



Whole of Home

# ULTRASLIM 2

Ducted comfort, for when space is at a premium.



**ActronAir**

# ActronAir. Because Australia needs Australian air conditioning.

ULTRASLIM 2

The year 1984 saw Advance Australia Fair become our National Anthem, the 1 dollar coin come into circulation and a small family air conditioning business open its doors. Today, ActronAir is a proud Australian company recognised for making world-class air conditioners. Well, it stands to reason. The team at ActronAir experience the harsh Australian conditions first hand, and our climate places demands on air conditioning not found in other parts of the world.

And that's why ActronAir's engineers have developed the most advanced air conditioning systems specifically for the unique and harsh Australian environment.

Engineered with a superior operating range from -25°C to 50°C, and a host of innovative features, ActronAir's UltraSlim low profile ducted system is engineered to withstand the most extreme conditions Australia can throw at it.

## UltraSlim keeps a low profile

With one of the lowest heights of any ducted unit in its category, ActronAir's UltraSlim low profile ducted system not only gives you more flexibility when it comes to installation, but ensures optimal comfort without compromise.

And with a host of state-of-the-art features, including DC fan motors, DC rotary compressors, and programmable timers, our new UltraSlim ducted split system uses less power than ever before.



  
**More than  
a quarter of a  
million Aussies  
take comfort in  
ActronAir**



## A superior operating range suited for Australia

Most overseas air conditioners are only designed with a maximum temperature range of 43°C to 46°C. The UltraSlim low profile ducted system operates up to 50°C. Big deal? Well 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 a wall or fence where there's low air circulation.

“ Nothing beats performing under extremes. Engineered for Australia, you can trust ActronAir to be there when you need it most. ”

**Mark 'Frosty' Winterbottom**  
2015 V8 Supercars Champion



## Space saving convenience

### Tailored for tight spaces

The UltraSlim indoor unit hides in the tightst of spaces. At only 249mm high\*, it provides maximum comfort with minimal footprint.

\*Applicable to LRE-071CS & LRE-100CS

## Controlling the pressure

### Precise airflow

With its high static design, the UltraSlim delivers the required airflow to your space easily, unlike other systems that can struggle and take a lot longer to cool or heat your space.

## Comfy in a hurry

### Turbo mode

If you're in a rush to get comfortable, Turbo mode allows UltraSlim to run over-capacity for a short period to reach your desired temperature fast.\*

## Here for the long haul

### Protect your investment

ActronAir now uses gold fin epoxy coated protection on both indoor and outdoor coils as standard. This is to further reduce corrosion from the harsh Australian conditions, as well as assisting the defrosting process, thus improving heating efficiency.



## Outstanding flexibility

### Engineered for ease

When it comes to installation, the UltraSlim provides flexibility and convenience. With the ability to change the return air intake from rear to bottom and drain connections from left to right, the UltraSlim enables you to have various configurations to suit your installation requirements.

\*Flexible Air Intake applicable on LRE-071, LRE-100 & LRE 125

## Pick up where you left off

### Auto-restart

Blackout? No problem. UltraSlim's auto-restart function means it restarts automatically in its last programmed setting once power is restored, which means you don't have to spend unnecessary time reprogramming your system.

## Quiet please

### Smooth operator

The UltraSlim's innovative indoor fan design produces quieter, smoother airflow for absolute comfort.

## More included

### The extras count

To avoid those annoying extra costs, the UltraSlim comes with many features our competitors don't include, such as a built-in drain pump, remote on/off and fault alarm outputs for installation ease and efficiency.

\*UltraSlim can only maintain Turbo mode for a maximum of 20 minutes.



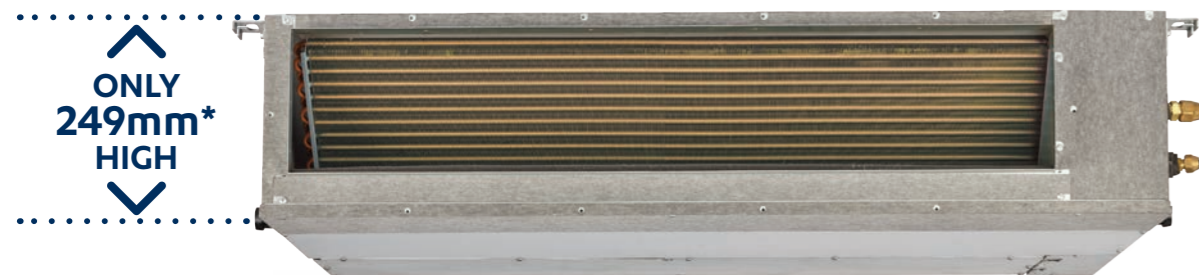
## The new standard for non-standard roof spaces

At ActronAir we've always done things a little differently to the rest. We're always looking at how Australians really live and engineering real solutions to meet their needs. That's why we have developed the UltraSlim low profile ducted system, the new standard in ducted air conditioning for non-standard roof spaces. Why should homes and workplaces that are a little different to the norm go without ducted comfort?

