



NOSKE RAIL

**Celebrating over 20 years of
experience delivering successful
HVAC and refrigeration outcomes
in the rail industry**

Noske Rail keeps you running.





Your customers are what matters to us

We create high-quality rail and tram HVAC and refrigeration products designed to provide comfort to your customers and ensure reliable product delivery for your business.

Local design, manufacture, and support

Australian-owned, all our products are designed and made in New Zealand and Australia. With in-house design capability, including a temperature-controlled thermal test chamber, our products are manufactured to deliver superior performance in the demanding environmental conditions of our rugged geographies. Our locally based service technicians are on hand when you need them for technical support, overhauls and maintenance.

Experience you can rely on

We've been delivering successful HVAC and refrigeration outcomes in the rail industry since 2000. Recognised with multiple manufacturing and export awards, you can trust Noske Rail to support you through the entire process. From initial concept through to design, manufacture, delivery, and support, we're there for you throughout the life of your equipment.

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Our History

Initially established in 1993 to provide the New Zealand/Australian presence for a European company to support the localisation programme for a major defence project in the marine sector, Noske-Kaesar New Zealand was incorporated as a wholly New Zealand entity in 1997.

Winning our first Rail HVAC contract in 2000, we quickly grew to become a major provider of new build HVAC equipment for passenger trains and locomotives in the Australian market, building a wealth of experience, especially in high ambient temperature environments.

In 2003, we established an Australian subsidiary with overhaul/maintenance capability to support our customers, first in Victoria and then in Western Australia. Adopting a brand-agnostic approach, our overhaul/maintenance operations are now a significant part of our business.

In 2015, we separated from the marine company, and our focus turned 100% to the rail market; our name changed to Noske-Kaesar Rail and Vehicle. In 2021, the KYR Group purchased Noske-Kaesar Rail and Vehicle and amalgamated the company with Coachair's rail division to form Noske Rail.

The KYR Group owns and operates a number of companies in the mass transit, industrial and engineering markets. Its brands have long and proud heritages, along with leading products provided in partnership with major offshore OEM's.



Timeline

1993

Noske-Kaeser New Zealand office established in Palmerston North

2002

First locomotive driver's cab HVAC contract won

2006

Company merged with New Zealand manufacturing partner

2015

Separated from marine division and renamed Noske-Kaeser Rail & Vehicle

2000

First passenger train HVAC contract won

2003

Australian subsidiary established

2013

New Zealand head office moved new facility and implemented lean manufacturing processes

2021

New ownership as Noske-Kaeser Rail & Vehicle joins the KYR Group and amalgamated with Coachair's rail division to form Noske Rail



Key Facts and Figures

- Manufacturing facility in Palmerston North, New Zealand
- Australian overhaul/maintenance facilities in Victoria, Queensland, New South Wales and Western Australia
- In-house design capability
- Dedicated 35m² temperature-controlled thermal test chamber
- Fully implemented lean manufacturing systems
- Global supply chain
- Over 1,500 HVAC units supplied
- Over 1,350 HVAC units overhauled
- Recipient of multiple manufacturing and export awards

Our Values

Our values reflect our belief that as we strive to be recognised as a market leader, our people are key to our success, whether they are our own staff, customers, end users or suppliers. A strong long-term company history going back several decades and a focused after-sales philosophy means that we are committed to supporting you for the lifetime of the equipment with dedicated service centres and collaboration partners wherever our equipment operates.

Extraordinary performance

Everything we do is geared to build KYR Group into an extraordinary business delivering extraordinary outcomes for all stakeholders.

Safety focused

We will not do anything that compromises the safety of employees, customers, suppliers, or other stakeholders.

Customer focused

We provide value-for-money products and services and in full- and on-time delivery to specification, always mindful of helping customers deliver an outstanding experience to their customers.

Employee satisfaction focused

We empower our employees in a challenging and supportive working environment that enables them to grow and prosper.

Quality focused

Getting it right the first time, every time; without fail. Continuous improvement is our way of business.

Partnership

We work with and build relationships with all stakeholders to produce mutually beneficial outcomes.

