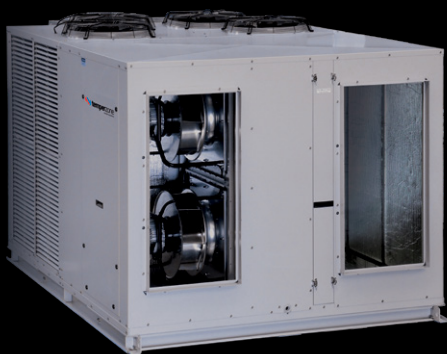




AIR COOLED

# Air Cooled Packaged Units



**temperzone**  
climate innovations





One of the most  
energy-efficient  
on the market

● Heating Capacity  
11.6kW - 193.0kW

● Cooling Capacity  
10.8kW - 213.0kW





# Over 65 Years of Industry Expertise

Temperzone is dedicated to pioneering innovative new technologies and creating market-leading, easy-to-use solutions that offer precision climate control.

Temperzone is ideally positioned to play a partnering role in your commercial projects and to ensure you select the right solutions for your needs. Because our systems are all designed, manufactured and supported using home-grown expertise, you can always rely on the convenience of ready availability and easily accessible application support.

## A Flexible Solution For Multiple Spaces

Combine a large commercial floor space and constantly changing cooling or heating loads and you will have a climate control challenge that temperzone's air cooled package units are designed to handle even in the extremes of summer and winter. The OPA (Air cooled package systems) range in capacity from 11.6kW to 193.0kW and offer a wide range of flexibility to meet most applications.



Supermarkets



Shopping Centres



Industrial Facilities



Laboratories



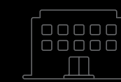
Museums and Community Halls



Schools and Universities



Restaurants, Pubs and Clubs



Office Buildings



Food Processing or Manufacturing Plants

## Our core strengths in New Zealand & Australia



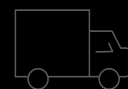
### Research & Development

Our design engineers develop local products, that provide innovative solutions designed for Australian and New Zealand conditions.



### Engineering

We aim to maximise performance by utilising our local team of engineers, who are able to provide the best solution for your applications.



### Logistics

We work closely with customers to ensure adequate stock is available and delivered when it is needed.



### Local Support

Our project engineers work with sales to make sure customers are getting the right product for the job.

# Features

ECO Packaged units  
(25.4kW - 55.6kW)

R410A



**Digital Compressor**

40-100% continuous modulation enables wide capacity range and provides better humidity control at low capacity.



**EC Plug Fan**

High static plug fans that can be externally controlled via 0~10VDC or BMS command



**Variable Speed Fans**

Variable speed AC condenser fans provide greater efficiency and system control



**Dual EEV Systems**

Dual EEV offers optimum control of superheat for outstanding comfort and humidity control



**Intelligent Unit Controller**

Ensures the unit runs at its optimum efficiency and provides system operation data



**Epoxy Coated Coils**

Standard on indoor and outdoor coils for added coil protection



**Corrosion Resistant Design**

Marine grade surface protection and epoxy coated coil protection



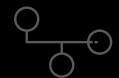
**Economy Cycle**

Optional economy cycle and fresh air for reduced power consumption in shoulder seasons



**Fresh Air Option**

Optional fresh air damper with weather cowl inputs to control externally



**3rd Party Connectivity**

Simple terminals for compress control on/off and modulation, fan speed and cycle modes.



**Louvred Guards**

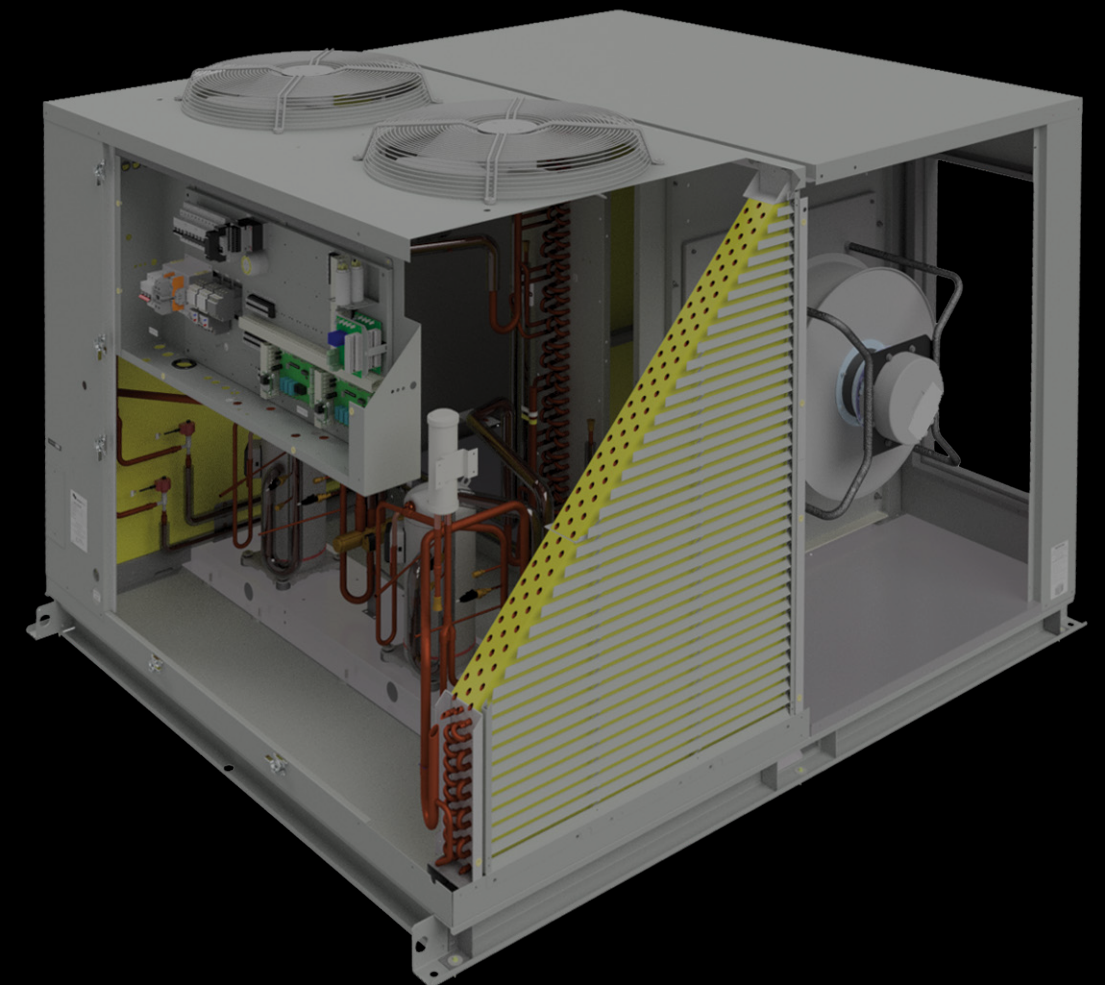
Aesthetic guards protect the coil from damage.



**BMS**

BACnet™ or Modbus via RS485 (or TCP/IP option)  
\*BACnet is optional accessory

- > Intelligent defrost cycle
- > Filter rails
- > Inbuilt Service GPO
- > Easy maintenance access
- > Foil face polyethylene insulation





