

## Powerful performance with complete control.

Advance combines the world leading Tru-Inverter compressor with unique Variable Fan Technology to deliver the perfect amount of heating or cooling, right down to a fraction of a degree, providing the best in comfort and energy efficiency.



Guaranteed to perform up to 54°C

Save up to \$900 per year on your energy bills

Up to 75% more efficient than conventional fixed speed air conditioners

### Nett (Rated) Capacity - Cooling - Single Phase

12.00 kW CRV140S/EVV140S	14.00 kW CRV160S/EVV160S	16.00 kW CRV180S/EVV180S
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### Nett (Rated) Capacity - Cooling - Three Phase

14.00 kW CRV160T/EVV160S	16.00 kW CRV180T/EVV180S	19.00 kW CRV210T/EVV210S
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21.00 kW CRV240T/EVV240S
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*That's better. That's Actron.*

## Features

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- » Vertical Discharge
- » Energy Smart Zoning
- » Variable Fan Technology
- » Blue fin epoxy coated indoor + outdoor coil protection
- » BMS Option
- » Sound Reduction System
- » Efficient EC Inverter Indoor Fan
- » R410A refrigerant
- » Integrated zone card ready for up to 8 zones.
- » Tru-Inverter technology
- » Supports up to 3 Wall Controllers and up to 3 Remote Temperature Sensors

## Compressor

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- » Tru-Inverter Variable Speed Scroll

## Power

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- » Single phase – 230V / 1Ph + N / 50Hz
- » Three phase – 400V / 3Ph + N / 50Hz

## Controller Options

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- » LC7
- » LR7
- » Group Control
- » NEO

## Connectivity & Sensor Options

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- » BMS Compatible – Modbus
- » Humidity Sensor – Duct Mount or Surface Mount\*
- » Temperature Sensor – Bead or Surface Mount
- » CO2 Sensor\*

## Additional Options

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- » Economy Cycle\*
- » Vertical Evaporator
- » 2 Piece Evaporator
- » Horizontal Condenser Fan
- » Coil Coat Indoor & Outdoor

## Zoning

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- » Day Night
- » Individual Room

\*Requires Group Control.

