

# Air Conditioning

## Split System





# Emerald.

## Designing a sustainable, safer future.



Designed by Emerald, an Australian company with 20 years of manufacturing experience, this air conditioning split system combines efficiency and reliability.

Ideal for both residential and commercial use, it delivers peak performance in any setting.



“ At Emerald, we want our customers to gain the most out of technology. We focus our energies on creating products that are technologically superior, last longer and perform better. ”

**STUART EDGLEY** EMERALD MANAGING DIRECTOR

*Stuart Edgley*

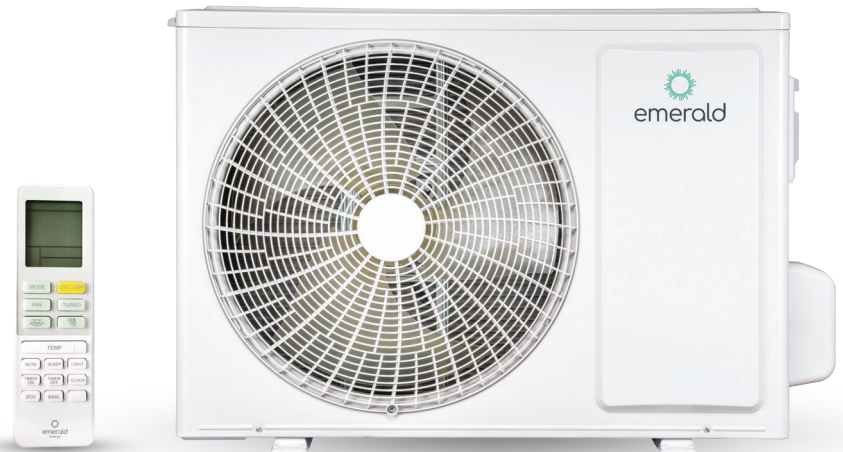
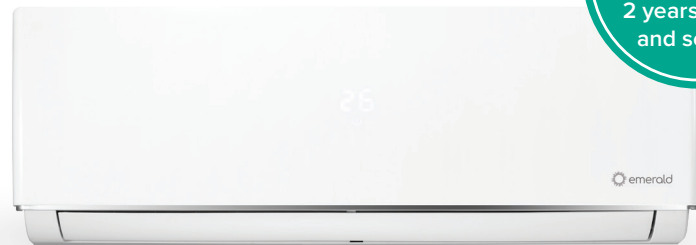


# Why Choose an Emerald Air Conditioning Split System?

Emerald's Air Conditioning Split System offers the best of both worlds - keeping your home cool in summer and warm in winter. This dual functionality makes it ideal for seasonal climates with cold winters and hot summers.

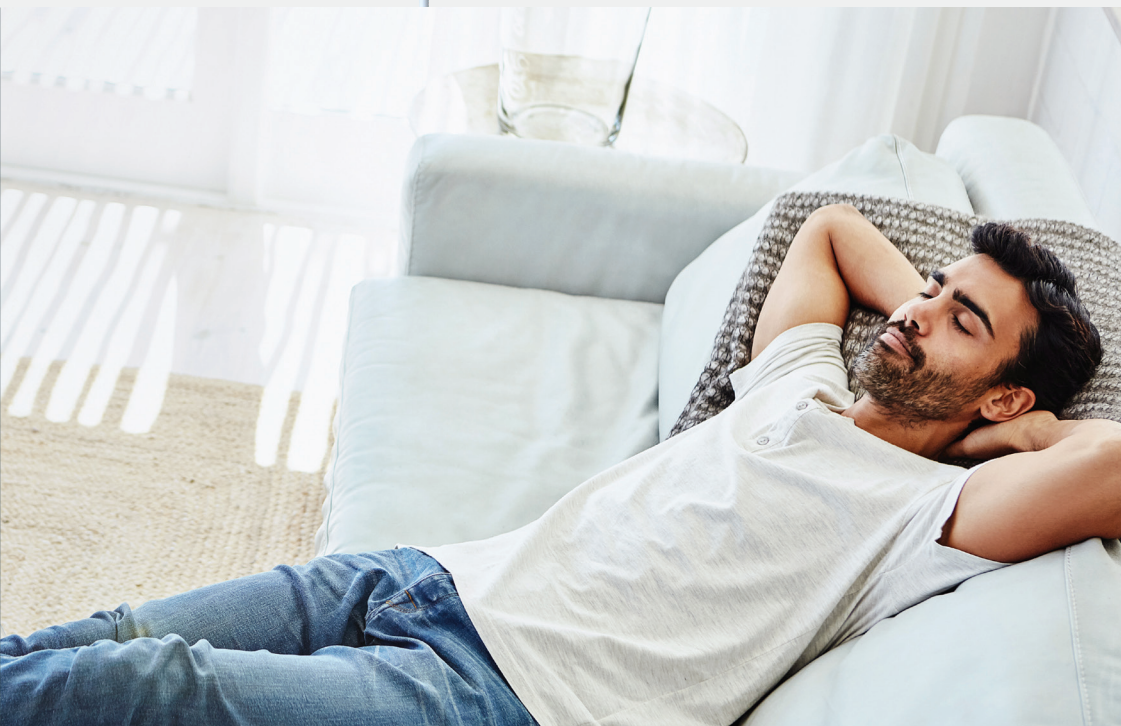
This air conditioning unit is exceptionally energy-efficient, thanks to its advanced refrigerant cycling technology, which leads to significant energy savings.

