HVAC Product Overview 2018
One of the most extensive range of solutions for any HVAC application

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Your HVAC&R Business Partner

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 support.

We have a national network of account managers and field engineers dedicated to help drive our customer’s businesses.

Lennox is a leading global name in climate control solutions. The Lennox range offers a solution for any HVAC application and includes residential air conditioners, furnaces and heat pumps, plus commercial packaged units, air handling systems, chillers, comfort controls and indoor air quality systems.

All Lennox equipment is designed to optimise energy efficiency, cost of ownership and ease of installation.

With over 120 years of manufacturing history you can purchase Lennox with confidence that we are continually providing innovative, quality products and services.
Heatcraft exclusively distributes leading and trusted brands to ensure we have all your refrigeration and air-conditioning needs covered:

• 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

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.

Kirby

• Respected for its toughness, efficiency and reliability for over 90 years
• An unsurpassed range of precisely engineered refrigeration solutions
• Maximises system efficiency through advanced compressor technologies and integrated control solutions

InterLink

• 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

Gas2Go®

• 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

SmartAccess

• 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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Wall Split Systems - Inverter
Inverter 2 to 8kW

DC Inverter technology
- Minimised energy consumption
- Fast and reliable performance
- Quieter operation

Outdoor Unit
- Inverter driven compressor
- Slim line and unobtrusive outdoor unit
- Anti-corrosion Condenser Fins for longer life and improved performance

Active Carbon Filter

Demand Response Enabled Device (DRED)

Even Air Distribution
Air distribution is improved by directing air horizontally during cooling and downwards in heating.

Controls
- Easy to use remote control
- Auto-restart Function
- Turbo Mode for faster cooling and heating
- Sleep Mode

New model available Spring 2018
Window Wall

Fixed Speed 2 to 6kW

Ease of retrofit
- Ideal replacement solution

Controls
- Digital Display
- Easy to use remote control
- Auto-restart Function
- Sleep Mode
Multi Split Systems

Inverter 5 to 14kW

Controls
- Each wall split and mini-cassette unit is supplied with an easy to use remote control
- Slimline ducted with wired controllers
- Auto-restart Function
- Turbo Mode for faster cooling and heating
- Sleep Mode

Indoor Units
- Connect up to 5 indoor units per outdoor unit
- Wall Split systems
- Mini-cassettes
- Low static ducted

Outdoor Unit
- Inverter driven compressor
- Slim line and unobtrusive outdoor unit
- Space saving option for new or retrofit installations
- Anti-corrosion condenser fins for longer life and improved performance

Even Air Distribution
Air distribution is improved by directing air horizontally during cooling and downwards in heating.

Multi Split Systems

Inverter 5 to 12kW

New model available Spring 2018

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- Each wall split and mini-cassette unit is supplied with an easy to use remote control
- Slimline ducted with wired controllers
- Auto-restart Function
- Turbo Mode for faster cooling and heating
- Sleep Mode

Indoor Units
- Connect up to 5 indoor units per outdoor unit
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Outdoor Unit
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- Space saving option for new or retrofit installations
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Even Air Distribution
Air distribution is improved by directing air horizontally during cooling and downwards in heating.
Ducted Split Systems

Inverter 7 to 26kW

Outdoor Unit
- Inverter driven compressor
- Slim line and unobtrusive outdoor unit
- Anti-corrosion condenser fins for longer life and improved performance

LCD Wall Control
- Easy to use
- Programmable

DC Inverter technology
- Minimises energy consumption
- Faster and reliable performance
- Quieter operation

Inverter 7 to 23kW
New model available Spring 2018

Outdoor Unit
- Inverter driven compressor
- Slim line and unobtrusive outdoor unit
- Anti-corrosion condenser fins for longer life and improved performance

LCD Wall Control
- Easy to use
- Programmable

DC Inverter technology
- Minimises energy consumption
- Faster and reliable performance
- Quieter operation
Cassette Split Systems
Inverter 7 to 14kW
New model available Spring 2018

Outdoor Unit
• Inverter driven compressor
• Slim line and unobtrusive outdoor unit
• Anti-corrosion Condenser Fins for longer life and improved performance

Remote Controller
• Easy to use
• Programmable

Indoor Unit
• Low profile cassette panel

DC Inverter technology
• Minimises energy consumption
• Faster and reliable performance
• Quieter operation

Lennox Duralok Plus® Heat Exchanger Assembly
• Heat exchanger design delivers maximum efficiency and minimises resistance to airflow.