# Variable Capacity

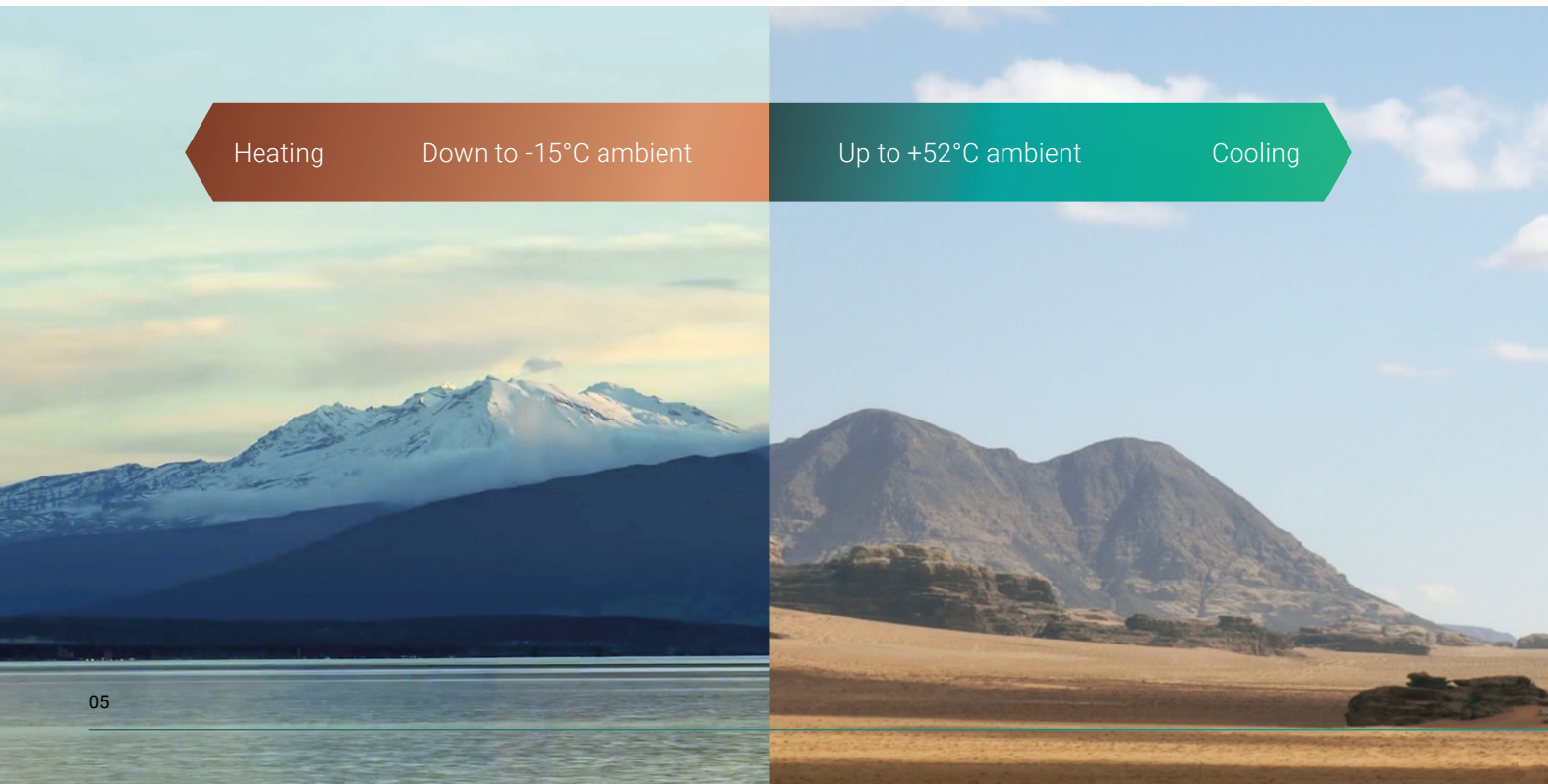
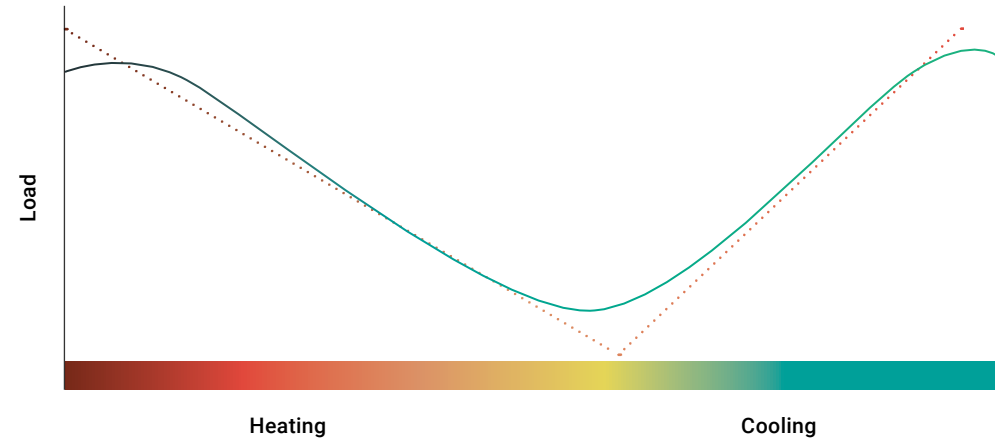
A responsive and adaptive solution, temperzone's ECO Air Cooled system can adjust its own cooling or heating capacity in accordance with changing loads.

## Variable Capacity Compressor

Thanks to a high-tech, variable capacity compressor the temperzone ECO unit adapts to suit the requirements in the occupied space. It works hard only when needed, all the while offering the ability to provide optimum comfort. Featuring simple control technology, our systems are easy-to-use.

## Variable Compressor Matches Supply and Demand

- Variable capacity output
- Building load



# Precision Load Response Technology

\*ECO models only

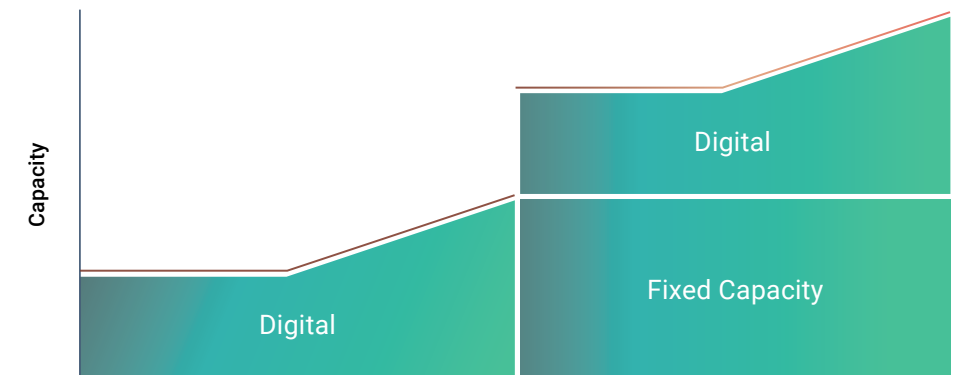
## Efficiency and Comfort

High levels of comfort and energy savings can be provided regardless of climatic conditions. The use of variable capacity compressors allow a precise load variation response. High response levels to current load conditions are further guaranteed using Electronic Expansion Valves and variable speed control of the indoor and outdoor fans.

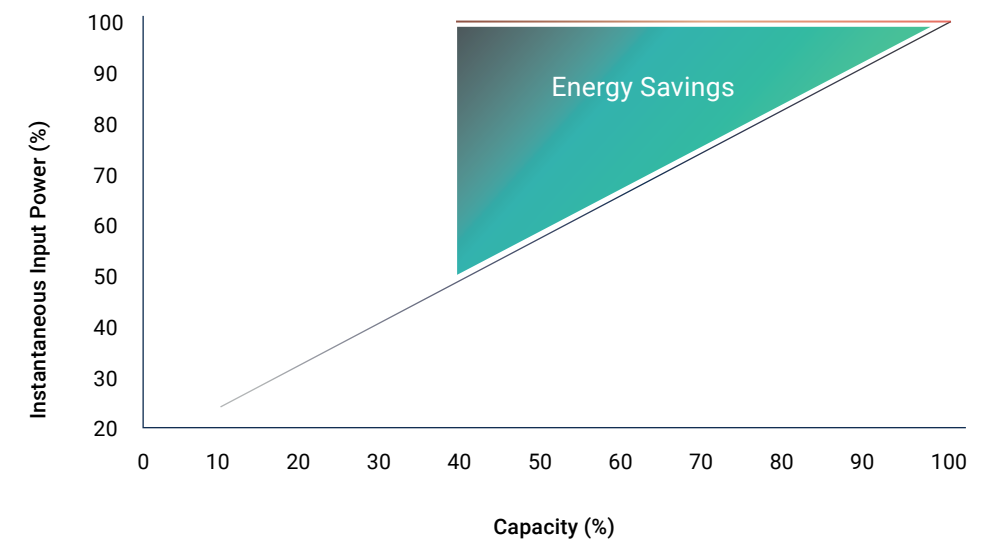
## Compressor

- › Continuous modulation enables wide capacity range.
  - 1 compressor 40-100%
  - 2 compressors 20-100%
  - 4 compressors 10-100%
- › Modulating compressors have the ability to continue to operate at high ambient conditions without faulting.