With a range of models, including 2.5kW, 3.5kW and 7.6kW you can find the perfect fit for any sized room on your property.



## Control your air conditioner - anytime, anywhere

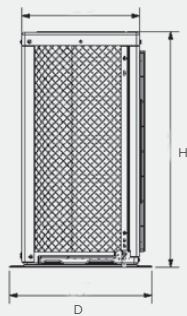
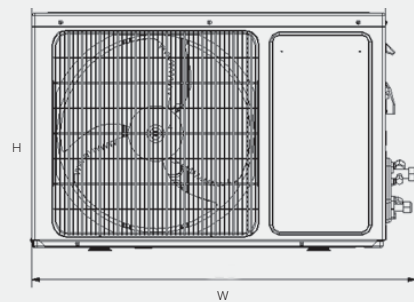
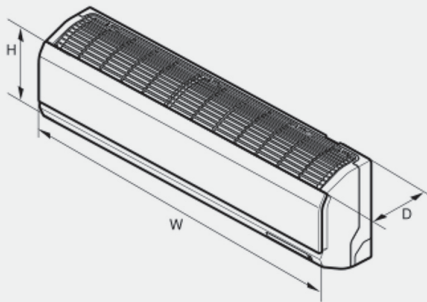
Compatible with Emerald's Smart Thermostat.



### Features.

- DC Inverter Technology
- ECO Mode
- I FEEL Mode
- Quiet Mode
- Silver Ion Filter
- Self Cleaning
- Fast Cooling
- Anti-Corrosion Design
- This product is Demand Response compliant (DRM1, DRM3 & DRM3).

Available in a range of sizes to suit every room



|               | INDOOR UNIT               | OUTDOOR UNIT |
|---------------|---------------------------|--------------|
|               | Net Dimensions WxHxD (mm) |              |
| <b>ACSS25</b> | 850×270×208               | 780×540×260  |
| <b>ACSS35</b> | 850×270×208               | 810×585×280  |
| <b>ACSS76</b> | 1323×363×276              | 900×750×340  |

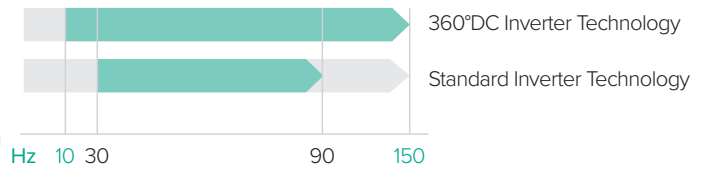
| RECOMMENDED SIZES                        |                                    |                            |
|------------------------------------------|------------------------------------|----------------------------|
| Room size                                | Example room                       | Recommended heating output |
| Small (up to 20m <sup>2</sup> )          | Bedroom, study                     | 2.5 to 3kW                 |
| Medium (21-40m <sup>2</sup> )            | Bedroom with ensuite, small lounge | 3 to 5kW                   |
| Large (41-60m <sup>2</sup> )             | Lounge, large kitchen              | 5 to 8kW                   |
| Very large (more than 60m <sup>2</sup> ) | Open plan areas, large lounges     | +8kW                       |



## INVERTER TECHNOLOGY

# High energy, low cost

Keep cool and avoid unexpected high energy bills! Emerald's Air Conditioning Split System utilises 360° full DC inverter technology, an inner air duct, and an advanced louvre fin to enhance energy efficiency significantly and decrease power consumption.