Innovative

We strive to be recognised as a market-leading innovator.

Environmentally friendly and socially aware

We aim to reduce waste and act in a sustainable manner as a responsible member of the community.



**NOSKE
RAIL**

Business Sector

New Build

- Complete design, development, performance type-testing and manufacturing all under one roof.
- Standard products and bespoke designs
- Third-party contract manufacturing
- Lean manufacturing
- In-house fabrication, refrigeration pipework and electrical switchboard assembly

Recondition

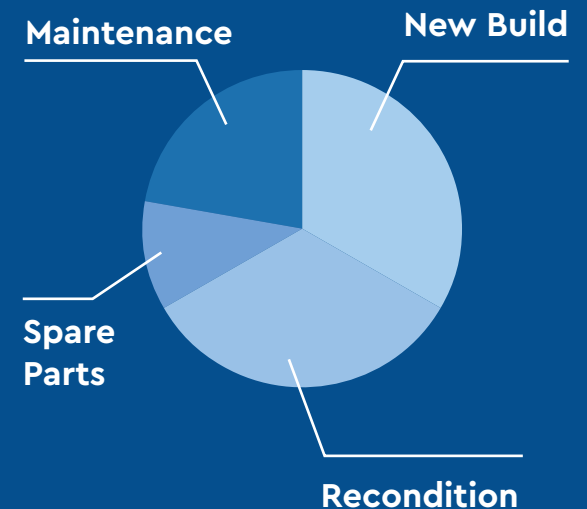
- Everything from minor and mid-life overhauls through to major upgrades, life extension and full re-manufacturing
- Brand agnostic
- Five Australian overhaul locations in VIC, QLD, NSW and WA
- Baseline testing and performance improvement
- Technology upgrades
- Refrigerant changes

Spare Parts

- Parts supply
- Technical support
- Parts management
- Obsolescence management and configuration control

Maintenance

- Scheduled maintenance and repairs
- Brand agnostic
- In our facilities or at your location
- Call-out service
- Long-term maintenance/support agreements



Products & solutions

On-condition monitoring and analysis utilising AI



On-car testing and airflow balancing



Saloon air distribution ducting design



Catering car refrigeration systems



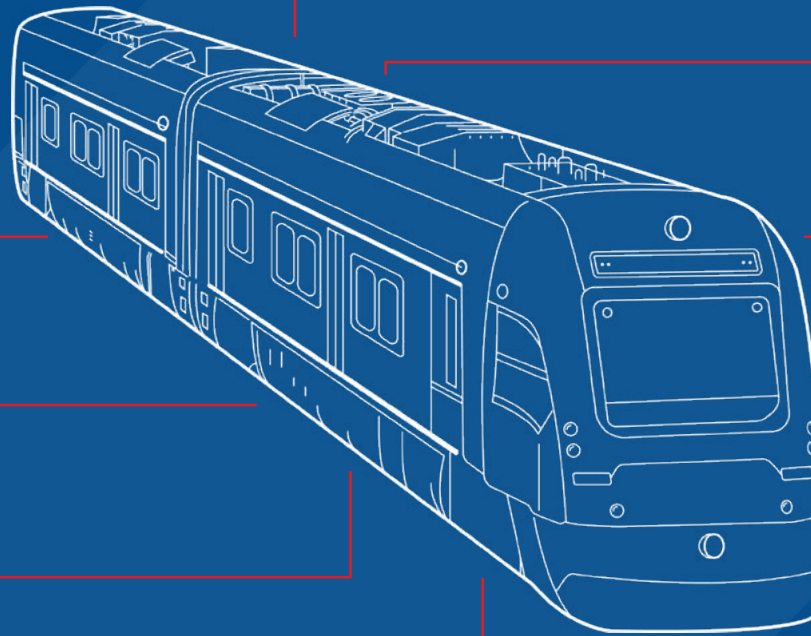
Split system saloon HVAC condensing units



Anti-graffiti film



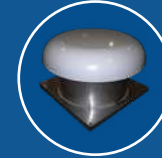
Potable water coolers & hot water system heaters



Teknoware internal panels, interior and exterior lighting



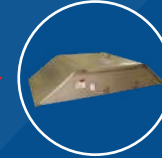
Toilet cubicle extraction fans



Self-contained saloon HVAC units



Driver's cab HVAC units



Driver's cab air distribution system design



Driver's cab foot heaters





Products & solutions

We have built a wealth of experience designing, manufacturing, maintaining and reconditioning HVAC and refrigeration equipment for passenger trains and locomotives operating in extreme environmental conditions.