- Total Output



- Fixed Speed Compressor
- Variable Capacity Compressor
- Energy Savings





\*ECO models only

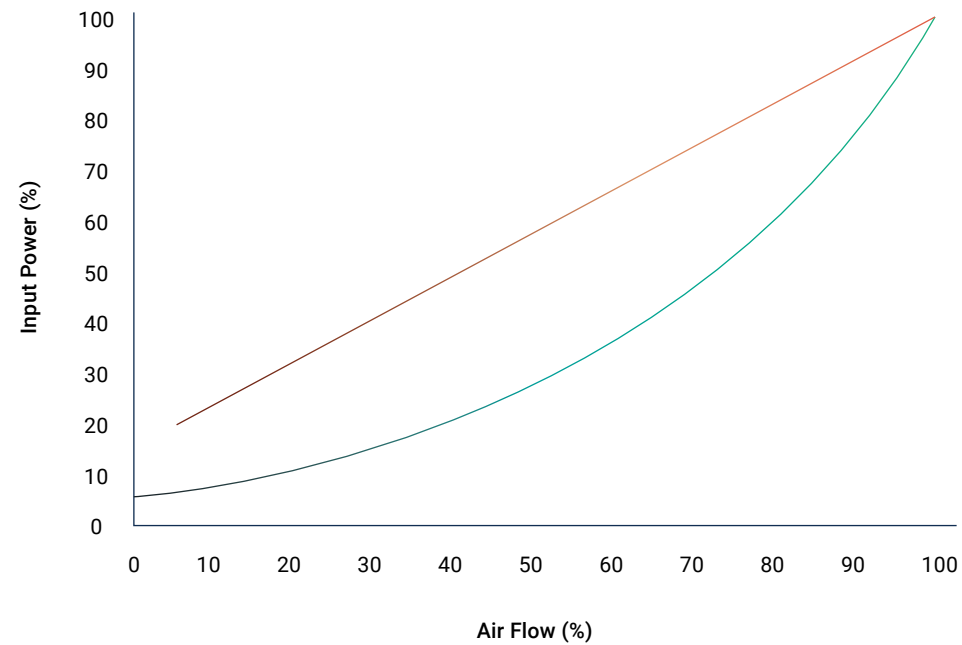
# Energy Saving Technology

Intelligent system control technology offers leading energy efficiency with precision control of the air conditioners refrigeration system.

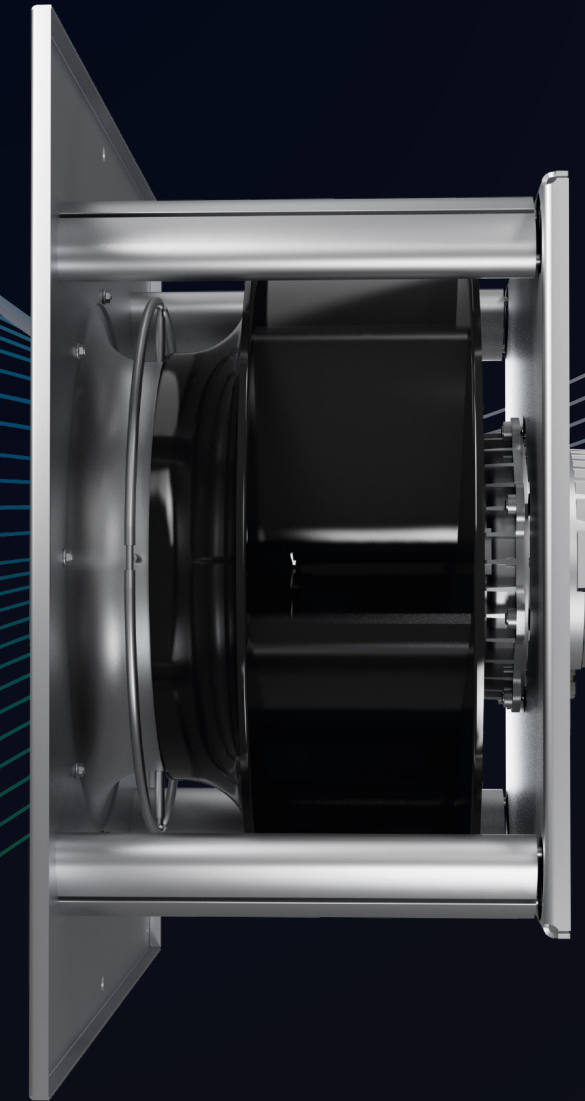
## EC Fan Technology

Our high-efficiency EC fan motors are up to 50% more energy efficient than Belt drive or AC motor alternatives and enable quiet operation with slow ramp-up and no sudden noise changes. Achieve precise comfort with custom select fan speeds or continuously variable fan speed control.

- AC Motor
- EC Motor



Ideal solution for open spaces



### EC Plug Fans

EC Plug fans control airflow accurately and efficiently. Fan speed can also be controlled via external signals via input or Modbus.

- › Programmable for exact airflow
- › High static pressure
- › Enables variable airflow operation
- › Longer motor life resulting from lower running temperatures
- › Lower maintenance and commissioning costs
- › Slow ramp up for quiet operation
- › Longer bearing life due to soft start

### AC Variable Speed Condenser Fan

- › Extended system operating envelope with fully modulating head pressure control
- › Increased energy savings at part-load conditions with integrated speed control
- › High fan reliability with soft starting and low air noise
- › Quiet Mode for noise sensitive applications



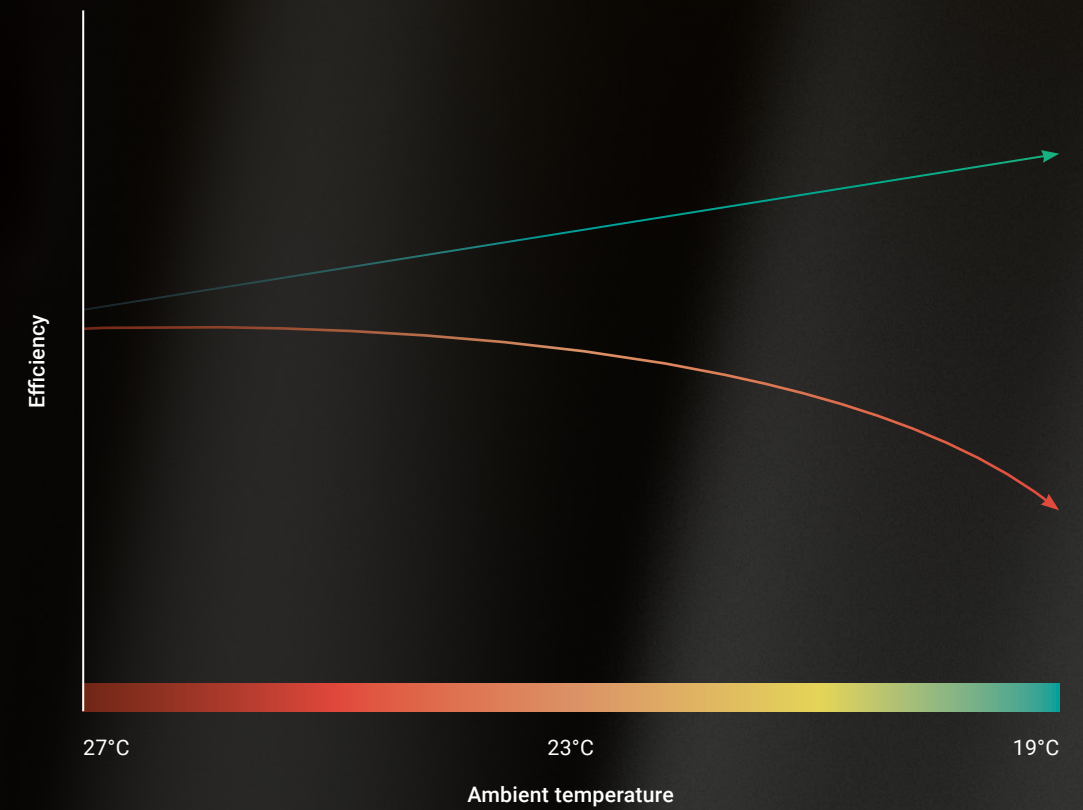


\*ECO models only

# Dual Electronic Expansion Valves (EEV)

Temperzone Econex dual EEV's allow optimum control of superheat at varying load. They also provide increased efficiencies by lowering head pressure and optimum feeding of heat exchanger coils. EEV's control liquid saturation over the coils, which in turn increases the opportunity to absorb energy.