With its Slimline profile, UltraSlim is perfect for installations where ceiling space is at a premium, standing at just a staggering 249mm\*, it provides flexibility and freedom of design meeting challenges of the modern residential & medium density apartment developments.

Our low profile ducted system not only takes up less room, but also uses less power to deliver precise airflow throughout the entire home or workplace. Other low profile systems on the market normally come with less powerful fans which can limit performance. The UltraSlim's fan provides plenty of airflow thanks to its market leading external static pressure design, delivering better control and comfort.

It's what Australians' have come to expect from the innovators of Australian air conditioning.



\* applicable to LRE-071CS & LRE-100CS

## Ease of Installation - Separable Design

ActronAir's 17kW ducted system has been redesigned. The two-piece construction makes installation into space-constrained roof spaces easier than ever before, while still providing the same level of quality and performance that our customers expect.

In addition, the increased airflow variability allows for greater flexibility in room layout, ensuring that you will get the most out of your new air conditioning unit.

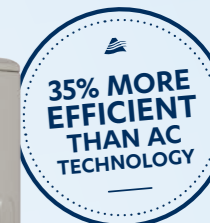


# Better Engineered

## AC vs DC for rockin' efficiency and performance

The UltraSlim system uses ultra-energy-efficient DC, or direct current, inverter technology in its inverter compressor, indoor fans and outdoor fan. Some companies use less efficient AC technology, or combinations of both. This can make a significant difference to your electricity bill.

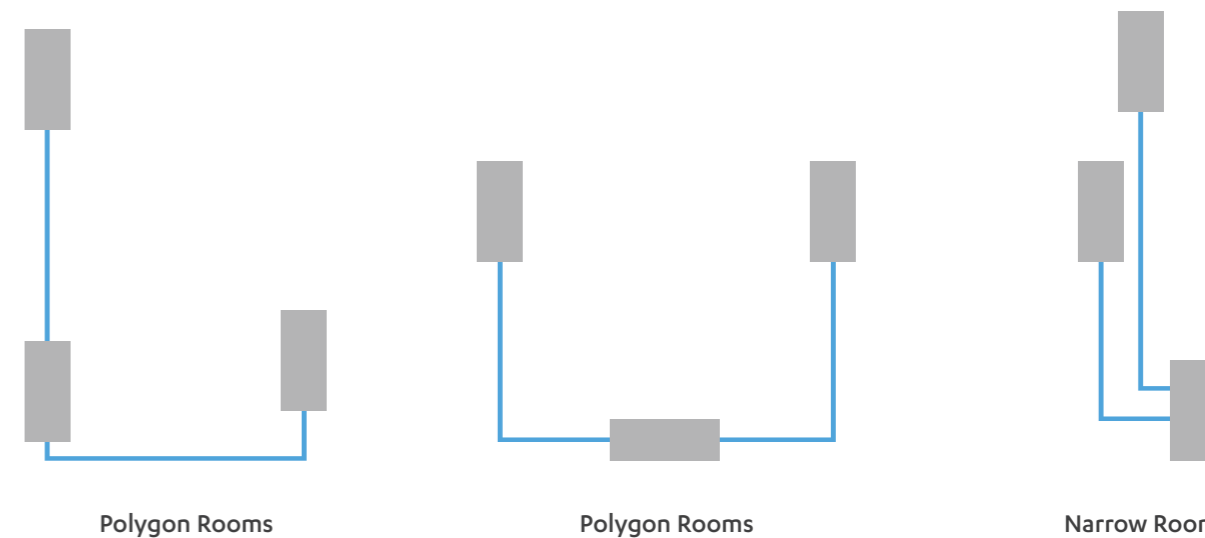
With an impressive 25 frequency stages, our inverter compressor is up to 35% more efficient than AC technology, while our upgraded DC outdoor fan with five speed settings is up to 40% more efficient. The result is improved efficiencies overall, as well as optimal cooling performance.



## Seamless Design

ActronAir's UltraSlim Series 2 Split Ducted systems allow for a range of diffuser designs to best suit any decor.

Versatile and easy installation also made possible with the capability of adjusting the distance between the air intake and air outlet vents to create the optimal airflow configuration.







## Better control on the wall

UltraSlim's wired wall controller features a large screen and buttons, all in easy to read 'plain English', for more logical and legible daily use.



