Refrigeration Equipment
Product Overview
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Heatcraft is your leading manufacturing and wholesale distribution business servicing the needs of the HVAC & Refrigeration industry across Australia. Heatcraft has a strong local heritage and presence while being supported by leading global supply partners. Our business offers the broadest and most complete range of Refrigeration & HVAC Equipment, Refrigerant and Parts and our customers are supported by a national branch wholesale network and comprehensive technical expertise.

We have a national and international network of account managers and field engineers dedicated to help drive our customers businesses.
Heatcraft exclusively distributes leading and trusted brands to ensure we have all your refrigeration and air-conditioning needs covered:

- A global leader in advanced, smart residential and commercial HVAC systems for over 120 years
- Innovative equipment that optimises energy efficiency, cost of ownership and ease of installation
- Our Lennox manufacturing centres in the U.S, France and Spain are among the most advanced research centres in the HVAC industry

In addition, our wholesale branch network carries world class leading brands that bring years of operational excellence to the HVAC&R industry. Supply partners such as Emerson Climate Technologies, ebm-papst, Danfoss, MM Kembla, Henry Technologies, Hanbell, CPS, Ziehl-Abegg, Dixell, Dorin, Fieldpiece and Schneider Electric provide unsurpassed value, convenience and confidence for our customers.

- A Total Gas Management System supported by a first class, zero emissions Gas2Go decanting and blending facility at Milperra, NSW
- A full product lifecycle service, including cylinder filling from 9kg to 850kg for commissioning large plants, sample analysis and refrigerant reclaim

- An affordable range of products for when price is the determining factor
- Specifically designed for the HVAC&R industry to meet the stringent demands of your service and install projects
- Manufactured using durable materials and backed by Heatcraft

- A state-of-the-art online resource centre to help you manage your account and streamline the way you do business
- Industry leading project tools help take the guess work out of project estimations
- Easy access to product and price information
- The ability to order online for overnight pick up or delivery

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Racks

**eCOBoost CO₂ Transcritical Rack**

*Application range; Low temperature – Up to 100kW  
Medium Temperature – Up to 300kW*

- This all natural primary refrigerant system is the ultimate solution for sustainable refrigeration system design. It provides an HFC-free refrigeration solution whilst delivering significant lifecycle cost savings
- Efficiency can be optimised using parallel compression and ejector technology
- Modular footprint design allows ease of customisation and installation

**Sub-critical CO₂ Rack**

*Application range; Low Temperature 12kW – 41kW  
Medium/High Temperature from 40kW – 300kW*

- Digital capacity control on Copeland Scroll™ (lead compressor only)
- Capacity regulation through VSD option on Dorin semi-hermetic compressors
- Optional pre-wired switchboard and control configuration available
- Optional rack mounted auxiliary cooling unit and economiser (de-super heater)

Note: The compressor sub-frame reduces noise and vibration

**Traditional Multi-Compressor Rack**

*Application range; Low Temperature 32kW – 132kW  
Medium/High Temperature from 40kW – 300kW*

- All components are engineered for optimal performance in full and part load conditions
- Compressors with 4, 6 or 8 cylinders can be capacity regulated via cylinder unloading or VSD
- TraxOil control with isolating valves to a high efficiency oil separator
- Integral control system and wiring are optional time saving features

Note: Copeland compressor models feature the intelligent CoreSense™ Diagnostic & Communication Compressor Module (E2 Network capability)
Specialty Multi-Compressor Rack

Application range; Low Temperature 32kW – 132kW
Medium/High Temperature from 40kW – 300kW

- Split headers and custom connections can be configured on specialty rack systems
- The integral switchboard/control solution can be coupled with VSD, cylinder unloading or digital capacity regulation
- Parallel components, sub-cooling and bypass assemblies can be configured
- Water cooled condenser configuration available

Note: Specialty racks are fully configured to customer specification and verified by the Heatcraft engineering team for suitable application.

Screw Compressor Basic Unit Pack

Application range; Low Temperature 15kW – 65kW
Medium/High Temperature from 45kW – 400kW

- All components are engineered and selected with full and part load operation considered
- The screw compressors offer capacity control or can be suitably connected to a VSD for system capacity control
- Optional pre-wired rack components, system control & compressor safety circuits

Note: The Screw Packs featuring system wiring are supplied with a pre-configured Dixell® rack control, with programming completed by the Heatcraft engineering team for suitable application.

