

# ADVANCE



Powerful performance  
with complete control.



[actronair.com.au](http://actronair.com.au)



## Because Australia needs **Australian** air conditioning.

Ah, the nostalgic year of 1984—'Advance Australia Fair' became our National Anthem, the beloved one-dollar coin started circulating, and a small family air conditioning business opened its doors.

Fast forward to today, and ActronAir stands tall as an example of Australian excellence, renowned for creating air conditioners that are truly in a class apart. And why wouldn't we be? After all, our passionate team at ActronAir lives and breathes the very same harsh Australian conditions that put our air conditioning to the test.

Our climate has a knack for throwing challenges at us that others simply can't fathom. That's why ActronAir's engineers have taken up the challenge, developing the most advanced air conditioning systems with intelligent zoning and control solutions specifically crafted to conquer the unique demands of our harsh Australian environment.

# DESIGNED.

Millions of Aussies  
take comfort  
in **ActronAir**.

## A superior design, made in Australia, for Australia.

Most overseas air conditioners are only designed with a maximum temperature range of 43°C to 46°C. The made-in-Australia for Australia **Advance** operates up to 54°C\*. Big deal? Yes. The temperature around the outdoor unit can reach far higher than what they're saying on the weather report due to direct sun or heat radiating off the ground. They're often located against the wall or fence where there's low air circulation.

That's why ActronAir's **Advance** is designed with Vertical Discharge. Expelling the air to the space above the unit avoids recirculation which reduces performance and increases operating costs. It's a simple solution but has a big impact. Better comfort, more performance, and greater reliability. Vertical Discharge is just one of the ways **Advance** is designed to perform better in Australian conditions than any other brand.

See our Vertical  
Discharge in  
Action!



\* Operating range based on air temperature entering the outdoor unit heat exchanger.



# FEATURES.

## Maintain comfort without breaking the bank

With Tru-Inverter and Variable fan technology, the **Advance** system can automatically adjust its capacity and airflow to provide only the conditioning that is required, thereby reducing your running costs by up to \$5,500 over 5 years.\*

\* Based on electricity price of 30c per kW/H and the cooling energy consumption, this translates to a saving of up to \$1100 per annum compared to conventional fixed speed systems.

Save up to  
**\$5,500**  
 on energy bills  
 over 5 years\*

## Australian Made Comfort

Enjoy the peace of mind that comes with our Australian owned, designed, and manufactured product. Innovative controls, a thoughtfully designed indoor unit, intelligent zoning, and a robust vertical discharge outdoor unit are all tailored for the way Australians truly live.

## R32 Refrigerant

ActronAir is environmentally aware and considers the potential impact of the refrigerants it uses. That's why **Advance** utilises R32\*, with a substantially lower Global Warming Potential than some alternative refrigerants, while enjoying the benefits of optimised energy efficiency.

\*R32 available in 13.00 - 17.00kW.

## Variable Fan Technology

Unlike other systems who typically can only ramp down to 60% at best, forcing you to pay for conditioned air you are not using, the **Advance** series can ramp its indoor fan speed down as low as 30%\*, allowing it to deliver just the right amount of conditioned air - no more dump zones, no more soaring power bills.

## Smarter Startup

In heating, the **Advance** indoor unit heats up to a preset temperature before the fan turns on, making sure warm air is delivered, avoiding cold drafts.



## Built Aussie Tough

The **Advance** systems is designed to last in our uniquely challenging climate. Powder coated to provide a tough durable finish that is highly resistant to corrosion, with a louvered grille, protecting it from the elements like direct sunlight and hail, or stray balls kicked by children playing in the backyard, as well as Hydrophilic blue fin coil coat providing additional protection to reduce corrosion and increase durability in high temperature and coastal environments. Advance is built Aussie tough.

## Quiet Operation

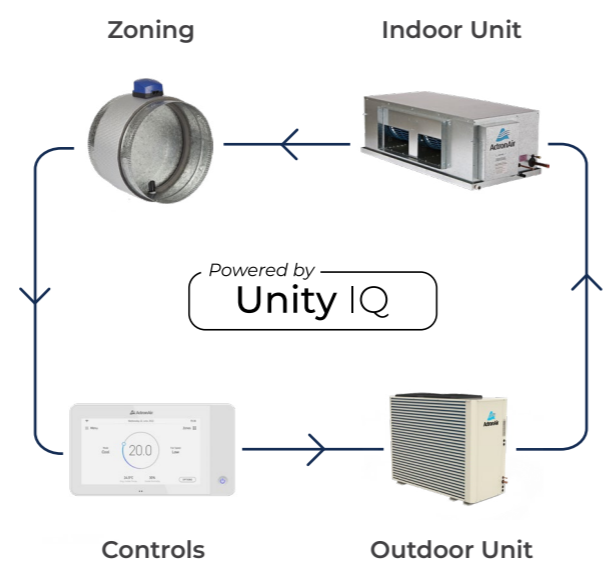
We believe in keeping you comfortable inside and outside of your home. That's why **Advance** uses the latest technologies such as inverter compressors, modulating EC indoor and outdoor fans and compressor jacket consisting of high performance acoustic cotton to absorb noise and vibration from the compressor, all designed to keep noise to a minimum.