- Accurator
- EEV



**Benefits include:**

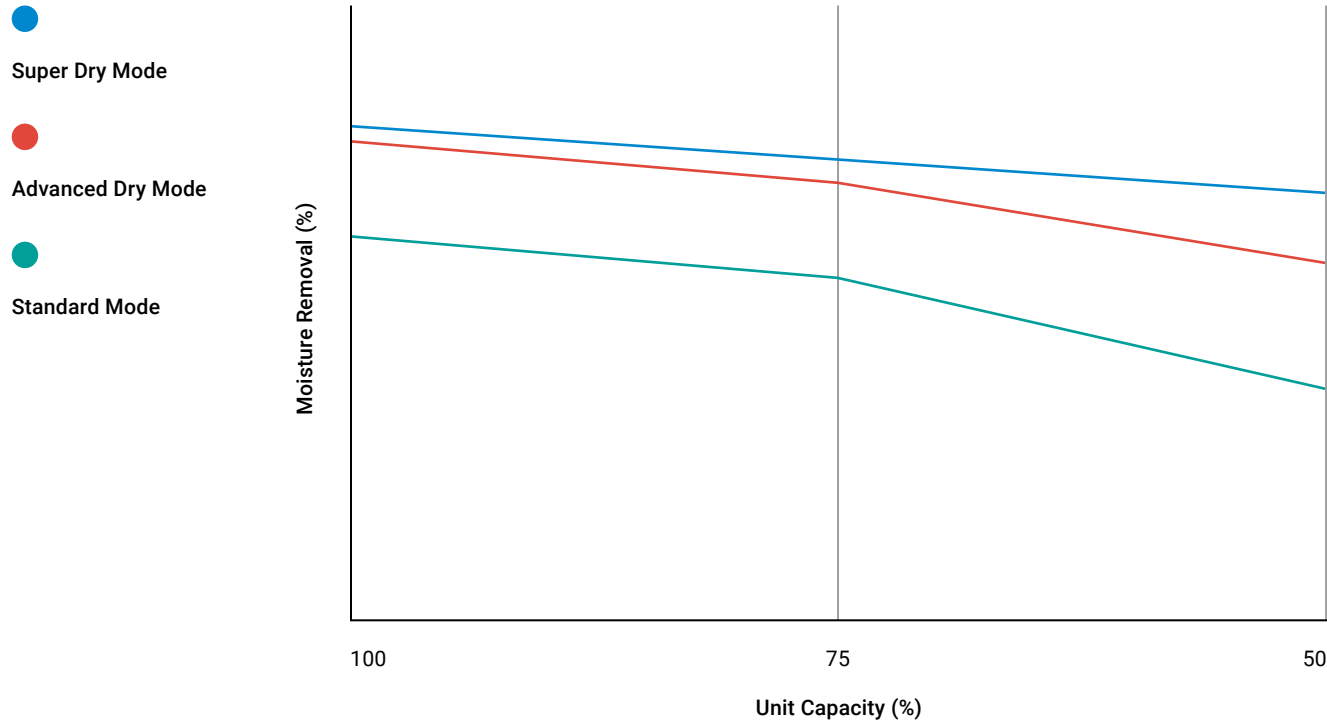
- › EEVs enable improved efficiency and reduced operating costs at part-load conditions.
- › They also facilitate maximised energy savings during the shoulder seasons – periods in which air conditioning systems often run at part-load.
- › Fast and precise control of superheat.
- › Dual EEVs enables the individual control of each EEV and activate the unique temperzone Dry mode.



\*ECO models only

# Advanced & Super Dry Mode

ECO units offers superior levels of Dry Modes to suit your requirements.



**Advanced Dry Mode and Super Dry Mode** can only be achieved by Temperzone ECO units as they utilise optimised Dual Electronic Refrigeration Valve control (IP protected) to achieve exceptional dehumidification performance across the units full operation range.

**Advanced dry mode** can provide de-humidification over a wide range of operating conditions and unit duty whilst the indoor fan speed can remain constant.

**Super dry cooling mode** requires the UC8 controller to vary the indoor fan speed. Under most operating conditions indoor fan speed will be equal to the speed requested by the thermostat or other controller. Only when the desired indoor coil temperature cannot be achieved by the dual electronic expansion valves alone then the controller will adjust the indoor fan speed to obtain de-humidification.

Ideal solution for office spaces



**Climate Touch – Coming Soon**  
Contemporary and convenient, it is designed to seamlessly fit into modern residential and commercial environments while delivering comprehensive yet simple control of your comfort.



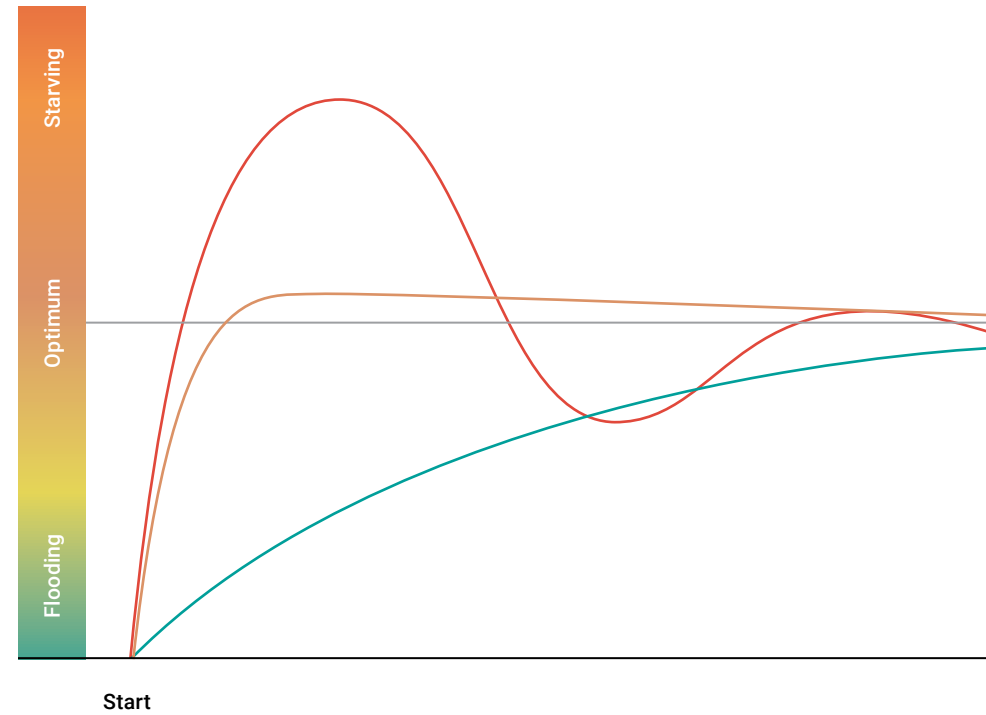
# Durable Long Life Design

ECO units are designed to be highly durable and suited to the harshest environmental conditions.

## Adaptive Valve Regulation

Temperzone's proprietary Adaptive Valve Regulation system (AVR) ensures that Temperzone inverter air conditioning systems run more efficiently and enjoy a longer operational life. AVR maximises efficiency in both heating and cooling cycles by regulating refrigerant flow capacity, allowing the system to maintain stability and efficiency over the full range of operating conditions.

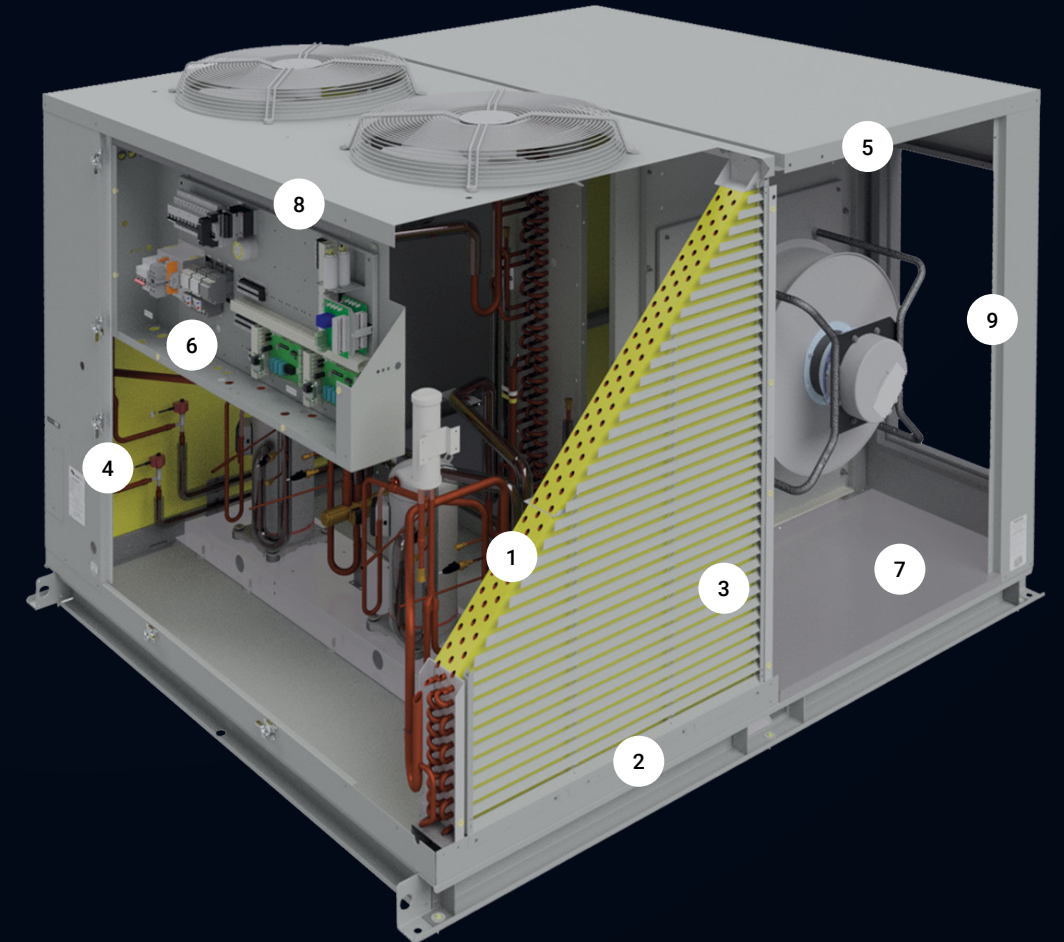
- Starving (Traditional Underdamped)
- Ideal (AVR)
- Prolonged Flooding (Traditional Overdamped)



### AVR also prevents:

- › Prolonged flooding (oil washed out of the system), which leads to seized bearings and compressor damage.
- › Improves Compressor Lifecycle.
- › Starving, which leads to HP/LP trips and reduced EER / Duty. Continuous starving leads to compressor motor overheat.