Compact Multi-Compressor Rack

Application range; Low Temperature 11kW – 67kW
Medium/High Temperature from 28kW – 159kW

- Suited to all HFC refrigerants – R134a, R407F, R404A plus others
- Fully insulated suction header and suction filter shell with isolating valve
- Durable, lightweight powder coated frame (mechanically assembled)
- Discharge vibration eliminators connected to a common discharge header. Oil separator and reservoir with TraxOil level control

Note: The compact footprint allows optimal configuration with a remote condenser and liquid receiver combination.
Racks

**eCompact CO₂ Condensing Unit**

**Application range; Low temperature 3kW – 10kW**

- Cascade CO₂ system offering low GWP and improved energy efficiency
- Low noise and compact footprint offers the benefit of flexibility in unit location
- Available with Copeland Scroll™ Digital compressor or Dorin semi-hermetic compressor fitted with inverter drive, offering optimum capacity control

**Multiwave Cascade CO₂/HFC System**

**Application range: Low temperature 10kW – 35kW**

- “Ready-to-install” range with refrigeration control and electrical components combined within a common frame
- State-of-the-art design including the latest Copeland Scroll Digital™ compressors or Dorin semi-hermetic compressors fitted with inverter drive
- Compact footprint for increased flexibility in installation location

**Integrated Switchboard System**

**Application; Available on all Kirby Racks**

- Optimised switchboard is factory fitted with electronics and complete rack wiring and shipped in a “ready-to-run” configuration, thereby reducing installation and commissioning time
- Fully customisable to meet all types of applications and budgets
- Designed to meet the relevant Australian/New Zealand standards
Indoor Units

Nullarbor Condensing Unit

Application range; Low Temperature 0.3kW – 2.2kW
Medium/High Temperature 0.4kW – 4.7kW

- Condensers selections provide assured operation at 45°C ambient and enhance the life of the compressor
- WJ/AW series include liquid line drier, sight glass and HP/LP control for express installation
- Low ambient unit models available for application in colder climates
- Selected unit models are provided complete with a condensate waste tray and discharge heat loop for efficient condensate waste removal

Note: End users save money on power consumption through the increased condenser capacity. The compressors run more efficiently with lower condensing pressures and higher C.O.P’s.

Commander Blue High Ambient Condensing Unit

Application range; Low Temperature 2.6kW – 11.5kW
Medium/High Temperature 4.6 kW – 24.4kW

- Installation costs are reduced on models with the liquid line drier, sight glass and solenoid all standard inclusions
- Proven hermetic compressors with high efficiency models chosen (where applicable)
- Condensers rated for 46°C ambient temperatures for optimum performance
- Low ambient model also available

Note: The high-ambient design provides energy saving benefits (lower running costs) per degree lower ambient year round.

Commander Condensing Unit

Application range; Low Temperature 0.8kW – 16.8kW
Medium/High Temperature 1.9 kW – 32.7kW

- Optimised coil design provided. Enhanced heat transfer and increased compressor performance, reliability and reduced unitary life cycle costs
- Ease of installation and service through fully featured unit configuration
- Reduced operating noise levels through design and compressor/condenser engineering
- Optional high efficiency configurations feature EC motors and/or a fully wired and programmed VSD

Note: High efficiency configuration featuring EC motors and/or a fully wired and programmed VSD on semi-hermetic units are available providing energy saving benefits to the end user.
Basic Units

Semi-Hermetic 2 Cylinder

Application range; Low Temperature 0.6kW – 5.6kW
Medium/High Temperature 1.6kW – 13.9kW

- Low noise, minimal vibration and a compact footprint with reduced operational weight provides installers the benefit of flexibility in unit location
- Compact footprint with reduced operational weight
- Pressure control, liquid line drier, sight glass and solenoid are standard feature inclusions
- Reduced installation time a key benefits for the contractor
- Water cooled condenser options available

Note: Integral watercooled configuration available to provide application close coupling (distributed application) for refrigerant reduction

Semi-Hermetic 4 & 6 Cylinder

Application range; Low Temperature 6kW – 37kW
Medium/High Temperature from 14kW – 96kW

- Compact footprint and reduced installation time are key benefits
- High performance Copeland Stream and Dorin compressors available through the range
- Leading performance, efficiency, durability and quiet operation
- Factory fitted wiring and programmed control systems with optional Digital or VSD control available
- Water cooled condenser options available