# ZONING

## Better Together with Unity IQ.

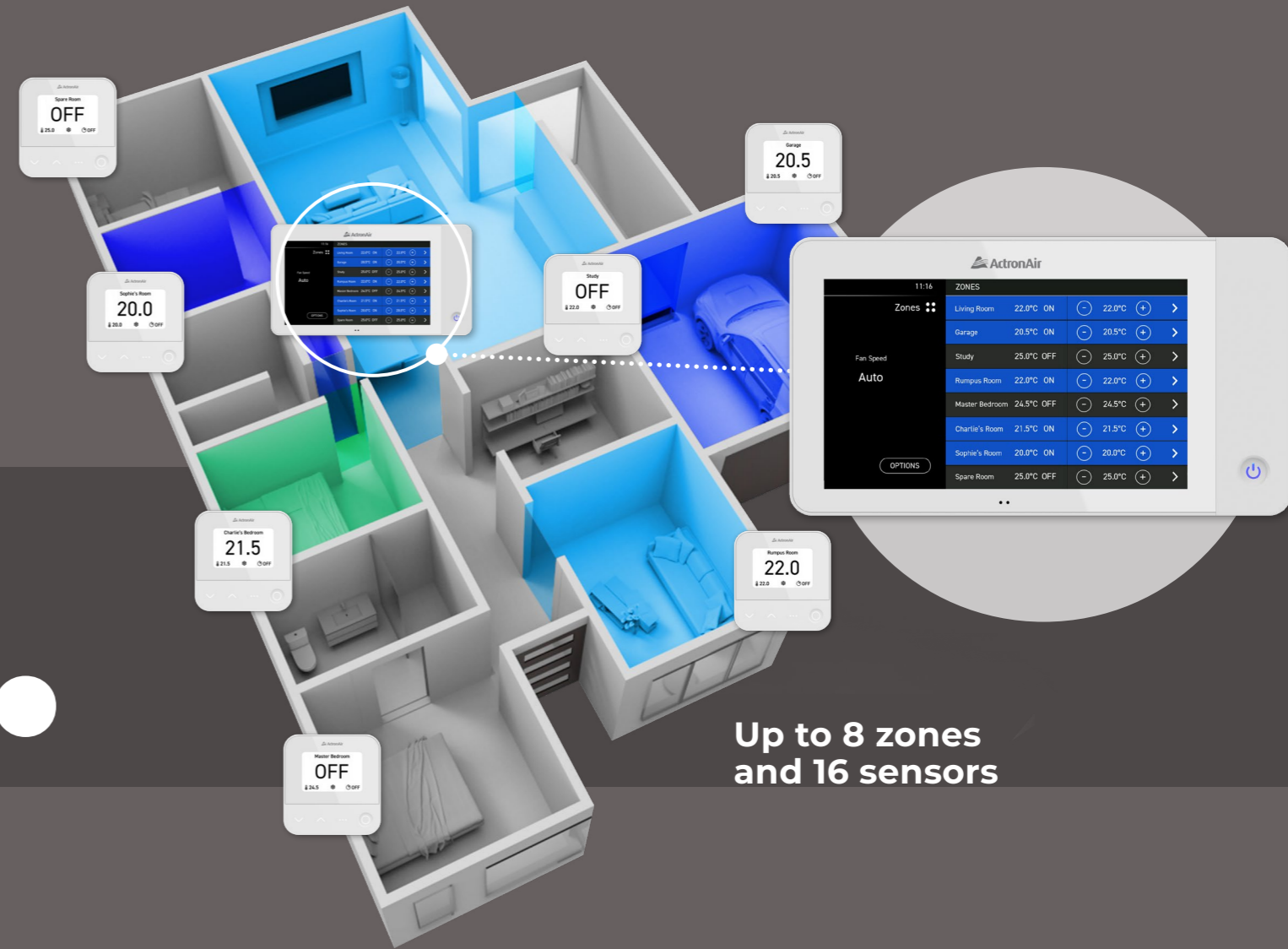
**Advance** seamlessly operates using sophisticated **Unity IQ** control logic. This unique harmonious combination ensures that our variable speed compressor and variable indoor fan, along with our zoning and control solutions operate in perfect synergy, delivering the precise comfort you desire.



