

Your advantages:

- Combined air-conditioning and NBC protection systems
- Modular design adapting to installation space available (suitable for retrofit and conversion)
- Worldwide usage in all climate zones
- Low weight and very low operational noise
- Shock, vibration and EMC proof
- Compliance with national and international military standards



Military vehicle "Wiesel 2" with NBC protection



Naval Rescue Center (MERZ) of German naval vessel "Berlin" equipped with combined AC/ NBC units

■ SERVICE

Spare parts, maintenance, repair – worldwide our experienced technicians provide all the necessary service for your system in the shortest possible reaction times. We are where you are.

Noske-Kaeser is committed to supporting our equipment throughout its whole operational life. This includes all facets of through-life-support such as scheduled and unscheduled maintenance, spare parts, repair, overhaul, conversion, retrofit or call-out service.

Clean air in constantly changing climates and maximised operational availability of the systems are the convincing results. Our customers such as the German Armed Forces rely on our support, even in crisis regions all over the world.



Commissioning of locomotive driver's cab AC unit

Noske-Kaeser is certified for meeting various European, international and national standards for the use of greenhouse gases in air-conditioning and refrigeration systems.

We offer solutions for converting equipment and substituting new environmentally friendly refrigerants into existing systems to comply with new legal and environmental legislation.

Your advantages:

- Global OEM spare parts supply
- Worldwide network of service technicians
- Remote diagnosis
- Overhauls, conversions, retrofits, repairs
- Regular preventative maintenance
- Customised long-term service contracts
- Customer and operator training
- Service also for other manufacturer's installations



Cleaning of chilled water circuit



Inspection of refrigerant circuit

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- Air Conditioning
 - Refrigeration
 - Fire Fighting
 - NBC Protection
 - Piping
 - Service

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