Note: Copeland compressor models feature the intelligent CoreSense™ Diagnostic & Communication Compressor Module (E2 Network capability)
Outdoor Units

Polar Pack Condensing Unit

Application range; Low Temperature 0.5kW – 4.5kW
Medium/High Temperature 1.3kW – 8.5kW

- Range includes semi-hermetic (PPS) & hermetic (PPH) compressors
- Fully pre-wired including condenser fan speed control as well as motor and phase failure protection
- The package supports fast installation, express commissioning and easy servicing
- Kirby Blue Kote Protection to condenser coil

Note: Condenser fan speed control is standard and controlled by condensing pressure. Select units can be supplied in horizontal airflow configuration allowing flexibility in installation location.

Titan Condensing Unit

Application range; Low Temperature 3.5kW – 14.9kW
Medium/High Temperature 9.6kW – 32kW

- Range includes semi-hermetic (PPS) & hermetic (PPH) compressors
- Fully pre-wired including condenser fan speed control plus motor and phase failure protection (fan speed controlled by condensing pressures)
- Kirby Blue Kote Protection to condenser coil
- Compressor unloading or integral VSD capacity control options available on semi-hermetic units

Note: The range features an optional integral high efficiency configuration; including EC motors and/or a fully wired and programmed VSD. Integral control packages (network capabilities) are another key feature.

Centurion Condensing Unit

Application range; Low Temperature 11kW – 32kW
Medium/High Temperature 12kW – 41kW

- Perfect unit to replace aging central plant equipment for both HVAC&R
- Packages can be configured with integral control (network capabilities)
- The Centurion platform provides application on all HFC Refrigerants R134a through to R410A

Note: High efficiency configurations featuring EC motors and/or a fully wired and programmed VSD are available providing energy savings of up to 23%.
Fridgebox™ Microchannel Condensing Unit

Application range; Low Temperature 1.5kW – 5.1kW (no suction accumulator) Medium/High Temperature from 3.4kW – 9.7kW

- Hypercore™ microchannel condenser technology (allows reduced refrigerant charge)
- Copeland ZB scroll compressors
- Pre-wired to include optimised condenser fan speed control (high side pressure reference)
- Accessible services connection points and removable service access panels

Note: The Fridgebox™ compact package supports fast installation and optimal service access

Digital Scroll Fridgebox™ Condensing Unit

Application range; Medium Temperature 4.2kW – 12.9kW

- Latest generation Copeland ZB Scroll Digital™ compressors offer capacity modulation from 20% - 100%, perfectly matching demand whilst maximising system efficiency
- High efficiency Hypercore™ microchannel condenser coil technology generation boosts efficiency and reduces the required refrigerant charge to limit environmental impact
- Fully pre-wired including Dixell® XC controller ensures optimal performance
Drop-In Units

Drop-In Packaged Refrigeration Units

Application range; Low Temperature 840W – 2.2kW
Medium/High Temperature from 810W – 3.5kW

- Pre-configured control circuit in a slimline, pre-wired electrical box
- Evaporator coil corrosion protection to medium temp low profile units
- Low temperature units feature real time electric defrost with temperature switch termination
- Medium temperature units feature off cycle defrost

Note: All units are factory run tested and arrive supplied pre-charged with refrigerant for express installation
Evaporators

Cabinet Coolers

Application range; Low Temperature 0.5kW – 4.2kW*
Medium/High Temperature from 0.3kW – 5.2kW*

- Removable, discreet drain tray (housing) which is easily removed for cleaning and service
- Heat exchanger with rifled bore tubing for high performance and exceptional oil return (KC & KCT Series)
- The hinged fan panel offers total access to all elements including; coil, fan, defrost heater and connections (MH Series)
- Glycol application available

Note: The Cabinet and Reach In coolers are optimised for performance to ensure the footprint of the unit remains compact. The low profile design increases shelf and retail display space. *MH Reach In Series.