## Individual Zoning

Individual room zoning is a premium zoning option that allows you to divide your home into multiple individual zones, each of which can be conditioned separately from one another, giving you precise control over your comfort and better energy savings. Operating with Variable Fan Technology, you can condition as little as one room, delivering savings that pay for themselves!

Find out how much individual zoning can save you



Up to 8 zones and 16 sensors

## ZoneAware™ Technology

Discover a new level of comfort control with **Advance**. Install up to 16 discreet remote temperature sensors around your house. Sensors intuitively activate based on zones you operate, delivering more precise temperature measurements for enhanced comfort and efficiency. Makes Sense!

## Air Conditioning tailored to suit you

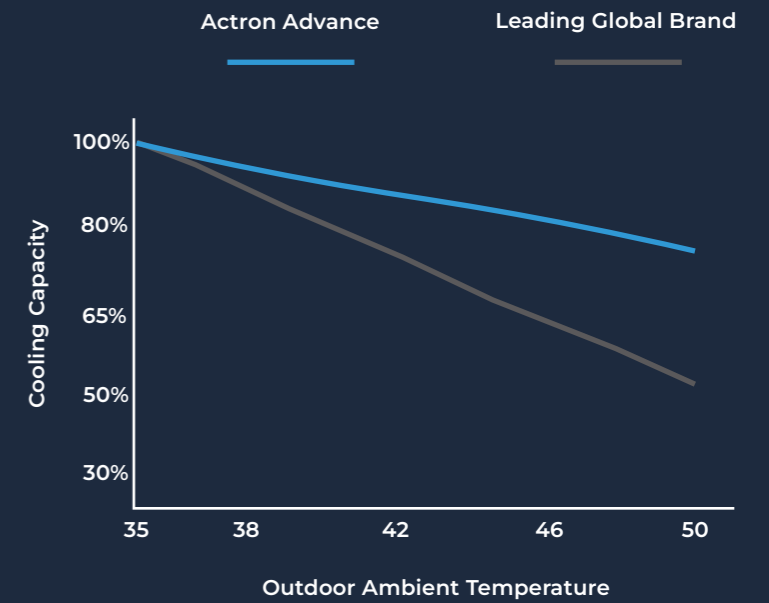
Say Goodbye to battles over temperature set points with the ultimate zoning option. With individual temperature control, coupled with individual zoning, you can set different temperatures in different rooms at the same time, for the best in comfort and efficiency. All made possible with ActronAir's unique **Unit IQ** featuring inverter compressor, variable fan & Sense More technology.



# PERFORMANCE.

## Power Cooling Technology

The funny thing with air conditioners is that the amount of cooling they can provide you, known as their capacity, gets worse as the temperature around the outdoor unit gets hotter. Unique Power Cooling technology means that our systems maintain their ability to keep you comfortable far better, with our **Advance** being able to provide almost 80% of its cooling capacity when its 50°C while some others barely manage 55%, or worse, just call it quits.



## Turbocharge your comfort

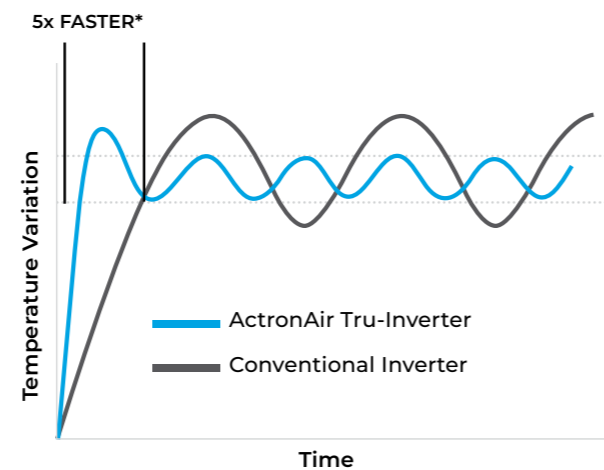
If you're in a rush to get comfortable, Turbo mode will get you there fast, allowing **Advance** to run at a higher capacity for a short period to reach your desired temperature as quickly as possible.\*

\* Turbo mode operates for a period of 30 minutes

\* The above illustration showcases Power Cooling Technology in action in high ambient temperatures. ActronAir Advance VS a Leading Global Brand

## TRU-Inverter Technology

Introduced to the air conditioning by ActronAir, the name says it all. A vastly more precise inverter technology, it gets to the desired temperature faster, smoother and maintains tighter temperature control. That means more comfort and a more comfortable electricity bill.