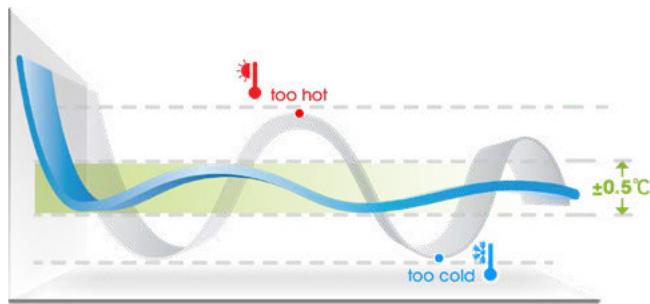
# Fast cooling

The compressor can reach the highest frequency quickly through advanced inverter technology to achieve fast cooling.

The Emerald Air Conditioning Split System also has powerful fans and efficient heat exchange systems to achieve three times the rapid cooling of the non-inverter air conditioners, allowing users to cool down quickly after turning the unit on.

## ± 0.5°C Inverter

Emerald's air conditioner will quickly increase the operating frequency to reach the set temperature and then operate at a low frequency to keep the room temperature constant.



■ Inverter Air Conditioner ■ Temperature Setting ■ Normal Conditioner





#### ECO MODE

## Up to 30% more efficient

Minimise power consumption with the push of a button. Activate Eco Mode to reduce power usage and save up to 30% more energy than a standard inverter AC.



#### I FEEL MODE

## Control your comfort

Emerald Air Conditioning Split System units are intuitive and intelligent. With I FEEL Mode, you'll never have to adjust the temperature yourself. The Emerald air conditioning remote control features a built-in digital thermometer that adjusts the room's temperature based on where the remote control is located.



#### QUIET MODE

## Peace and quiet

Quiet Mode allows the unit to operate silently without compromising power output or effectiveness.

The silent motor achieves superb airflow distribution while creating a cool, quiet and comfortable environment.



#### OPTIONAL

## Emerald smart thermostat

Turn your air conditioner into a smart air conditioner with Emerald's Smart Thermostat.

Control the climate of the property anytime, anywhere with AC Link and the Emerald app on your mobile phone.





#### SMART SELF CLEANING

## Cleans the air and cleans itself

Self-clean technology reduces the need for cleaning and maintenance and extends the life of your air conditioning unit, allowing you to enjoy superb air quality for longer. Select the function from the remote control and let the unit do the rest.



#### SILVER ION FILTER

## Clean, safe air

Every Emerald Air Conditioning Split System unit has a Silver Ion Filter, an antibacterial device designed to keep the air clean from bacteria and impurities. This filter effectively prevents mould build-up and boasts a 99.99% efficacy in preventing E. coli and a 97.14% efficacy in preventing S. aureus, commonly known as Staph.







## ANTI-CORROSION DESIGN

# Durable design

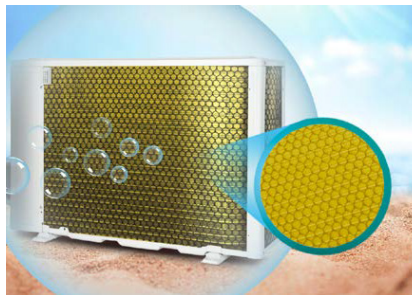
Emerald's Air Conditioning Split System units are engineered for durability and longevity, boasting outstanding anti-corrosion capabilities.