TA Evaporator

Application range; Medium/High Temperature from 4kW – 16kW

- High efficiency coil includes corrugated aluminium fins and grooved internal copper tubes, low velocity air discharge
- Intelligent housing design and drainage offers for superior drainage and hygienic performance
- The hinged drain pan offers improved accessibility to all the components and the housing is designed to accommodate installation of a condensate pump
- Glycol application available

Note: The casing with integrated fan guards offers improved aesthetics, perfect for open food preparation areas

9000 Series Evaporator

Application range; Low Temperature 1.2kW – 13.6kW
Medium/High Temperature from 1.3kW – 19.8kW

- The front facing quick connect terminal board simplifies wiring for faster install and servicing
- Face heaters allow easy access for maintenance/replacement
- Extended model and capacity range with low frost, heater assisted defrost and EC fan configuration models available
- Separate panels for refrigeration/electrical connections (opp. ends)
- CO2 coil circuiting part of the 9000 Series (KLC/KMC)
- Glycol application models available

Note: The simple two speed EC fan motor provides users a guaranteed payback with easy maintenance
**3C-A CO₂ Evaporator**

Application range; Low temperature 1.1kW – 25kW  
Medium temperature 1.2kW – 27kW

- Designed for transcritical or high pressure CO₂ applications (60 Bar)
- High efficiency EC fans offer lower energy consumption and longer service life
- Easy, removable side panels and articulated drain pans offer fast and easy access to the coil, fans, defrost heaters and connections
- Eurovent certified performance

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**Heavy Duty Evaporator**

Application range; Low Temperature 9kW – 38kW  
Medium/High Temperature 11kW – 53kW

- Ultimate reliability supported by a design that provides simplified installation and improved serviceability
- Reversible drain tray to simplify installation
- Flexible enhanced application range with interchangeable orifice design to optimise performance in various conditions/applications
- Heaters fitted as standard on medium temperature units
- Water Defrost range available

Note: Ensured longevity and reliable ongoing performance with quality pre-wired three phase fan motors

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**NK Heavy Commercial Industrial Unit Cooler**

Application range; Low Temperature 18kW – 68kW  
Medium/High Temperature 20kW – 110kW

- Three phase fans are available in 630mm and 800mm
- The pre-painted galvanised steel casing offers a high resistance to corrosion and impact damage
- High-efficiency H type fins provide optimal heat exchange for the coil footprint
- Fin spacing options of 6 FPI, 4 FPI or 3 FPI (4, 6, 9 mm)

Note: Glycol circuiting available as an option to complement the Lennox Neosys Chiller available through Heatcraft Australia
KRC Remote Condenser

Application range; R404A 0.8kW – 17kW @ 1KTD
R134a 0.7kW – 16kW @ 1KTD

- Optimised coil design incorporating inner grooved tube for enhanced heat transfer
- Kirby Blue Koted fins for optimal UV protection and corrosion resistance
- Header clearance holes ensure the end/divider plates prevent premature fatigue, failure and/or leaks
- Powder coated galvanised casing for extended life
- Dry cooler application available

Note: The KRC condenser has been designed to accommodate the high pressure refrigerants like R410A and other fluids

WRC Remote Condenser

Application range; R404A 11kW – 61kW @ 1KTD
R134a 10kW – 57kW @ 1KTD

- Fan configurations include EC, 6 Pole, 8 Pole, 800mm and 910mm
- AxiTop® models feature high performance ebm-papst HyBlade® EC Axial fan motors and AxiTop® Diffuser
- All fan motors are factory wired to a junction box for ease of installation
- Units can be installed in Vertical or Horizontal fan configuration
- Floating coil technology & rifle bore tube for improved reliability and performance
- Kirby Blue Kote fin protection supplied as standard
- Dry cooler application available

Note: Guaranteed longevity and performance through the enhanced coil surface to airflow ratio
HyBlade® and AxiTop® are registered trademarks of ebm-papst Mulfingen GmbH & Co. KG

CXW Condenser

Application range; R134a 7kW - 39kW @ 1KTD
R404A 8kW - 40kW @ 1KTD

- Compact modular V-shaped copper tube / aluminium fin coil design and the latest generation of high efficiency EC fans makes it the perfect package
- The unique sound wall and motor design gives up to 10dB(A) sound reduction in the horizontal plane
- Ideal choice for commercial applications when space and efficiency is the priority
MXW EC Condenser

Application range; R404A 22kW – 112kW @ 1KTD
R134a 21kW – 104kW @ 1KTD

- EC fans are offered as standard and run more efficiently due to lower static
- The modular configuration provides the option to incorporate multiple refrigerant circuits in a singular condenser, which reduces installation time and space requirements
- 75% reduction in refrigerant operating charge compared to traditional coil designs
- See also the NRG flatbed microchannel condensers with application range R404A 6kW - 26kW @ 1KTD
  R134a 6kW - 24kW @ 1KTD