From the very high ambient temperatures of Australia, the United States and North Africa, to New Zealand's southern alps and the extreme cold of Northern Europe, our products perform reliably and consistently.

Product Examples



RHKA 8-1C/1 Driver's cab HVAC

Customer	Wabtec Transportation
Platform	PH37 EURO
Area of operation	Europe wide
Cooling capacity	7.4 kW
Heating capacity	6.0 kW
Total air flow	1440 m ³ /h
Length / Width / Height	1270 / 2235 / 455 mm
Weight	350 kg
Power supply	74 Vdc (integrated inverter)



RHKA 7-1C/1 Driver's cab HVAC

Customer	Progress Rail
Platform	GT46C
Area of operation	Australia
Cooling capacity	7.0 kW
Heating capacity	4.0 kW
Total air flow	1170 m ³ /h
Length / Width / Height	1490 / 1621 / 288 mm
Weight	230 kg
Power supply	72 Vdc (dedicated outboard inverter)



VHKA 8-1D/1 Driver's cab HVAC

Customer	Downer (EMD Platform)
Platform	JT42C
Area of operation	Weipa, QLD Australia
Cooling capacity	8.0 kW
Heating capacity	4.0 kW
Total air flow	1440 m ³ /h
Length / Width / Height	500 / 800 / 2260 mm
Weight	314 kg
Power supply	74 Vdc (integrated inverter)

Product Examples



UHKA 8-1D/1 Driver's cab HVAC

Customer	Wabtec Transportation
Platform	EVO
Area of operation	USA
Cooling capacity	8.8 kW
Heating capacity	11.3 kW
Total air flow	1440 m ³ /h
Length / Width / Height	1540 / 1220 / 636 mm
Weight	560 kg
Power supply	74 Vdc (integrated inverter)



RHKA 8-1C/3 Driver's cab HVAC

Customer	Downer (EMD Platform)
Platform	GT46 ACe
Area of operation	Australia
Cooling capacity	7.5 kW
Heating capacity	4.0 kW
Total air flow	1170 m ³ /h
Length / Width / Height	1640 / 1540 / 390 mm
Weight	340 kg
Power supply	74 Vdc (dedicated outboard inverter)



RKA 7.8-ID/I Driver's cab VAC

Customer	Progress Rail
Platform	JT42CWRM
Area of operation	Egypt
Cooling capacity	7.8 kW
Heating capacity	Cooling only
Total air flow	1050 m ³ /h
Length / Width / Height	1330 / 1140 / 500 mm
Weight	228 kg
Power supply	74 Vdc (integrated inverter)

Product Examples



RHKA 44-2B/1 Saloon HVAC

Customer	Alstom
Platform	VLocity DMU
Area of operation	Melbourne, VIC Australia
Cooling capacity	44.0 kW
Heating capacity	22.0 kW
Total air flow	6714 m ³ /h
Length / Width / Height	4430 / 1680 / 540 mm
Weight	954 kg
Power supply	415 Vac 50 Hz 3 ph



