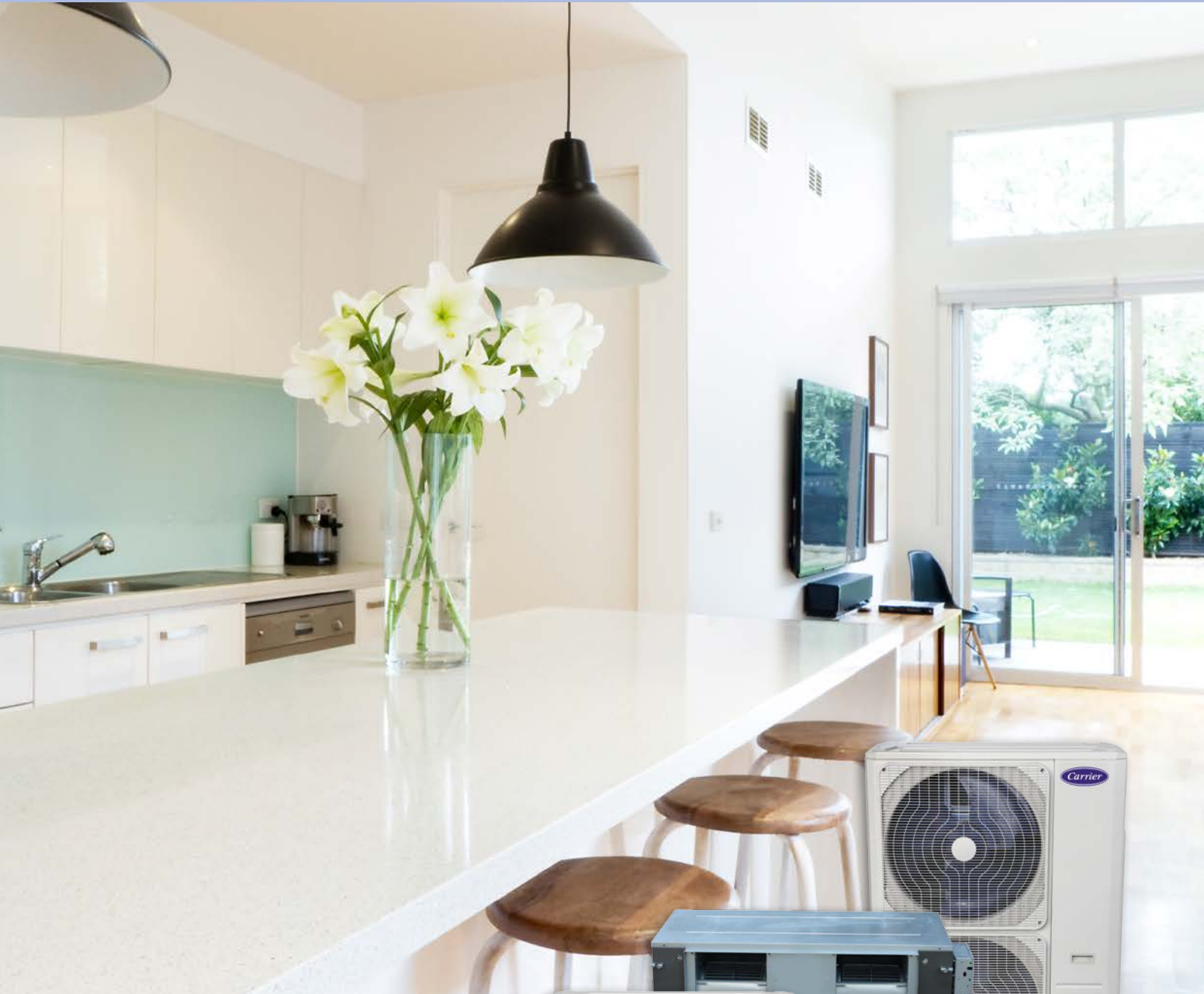




Turn to the Experts.