Combustion Air Inducer
• Shaded pole heavy duty blower pre-purges heat exchanger and safely vents flue products
• Pressure switch proves blower operation before allowing gas valve to open
• Operates only during heating cycle
• Combustion Air Inducer can be rotated to suit ideal flue outlet location

Flame Rollout Switches
• 2 factory fitted manual reset switches provides protection from abnormal operating conditions

Gas Control Valve
• 24V redundant combination
• Combines manual shut off valve, gas control valve, automatic electric valve (dual) and gas pressure regulation

Integrated Control Solid-state Board
• Contains controls and relays to operate furnace
• Self diagnostic fault code display, three most recent faults in memory even after power disruption

SureLight® Hot Surface Mini-Nitride Ignitor
• Unique, high-strength proprietary ceramic material provides long life and trouble-free maintenance
• Fast heat-up with low power usage
• Cemented to alumina block for positive mounting and protection against current leakage

Inshot Burners
• Aluminised steel inshot burners provide efficient, trouble-free operation
• Burner venturi optimises air/gas mixture for better combustion
• Removable burner assembly for ease of service

Multi-speed direct drive blower
• Statically and dynamically balanced

Cassettes

Gas Furnaces

ML180
Mid efficiency gas furnace 15.5 to 31.5kW

Gas Furnaces

Compact heavy gauge cabinet.
• Install in up flow, horizontal left and horizontal right applications without any internal modifications to the unit
• Approved for installation with cabinet in contact with timber frame and service panel ie no requirement for fireproof shielding

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Outdoor Condensing Units

Add-on Cooling TSA
Condensing Unit 17-21kW

- Low profile design
  - Ideal for rooftop installation

- Copper Tube/Enhanced Fin Coil
  - High performance heat exchanger design. Entire coil is accessible for cleaning

- Coil Guard
  - PVC coated steel wire coil guard protects the unit from the elements

- Condenser Fan
  - Direct drive fan moves large air volumes uniformly through entire condenser coil for better cooling
  - Vertical air discharge for more effective heat removal. Ideal for boundary fences
  - Louvered steel top fan guard with removable panel for easy service

- Scroll Compressor
  - Long lasting, reliable operation
  - High Pressure Safety Switch safeguards compressor during extreme operating conditions

- Service Access
  - Located on corner of unit.
  - Allows for left or right hand connections of refrigerant lines and power supply

LCS Series 4
Condensing Unit 17kW

- Controls
  - Optional ComfortSense 7500, 7000 and 3000 are all compatible with the LCS Series 4

- Outdoor Unit
  - Inverter driven compressor
  - Slim line and unobtrusive outdoor unit
  - Connect to Lennox® and other brands of gas furnaces

Compatible with most gas furnaces
Aqualean
Super Low Profile 2 to 3kW

Filter
Washable air filters with filter rails for easy maintenance

Rotary Compressor
Inbuilt thermal protection

Evaporator

Low Profile Height
Ideal for small ceiling spaces

Water Exchanger
Coaxial heat exchanger

High Efficiency
EC Fan
• Quieter operation
• Automatic Mode for variable airflow

Aqualean
Standard Profile 7 to 20kW

Filter
Washable air filters with filter rails for easy maintenance

Scroll Compressor
Inbuilt thermal protection

Evaporator

Water Exchanger
Plate heat exchanger

3 Speed
Centrifugal Fan

Electronic Expansion Valve
Improved refrigeration control
Multiscroll Compressors
- Long lasting, reliable operation and electronic expansion valves

Low Noise Option
- Quieter condenser fan
- Compressor jackets
- Fully equipped with acoustic isolation in the refrigeration box.

Intelligent fresh air management:
- With accurate percentage of fresh air the dampers are regularly calibrated to introduce just the required amount of fresh air in the building to reduce annual energy consumption. The fresh air ratio can also be controlled using the indoor CO₂ level as an input.

Variable Speed Drive
- Airflow reduction during part load operation and dead zone
- Very high efficiency EC technology fan motor
- Power factor correction to reduce current
- Soft starter to limit inrush current during start-up
- Easy airflow adjustment during commissioning
- Easy communication and service with eFlow airflow management

Axial fans with swept blades Low Noise Option
- Quieter condenser fan
- Compressor jackets
- Fully equipped with acoustic isolation in the refrigeration box

Advanced multi-scroll refrigeration circuit
- High efficiency refrigeration circuits
- Multiscroll R410A compressors
- Optimised heat exchange area
- Electronic expansion valves

Climatic controller
- Designed for high efficiency, reliable operation
- User Friendly interface
- Advanced control features: advanced compressor management; dynamic defrost; intelligent fresh air management; variable speed drive fan management with airflow measurement
- Extended communication capability: Master/Slave, ModBus and BACnet RS485 or TCP-IP, LonWorks
- Full text fault display and history

R-Flex
Rooftop Packaged Unit 20 to 85kW

Flex Air
Rooftop Packaged Unit 85 to 230kW

Multiscroll compressor technology for best load performance year round
- R410A refrigerant for best efficiency
- Electronic expansion valves for optimum control in all conditions
- Optimised heat exchanger surface area to boost system energy