- 1 Epoxy coated coil protection for superior corrosion resistance
- 2 Marine grade pretreatment and polyester powder coated galvanized steel, inside and out
- 3 Louvre Guards for added protection against severe weather, UV damage to coils & accidental contact
- 4 Dual EEV offers optimum control of superheat for outstanding comfort and humidity control
- 5 SKT coated screws provide a higher corrosion resistance than 316 stainless steel
- 6 Intelligent unit controller ensures optimum efficiency and provides system operation data
- 7 Closed cell foam insulation ensuring no particles are introduced into the air stream
- 8 Socket Outlet (SO) in electrical panel for single phase appliances
- 9 Easy access hinged maintenance service doors with door stays





# Control Options

From advanced commercial controllers to stylish touch screen controllers, Temperzone has a control option to suit your space and application.

## TZT-100

Temperzone's TZT-100 thermostat is an advanced controller suited to commercial environments. It delivers comprehensive control for your system not available with other thermostats.



### Features

- Modes – cool / cool-dry / heat / auto-dry / auto
- Set airflow - auto / low / med / hi (customisable)
- Key board and temperature locks
- 7 Day programmable time clock
- Set temperature: 5°C to 50°C at 0.5°C increments
- Remote sensor inputs

- Programmable occupancy inputs
- On demand override count down timer up to 12hrs
- Filter monitor option (by hours)
- Continuous or Intermittent fan operation
- Connects to outdoor unit

## Climate Touch \*UC8 units only

Temperzone's new stylish Climate Touch gives contemporary and convenient control. It is designed to seamlessly fit into modern commercial environments while delivering comprehensive yet simple control of your comfort.



### Features

- Set control mode – cool / dry / heat / auto / advanced auto / fan only
- Set airflow - auto / low / med / hi (customisable)
- ECO, Dry, and Quiet functions
- 7 Day programmable time clock
- 365 day event calendar
- Set temperature: 5°C ~ 50°C at 0.5°C increments

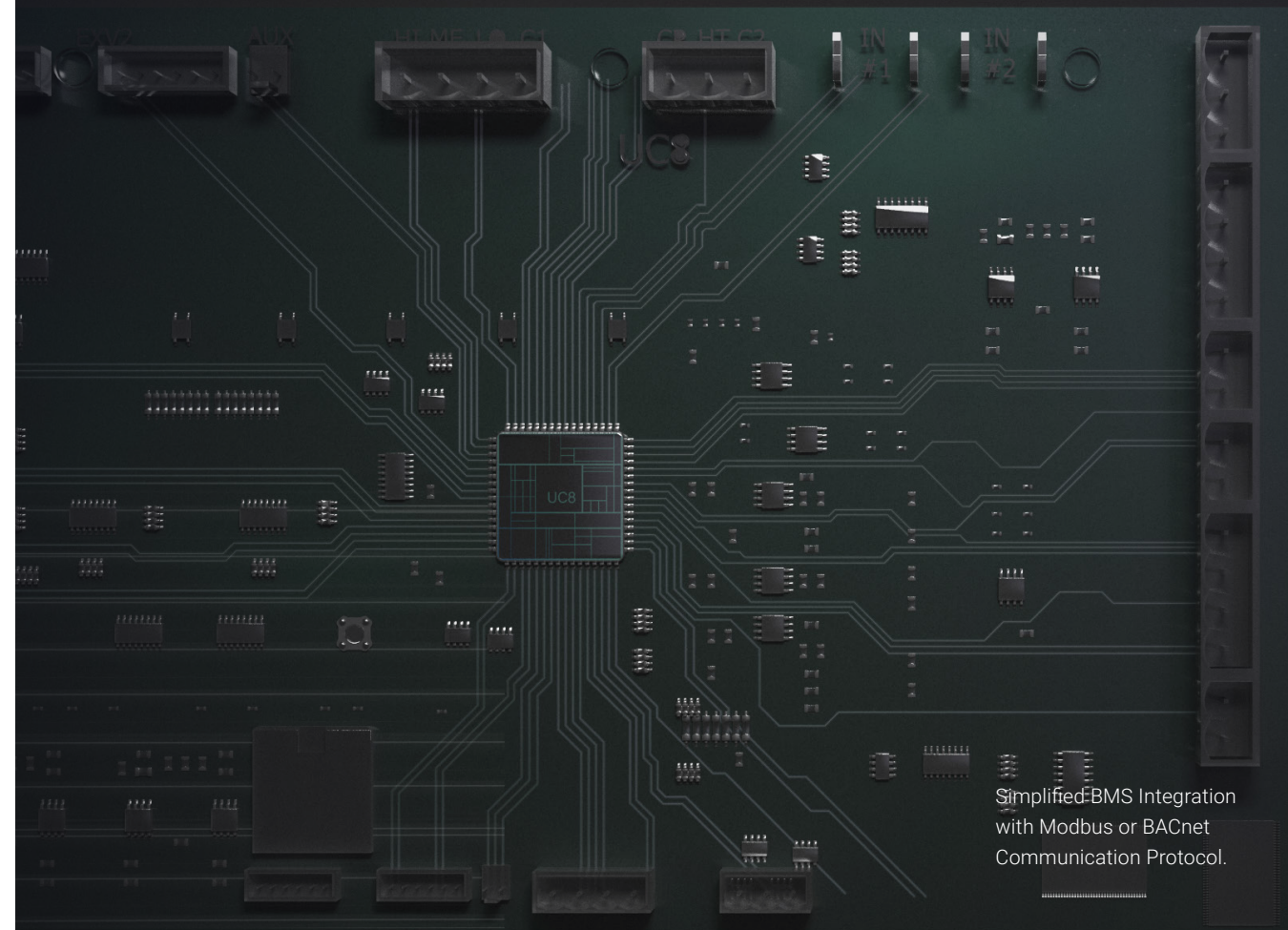
- On demand override count down timer up to 8hrs
- Connects to outdoor unit (UC8)
- Auto start after power failure
- Continuous or Intermittent fan operation
- Temperature, schedule and function locks
- System operating parameters view
- Fault notifications/logging

# BMS Connectivity

\*ECO models only

Air Cooled Packaged unit's can connect into a BMS for control and operation.

- › Through the outdoor unit via the UC8's Modbus/RS485 port with multi-unit control capability.
- › Up to 99 units can be connected on a common RS485 bus in daisy chain design.
- › Daisy chain wiring saves on amount of wiring and required labour time.
- › BMS communication cable (2-wire shielded).
- › Maximum cable length of 1000m.



Simplified BMS Integration with Modbus or BACnet Communication Protocol.





**UC intelligent unit controller**

Intelligent unit controller (UC) has been designed to deliver efficient and precise system control under all conditions. Intelligent control of outdoor fan speed, coil temperatures, compressor speed and advanced refrigeration safeties

**WiFi Service Utility Tool**

WiFi Service Utility (WSU) is a portable control interface that plugs directly into the UC6, UC7 & UC8 board on a Temperzone Air Conditioning Unit. It allows you to monitor a wide range of operational parameters, view fault logs and even take control of the unit. It has its own WiFi network built in and the control and diagnostics are done wirelessly from a smartphone, tablet or notebook PC.

# Flexible Handing Options

32 Flexible handing configurations available to suit the application.

\*ECO models only



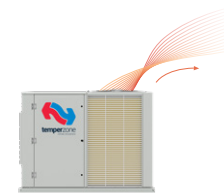
**Economiser Cycle option**

The Economy Cycle presents significant energy savings. When the outside ambient air is below set point required, the compressor is cycled off, outside air dampers open, and the supply air fan continues to run, bringing cool air in from outside.



**Fresh Air Damper option**

The Fresh Air Damper allows the introduction of fresh air into the air conditioned space, there by increasing the amount of oxygen available to the building occupants.