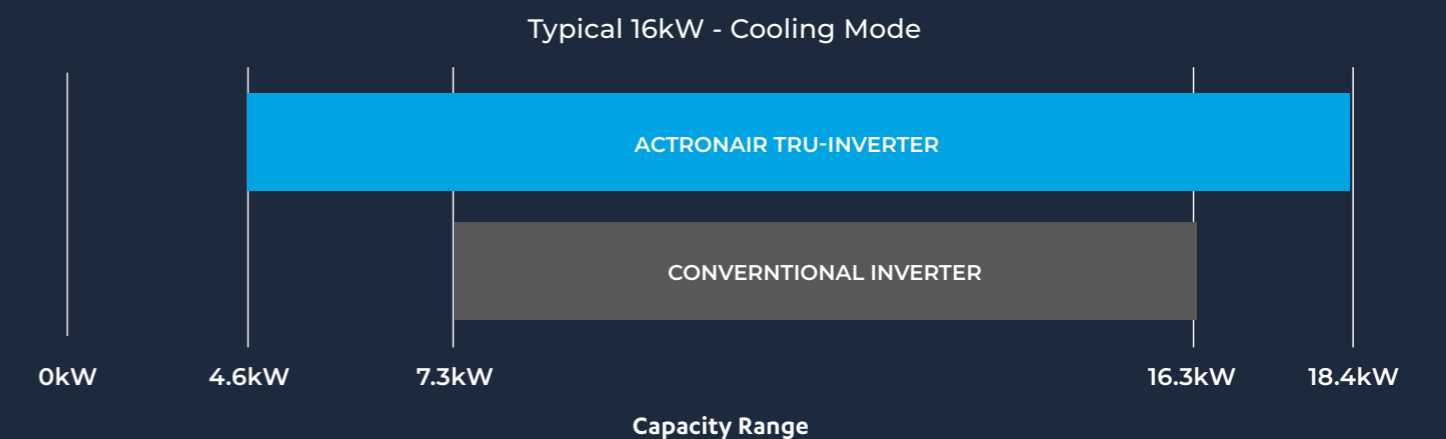
\*Subject to room size and conditions.

## Wide Capacity Range

The **Advances** Tru-Inverter compressor has a wide capacity range, operating as low as 30% of its rated capacity, reducing its operating cost and sound levels at the same time.

## Tru Max Technology

**Advance** systems come with TruMax technology which allows for powerful heating and cooling in extreme conditions, right when you need it most.



Example of Advance CRV17AS / EVV17AS vs Conventional inverter



# CONTROL.

## Award Winning NEO. It Truly is control in style.

NEO is ActronAir's latest entry in a line of award-winning control products. Building on the unique design and superior performance that ActronAir controls are known for, NEO brings the best in premium control technology to more people than ever before.



### Intuitive Interface

Control your entire system with a touch of a finger. Whether changing the temperature or adjusting the 7-day time clock, the NEO's 7" backlit screen displays an interface that is simple, intuitive, and easy to use.

### Integrated Zoning

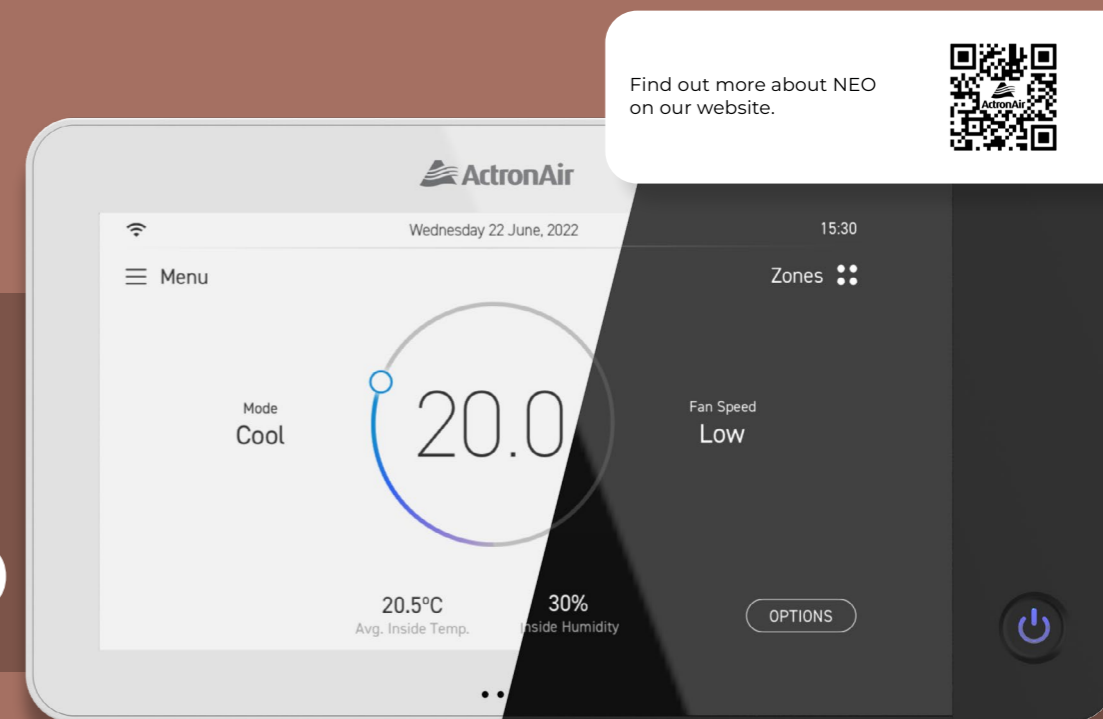
No need for clunky bolt-on zoning modules - NEO comes with zoning integrated as standard, allowing you to control all of your zones from the NEO Touch Controller. Best of all, each zone can easily be updated with a custom name that suits you best.

