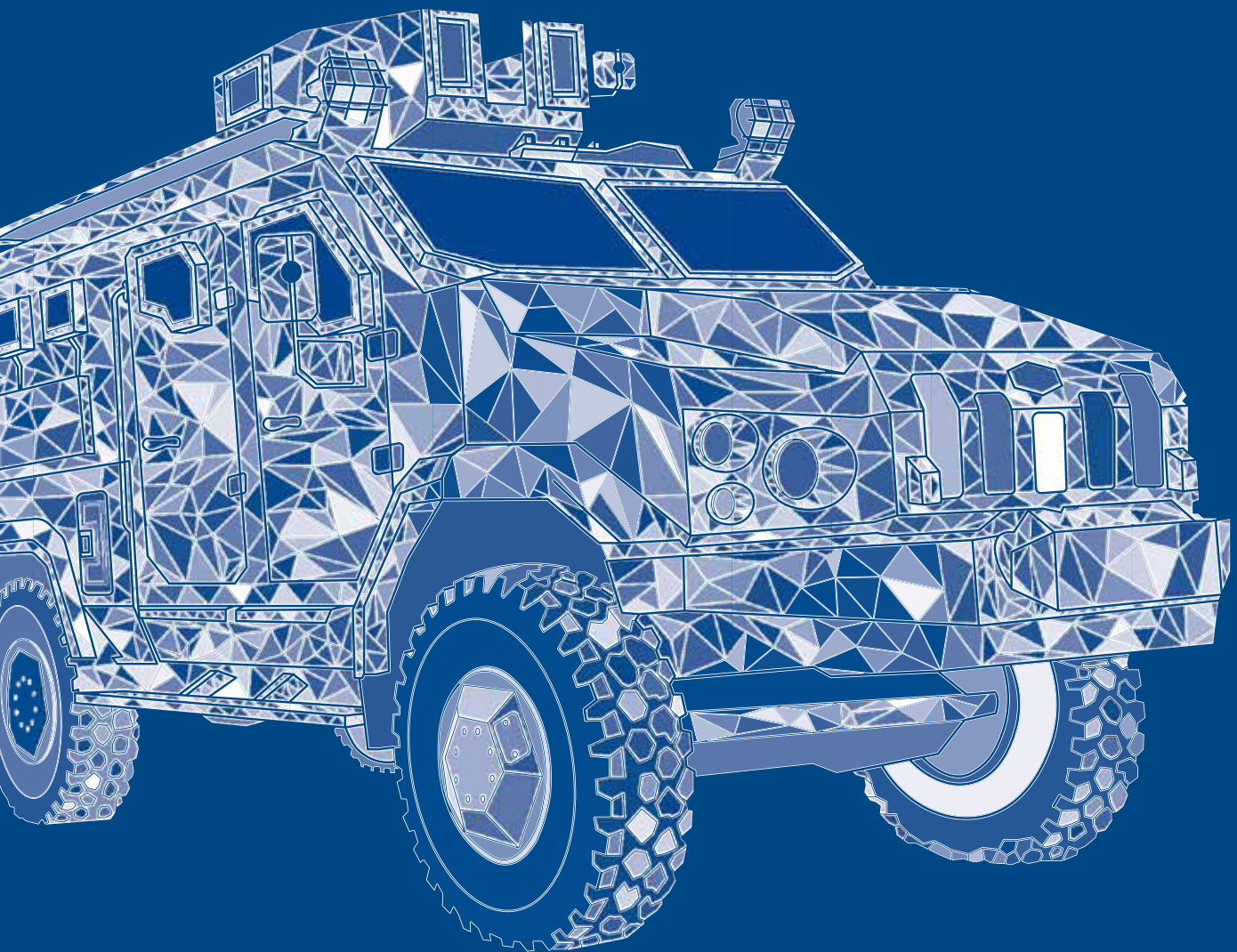


# DEFENCE HVAC SOLUTIONS

FOR VEHICLE & DEPLOYABLE HEALTH SHELTER



**Tomahawk**  
Industries Ltd.



**KNORR-BREMSE**



**SIGMA**

BUILT FOR THE TOUGHEST AIR CONDITIONS

# ABOUT SIGMA

## A KNORR-BREMSE GROUP COMPANY

SIGMA Air conditioning is part of the Knorr- Bremse Group, based in Munich Germany, the world's leading provider of system solutions for rail and commercial vehicles.

SIGMA Air Conditioning is a leading global company in the development of bespoke Heavy Duty HVAC Systems for the Rail, Mining, Industrial and Defence markets and an OEM supplier to global brands. With over 50 years of experience in specialised HVAC solution, our products are designed & engineered in Australia for global deployment.