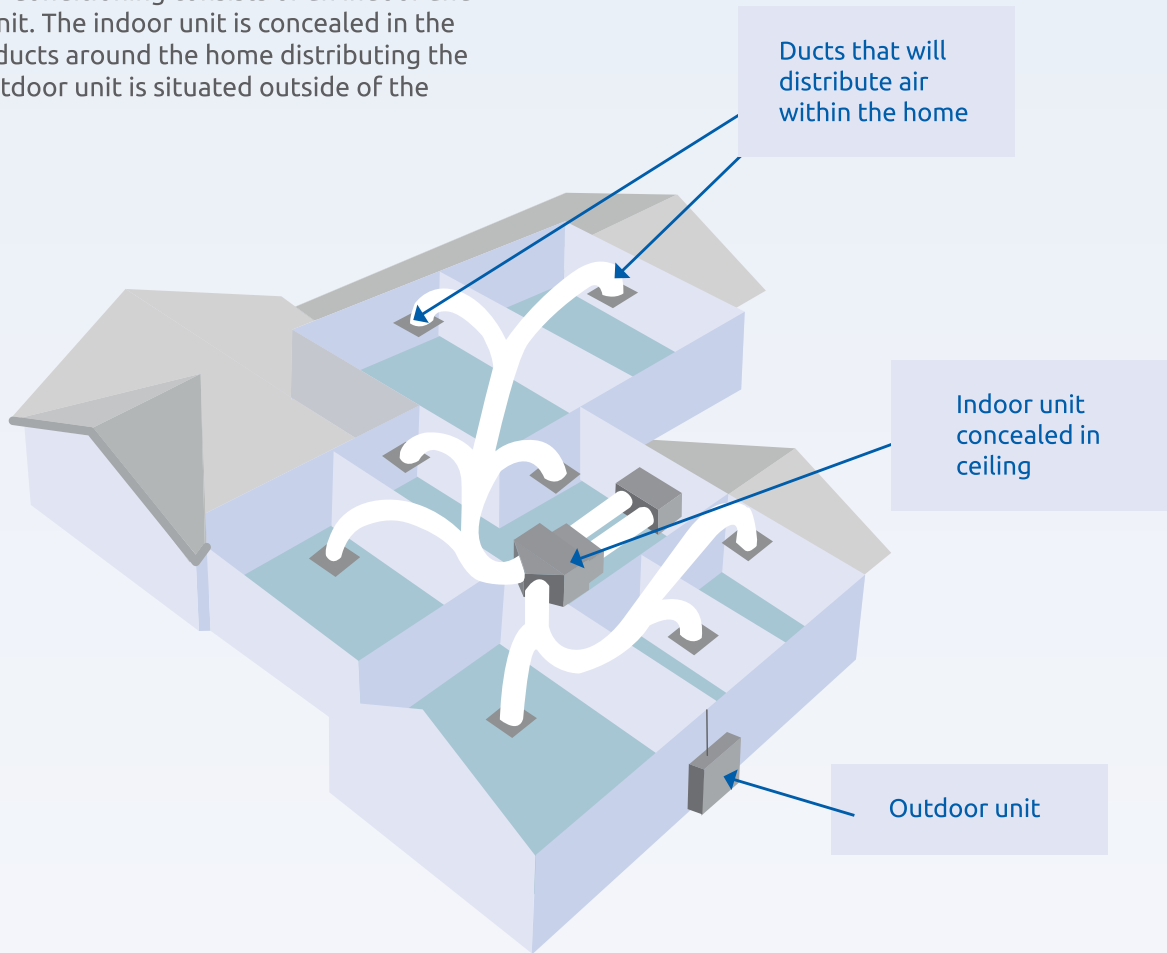


**Carrier
Inverter Ducted
Air Conditioners**



About Carrier Inverter Ducted Air Conditioners

Ducted Air Conditioning consists of an indoor and outdoor unit. The indoor unit is concealed in the roof with ducts around the home distributing the air. The outdoor unit is situated outside of the home.