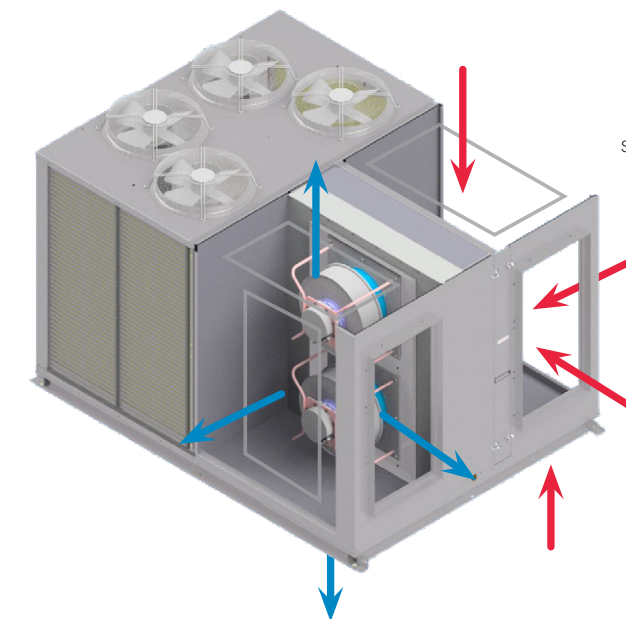
**EC Outdoor Fans option**

High static outdoor fans allows at least 110pa allowing condenser air to be ducted in applications where the unit is positioned inside.



**EC Plug Fans option**

Improved efficiency and comfort through the supply of exact airflow requirements with variable airflow technology. Up to 50% more efficient than belt driven fans. Standard in ECO units.

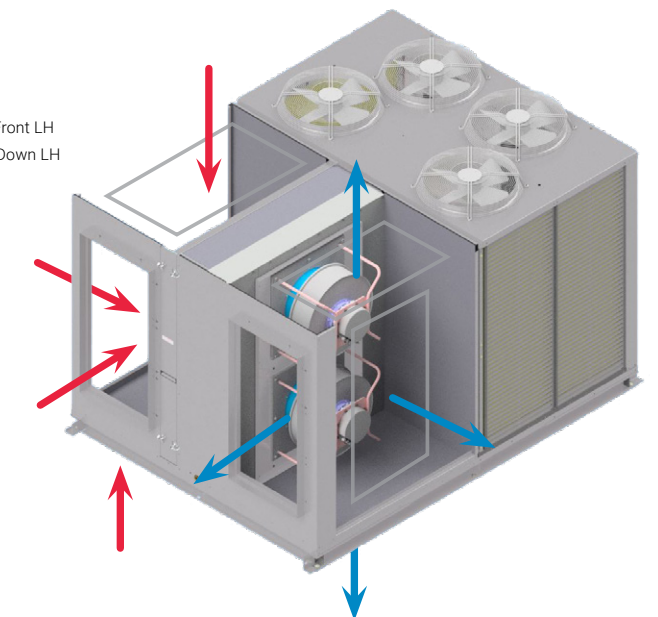


**Standard Handing**

**Standard Configuration**  
Supply Air = Front LH, Return Air = Front RH  
Supply Air = Down LH, Return Air = Down RH

**Opposite Handing**

**Standard Configuration**  
Supply Air = Front RH, Return Air = Front LH  
Supply Air = Down RH, Return Air = Down LH





# Energy Savings

With the right application and selection advice, Temperzone ECO Air Cooled technology can lead to substantial running cost savings.

## Upgrade Options

Upgrading air conditioning infrastructure generally involves either:

1. Replacing old technology or
2. Making a choice between competing modern technologies (STD vs ECO) With the right application and selection advice, energy modelling shows that temperzone Air Cooled technology can lead to substantial running cost savings.

## Energy Modelling

Using ACADs Camel and ACADS Beaver software, annual energy consumption was modelled on a large office supply retailer in Sydney with a total heat load of 148kW.

## Energy Efficiency Comparison

Energy modelling was based on a system consisting of 3 x OPA 550 rooftop units or their R22 equivalents, with economy cycle dampers fitted. The objective was to examine the energy efficiency of three comparative technologies:

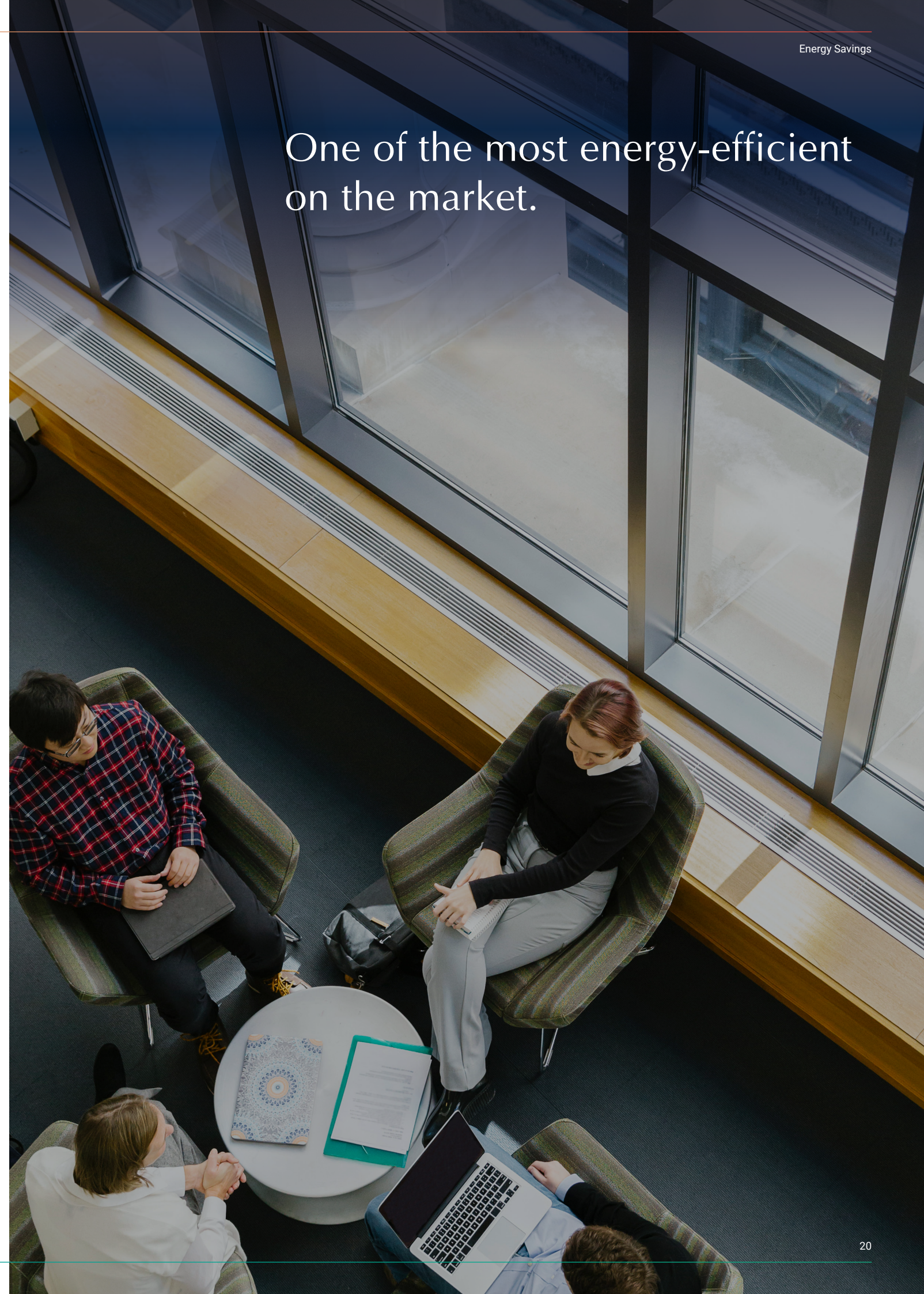
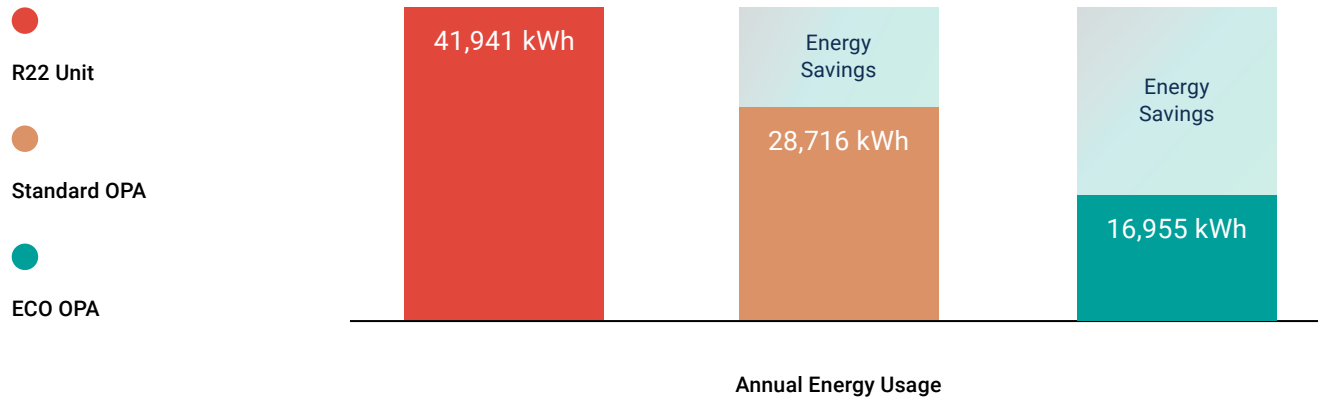
- > R22 units with a scroll compressor
- > Standard OPA units
- > ECO OPA units\*

Hours of operation 6am to 10pm, 7 days.