RHKA 56-2B/1 Saloon HVAC

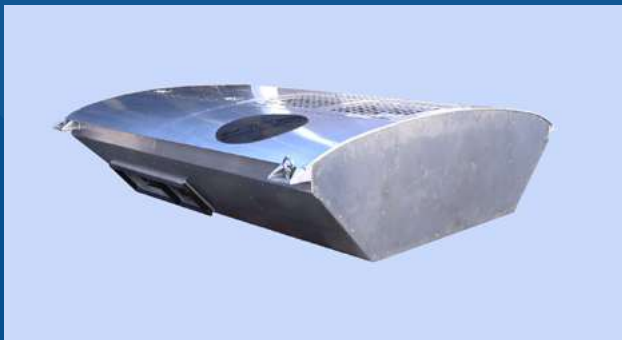
Customer	Downer
Platform	Perth 'B' Series EMU
Area of operation	Perth, WA Australia
Cooling capacity	56.0 kW
Heating capacity	24.0 kW
Total air flow	8350 m ³ /h
Length / Width / Height	4880 / 2000 / 470 mm
Weight	1340 kg
Power supply	415 Vac 50 Hz 3 ph



UHKC 25-2D/1 Saloon

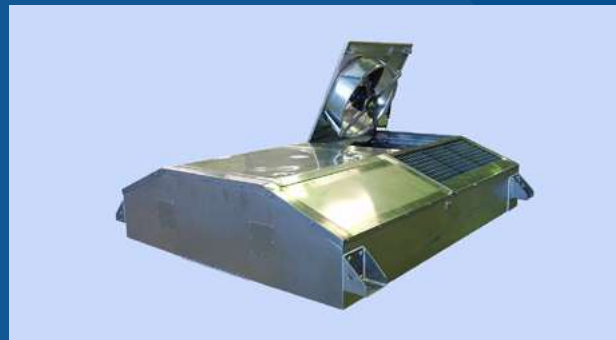
Customer	KiwiRail
Platform	AK and AKC Cars
Area of operation	New Zealand
Cooling capacity	25.0 kW
Heating capacity	16.0 kW
Total air flow	4608 m ³ /h
Length / Width / Height	2499 / 1850 / 500 mm
Weight	664 kg
Power supply	400 Vac 50 Hz 3ph

Product Examples



RHKA 28-2D/1 Saloon HVAC

Customer	UGL Rail
Platform	Prospector / Avonlink
Area of operation	Perth, WA Australia
Cooling capacity	28.0 kW
Heating capacity	12.0 kW
Total air flow	4492 m ³ /h
Length / Width / Height	1640 / 1540 / 390 mm
Weight	660 kg
Power supply	415 Vac 50 Hz 3 ph



RHKA 25-1B/1 Saloon HVAC

Customer	UGL Rail
Platform	J-Sets (Hunter Railcars)
Area of operation	Newcastle, NSW Australia
Cooling capacity	25.0 kW
Heating capacity	12.0 kW
Total air flow	3852 m ³ /h
Length / Width / Height	2500 / 2000 / 585 mm
Weight	690 kg
Power supply	415 Vac 50 Hz 3 ph



VHKB 4.2-1D/1 Catering trolley cooler

Customer	Downer
Platform	Queensland Tilt Train
Area of operation	Queensland, Australia
Cooling capacity	4.2 kW
Total air flow	792 m ³ /h
Length / Width / Height	882 / 587 / 857 mm
Weight	154 kg
Power supply	230 Vac 50 Hz 1 ph

Product Examples



DHK-1 2/1 Driver's cab foot heater

Customer	Alstom
Platform	VLocity DMU
Area of operation	Melbourne, VIC Australia
Heating capacity	1.0 kW (high) 0.5 kW (low)
Total air flow	65 m ³ /h
Length / Width / Height	256 / 587 / 632 mm
Weight	12 kg
Power supply	240 Vac 50 Hz 1 ph



RHKG 6-1P/2 Driver's cab chilled-water HVAC unit

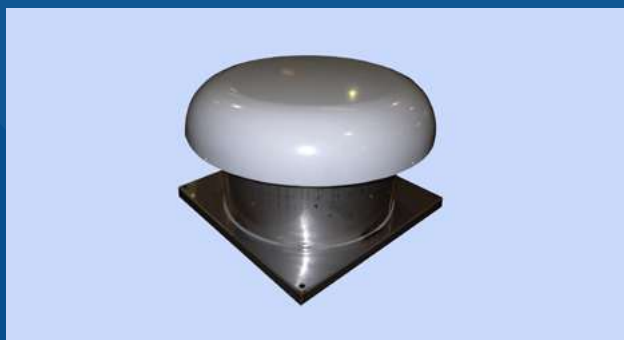
Customer	Downer
Platform	Perth 'B' Series EMU
Area of operation	Perth, WA Australia
Cooling capacity	5.0 kW
Heating capacity	2.0 kW
Total air flow	2000 m ³ /h
Length / Width / Height	1075 / 1060 / 355 mm
Weight	140 kg
Power supply	415 Vac 50 Hz 3ph