For more information on the full range of SIGMA products, including access to your own electronic copy of the SIGMA HVAC Spare Parts Catalogue, go to [www.sigma-hvac.com](http://www.sigma-hvac.com). If you need additional hard copies of the new sigma catalogue email [mid.aus@sigma-hvac.com](mailto:mid.aus@sigma-hvac.com) or call your local SIGMA Sales representative.



Granville Facility, NSW Australia

## PRODUCTION & TESTING

Australian Industry Capability (AIC)  
Australian designed, engineered validated, assembled and service ready for global deployment

### THE AMERICA'S

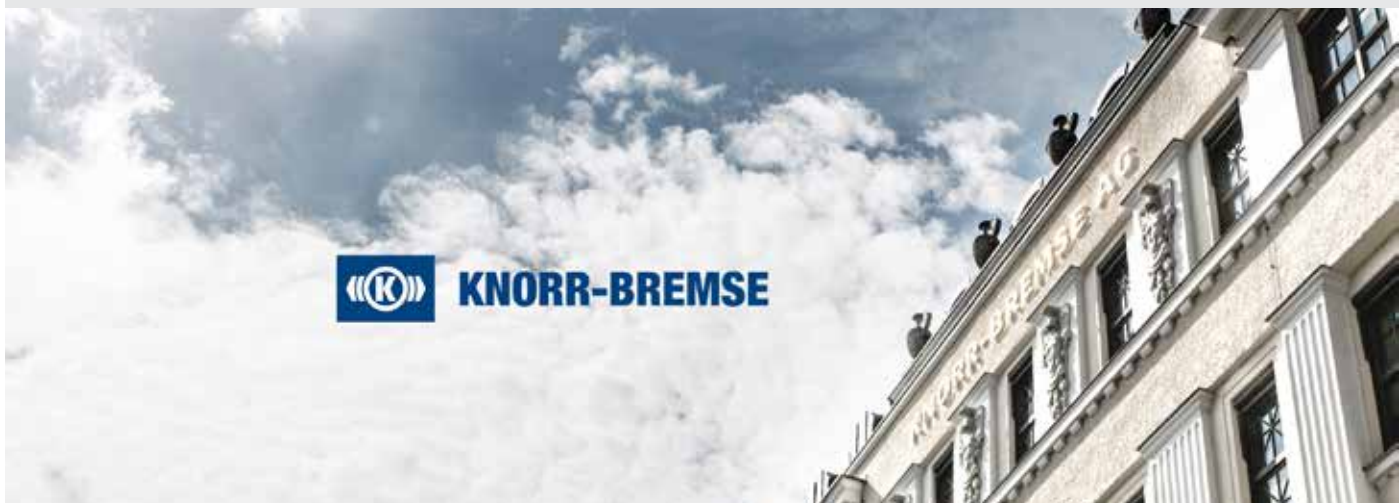
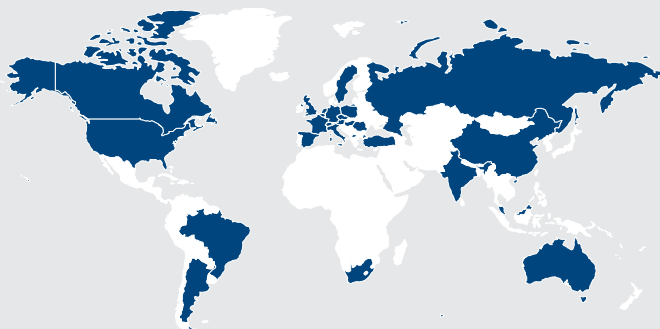
- Argentina
- Brazil
- Canada
- Mexico
- USA

### EUROPE / AFRICA / MIDDLE EAST

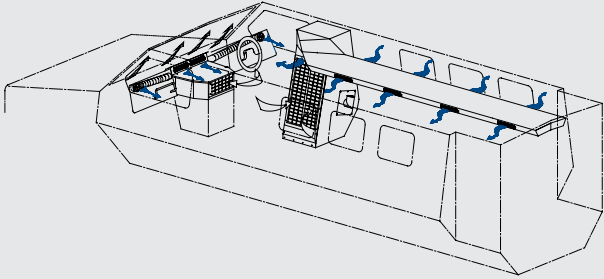
- Austria
- Belgium
- Czech Republic
- Germany
- France
- Hungary
- Italy
- Macedonia
- Netherlands
- Poland
- Romania
- Russia
- Spain
- Sweden
- Switzerland
- South Africa
- Turkey
- United Kingdom