### Easy Operating

The master controller comes with Near Field Communication (NFC) included as standard, providing quick and easy access to operating instructions on your smartphone or device.

### Temperature/Humidity Sensor

On-board temperature and humidity sensors mean the NEO Touch Controller displays precise indoor room temperature and humidity levels.



Find out more about NEO on our website.



NEO TOUCH  
Physical Dimensions (H x W x D): 118mm x 212mm x 17mm

### LED Wall Glow

Unique color-coded LED Wall Glow means you always know when your system's on and what mode it's in.

### Precise Comfort Control

Set your temperature in 0.5°C increments, allowing you to choose the temperature that suits you best.

### Stay up to date with Over-the-air updates

Software updates happen securely and effortlessly via Wi-Fi, ensuring your controller and system always have the most recent software version.

### Configurable Proximity Sensor

When you approach the NEO controller, it automatically comes to life, waiting for your next command.



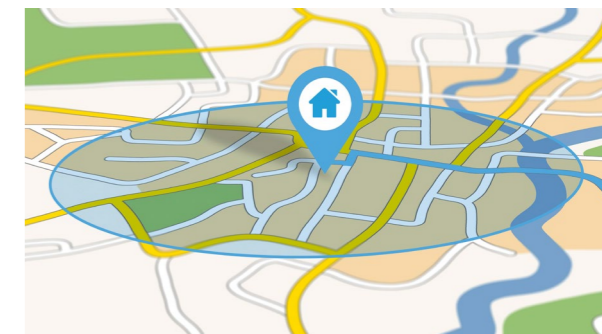
# SMART.

## Come home to comfort with the **NEO Connect mobile app.**

**NEO Connect** app, revolutionising the way you interact with your air conditioner! Now, you can effortlessly access and take full control of your ActronAir system using your smartphone or tablet, no matter where you are.

### Geo-Fencing

With our innovative Geo-Fencing feature, your ActronAir system seamlessly adapts to your movements. As you approach or leave your home, the app triggers your AC to turn on or off accordingly. Experience unparalleled comfort and enjoy the peace of mind that comes with knowing your air conditioner is always in sync with your lifestyle.



## Connect to comfort from anywhere.

Requires internet access

available on:



### Home Connectivity

Home connectivity with Google Home and Amazon Alexa is making your life simpler and more convenient, so you can now control your air conditioner with the simple sound of your voice.



"Hey Google, set NEO to cool"

"Hey Google, set NEO to 22°C"

"Hey Google, what is the temperature on NEO"



# PRECISE.

## Wireless Convenience

NEO Zone and NEO Sense remote temperature sensors, available in Ceramic White and Jet Black, are not hindered by cables thanks to long-range Bluetooth technology and their ability to be powered by a battery. Enjoy the freedom to install the devices where you need it most.

## Precise Temperature Control

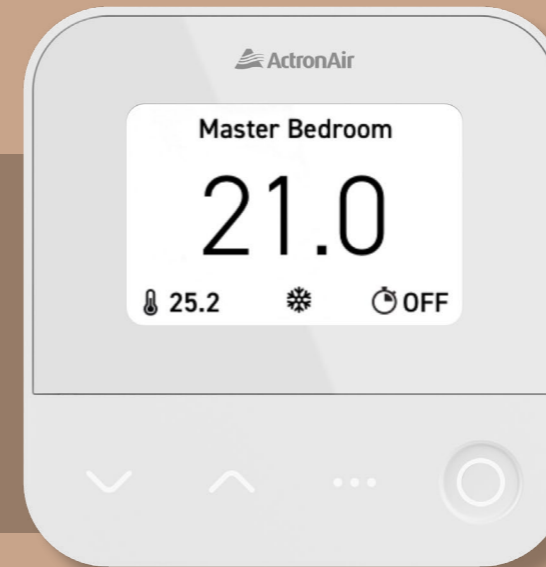
Advance with Sense More Technology allows for up to 16 temperature sensing points, which allows them to maintain consistent temperature throughout your home no matter the time of day.