RKA 7.2-1E/1 Driver's cab retrofit VAC unit

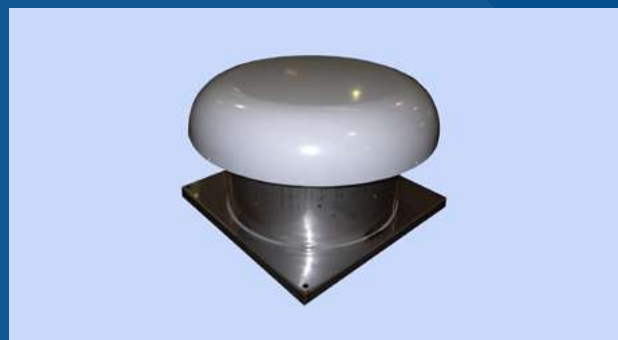
Customer	Standard product
Platform	Locomotive retrofit
Cooling capacity	7.2 kW
Heating capacity	N/A
Total air flow	1500 m ³ /h
Length / Width / Height	1219 / 1016 / 278 mm
Weight	128 kg
Power supply	72Vdc (brushless dc compressor and fans)

Product Examples



Emergency fresh air fan dc powered

Customer	Standard product
Platform	Passenger car
Total air flow	864 m ³ /h
External static pressure	110 Pa
Length / Width / Height	460 / 460 / 260 mm
Weight	8.6 kg
Power supply	24 Vdc



Toilet extract fan ac powered

Customer	Standard product
Platform	Passenger car
Total air flow	200 m ³ /h
External static pressure	80 Pa
Length / Width / Height	460 / 460 / 225 mm
Weight	8.6 kg
Power supply	230 Vac 50 Hz 1 ph



Drinking water cooling unit

Customer	Alstom
Platform	VLocity DMU
Area of operation	Melbourne, VIC Australia
Cooling temperature	10°C
Water tank capacity	2 litres
Water flow rate	26 litres per hour
Length / Width / Height	782 / 650 / 327 mm
Weight	53 kg
Power supply	240 Vac 50 Hz 1 ph

R&D Test Centre

Thermal test chamber

- 35m² temperature-controlled climatic thermal test chamber
- Baseline performance testing
- Cooling capacity testing
- Heating capacity testing
- Extreme high ambient temperature testing
- Low ambient temperature testing
- Airflow performance testing



Other facilities

- Power consumption testing
- Ducting mock-up testing
- Complete car saloon/cab mock-up testing
- Key component endurance testing



External

We work with external laboratories for:

- EMI/EMC testing
- Shock and vibration testing
- Air filter performance testing
- Finite element analysis (FEA)





Quality

Our Total Quality Management System is certified according to the standard AS / NZS ISO 9001:2015 and is regularly audited by our internal quality team and external certifier BVQI.

All refrigeration systems are designed and manufactured in accordance with AS/NZS 5149.

All electrical systems are designed, manufactured, and tested in accordance with AS/NZS 3000 and IEC 61133, where applicable.

All welding is carried out to various international standards depending on specific customer requirements.

All production units are 100% tested according to our standard factory release testing procedures.

Each unit is tracked via a unique serial number, which is tracked via factory release test documentation.



Customers

We are proud to work alongside many organisations across the rail industry. Some of our customers include:





NOSKE RAIL

MELBOURNE

Factory 3
7 Raleigh Street
Spotswood
VIC 3015, Australia

PERTH

201 Hester Ave
Nowergup Maintenance
Facility, Merriwa
WA 6030, Australia

NEW ZEALAND

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