Variable Speed Drive
- Airflow reduction during part load operation and dead zone
- Very high efficiency EC technology fan motor
- Power factor correction to reduce current
- Soft starter to limit inrush current during start-up
- Easy airflow adjustment during commissioning
- Easy communication and service with eFlow airflow management

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Ecolean™
Air Cooled Chiller
Cooling only 20 to 200kW, Heat pump 20 to 200kW

Water Circuit
- Water flow switch
- Water filter
- Integrated Hydraulic module with single pump and all necessary hydraulic devices (HY version)
- Integrated Hydraulic module with single pump, buffer tank and all necessary hydraulic devices (HN version)
- Optional twin pump
- Optional variable speed pump
- Reduce energy consumption by 15%

Climatic 60 control
- Scheduling with 4 time zones per 24 hours
- PID control of the leaving water temperature with automatic compressor balancing time
- Water set-point offset based on outside air temperature
- Noise level management:
  - Performance/Quiet/ Quiet++ Mode
  - Advanced control algorithm to allow unit operation without buffer tank in most comfort air conditioning applications
- Water pump control with operating time equalization and automatic change-over in case of a pump fault (Dual pump option)
- Variable water flow control (Constant delta T or P)
- Master/slave or cascade control of 2,3 or 4 chillers operating in parallel with operating time equalization and automatic change-over in case of a unit fault

High Efficiency Condenser Fans
Standard version:
- Next generation OWLET™ high performance aluminium fan blades of the latest generation
- Two speed axial fans 700/550 rpm or 900/700 rpm according to models, direct coupling, with available static pressure up to 75 Pa

High static option version:
- Two speed axial fans 1450/900 rpm, with available static pressure up to 250 Pa

Optimised Refrigeration Circuit
- Thermostatic expansion (TX) valve for improved efficiency and refrigerant control
- Filter drier
- High-pressure switch/Low-pressure switch with automatic reset
- Suction piping with thermal insulation
- Temperature sensors and pressure transducers
- Four-way valve and liquid receiver (heat pump units only)

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- Master/slave or cascade control of 2,3 or 4 chillers operating in parallel with operating time equalization and automatic change-over in case of a unit fault
**Neosys™**

**Air Cooled Chiller**

Cooling only 200 to 1000kW, Heat pump 200 to 500kW

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**Refrigerant Circuit**

NEOSYS uses R410A refrigerant in 2 independent circuits (minimum). Each circuit includes:
- A refrigerant charge reduced by 30% due to the use of R410A combined with micro channel heat exchanger (NAC/Cooling only version)
- Suction piping with thermal insulation
- Filter drier with removable cartridge filter
- Thermostatic or electronic expansion valve (Electronic device only when “winter operation” option selected)
- Temperature sensors and pressure transducers
- Four-way valve and liquid receiver (heat pump units only)

**Condenser Heat exchanger**

- High efficiency aluminium Micro Channel heat exchangers (MCHX) with improved corrosion resistance in moderate marine or urban environment (cooling only version)
- Standard copper tubes/aluminium fins heat exchanger (heat pump version)
- V-coil design to protect the unit against climatic conditions (e.g. hail)

**Climatic Controller**

- 4 scheduling time zones per day over 7 days to optimise energy consumption and sound level management
- PI control of the water temperature with operating time equalization of the compressors
- Water set-point offset based on outdoor air temperature
- Active variable speed control of all fans to optimize and energy efficiency at full- and partload and sound level management
- Intelligent advanced control algorithm to protect the compressors
- Dynamic defrost cycle
- Automatic compressor unloading in case of excessive condensing pressure allowing the operation of the machine at high outdoor air temperature
- Master/slave or cascade control of two chillers operating in parallel with operating time equalization and automatic change-over in case of a unit fault

**Quiet performance**

- Unique design with compressors, pumps and fans sound-attenuating enclosure to reduce radiated noise emissions
- Variable speed driven fans using external rotor technology
- Elimination of intrusive fan start/stop noise
- Active Acoustic Attenuation System™ to meet changing building load requirements while automatically adjusting the air flow to meet night and day sound level constraints

**Condenser Fans**

- OWLET™ high performance aluminium fan blades of the latest generation
- Two-speed axial fans 700/550 rpm or 900/700 rpm according to models, direct coupling, with available static pressure up to 75 Pa
- Noiseless ceramic bearings

**Complete hydraulic module**

- Single or twin, low or high pressure pump (options)
- Includes equipment for quick connection: pump(s) regulating valve, expansion tank vessel with pressure gauge, pressure tapping points, water filter, air vent pressure relief valve and Victaulic connections

**Flat top, aesthetic grilles, low unit height (<2m)**

- Discrete installation on a roof reducing the requirement of costly cladding solutions around the unit