Example of a high static ducted application

Who is Carrier Air Conditioners?

Founded by the inventor of modern air conditioning Willis Carrier, Carrier is one of the world's leaders in high technology heating, air conditioning and refrigeration solutions. Carrier provides sustainable solutions, integrating energy efficient products, building controls and energy services for residential, commercial, retail, transport and food services customers. Carrier improves the world around us through engineered innovation and environmental stewardship. Carrier is also a leading provider to the aerospace and building systems industries.

In 1902, Willis Carrier solved one of mankind's most elusive challenges by controlling the indoor environment through modern air conditioning. His invention enabled countless industries, promoting global productivity, health and personal comfort.





High Static Ducted – SHDV series

High static ducted are ideal for residential applications where ducts will be run to numerous outlets.

- Concealed and flexible installation
- A high static system allows for more ducts to be installed
- Single phase which allows for greater flexibility and minimises installation cost
- Reverse cycle system (heating and cooling)
- DC inverter system, designed to use electricity efficiently and effectively
- Quiet operation
- Easy to install and maintain
- 5 year warranty

Slimline Ducted – SHDS series

A slimline ducted unit will fit most light commercial ceiling spaces making it ideal for apartment, hotel, office and connected bulkhead applications.

- Perfect choice for applications with minimal ceiling space
- Compact in design in order to fit into most ceiling spaces keeping install discreet
- Very effective static pressure for low profile mid static ducted system (160Pa), resulting in better airflows and air distribution
- Reverse cycle system (heating and cooling)
- DC inverter system, designed to use electricity efficiently and effectively
- Quiet operation
- Easy to install and maintain
- 5 year warranty

Controls: features and benefits

| FEATURE | BENEFIT |
|-----------------------|---|
| Wired controller | Controller is secured to the wall – never lose the controller again |
| Weekly schedule timer | Convenient for setting different schedules on weekends and weekdays |
| Fan speed | 3 fan speeds – Low / Med / High including micro settings within each speed |
| Sleep mode | This function enables the air conditioner to automatically increase (cooling) or decrease (heating) 1°C per hour for the first two hours, then hold steady for the next 5 hours, after that it will switch off. This maintains both energy saving and comfort in night time operation |
| Set temperature range | Set the minimum and maximum limit for each type of operation including heat and cool to cover variances in weather |
| Large buttons | For simple and easy operation |
| Lock function | Locks the controller so the temperature is stable and unable to be changed, maintaining a more constant temperature |