## Up to 60% Savings Replacing Old Technology

The results revealed the R22 system consumed 125,824 kWh, the Standard OPA system 86,149 kWh, while the ECO system consumed only 50,866 kWh annually.

When we examine individual unit energy consumption we see a substantial 60% energy savings which the OPA 550 ECO achieves over the R22 unit.



One of the most energy-efficient on the market.



# Reduced power usage and lifetime cost of ownership

The energy modelling study revealed the retailer would reduce carbon emissions by utilising energy efficient ECO units over older technology.

## Environmental Considerations

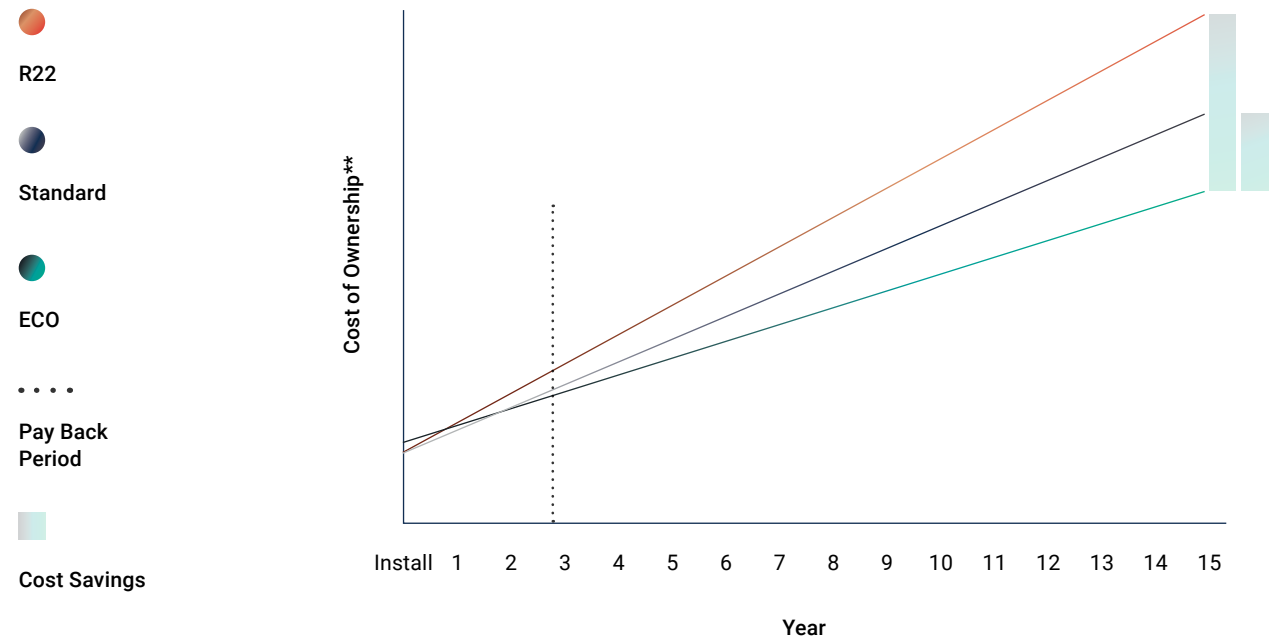
While HVAC is essential for creating comfortable and safe working environments, in Australia it's also been estimated to account for 45% of energy usage and 63% of greenhouse gas emissions. With such serious environmental considerations at stake, system design and equipment selection is critical when replacing equipment and planning new constructions.

## Substantial Cost Savings

The cost savings generated in our single retail store over the 15 year product life expectancy of our air conditioning units was substantial.

The study revealed a major difference in lifetime cost of ownership\*\* between R22 and ECO units. Significant savings can be attained by replacing old R22 units with ECO technology.

Cost of ownership\*\* savings were also significant when choosing to install ECO units over Standard units. Lower running and maintenance costs meant recovering the extra capital and installation cost of fitting ECO units was just over two and a half years.



\*\* Includes mechanical systems cost (provide/install), yearly service/maintenance costs, and yearly running costs\*.



Our energy study revealed that replacing R22 units with ECO units dramatically reduces power consumption & cost of ownership over the lifetime of the system.



# OPA Range Options and Features

The range of available temperzone options allows you to completely customise your unit, giving you flexibility and ultimate control.

- Standard
- Optional

| Model | OPA 116 | OPA 161 | OPA 186 | OPA 201 | OPA 242 | OPA 294 | OPA 336 |
|-------|---------|---------|---------|---------|---------|---------|---------|
|-------|---------|---------|---------|---------|---------|---------|---------|

| Features                      | OPA 116 | OPA 161 | OPA 186 | OPA 201 | OPA 242 | OPA 294 | OPA 336 |
|-------------------------------|---------|---------|---------|---------|---------|---------|---------|
| Adjustable Indoor Fan         | ●       | ●       | ●       | ●       | ●       | ●       | ●       |
| Variable Speed Condenser Fans | ●       | ●       | ●       | ●       | ●       | ●       | ●       |
| BMS Connection                | ●       | ●       | ●       | ●       | □       | □       | ●       |

| Epoxy Coated Coil       | OPA 116 | OPA 161 | OPA 186 | OPA 201 | OPA 242 | OPA 294 | OPA 336 |
|-------------------------|---------|---------|---------|---------|---------|---------|---------|
| Evaporator              | ●       | ●       | ●       | ●       | ●       | ●       | ●       |
| Condenser               | ●       | ●       | ●       | ●       | ●       | ●       | ●       |
| Economy Cycle Kit       | N/A     | N/A     | N/A     | N/A     | □       | □       | □       |
| Outside Air Kit         | N/A     | N/A     | N/A     | N/A     | □       | □       | □       |
| Variable Compressor     | ○       | ○       | ●       | ●       | □       | □       | ●       |
| Fixed Compressor        | ●       | ●       | ●       | ●       | ●       | ●       | N/A     |
| EC Indoor Fan           | ●       | ●       | ●       | ●       | ●       | □       | ●       |
| Compressor Soft Starter | □       | □       | □       | □       | □       | □       | ●       |

| Optional Panel Filters | OPA 116 | OPA 161 | OPA 186 | OPA 201 | OPA 242 | OPA 294 | OPA 336 |
|------------------------|---------|---------|---------|---------|---------|---------|---------|
| 50mm                   | N/A     | N/A     | N/A     | N/A     | □       | □       | □       |
| 100mm                  | N/A     | N/A     | N/A     | N/A     | N/A     | N/A     | N/A     |

| Handing Options | OPA 116 | OPA 161 | OPA 186 | OPA 201 | OPA 242 | OPA 294 | OPA 336 |
|-----------------|---------|---------|---------|---------|---------|---------|---------|
| Supply Air      | □       | □       | □       | □       | □       | □       | □       |
| Return Air      | N/A     | N/A     | N/A     | N/A     | □       | □       | □       |

| Model | OPA 340 | OPA 370 | OPA 465 | OPA 550 | OPA 705 | OPA 855 | OPA 960 | OPA 1370 | OPA 2000 |
|-------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
|-------|---------|---------|---------|---------|---------|---------|---------|----------|----------|

|                               |   |   |   |   |   |   |   |   |   |
|-------------------------------|---|---|---|---|---|---|---|---|---|
| Adjustable Indoor Fan         | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Variable Speed Condenser Fans | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| BMS Connection                | □ | □ | ● | ● | ● | ● | ● | □ | □ |

|                         |   |   |   |   |   |   |   |   |   |
|-------------------------|---|---|---|---|---|---|---|---|---|
| Evaporator              | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Condenser               | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Economy Cycle Kit       | □ | □ | □ | □ | □ | □ | □ | □ | □ |
| Outside Air Kit         | □ | □ | □ | □ | □ | □ | □ | □ | □ |
| Variable Compressor     | □ | □ | ● | ● | ● | ● | ● | □ | □ |
| Fixed Compressor        | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| EC Indoor Fan           | □ | □ | ● | ● | ● | ● | ● | □ | □ |
| Compressor Soft Starter | □ | □ | □ | □ | □ | □ | □ | □ | □ |

|       |     |     |   |   |   |   |   |   |   |
|-------|-----|-----|---|---|---|---|---|---|---|
| 50mm  | □   | □   | □ | □ | □ | □ | □ | □ | □ |
| 100mm | N/A | N/A | □ | □ | □ | □ | □ | □ | □ |

|            |   |   |   |   |   |   |   |   |   |
|------------|---|---|---|---|---|---|---|---|---|
| Supply Air | □ | □ | □ | □ | □ | □ | □ | □ | □ |
| Return Air | □ | □ | □ | □ | □ | □ | □ | □ | □ |