### ASIA / PACIFIC

- Australia
- China
- India
- Japan
- Kazakhstan
- Singapore
- South Korea



# DEFENCE SOLUTIONS

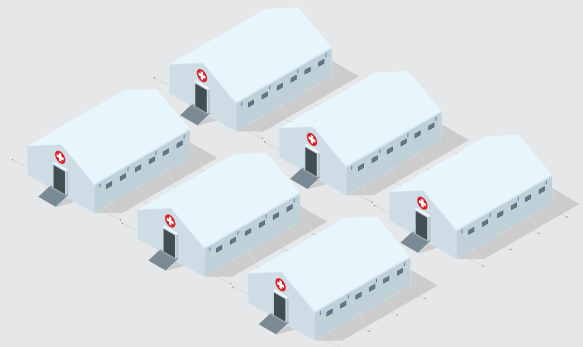


## VEHICLE

SIGMA DMV14 system offers custom designed multi evaporator, high ambient, off-road dynamic vehicle air conditioning. The system offers robust and compact design to meet the requirements of Australian Army Specification 6292. Providing a total 14kW cooling capacity, this system comes complete with a fresh air pressuriser and filter to produce temperature controlled, positive pressure and dust free occupied space.

## DEPLOYABLE HEALTH INFRASTRUCTURE

Sigma provides purposed built HVAC solutions for field hospitals and temporary deployable health infrastructure. Customised to any specifications with local support capabilities globally.



## DC SOLUTIONS

Silent watch is becoming an increasingly important combat vehicle application and to address this requirement, Sigma offers its second generation Anti Idle system called Simplified Anti idle. This system is designed to draw power from an auxiliary power source, negating the need for the main power source/engine to be turned on providing comfortable clean ambient conditions for the occupants with minimum acoustic and infrared signature.



## MILITARY SPECIFICATIONS

The equipment incorporates integrated high efficiency filtration modules to ensure suitability for field hospitals, operating theatres and inter-connected pre and post operating facilities. Conformance to Military specification allows the nominal capacity equipment to be adapted to virtually any application or configuration desirable and is easily identified by their allocated NATO part numbers.

## BENEFITS

- High ambient operation capabilities
- Designed to Australian Army Defence Standards 6292
- Stainless Steel structure
- Heavy Duty Application
- Local designs, Global support

## OPTIONS

- Gaseous contamination air purification
- Corrosion protection on heat exchanger
- HEPA filtration system
- Custom OE solutions



# PRODUCTS



## DPW6 Wall Mounted HVAC Package

<b>COOLING</b>	6kW
<b>HEATING</b>	4KW
<b>AIR FLOW</b>	230 l/s
<b>POWER SUPPLY</b>	415 VAC 3Ph
<b>DIMENSIONS</b>	960 x 660 x 410 mm
<b>WEIGHT</b>	150 kgs

## HCF6 Anti Idle HVAC Package



<b>COOLING</b> (Remote off-engine compressor)	5 kW
<b>COOLING</b> (Integrated DC Compressor)	3.6kW
<b>AIR FLOW</b>	670 l/s
<b>POWER SUPPLY</b>	24 VDC
<b>DIMENSIONS</b>	752 x 429 x 480mm
<b>WEIGHT</b>	60 kgs

## DMV14



## DFE4BX1 Console Evaporator

<b>COOLING</b>	4kW
<b>HEATING</b>	4KW
<b>AIR FLOW</b>	150 l/s
<b>POWER SUPPLY</b>	24 VDC
<b>DIMENSIONS</b>	568 x 557 x 268 mm
<b>WEIGHT</b>	19 kgs



## DFW10BX2 Rear Evaporator

<b>COOLING</b>	10kW
<b>HEATING</b>	10 kW
<b>AIR FLOW</b>	440 l/s
<b>POWER SUPPLY</b>	24 VDC
<b>DIMENSIONS</b>	433 x 682 x 1110 mm
<b>WEIGHT</b>	55 kgs



DPW6 for movable shelter truck



DMV14 for Bushmaster



DMV4 for Unimog



DPF18MS1 for Field Hospital

## KNORR BREMSE AUSTRALIA Pty Ltd

Incorporating SIGMA Air Conditioning

23 – 29 Factory Street

Granville NSW 2142

Australia

**Customer service:** 1300 643 643

(+61) 2 8863 6500

**Email:** mid.aus@sigma-hvac.com

WWW.SIGMA-HVAC.COM

### Australia:

Factory St, Granville, Sydney, Australia

Boundary Road, Darra, Brisbane, Australia

Enterprise Street, Paget, Mackay, Australia

Colin Jamieson Drive Welshpool, Australia



**SIGMA**

AUTHORISED SIGMA DEALER



**Tomahawk**  
Industries Ltd.

#8, 55 Alberta Ave Spruce Grove,  
Alberta T7X 3B1 CANADA  
Ph (780)-948-9955  
parts@tomahawkkind.ca  
[www.tomahawkkind.ca](http://www.tomahawkkind.ca)