Slim Ducted Product Specifications

| SYSTEM | | | SLIM DUCTED | | | |
|-------------------------------|---------------------------------------|---------------|-------------------|-------------------|-------------------|-------------------|
| INDOOR | | | 42SHDS050 | 42SHDS070 | 42SHDS090 | 42SHDS100 |
| OUTDOOR | | | 38SHDS050 | 38SHDS070 | 38SHDS090 | 38SHDS100 |
| Refrigerant type | | | R410A | R410A | R410A | R410A |
| Power supply (Volts-Phase-Hz) | | | 220-240V -/1/50Hz | 220-240V -/1/50Hz | 220-240V -/1/50Hz | 220-240V -/1/50Hz |
| COOLING | Capacity - rated | kW | 4.80 | 7.10 | 8.80 | 9.70 |
| | Capacity - range (min ~ max) | kW | 0.80 ~ 6.15 | 1.20 ~ 8.20 | 2.10 ~ 10.50 | 2.95 ~ 12.00 |
| | Efficiency (rated) | EER | 3.31 | 3.43 | 3.37 | 3.34 |
| | Power input (rated) | kW | 1.45 | 2.07 | 2.61 | 2.90 |
| | Operating current (rated) | A | 6.49 | 10.03 | 11.61 | 13.05 |
| HEATING | Capacity - rated | kW | 5.55 | 8.30 | 10.10 | 11.00 |
| | Capacity - range (min ~ max) | kW | 0.90 ~ 7.00 | 1.20 ~ 8.65 | 2.10 ~ 10.80 | 2.65 ~ 13.20 |
| | Efficiency (rated) | COP | 3.30 | 3.46 | 3.87 | 3.75 |
| | Power input (rated) | kW | 1.68 | 2.40 | 2.61 | 2.93 |
| | Operating current (rated) | A | 7.49 | 10.34 | 11.72 | 13.19 |
| INDOOR UNIT | Dimension (HxWxD) | mm | 210x880x674 | 249x1100x774 | 249x1360x774 | 249x1360x774 |
| | Net weight | kg | 24 | 31 | 40 | 40 |
| | Airflow volume (H/M/L) | L/s | 245/201/158 | 360/298/234 | 510/426/314 | 510/426/314 |
| | Moisture removal (cooling) | L/hr | 0.70 | 0.80 | 0.96 | 1.05 |
| | Fan motor output | W | 160 | 160 | 300 | 300 |
| | Sound pressure (H/M/L) at 1m distance | dB(A) | 41/39/36 | 43/41/37 | 46/43/38 | 46/43/38 |
| | Cooling usable temperature range | °C | 17~32 | 17~32 | 17~32 | 17~32 |
| | Heating usable temperature range | °C | 0~30 | 0~30 | 0~30 | 0~30 |
| OUTDOOR UNIT | Dimension (HxWxD) | mm | 702x845x363 | 810x946x410 | 810x946x410 | 810x946x410 |
| | Net weight | kg | 42 | 61 | 69 | 69 |
| | Compressor type | - | rotary | twin rotary | twin rotary | twin rotary |
| | Fan motor output | W | 50 | 120 | 120 | 120 |
| | Operating noise (sound power) (H) | dB(A) (@ swl) | 65 | 66 | 69 | 69 |
| | Cooling usable temperature range | °C | -10~46 | -10~46 | -10~46 | -10~46 |
| | Heating usable temperature range | °C | -15~24 | -15~24 | -15~24 | -15~24 |
| PIPE SIZE | Liquid line Ø | (mm) | 6.35 | 9.52 | 9.52 | 9.52 |
| | Gas line Ø | (mm) | 12.7 | 15.9 | 15.9 | 15.9 |
| | Coupler style | - | flare | flare | flare | flare |
| | Drain (inside diameter) Ø | mm | 20 | 20 | 20 | 20 |
| | Maximum length | m | 30 | 40 | 40 | 40 |
| | Chargeless length | m | 15 | 15 | 15 | 15 |
| | Maximum height difference | m | 20 | 20 | 20 | 20 |



