



Whole of Home



# ULTRASLIM

Ducted comfort, for when space is at a premium.



*That's better. That's Actron.*



**ActronAir**

# ActronAir. Because Australia needs Australian air conditioning.

ULTRASLIM

The year 1984 saw Advanced 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 tightest of spaces, providing maximum comfort with minimal footprint.

## 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.

## Here for the long haul

### Coated coil protection

ActronAir uses blue fin epoxy coated protection on UltraSlim's indoor and outdoor coils. This reduces corrosion from the harsh Australian conditions, as well as assisting the defrosting process, thus improving heating efficiency.

## 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.\*



## 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.

## 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

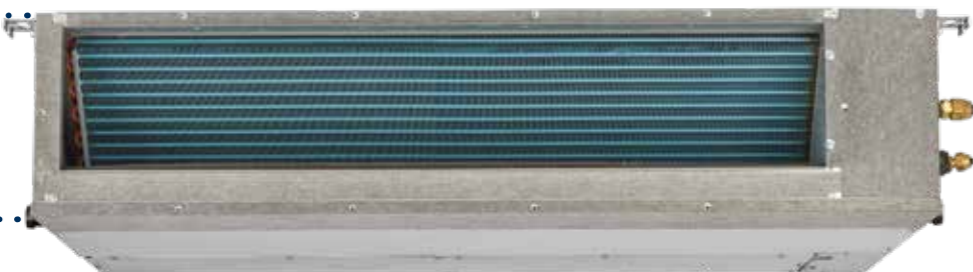
At ActronAir we've always done things a little differently to the rest. We're always looking at how Australians really live and engineering real solutions to meet their needs. That's why we have developed the UltraSlim low profile ducted system, the new standard in ducted air conditioning for non-standard 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 tight or hard to get to places. And standing at just a staggering 249mm\*, it doesn't get any slimmer than the UltraSlim.

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.

ONLY  
249mm\*  
HIGH



\* LRE-130AS - 300mm high

# 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.



35% MORE EFFICIENT THAN AC TECHNOLOGY

INDOOR & OUTDOOR FANS 40% MORE EFFICIENT



# Better Control



## 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.



# Better Comfort

## Follow me for a more attuned temperature

In most air conditioners, the temperature sensor is in the indoor unit. With UltraSlim, we have put an additional sensor inside the wired wall controller. This means that you'll have more precise temperature control and comfort at its location.

# 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 Low Profile Split Ducted Variable Capacity (Single Phase)

Technical Information				
OUTDOOR MODEL		URC-071AS	URC-100AS	URC-140AS
INDOOR MODEL		LRE-071AS	LRE-100AS	LRE-130AS
Nett (Rated) Capacity (kW) (AS/NZS3823.1.2)	Cooling (min - max)	7.10 (2.80 - 8.40)	10.00 (4.00 - 12.00)	12.50 (5.00 - 15.00)
	Heating (min - max)	8.40 (3.00 - 9.00)	10.90 (4.20 - 12.50)	14.30 (5.72 - 17.16)
Input Power (kW) (AS/NZS3823.1.2)	Cooling Rated	2.07	3.02	3.61
	Heating Rated	2.38	3.05	3.58
<sup>1</sup> EER Rated (AS/NZS3823.1.2) <sup>2</sup> COP Rated (AS/NZS3823.1.2)	Cooling Rated	3.43	3.31	3.46
	Heating Rated	3.53	3.57	3.99
Power Supply - (V / Ph / Hz)	Outdoor	220 - 240 V / 1Ph+N / 50Hz		
Rated Load Amps (AS/NZS3823.1.2)	Cooling	10.0	14.1	15.8
	Heating	11.3	13.7	15.6
Full Load Amps (AS/NZS3823.1.2)		17.5	21.5	26.5
Circuit Breaker Amps		20.0	25.0	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>
<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
IP Rating	Outdoor	IP24	IP24	IP24
	Indoor	IP20	IP20	IP20
Moisture Removal (L/hr)		1.5	1.7	4.0
Compressor Type		Inverter Twin-Rotary	Inverter Twin-Rotary	Inverter Twin-Rotary
Refrigerant		R410A		
Airflow Range Indoor (l/s)	High	425	600	750
	Medium	368	520	650
	Low	315	440	550
External Static Pressure (Pa) at:	Maximum Airflow (SP1 / SP2 / SP3 / SP4)	13 / 45 / 77 / 117	4 / 48 / 85 / 131	- / 52 / 122 / 167
	Nominal Airflow (SP1 / SP2 / SP3 / SP4)	28 / 58 / 88 / 128	24 / 67 / 104 / 145	29 / 84 / 136 / 180
Outdoor Dimensions (mm)	Depth	410	410	415
	Height	810	810	1333
	Width	946	946	952
Indoor Dimensions (mm)	Depth	774	774	874
	Height	249	249	300
	Width	1100	1360	1200
<sup>4</sup> Nominal Weight (kgs)	Outdoor	61	69	101
	Indoor	31	40	46.1
Indoor Sound Pressure Level (dBA)	(Low / Med / High)	39 / 42 / 45	40 / 46 / 48	43 / 45 / 48
<sup>5</sup> Outdoor Sound Pressure Level (dBA) 1m		61	62	64
<sup>6</sup> Outdoor Sound Power Level (dBA)		69	70	71
Outdoor Operating Range (°C)	Cooling	-15°C to 50°C		
	Heating	-25°C to 30°C		
MEPS Compliant		Yes	Yes	Yes
<sup>7</sup> Demand Response Capability (AS4755.3)		Capable		