## Technical Specifications - Advance System 12.20-21.55kW

Technical Information								
		Single Phase			Three Phase			
OUTDOOR MODEL		CRV140S	CRV160S	CRV180S	CRV160T	CRV180T	CRV210T	CRV240T
INDOOR MODEL		EVV140S	EVV160S	EVV180S	EVV160S	EVV180S	EVV210S	EVV240S
<sup>1</sup> Total (Gross) Capacity (kW) (AS/NZS3823.1.2)	Cooling (Rated)	12.20	14.25	16.30	14.25	16.30	19.40	21.55
	Heating (Rated)	12.80	14.75	16.70	14.75	16.70	19.60	22.50
Nett (Rated) Capacity (kW) (AS/NZS3823.1.2)	Cooling (Min/Rated/TRUMAX)	2.65 / 12.00 / 14.00	3.50 / 14.00 / 16.00	3.70 / 16.00 / 18.00	2.50 / 14.00 / 16.00	3.75 / 16.00 / 18.00	5.20 / 19.00 / 21.00	5.20 / 21.00 / 24.00
	Heating (Min/Rated/TRUMAX)	2.50 / 13.00 / 15.00	3.20 / 15.00 / 17.00	3.90 / 17.00 / 18.95	2.50 / 15.00 / 17.00	3.85 / 17.00 / 19.00	4.60 / 20.00 / 23.00	5.00 / 23.00 / 25.00
Input Power (kW) (AS/NZS3823.1.2)	Cooling (Rated)	3.63	4.29	4.93	4.24	4.86	5.70	6.10
	Heating (Rated)	3.97	4.22	4.99	4.39	4.91	5.50	6.57
<sup>2</sup> EER Rated (AS/NZS3823.1.2)	Cooling (Rated)	3.31	3.26	3.25	3.30	3.29	3.33	3.44
<sup>3</sup> COP Rated (AS/NZS3823.1.2)	Heating (Rated)	3.27	3.55	3.41	3.42	3.46	3.64	3.50
Power Supply (V / Ph / Hz)	Outdoor	230V / 1Ph + N / 50Hz			400V / 3Ph + N / 50Hz			
	Indoor	230V / 1Ph + N / 50Hz			230V / 1Ph + N / 50Hz			
Rated Load Amps (AS/NZS3823.1.2)	Outdoor / Indoor / Total	15.2 / 1.6 / 16.8	17.7 / 2.2 / 19.9	20.2 / 2.7 / 22.9	6.0 / 2.2 / 8.2	7.8 / 2.7 / 10.5	7.8 / 3.6 / 11.4	8.4 / 3.8 / 12.2
	Full Load Amps (AS/NZS3823.1.2)	21.2 / 2.4 / 23.6	24.6 / 3.0 / 27.6	27.1 / 3.8 / 30.9	11.9 / 3.2 / 15.1	11.8 / 4.4 / 16.2	16.4 / 5.5 / 21.9	16.6 / 6.0 / 22.6
<sup>4</sup> Circuit Breaker Amps		25.0	32.0	32.0	20.0	20.0	25.0	25.0
IP Rating	Outdoor	IP44						
	Indoor	IP20						
Compressor	Type / No. per Unit	Tru-Inverter Variable Speed Scroll / 1						
	Starting Method	Inbuilt Soft Starting						
No. Refrigeration Circuits/No. Capacity Stages (Capacity range)		1 / Variable Capacity (20-100%)						
Refrigerant		R410A						
Fans (Type x Number per unit)	Outdoor	Axial / 6 Pole External Rotor / Direct Drive x2						
	Indoor	Twin Deck Centrifugal / ECM Direct Drive x1						
Airflow Range Indoor (l/s)	Maximum	760	900	1020	900	1020	1230	1360
	Nominal	630	750	850	750	850	1020	1130
	<sup>9</sup> Minimum	220	250	300	250	300	350	400
Outdoor Dimensions (mm)	Depth	580	580				685	
	Height	985	1045				1105	
	Width	1460	1460				1685	
Indoor Dimensions (mm)	Depth	615		680	615	680	695	
	Height	412		435	412	435	485	
	Width	1290		1420	1290	1420	1470	
<sup>5</sup> Nominal Weight (kgs)	Outdoor	131	144	152	150	155	200	209
	Indoor	53	56	69	56	69	75	78
<sup>6</sup> Sound Pressure Level (dBA)	Outdoor (low/high fan)	40.2 / 45.0 / 50.9		48.7 / 49.1 / 52.8		47.1 / 48.3 / 52.1		41.9 / 46.3 / 60.0
<sup>7</sup> Sound Power Level (dBA)	Outdoor (low/high fan)	58.5 / 64.3 / 69.7		65.8 / 67.0 / 71.0		66.3 / 67.8 / 71.5		61.3 / 65.7 / 79.6
MEPS Compliant		Yes	Yes	Yes	Yes	Yes	Yes	Yes
<sup>8</sup> Demand Response Capability (AS4755.3)		Capable	Capable	Capable	Capable	Capable	Capable	Capable

### Foot Notes 1-9

- 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.
- When Demand Response capability option is chosen, the air conditioner will be fully compliant with AS4755.3 in the following modes: DRM 1, 2, 3.
- Achieved when operating on Variable Fan Mode.

## Controller Specifications

Control Options	
L Series Wall Controller - LR7-1W (White) or LR7-1G (Grey)	Up to 3
NEO Touch Wall Controller - NTW-1000 (White) or NTB-1000 (Black)	Up to 2
Remote Sensors	Up to 3
BMS and Home Automation Compatibility (ICUNO-MOD)	Optional

## L Series

Specifications	
Compatible with ActronAir Series	Advance Series, Classic Series 2, Variable Capacity Commercial
Screen	Enhanced LED backlight, segment display
Temperature Sensor	Yes
Dimensions (mm)	130mm x 130mm x 14.4mm (HxWxD)

## NEO Touch Wall Controller

Specifications	
Compatible with ActronAir Models	Advance Series, Classic Series 2, Variable Capacity Commercial
Screen	7" Touchscreen, 1024x600, IPS - Wide viewing angle, enhanced backlight
Wi-Fi compatibility	802.11 b/g/n 2.4 GHz
Temperature Sensor	Yes
Humidity Sensor	Yes
Proximity/Light Sensor	Yes
Dimensions (mm)	118mm x 212mm x 17mm (HxWxD)

## NEO Connect Mobile App

Specifications	
Compatible with ActronAir Models	NTW-1000, NTB-1000
Platform	iOS and Android
OS Requirements	iOS 9 or later – Android Version 6 Marshmallow or later
Connection Requirements	Wi-Fi or Mobile Data with Internet access

### 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.

### 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)