High Static Product Specifications

| SYSTEM | | | HIGH STATIC | | | | |
|-------------------------------|---------------------------------------|-------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| INDOOR | | | 42SHDV095 | 42SHDV105 | 42SHDV125 | 42SHDV140 | 42SHDV165 |
| OUTDOOR | | | 38SHDV095 | 38SHDV105 | 38SHDV125 | 38SHDV140 | 38SHDV165 |
| Refrigerant type | | | R410A | R410A | R410A | R410A | R410A |
| Power supply (Volts-Phase-Hz) | | | 220-240V -/1/50Hz | 220-240V -/1/50Hz | 220-240V -/1/50Hz | 220-240V -/1/50Hz | 220-240V -/1/50Hz |
| COOLING | Capacity - rated | kW | 9.50 | 10.50 | 12.80 | 14.30 | 16.50 |
| | Capacity - range (min ~ max) | kW | 2.90 ~ 11.76 | 3.20 ~ 13.00 | 3.25 ~ 15.00 | 4.10 ~ 16.40 | 5.00 ~ 18.00 |
| | Efficiency (rated) | EER | 3.42 | 3.33 | 3.35 | 3.42 | 3.34 |
| | Power input (rated) | kW | 2.78 | 3.15 | 3.82 | 4.18 | 4.94 |
| | Operating current (rated) | A | 12.27 | 13.88 | 16.61 | 18.42 | 22.23 |
| HEATING | Capacity - rated | kW | 10.00 | 10.35 | 14.30 | 16.50 | 17.50 |
| | Capacity - range (min ~ max) | kW | 2.26 ~ 11.24 | 2.50 ~ 12.42 | 2.95 ~ 15.50 | 4.35 ~ 18.10 | 5.30 ~ 20.00 |
| | Efficiency (rated) | COP | 3.70 | 3.70 | 3.70 | 3.73 | 3.90 |
| | Power input (rated) | kW | 2.70 | 2.80 | 3.86 | 4.42 | 4.49 |
| | Operating current (rated) | A | 11.92 | 12.43 | 16.87 | 19.49 | 20.69 |
| INDOOR UNIT | Dimension (HxWxD) | mm | 380x1200x625 | 380x1200x625 | 380x1200x625 | 380x1200x625 | 440x1400x858 |
| | Net weight | kg | 53 | 53 | 53 | 56 | 74 |
| | Airflow volume (H/M/L) | L/s | 792/630/531 | 792/630/531 | 890/708/597 | 890/708/597 | 1050/847/639 |
| | Moisture removal (cooling) | L/hr | 2.90 | 2.90 | 2.90 | 3.17 | 3.68 |
| | Fan motor output | W | 560 | 560 | 560 | 560 | 700 |
| | Sound pressure (H/M/L) at 1m distance | dBA | 50/46/43 | 50/46/43 | 50/46/43 | 50/47/43 | 53/49/45 |
| | Cooling usable temperature range | °C | 17~32 | 17~32 | 17~32 | 17~32 | 17~32 |
| | Heating usable temperature range | °C | 0~30 | 0~30 | 0~30 | 0~30 | 0~30 |
| OUTDOOR UNIT | Dimension (HxWxD) | mm | 810x946x410 | 810x946x410 | 1333x952x410 | 1333x952x410 | 1333x952x410 |
| | Net weight | kg | 69 | 69 | 98.5 | 101 | 101 |
| | Compressor type | - | twin rotary | twin rotary | twin rotary | twin rotary | twin rotary |
| | Fan motor output | W | 120 | 120 | 85x2 | 85x2 | 85x2 |
| | Operating noise (sound power) (H) | dBA (@ swl) | 69 | 69 | 69 | 71 | 71 |
| | Cooling usable temperature range | °C | -10~46 | -10~46 | -10~46 | -10~46 | -10~46 |
| | Heating usable temperature range | °C | -15~24 | -15~24 | -15~24 | -15~24 | -15~24 |
| PIPE SIZE | Liquid line Ø | (mm) | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| | Gas line Ø | (mm) | 15.9 | 15.9 | 19 | 19 | 19 |
| | Coupler style | - | flare | flare | flare | flare | flare |
| | Drain (inside diameter) Ø | mm | 20 | 20 | 20 | 20 | 20 |
| | Maximum length | m | 40 | 40 | 50 | 50 | 50 |
| | Chargeless length | m | 15 | 15 | 15 | 15 | 15 |
| | Maximum height difference | m | 20 | 20 | 25 | 25 | 25 |

AHIC is committed to continuously improving its product to ensure the highest quality and reliability standards, and to meet local regulations and market requirements.

Product specifications in this brochure are only indicative and are subject to change. These are not intended to be used in place of the engineering or installation book.

All features and specifications are subject to change without prior notice.

All images provided in this catalogue are used for illustration purposes only.

Cooling and heating capacities mentioned for the products are nominal capacities at standard operation conditions.

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