### 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](http://www.actronair.com.au)

Features				
OUTDOOR MODEL		URC-071AS	URC-100AS	URC-140AS
INDOOR MODEL		LRE-071AS	LRE-100AS	LRE-130AS
Wired Wall Controller		WC-02	WC-02	WC-02
Follow Me Function		Yes	Yes	Yes
Sleep		Yes	Yes	Yes
Turbo		Yes	Yes	Yes
Auto Defrost Function		Yes	Yes	Yes
Timer On/Off		Yes	Yes	Yes
7-Day Scheduler / Weekly timer		Yes	Yes	Yes
Dehumidification		Yes	Yes	Yes
Return Air Sensor		Yes	Yes	Yes
External Static Pressure Settings		Yes	Yes	Yes
Drain Pump		Yes	Yes	Yes
Bottom Return Air Connection		Optional	Optional	Optional
Outside Air Intake		Optional	Optional	Optional
Hanging Brackets		Yes	Yes	Yes
Hydrophilic Aluminium Coil Protection	Indoor	Yes	Yes	Yes
	Outdoor	Yes	Yes	Yes
Indoor Fan Speed		4-Speed	4-Speed	4-Speed
Outdoor Fan Speed		5-Speed	5-Speed	5-Speed
Auto Restart Function		Yes	Yes	Yes
Fault Alarm Output Port		Yes	Yes	Yes
Remote On/Off		Yes	Yes	Yes
Left-Right Hand Drain Connection – Gravity Fed		Yes	Yes	Yes

Field Piping and Connections				
Refrigerant Charge	Factory Charge - (g)	2900	3800	4900
	Pre-Charge Length - (m)	15	15	15
	Additional Refrigerant Charge - (g/m)	30	30	30
Minimum Field Pipe Length - (m)		5	5	5
Maximum Field Pipe Length - (m)		50	65	65
Maximum Vertical Height Differential (m) included in max length		25	30	30
Field Pipe Size	Liquid Pipe - mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe - mm (inch)	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)
	Gas Pipe - mm (inch)	15.9 (5/8)	15.9 (5/8)	19.05 (3/4)
Indoor Unit	Gas Pipe - mm (inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Liquid Pipe - mm (inch)	15.9 (5/8)	15.9 (5/8)	19.05 (3/4)
Wiring Method		Hardwire to Outdoor		
Interconnect Data Cable		2 Core 14/0.20 (0.44mm <sup>2</sup> ) Shielded		
Interconnect Power Cable		2 Core + Earth		

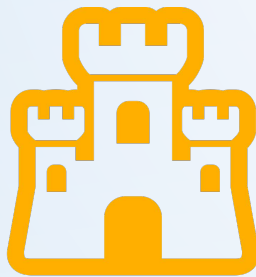




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Your local ActronAir specialist



**SANDCASTLE**  
AIR CONDITIONING & REFRIGERATION

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