### Anti-Corrosion Golden Fin

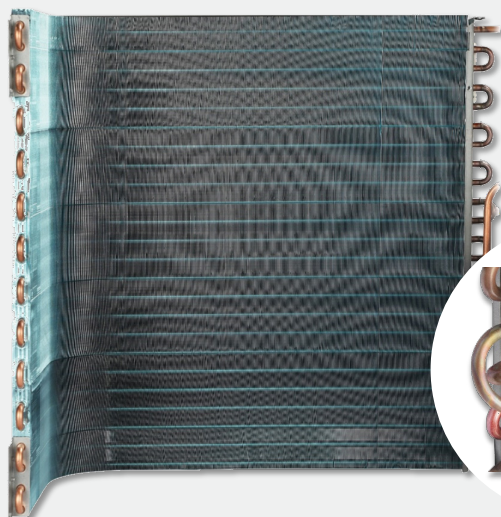
Emerald's unique Anti-Corrosive Golden Fin can withstand all sorts of weather conditions, from salty air to rain and other corrosive elements.

### 7-layer Anti-Corrosion Protection

The 7-Layer Anti-Corrosion Protection greatly extends the service life of outdoor units due to increased strength and durability.



## 1500 hour of anti-salt spray

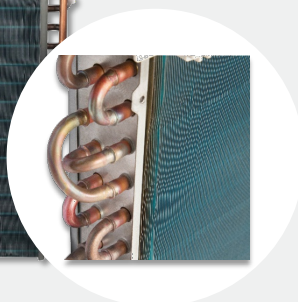


Anti-corrosion fin

1500hr

Normal fin

500hr



Special coating on both ends of the evaporator and condenser

Protection level >9.8 significantly higher than regular fins

## Specifications

| MODEL NO.                                   |              | ACSS25                           | ACSS35                           | ACSS76                           |
|---------------------------------------------|--------------|----------------------------------|----------------------------------|----------------------------------|
| Description                                 |              | Emerald 2.5kW<br>AC Split System | Emerald 3.5kW<br>AC Split System | Emerald 7.6kW<br>AC Split System |
| Ratings                                     |              |                                  |                                  |                                  |
| Cooling Capacity                            | W            | 2500                             | 3500                             | 7600                             |
| Heating Capacity                            | W            | 3200                             | 3700                             | 9600                             |
| Rated Input-Cooling                         | W            | 520                              | 810                              | 1760                             |
| Rated Input-Heating                         | W            | 670                              | 830                              | 2350                             |
| Moisture Removal                            | L/H.r        | 0.9                              | 0.9                              | 2.5                              |
| Air Circulation                             | m³/h         | 620                              | 620                              | 1800                             |
| EER                                         | W/W          | 4.81                             | 4.32                             | 4.318                            |
| COP                                         | W/W          | 4.78                             | 4.46                             | 4.085                            |
| AEER                                        | W/W          | 4.76                             | 4.29                             | 4.289                            |
| ACOP                                        | W/W          | 4.74                             | 4.42                             | 4.065                            |
| TCSPF (HOT)                                 | W/W          | 6.63                             | 6.12                             | 7.036                            |
| HSPF (HOT)                                  | W/W          | 5.27                             | 5.36                             | 5.068                            |
| TCSPF (in Average)                          | W/W          | 6.08                             | 5.67                             | 6.371                            |
| HSPF (in Average)                           | W/W          | 4.88                             | 4.74                             | 4.313                            |
| TCSPF (Cold)                                | W/W          | 6.26                             | 5.89                             | 6.692                            |
| HSPF (Cold)                                 | W/W          | 4.41                             | 4.24                             | 3.601                            |
| Energy star rating for Cooling New-HOT      |              | 5                                | 4.5                              | 5.5                              |
| Energy star rating for Heating New-HOT      |              | 3.5                              | 3.5                              | 3.5                              |
| Energy star rating for Cooling New-Average  |              | 4.5                              | 4                                | 4.5                              |
| Energy star rating for Heating New-Average  |              | 3                                | 3                                | 2.5                              |
| Energy star rating for Cooling New-Cold     |              | 4.5                              | 4                                | 5                                |
| Energy star rating for Heating New-Cold     |              | 2.5                              | 2.5                              | 2                                |
| Refrigerant (Type / kg)                     |              | R32/0.8                          | R32/0.92                         | R32/1.8                          |
| Indoor Unit Sound Level (High)              | dB(A)        | 39                               | 46                               | 54                               |
| Indoor Unit Sound Level (Silent)            | dB(A)        | 25                               | 32                               | 56                               |
| Indoor Unit Sound Power Level               | dB(A)        | 59                               | 59                               | 70                               |
| Outdoor Unit Sound Power Level              | dB(A)        | 59                               | 60                               | 70                               |
| Power Supply                                |              |                                  |                                  |                                  |
| Voltage, Frequency, Phase                   |              | 220-240V/50Hz-1Ph                |                                  |                                  |