## Set your comfort remotely with Easy Connect

The optional EasyConnect upgrade allows you to control your UltraSlim system wirelessly via your smart device. Cool your home down as you leave work or check you've turned off the air conditioning. It's all in the palm of your hand.

### Features:

- ✔ On / Off
- ✔ Turbo Mode
- ✔ Weekly Scheduling
- ✔ Temperature Set
- ✔ Operation Mode
- ✔ Sleep Mode

## Works with Google Home & Amazon Alexa

Experience the ultimate in-home automation with Actron Easy Connect and the seamless integration of Google Home or Amazon Alexa. With hands-free voice control, you can adjust your air conditioning system with ease, from anywhere in your home.



"Alexa, set <device> to cool"

"Alexa, set <device> to 22°C"

"Alexa, what is the temperature on <device>"



# Better Service

## Local service you can count on

Our National Service Network has service staff on the ground and parts on the shelves. They're friendly, reliable and prompt. Furthermore, ActronAir's 5 year warranty will keep you comfortable with absolute peace of mind.



# Technical Specifications

## UltraSlim Split System 7.30 - 16.60kW (Single Phase)

Technical Information						
OUTDOOR MODEL		LRC-071CS	LRC-100CS	URC-125CS	URC-140CS	LRC-170CS
INDOOR MODEL		LRE-071CS	LRE-100CS	LRE-125CS	LRE-140CS	LRE-170CS
Nett (Rated) Capacity (kW) (AS/NZS3823.1.2)	Cooling (min - max)	7.30 (2.80 - 8.40)	10.50 (4.00 - 12.00)	12.90 (5.00 - 15.00)	14.00 (5.60 - 16.00)	16.60 (6.80 - 19.50)
	Heating (min - max)	7.70 (3.00 - 9.00)	11.50 (4.20 - 12.50)	13.40 (5.20 - 16.00)	14.35 (6.40 - 18.00)	17.60 (7.00 - 21.00)
Input Power (kW) (AS/NZS3823.1.2)	Cooling Rated	2.06	3.09	3.63	4.11	4.93
	Heating Rated	1.73	2.70	3.19	3.46	4.39
<sup>1</sup> EER Rated (AS/NZS3823.1.2) <sup>2</sup> COP Rated (AS/NZS3823.1.2)	Cooling Rated	3.54	3.40	3.55	3.41	3.37
	Heating Rated	4.45	4.26	4.20	4.15	4.01
Power Supply - (V / Ph / Hz)	Outdoor	220 - 240 V / 1Ph+N / 50Hz				
Rated Load Amps (AS/NZS3823.1.2)	Cooling	9.1	13.9	16.2	18.1	22.5
	Heating	7.4	12.1	14.7	15.6	19.5
Full Load Amps (AS/NZS3823.1.2)		16.0	21.0	31.0	31.0	31.0
Circuit Breaker Amps		20.0	25.0	32.0	32.0	32.0
<sup>3</sup> Suggested Minimum Mains Cable Size		2.5mm <sup>2</sup>	4.0mm <sup>2</sup>	6.0mm <sup>2</sup>	6.0mm <sup>2</sup>	6.0mm <sup>2</sup>
<sup>3</sup> Suggested Minimum Indoor to Outdoor Power Cable Size & Type		1.0mm <sup>2</sup> 2 Core + Earth	1.0mm <sup>2</sup> 2 Core + Earth	1.0mm <sup>2</sup> 2 Core + Earth	1.0mm <sup>2</sup> 2 Core + Earth	1.0mm <sup>2</sup> 2 Core + Earth
IP Rating	Outdoor	IP24	IP24	IP14	IP14	IP14
	Indoor	IPX0	IPX0	IPX0	IPX0	IPX0
Compressor		Inverter Twin-Rotary				
Refrigerant		R32				
Airflow Range Indoor (l/s)	High	450	630	780	875	1060
	Medium	370	525	650	730	890
	Low	300	440	520	585	700
External Static Pressure Range (Pa)		0 to 160		0 to 200		
Airflow l/s	(Min / Nom / Max)	280 / 390 / 500	400 / 550 / 700	500 / 650 / 800	550 / 750 / 950	600 / 850 / 1100
Outdoor Dimensions (mm)	Depth	342	410	415		
	Height	673	810	1333		
	Width	890	946	952		
Indoor Dimensions (mm)	Depth	774	774	874	625	858
	Height	249	249	300	380	440
	Width	1100	1360	1200	1200	1400
<sup>4</sup> Nominal Weight (kgs)	Outdoor	45	70.1	95.1	95.1	95.8
	Indoor	31.6	39.9	47	53.3	81.1
Indoor Sound Pressure Level (dBA)	(Low / Med / High)	38.5 / 35.5 / 32.5	45.0 / 42.0 / 39.5	50.0 / 48.0 / 46.0	46.5 / 43.5 / 40.0	53.0 / 49.5 / 45.3
<sup>5</sup> Outdoor Sound Pressure Level (dBA) 1m		60	60	60	60	60.5
<sup>6</sup> Outdoor Sound Power Level (dBA)		65	68	70	71	72
Outdoor Operating Range (°C)	Cooling	-15°C to 50°C				
	Heating	-25°C to 30°C				
	Dry	0°C to 50°C				
MEPS Certified		Yes	Yes	Yes	Yes	Yes