## Take Control of Your Comfort

With the NEO Zone, turn the zone on and off, adjust the set point and even set your own personalised timer allowing you to take complete control of the comfort and efficiency of your zone.

## Control your comfort easily with NFC Connectivity

With NFC connectivity you can manage the temperature of the whole home or a specific zone by simply swiping your compatible smart phone or tablet over NEO Sense.



NEO ZONE  
Physical Dimensions (H x W x D):  
90mm x 93mm x 19mm



NEO SENSE  
Physical Dimensions (H x W x D):  
80mm x 83mm x 19mm



## NEO Comfort Stand

The NEO Comfort Stand allows for any connected zone device to be placed in a location that matters most to you. Providing you a better option to sense and operate your zone, whether it be at your study desk, or next to your bed, NEO Zone or NEO Sense will sense and perform, delivering comfort more accurately and effectively.





# CONTROL.

## Choose the colour that suits your home.

Choose between sleek grey or white options and enjoy the attractive, user-friendly design of the **L Series**. Packed with features like NFC and integrated zoning, it seamlessly integrates with the **Advance** series for optimal control and performance. Experience the perfect harmony between controller and air conditioner with the **L Series**.

### Intuitive Interface

The **L Series** controller combines an appealing design with user-friendly functionality. Its intuitive interface employs clear, understandable language for effortless control, offering a seamless user experience.

### Simple Functions

The convenience of scheduling up to 2 events per day with the 7-Day time clock and/or the use of a 24-hour program, allowing you to schedule your preference and then simply 'set and forget'.

### Integrated Zoning

An 8-zone touchpad is conveniently integrated into the master controller, removing the need for you to install a standalone zoning control on your wall.

### Easy Operating

The master controller comes with Near Field Communication (NFC) included as standard, providing quick and easy access to operating instructions on your smartphone or device.



LR7  
Physical Dimensions (H x W x D): 130mm x 130mm x 14.4mm

## Operates with over 40 home systems

The **Advance** also has the ability to operate with a bridging platform that, when used in conjunction with an ActronAir BMS card, can assist in integrating with over 40 home automation systems, including:



# Technical Specifications



## Advance System (13.00-21.00kW)

Technical Information									
Model	Outdoor	CRV13AS	CRV15AS	CRV17AS	CRV13AT	CRV15AT	CRV17AT	CRV210T	CRV240T
	Indoor	EVV13AS	EVV15AS	EVV17AS	EVV13AS	EVV15AS	EVV17AS	EVV210S	EVV240S
Total (Gross) Capacity (kW) (AS/NZS3823.1.2)	Cooling (Rated)	13.45	14.90	17.35	13.05	14.95	17.35	19.40	21.55
	Heating (Rated)	13.15	15.10	17.25	13.40	15.70	18.05	19.60	22.50
Nett (Rated) Capacity (kW) (AS/NZS3823.1.2)	Cooling (Min/Rated/ $T_{FRLU,MAX}$ )	4.05 / 13.20 / 14.50	4.48 / 14.60 / 16.50	4.65 / 17.00 / 18.40	3.93 / 12.80 / 14.50	4.49 / 14.65 / 16.50	4.65 / 17.00 / 18.50	5.20 / 19.00 / 21.00	5.20 / 21.00 / 24.00
	Heating (Min/Rated/ $T_{FRLU,MAX}$ )	3.75 / 13.40 / 15.00	4.31 / 15.40 / 17.00	5.05 / 17.60 / 19.35	3.82 / 13.65 / 15.00	4.48 / 16.00 / 17.60	5.28 / 18.40 / 18.60	4.60 / 20.00 / 23.00	5.00 / 23.00 / 25.00
Input Power (kW) (AS/NZS3823.1.2)	Cooling (Rated)	3.88	4.44	5.17	3.68	4.37	5.09	5.70	6.10
	Heating (Rated)	3.82	4.39	5.01	3.88	4.56	5.25	5.50	6.57
<sup>12</sup> EER Rated (AS/NZS3823.1.2)	Cooling (Rated)	3.40	3.29	3.29	3.48	3.35	3.34	3.33	3.44
<sup>13</sup> COP Rated (AS/NZS3823.1.2)	Heating (Rated)	3.51	3.51	3.51	3.52	3.51	3.50	3.64	3.50
Power Supply - (V/Ph/Hz)	Outdoor	230V / 1Ph + N / 50Hz				400V / 3Ph + N / 50Hz			
	Indoor	230V / 1Ph + N / 50Hz							
Rated Amps (AS/NZS3823.1.2)	Total	16.70	19.50	22.80	7.20	8.50	9.70	11.40	12.20
Full Load Amps (AS/NZS3823.1.2)	Outdoor / Indoor / Total	27.30 / 4.30 / 31.60	30.00 / 4.30 / 34.30	34.20 / 4.30 / 38.50	9.70 / 4.30 / 14.00	11.70 / 4.30 / 16.00	13.50 / 4.30 / 17.80	16.40 / 5.50 / 21.90	16.60 / 6.00 / 22.60
<sup>14</sup> Circuit Breaker Amps (Suggested)		32.00	40.00	40.00	16.00	20.00	20.00	25.00	25.00
IP Rating	Outdoor	IP44							
	Indoor	IP20							
Compressor	Type / No. Unit	Inverter Variable Speed Scroll/1							
	Starting Method	Inbuilt Soft Starting							
No. of Refrigeration Circuits / No. of Capacity Stages		1/Variable Capacity							
Refrigerant		R32						R410a	
Fans (Type x Number per Unit)	Outdoor	Axial / EC Motor x 2						Axial / AC Motor x 2	
	Indoor	Twin Centrifugal / EC Motor x 1							
Airflow Indoor (l/s)	Maximum	780	920	1060	780	920	1060	1230	1360
	Nominal	650	770	890	650	770	890	1020	1130
	Minimum	230	260	300	230	260	300	350	400
Outdoor Dimensions (mm)	Depth	530						685	
	Height	1110						1105	
	Width	1365						1685	
Indoor Dimensions (mm)	Depth	615	615	680	615	615	680	695	
	Height	412	412	435	412	412	435	485	
	Width	1090	1290	1420	1090	1290	1420	1470	
<sup>15</sup> Nominal Weights (kg)	Outdoor	148	148	155	148	148	155	200	209
	Indoor	44	53	61	44	44	53	75	78
<sup>16</sup> Sound Pressure Level (dBa) @ 3m	Outdoor (quiet/rated/max)	45.4 / 52.4 / 54.8	47.6 / 56.4 / 56.4	47.4 / 56.4 / 56.4	45.1 / 52.0 / 54.5	47.2 / 52.7 / 55.9	47.4 / 55.9 / 55.9	41.9 / 46.3 / 60.0	44.3 / 46.9 / 60.0
<sup>17</sup> Sound Power Level (dBa)	Outdoor (quiet/rated/max)	64.1 / 71.3 / 73.6	66.0 / 75.1 / 75.1	65.7 / 75.1 / 75.1	63.6 / 70.5 / 72.9	65.5 / 71.4 / 74.6	65.7 / 74.6 / 74.6	61.3 / 65.7 / 79.6	63.7 / 65.8 / 79.6
MEPS Compliant		Yes							
Demand Response Capability (AS4755.3)		Yes							
BMS and Home Automation Compatibility (ICUNO-MOD)		Yes							
Hydrophilic Blue Fin Coil Coat Protection - Indoor and Outdoor Coils		Yes							
Home Automation / Remote On / Off Capability		Yes							
Manual Inputs Capable for Third party Control		Yes							
Maximum Number of Zones		8							
Run and Fault Indication		Yes							
Two Piece Indoor Option		Yes							
Operating Range		-10°C up to 52°C						-15°C up to 54°C	

# Controller Specifications



## Wall Controller

Feature	NEO	LR7
Maximum number of controllers	2	3
Choice of colour	Ceramic White / Jet Black	
Screen	7" Touchscreen, 1024 x 600, IPS -Wide viewing angle, enhanced backlight	Enhanced LED backlight, 7 segment display
Dimensions - (Hmm x Wmm x Dmm)	118 x 212 x 17	130 x 130 x 14.4
No. of supported zones	8	8
24 Hour Countdown Timer	Yes	Yes
7 Day Timeclock	Yes	Yes
Temperature Adjustment (0.5°C)	Yes	Yes
On-Board Temperature Sensor	Yes	Yes
ZoneAware Technology	Yes	Yes
Filter Timer Notification	Yes	Yes
Near Field Communication (NFC)	Yes <sup>1</sup>	Yes <sup>1</sup>
Humidity Sensor	Yes	-
Proximity Sensor / Light Sensor	Yes	-
Wi-Fi Compatibility - inbuilt	Yes <sup>2</sup>	-
Over-The-Air-Updates	Yes <sup>3</sup>	-
Service and System Dashboards	Yes	-
Child Key Lock with PIN code	Yes	-