Note: Coil surface fouling is minimised and does not lose surface effectivity resulting in lifetime performance that is far superior to conventional coils (minimal heat exchange losses)

Our OEM product features optional integrated control and wiring solutions incorporating Emerson, Dixell & Danfoss refrigeration system and energy management controllers
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<td>Laboratory</td>
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<td>Restaurants – Café’s</td>
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<td>Clubs – Pubs</td>
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<td>Sports &amp; Recreational Centres</td>
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<tr>
<td>Catering Preparation &amp; Storage</td>
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<tr>
<td>General Entertainment – Land</td>
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<td>Institutional</td>
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<td>Hospitals/Healthcare Equipment</td>
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<td>Aged Care – Catering &amp; Equipment</td>
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<tr>
<td>Educational – Training Fixtures &amp; Equipment</td>
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<tr>
<td>Government Agencies - Facilities Equipment &amp; Storage</td>
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<tr>
<td>HVAC</td>
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<td>Air Conditioning Equipment</td>
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<td>Work Room Conditioning</td>
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<tr>
<td>Speciality Component Cooling (Dry Rooms – Switch Gear)</td>
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</tr>
</tbody>
</table>
## TITAN CONDENSING UNIT

- 4kW - 16kW
- 1.2kW - 19.8kW
- 1.1kW - 27kW

## CENTURION CONDENSING UNIT

- 9kW - 53kW
- 18kW - 110kW
- 0.8kW - 3.5kW

## FRIDGEBOX MICROCHANNEL CONDENSING UNIT

- 1.5kW - 9.7kW
- 4.2kW - 12.9kW
- 840W - 3.5kW

## DIGITAL SCROLL FRIDGEBOX CONDENSING UNIT

- 4kW - 16kW
- 1.2kW - 19.8kW
- 1.1kW - 27kW

## DROP-IN PACKAGED REFRIGERATION UNIT

- 9kW - 53kW
- 18kW - 110kW
- 0.8kW - 3.5kW

## CABINET EVAPORATOR

- TA EVAPORATOR
- 9000 SERIES EVAPORATOR
- 3C-A CO2 EVAPORATOR

## HEAVY DUTY UNIT COOLER

- NK HEAVY COMMERCIAL INDUSTRIAL UNIT COOLER
- KRC REMOTE AIR COOLED CONDENSER
- WRC REMOTE AIR COOLED CONDENSER

## CXW CONDENSER

- MXW EC MICRO CHANNEL REMOTE AIR COOLED CONDENSER

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### Nominal Capacity Range
- 3.5kW - 32kW
- 11kW - 41kW
- 1.5kW - 9.7kW
- 4.2kW - 12.9kW
- 840W - 3.5kW
- 0.5kW - 5.2kW
- 4kW - 16kW
- 1.2kW - 19.8kW
- 1.1kW - 27kW
- 9kW - 53kW
- 18kW - 110kW
- 0.8kW - 3.5kW
- 11kW - 61kW
- 22kW - 112kW
- 22kW - 112kW

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### Applications
- Retail
  - Supermarket
  - Convenience Stores
  - Fast Food
  - Mixed Business
  - Liquor
  - Meat-Poultry – Dairy
  - Seafood
  - Cakes, Confectionery, Bakery
  - Speciality Refrigerated Storage & Display

- Cold Storage
  - Industrial – Commercial
  - Bulk General Products Distribution Storage Facility
  - Bulk Holding Storage – Long – short Term
  - General Coolrooms & Appliances
  - Multipurpose Temperature Controlled
  - Fresh Farmed & Processed Products Wet/Dry
  - High & Low Volume Storage
  - Speciality Liquids & Solids

- Industry
  - Light - Heavy
  - Industrial Process Cooling & Heating
  - Food Preparation – Processing & Packaging
  - Speciality Materials & Goods Conditioning
  - Pharmaceutical
  - Fishing Boat
  - Laboratory

- Hospitality
  - Restaurants – Café’s
  - Clubs – Pubs
  - Sports & Recreational Centres
  - Catering Preparation & Storage
  - General Entertainment – Land
  - General Entertainment – Sea & Rail

- Institutional
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  - Speciality Component Cooling (Dry Rooms – Switch Gear)

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### Speciality Component Cooling

- Speciality Component Cooling (Dry Rooms – Switch Gear) •
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