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- High efficiency aluminium Micro Channel heat exchangers (MCHX) with improved corrosion resistance in moderate marine or urban environment (cooling only version)
- Standard copper tubes/aluminium fins heat exchanger (heat pump version)
- V-coil design to protect the unit against climatic conditions (e.g. hail)
Conserving and optimising energy consumption
- High energy ratio at part load and full load (EER/COP/ESEER)
- Simultaneous or independent demands for heating and cooling
- Constantly balanced heating and cooling needs to obtain maximum Total Efficiency Ratio - TER*
- 100% heat recovery at any conditions
- Advanced Programmable control with a local display
- Winter cooling operation down to -15°C ambient
- Heating operation down to -10°C ambient with 45°C outlet water temperature
- Heat recovery or production of hot water temperature from 25°C to 55°C
- High ambient operating up to 45°C

Quieter unit
- 8 dB(A) noise level reduction vs traditional heat pump in standard
- Jump to -12dB(A) noise level reduction with low noise version
- Innovative hybrid structure of fan blades
- Unique sound proof cabinet enclosing all components to reduce radiated sound levels

Defrost without impacting comfort
- Hydrophilic treatment on coil
- Dynamic control on defrost
- Circuits defrost completely independently

Standard Equipment
- R410A refrigerant
- Two independent refrigerant circuits
- High efficiency scroll compressors mounted in a closed technical box
- High efficiency brazed plate heat exchangers insulated
- Thermostatic expansion valves
- Axial fans with innovative hybrid structure of blades
- Speed variation on ventilation, modulation phase cut out
- Copper tubes and aluminum fins coils with hydrophilic coating
- Grooved water connections ( Victaulic type)
- Advanced control programmable pCO1 with local interface

Options and Accessories
- Power factor Correction
- Soft starter
- Pressure gauges LP / HP
- Rubber anti-vibration mounts
- Spring anti-vibration mounts
- Water Y filters (x2)
- EC condenser fans
- Bacnet or modbus communication
- Remote display
- Buffer tank 200 to 765 litres

Advanced programmable control with local interface
- Display
- Scheduling
- Defrost system independent of each circuit
- Water set-point offset based on outdoor air temperature.
- Operating time equalisation of the compressors and pumps
- Master/Slave or cascade control
Air Handling Unit

Integrated Rotary Hybrid Wheel
• Transfer sensitive (temperature) and latent (humidity) heat from the exhaust air to the supply air

High efficiency EC Indoor Fan
• Variable speed direct drive fan with eflow measurement and display for more accurate air flow control

Variable Speed EC Condenser fan
• eDrive direct transmission variable speed fan improves efficiency, performance.

Fresh Air & Free Cooling
• Automatic fresh air damper calibration with patented algorithm.
• Free cooling can introduce outside air into the building saving 15% on annual energy consumption

Indoor air quality
• Enthalpy control
• Filter options: G4+F7 high indoor air quality or G4+F7+F9 for optimum indoor air quality
• CO2 sensor

High Efficiency Refrigeration Circuit
• Tandem Scroll compressors for long lasting, reliable operation
• Electronic Expansion Valves for improved efficiency and refrigerant control.

Climatic 60 Controller
• Reduces energy consumption by optimising operation.
• Remote monitoring.
• Compatible with ModBus, LonWorks®, Bacnet.
• Service controller DS60 eliminates the need to access refrigerant pressure using gauges

eNeRGY
Heat Pump and Gas/Electric Packaged Unit 70 to 147kW
## Lennox HVAC Product Selector

<table>
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<th>NAME</th>
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<th>WINDOW WALL UNIT</th>
<th>DUCTED SPLIT SYSTEM</th>
<th>DUCTED SPLIT SYSTEM (NEW)</th>
<th>MULTI SPLIT SYSTEMS</th>
<th>MULTI SPLIT SYSTEMS (NEW)</th>
<th>GAS FURNACE</th>
<th>CONDENSING UNITS</th>
<th>WATER SOURCED PACKAGED UNITS - AQUALEAN</th>
<th>ROOFTOP PACKAGED UNIT</th>
<th>AIR HANDLING UNIT - eNeRGy</th>
<th>CHILLERS</th>
<th>ML180 - MID EFFICIENCY</th>
<th>ADD-ON COOLING TFA</th>
<th>LCS SERIES 4</th>
<th>FLEXAIR</th>
<th>R-FLEX</th>
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<tr>
<td>83 - 230kW</td>
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<tr>
<td>23.5 - 83kW</td>
<td>✔️</td>
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<tr>
<td>72 - 156kW</td>
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</table>

For each unit type, the table indicates the compatibility with different buildings and climate zones. The symbols (●) represent compatibility. Additional information includes typical capacity ranges for each unit type.
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