## Remote Sensor

Maximum Number of Sensors	16	3
Choice of colour	Ceramic White / Jet Black	
L Series Wired Temperature Sensor - 63mm (H) x 41mm (W) x 9.4mm (D)	Yes	Yes
Neo Sense Wireless Temperature Sensor - 80mm (H) x 83mm (W) x 18mm (D)	Yes <sup>1</sup>	-
Individual Temperature Control	Yes	-
Portable Stand available in Ceramic White (NSHW-10) or Jet Black (NSHB-10)	Yes <sup>2</sup>	-
Near Field Communication (NFC) Compatible	Yes <sup>3</sup>	-

## Zone Controller

Maximum Number of Controllers	16	-
Choice of colour	Ceramic White / Jet Black	
NEO Zone Controller Temperature Sensor - 93mm (H) x 90mm (W) x 18mm (D)	Yes	-
Screen	2.7" LED	-
Individual Temperature Control	Yes	-
Humidity, Proximity and Light Sensor	Yes	-
Portable Stand available in Ceramic White (NSHW-10) or Jet Black (NSHB-10)	Yes <sup>2</sup>	-
Zone On/Off	Yes	-
System On/Off	Yes	-
Zone Timer	Yes	-

## NEO Connect App

Neo Connect Mobile App	Yes <sup>4</sup>	-
Geo-Fencing	Yes	-
Smart Assistant Compatible (Google Home, Alexa)	Yes	-

### Foot Notes 1-14

- Based on unit rating excluding indoor fan kW.
- EER Rated = Energy Efficiency Ratio (Rated Capacity Cooling / Rated Input Cooling).
- COP Rated = Coefficient of Performance (Rated Capacity Heating / Rated Input Heating).
- Refer to AS/NZS 3000 "Australian/New Zealand Wiring Rules" for more details.
- Refer to Catalogue Unit Weight Distribution Guide section for details of weight points.
- Sound Pressure Level at 3m distance is determined as the measured sound pressure at 3m perpendicular to the coil side of the condenser. Sound levels are determined in an anechoic chamber and may differ once the unit is installed due to ambient conditions.
- Measured based on ISO 3743-1. Determination of Sound Power Levels and Sound Energy Levels of Noise Sources Using Sound Pressure.

### Important Notes:

- The Local Electricity Supply Authority may require limits on - starting current, running current and voltage drop, please check prior to purchase.
- When the outdoor temperature exceeds the rated conditions, the cooling/heating capacities may decrease the rated nett values.
- Specifications subject to change without notice.
- All pictures shown are for illustration purposes only.

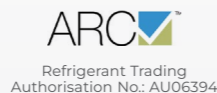
- Near Field Communications requires compatible device. Provide access to wall control operating instructions
- Wi-Fi compatibility with 802.11 b/g/n 2.4 GHz
- NEO Touch must be connected to Wi-Fi with internet and cloud access
- NEO Sense available for us as wired or wireless. Wireless operation requires 3 x AAA batteries (up to 5 Year battery life)
- Portable stand compatible with wireless NEO Zone and NEO Sense.
- Near Field Communication (NFC) requires compatible device. Provides access to NEO Connect Mobile App.
- Compatible with ActronAir NEO Touch Controller (NTW-1000, NTB-1000). Available on iOS 9 or later / Android Version 6 Marshmallow or later.

### Rated Conditions:

Cooling: 35°C DB Outdoor / Air Entering Indoor 27°C DB, 19°C WB  
Heating: 7°C DB, 6°C WB Outdoor / Air Entering Indoor 20°C DB

### Warranty:

For full terms and conditions of ActronAir warranty, please refer to warranty terms document - [www.actronair.com.au](http://www.actronair.com.au)



Find out more  
[actronair.com.au/advance](http://actronair.com.au/advance)

Australian made products includes controls outdoor and indoor unit



# ActronAir

Australian family owned  
and operated since 1984

[actronair.com.au](http://actronair.com.au)  
1300 522 722

© iPhone, iPod and iPad are registered trademarks of Apple Inc. © Android is a trademark of Google Inc.  
© Google, Google Play, Google Home and Nest Audio are trademarks of Google LLC.  
© Amazon, Alexa and all related logos are trademarks of Amazon.com, Inc. or its affiliates.



ActronAir maintains an unwavering dedication to incessantly enhancing its product offerings in order to uphold the utmost standards of quality and reliability, while simultaneously adhering to local regulations and market demands. The specifications outlined within this document are subject to modification without prior notice, as ActronAir strives to integrate the most recent advancements and innovations into its product line-up for the benefit of its valued customers. It is important to note that the information provided in this brochure is purely informative in nature and should not be utilised as a substitute for the Engineering or Installation Manuals. The cooling and heating capacities referenced for the products represent nominal capacities under standard operating conditions. ActronAir, the brand, hereby absolves itself of any responsibility in the broadcast sense, for any form of damage, whether direct or indirect, that may arise from the utilisation and interpretation of the recommendations provided within this document.