# Technical Specifications

ECO ULTRA

Model ● OPA 116 ● OPA 161 ● OPA 186 ● OPA 201 ● OPA 242 ● OPA 294 ○ OPA 336

**Total (Gross) Capacity kW\***

|         |      |      |      |      |      |      |      |
|---------|------|------|------|------|------|------|------|
| Cooling | 11.6 | 16.1 | 18.6 | 20.0 | 23.5 | 29.5 | 29.3 |
|---------|------|------|------|------|------|------|------|

**Net (Rated) Capacity kW\***

|                   |              |              |             |               |              |             |             |
|-------------------|--------------|--------------|-------------|---------------|--------------|-------------|-------------|
| Cooling / Heating | 11.33 / 10.8 | 15.55 / 14.4 | 18.2 / 16.2 | 19.76 / 18.08 | 22.34 / 22.1 | 28.3 / 27.2 | 28.3 / 27.4 |
|-------------------|--------------|--------------|-------------|---------------|--------------|-------------|-------------|

**EER/COP\***

|              |      |      |      |      |      |      |      |
|--------------|------|------|------|------|------|------|------|
| EER* Cooling | 3.35 | 3.24 | 3.17 | 3.14 | 3.19 | 3.21 | 3.34 |
| COP* Heating | 3.58 | 3.23 | 3.44 | 3.33 | 3.39 | 3.58 | 3.28 |

**Power**

|                         |                            |            |            |            |              |              |              |
|-------------------------|----------------------------|------------|------------|------------|--------------|--------------|--------------|
| Power Supply            | 3 Phase - 342 - 436V 50 Hz |            |            |            |              |              |              |
| Run Amps / Phase (A/ph) | 9 / 5 / 5                  | 11 / 7 / 7 | 12 / 8 / 8 | 13 / 9 / 9 | 13 / 10 / 10 | 18 / 15 / 15 | 13.5/15.5/13 |
| IP Rating               | IP 44                      |            |            |            |              |              | IP 44        |

**Compressor**

|                                  |                      |   |                              |   |                          |   |             |
|----------------------------------|----------------------|---|------------------------------|---|--------------------------|---|-------------|
| Number per Unit                  | 1                    | 1 | 1                            | 1 | 2                        | 2 | 1           |
| Type                             | Hi Efficiency Scroll |   | Hi Efficiency Digital Scroll |   | 2 x Hi Efficiency Scroll |   | DC Inverter |
| Number of Refrigeration Circuits | 1                    | 1 | 1                            | 1 | 2                        | 2 | 1           |
| Refrigerant                      | R 410A               |   |                              |   |                          |   | R 410A      |

**Fans**

|         |                                      |  |  |          |                |          |      |
|---------|--------------------------------------|--|--|----------|----------------|----------|------|
| Indoor  | Centrifugal / EC Direct Drive        |  |  | Plug Fan | Forward Curved | Plug Fan |      |
| Outdoor | Variable Speed Propeller Type (VSPT) |  |  |          |                |          | VSPT |

**Airflow**

|           |     |      |      |      |      |      |      |
|-----------|-----|------|------|------|------|------|------|
| Nominal** | 650 | 815  | 1000 | 1100 | 1400 | 1600 | 1700 |
| Maximum   | 800 | 1000 | 1200 | 1225 | 1600 | 2100 | 2230 |

**Noise Data\*\*\***

|                |    |    |    |    |    |    |    |
|----------------|----|----|----|----|----|----|----|
| SPL @ 3 Metres | 55 | 55 | 59 | 59 | 62 | 57 | 63 |
|----------------|----|----|----|----|----|----|----|

**Overall Dimensions (mm)**

|        |      |      |      |      |      |      |      |
|--------|------|------|------|------|------|------|------|
| Length | 1110 | 1160 | 1160 | 1230 | 1675 | 1780 | 1781 |
| Width  | 1200 | 1200 | 1200 | 1200 | 1567 | 1490 | 1468 |
| Height | 915  | 1070 | 1070 | 1175 | 1375 | 1500 | 1500 |

**Weight (kg)**

|      |     |     |     |     |     |     |     |
|------|-----|-----|-----|-----|-----|-----|-----|
| Nett | 193 | 225 | 235 | 270 | 443 | 516 | 472 |
|------|-----|-----|-----|-----|-----|-----|-----|

Notes: \* To AS/NZS 3823 conditions      \*\*\* Noise Data measured to BS 848.2: 2014 - Installation Type A  
 \*\* Supply Airflow at Nominal Conditions      - measured in decibels re 1 picowatt  
 \*\*\*\* Units comply with MEPS & or the requirements on the NCC

● OPA 340 ● OPA 370 ○ OPA 465 ○ OPA 550 ○ OPA 705 ○ OPA 855 ○ OPA 960 ● OPA 1370 ● OPA 2000

|      |      |      |      |      |      |      |       |       |
|------|------|------|------|------|------|------|-------|-------|
| 34.0 | 39.1 | 44.9 | 54.6 | 69.7 | 85.1 | 96.0 | 137.0 | 193.0 |
|------|------|------|------|------|------|------|-------|-------|

|             |             |             |             |             |             |             |               |               |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|
| 32.5 / 30.1 | 36.9 / 35.6 | 43.9 / 41.1 | 52.9 / 53.4 | 67.9 / 67.5 | 79.4 / 78.0 | 87.9 / 90.0 | 130.0 / 135.0 | 184.0 / 213.0 |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|

|      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|
| 3.31 | 3.23 | 3.22 | 2.93 | 3.30 | 3.10 | 2.99 | 3.16 | 2.81 |
|------|------|------|------|------|------|------|------|------|

|      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|
| 3.59 | 3.48 | 3.62 | 3.35 | 3.75 | 3.28 | 3.40 | 4.02 | 3.55 |
|------|------|------|------|------|------|------|------|------|

|                            |              |              |              |              |              |              |              |                 |
|----------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----------------|
| 3 Phase - 342 - 436V 50 Hz |              |              |              |              |              |              |              |                 |
| 17 / 20 / 17               | 20 / 24 / 20 | 20 / 26 / 20 | 29 / 38 / 29 | 33 / 40 / 34 | 45 / 52 / 45 | 58 / 66 / 57 | 75 / 83 / 83 | 102 / 110 / 110 |
| IP 44                      |              | IP 44        |              |              |              |              | IP 44        |                 |

|                          |   |   |   |   |                                  |   |                          |   |
|--------------------------|---|---|---|---|----------------------------------|---|--------------------------|---|
| 2                        | 2 | 2   | 2 | 2 | 2                                | 2 | 4                        | 4 |
| 2 x Hi Efficiency Scroll |   | 1 x Hi Efficiency Digital Scroll / 1 x Hi Efficiency Scroll |   |   | 2 x Hi Efficiency Digital Scroll |   | 4 x Hi Efficiency Scroll |   |
| 2                        | 2 | 2   | 2 | 2 | 2                                | 2 | 4                        | 4 |
| R 410A                   |   | R 410A  |   |   |                                  |   | R 410A                   |   |

|                |          |                               |  |  |  |  |                |  |
|----------------|----------|-------------------------------|--|--|--|--|----------------|--|
| Forward Curved | Plug Fan |                               |  |  |  |  | Forward Curved |  |
| VSPT           |          | Variable Speed Propeller Type |  |  |  |  | VSPT           |  |

|      |      |      |      |      |      |      |      |       |
|------|------|------|------|------|------|------|------|-------|
| 1800 | 2100 | 2400 | 2800 | 3700 | 4200 | 4750 | 7500 | 9500  |
| 2200 | 2500 | 3330 | 3330 | 5100 | 5100 | 5100 | 8500 | 10500 |

|    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|
| 65 | 65 | 68 | 65 | 63 | 63 | 63 | 70 | 62 |
|----|----|----|----|----|----|----|----|----|

|      |      |      |      |      |      |      |      |      |
|------|------|------|------|------|------|------|------|------|
| 2058 | 2080 | 2344 | 2344 | 2902 | 2902 | 2902 | 4668 | 6248 |
| 1625 | 1670 | 1949 | 1949 | 2149 | 2149 | 2149 | 2425 | 2430 |
| 1500 | 1550 | 1634 | 1737 | 1859 | 1859 | 1859 | 2377 | 2430 |

|     |     |     |     |      |      |      |      |      |
|-----|-----|-----|-----|------|------|------|------|------|
| 631 | 662 | 798 | 878 | 1105 | 1133 | 1129 | 2297 | 3070 |
|-----|-----|-----|-----|------|------|------|------|------|



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