### Foot Notes 1-7

1. EER Rated = Energy Efficiency Ratio (Rated Capacity Cooling, Rated Input Power Cooling)
2. COP Rated = Coefficient of Performance (Rated Capacity Heating, Rated Power Heating)
3. Refer to AS/NZS 3000 'Australian/New Zealand Wiring Rules' for more details.
4. Refer to Catalogue Unit Weight Distribution Guide section for details of weight points.
5. Sound Pressure Level at 1m distance is determined as the measured sound pressure at 1m perpendicular to the coil side of the condenser.
6. Determination of Sound Power Levels of Noise Sources, AS1217.2 - Precision Methods for Broad-Band Sources in Reverberation Rooms.
7. 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

### 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

Features						
OUTDOOR MODEL		LRC-071CS	LRC-100CS	URC-125CS	URC-140CS	LRC-170CS
INDOOR MODEL		LRE-071CS	LRE-100CS	LRE-125CS	LRE-140CS	LRE-170CS
Wired Wall Controller		WC-02	WC-02	WC-02	WC-02	WC-02
Follow Me Function		Yes	Yes	Yes	Yes	Yes
Sleep		Yes	Yes	Yes	Yes	Yes
Turbo		Yes	Yes	Yes	Yes	Yes
Auto Defrost Function		Yes	Yes	Yes	Yes	Yes
Timer On/Off		Yes	Yes	Yes	Yes	Yes
7-Day Scheduler / Weekly timer		Yes	Yes	Yes	Yes	Yes
Dehumidification (Dry Mode)		Yes	Yes	Yes	Yes	Yes
Return Air Sensor		Yes	Yes	Yes	Yes	Yes
External Static Pressure Settings		Yes	Yes	Yes	Yes	Yes
Drain Pump		Yes	Yes	Yes	Yes	Yes
Bottom Return Air Connection		Optional	Optional	Optional	Optional	Optional
Outside Air Intake		Optional	Optional	Optional	Optional	Optional
Hanging Brackets		Yes	Yes	Yes	Yes	Yes
Hydrophilic Aluminium Coil Protection	Indoor	Yes	Yes	Yes	Yes	Yes
	Outdoor	Yes	Yes	Yes	Yes	Yes
Demand Reponse		Ready	Ready	Ready	Ready	Ready
Indoor Fan Speed		4-Speed	4-Speed	4-Speed	4-Speed	4-Speed
Outdoor Fan Speed		5-Speed	5-Speed	5-Speed	5-Speed	5-Speed
Auto Restart Auto Power Failure		Yes	Yes	Yes	Yes	Yes
Fault Alarm Output Port		Yes	Yes	Yes	Yes	Yes
Remote On/Off		Yes	Yes	Yes	Yes	Yes
Left-Right Hand Drain Connection - Gravity Fed		Yes	Yes	Yes	Yes	Yes
Easyconnect Wi-Fi App		Optional	Optional	Optional	Optional	Optional

Field Piping and Connections						
Refrigerant Charge	Factory Charge - (g)	1750	2600	3600	4000	
Refrigerant Charge	Pre-Charge Length - (m)	20				
	Additional Refrigerant Charge - (g/m)	24				
	Minimum Field Pipe Length - (m)	3				
Maximum Field Pipe Length - (m)	50	75				
Maximum Vertical Height Differential (m) included in max length	30					
Field Pipe Size	Liquid Pipe - mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe - mm (inch)	15.9 (5/8)	15.9 (5/8)	15.9 (5/8)	15.9 (5/8)	19.05 (3/4)
Outdoor Unit	Liquid Pipe - mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe - mm (inch)	15.9 (5/8)	15.9 (5/8)	15.9 (5/8)	15.9 (5/8)	19.05 (3/4)
Indoor Unit	Liquid Pipe - mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe - mm (inch)	15.9 (5/8)	15.9 (5/8)	15.9 (5/8)	15.9 (5/8)	19.05 (3/4)
Wiring Method	Hardware to Outdoor					
Interconnect Data Cable	2 Core 14/0.20 (0.44m <sup>2</sup> ) Shielded					
Interconnect Power Cable	2 Core + Earth					





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