| Rated Current                               | Cooling (A)  | 2.3 (0.5~5.1)                    | 3.6 (1.0~7.5)                    | 7.9 (2.8~16)                     |
|                                             | Heating (A)  | 3.0 (0.8~5.8)                    | 4.4 (1.5~8.4)                    | 10.5 (3.3~18)                    |
| Max                                         | W            | 850/950                          | 1250/1400                        | 2900/3100                        |
|                                             | A            | 5.1/5.8                          | 7.5/8.4                          | 16/18                            |
| System                                      |              |                                  |                                  |                                  |
| Compressor Type                             |              | Rotary                           |                                  |                                  |
| Expansion Device                            |              | EEV                              |                                  |                                  |
| Evaporator                                  |              | Copper tube and Aluminium Fin    |                                  |                                  |
| Condenser                                   |              | Copper tube and Aluminium Fin    |                                  |                                  |
| Connecting Pipe Diameter                    |              |                                  |                                  |                                  |
| Liquid Pipe                                 | inch         | 1/4                              | 1/4                              | 3/8                              |
| Gas Pipe                                    | inch         | 3/8                              | 3/8                              | 5/8                              |
| Features                                    |              |                                  |                                  |                                  |
| 3DC (Indoor motor+outdoor motor+compressor) |              | Yes                              | Yes                              | Yes                              |
| Vertical Auto Swing Louver                  |              | Yes                              | Yes                              | Yes                              |
| Horizontal Auto Swing Louver                |              | Yes                              | Yes                              | Yes                              |
| Hidden Display                              |              | Yes                              | Yes                              | Yes                              |
| LCD Wireless Remote Controller              |              | Yes                              | Yes                              | Yes                              |
| Removable and Washable Panel                |              | Yes                              | Yes                              | Yes                              |
| Washable PP Filter                          |              | Yes                              | Yes                              | Yes                              |
| 24 Hours Timer                              |              | Yes                              | Yes                              | Yes                              |
| 5 Speed and Auto Indoor Fan Control         |              | Yes                              | Yes                              | Yes                              |
| Dimmer                                      |              | Yes                              | Yes                              | Yes                              |
| Sleep Operation                             |              | Yes                              | Yes                              | Yes                              |
| Smart Function                              |              | Yes                              | Yes                              | Yes                              |
| Super Function                              |              | Yes                              | Yes                              | Yes                              |
| Auto Restart                                |              | Yes                              | Yes                              | Yes                              |
| Other                                       |              |                                  |                                  |                                  |
| Net Dimensions WxHxD (mm)                   | Indoor Unit  | 850×270×208                      | 850×270×208                      | 1323×363×276                     |
|                                             | Outdoor Unit | 780×540×260                      | 810×585×280                      | 900×750×340                      |
| Net Weight (kg)                             | Indoor Unit  | 9                                | 9                                | 18.5                             |
|                                             | Outdoor Unit | 30                               | 33                               | 52                               |
| Packing Dimensions WxHxD (mm)               | Indoor Unit  | 900×335×260                      | 900×335×260                      | 1425×460×395                     |
|                                             | Outdoor Unit | 910×600×360                      | 940×630×385                      | 1060×820×450                     |
| Gross Weight (kg)                           | Indoor Unit  | 11                               | 11                               | 22.8                             |
|                                             | Outdoor Unit | 33                               | 36                               | 56                               |
| Loading Capacity (40'HC )                   |              | 264                              | 228                              | 60                               |