



Turn to the Experts.



**Pearl**  
INVERTER HI-WALL



**Inverter Hi-Wall Split Systems**

## About Carrier Inverter Hi Wall Split System

Better comfort and power saving – the Carrier Pearl range of inverter Hi-Wall Split Systems with DC technology will give you a comfortable and energy efficient heating or cooling solution.

### Who is Carrier Air Conditioning?

Founded by the inventor of modern air conditioning Willis Carrier, Carrier is one of the world's leaders in 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.



### Controller

- Wireless or optional wired or WiFi controller\*
- Customised air distribution with 4 fan settings (Turbo/High/Med/Low).
- My mode saves favourite mode/fan and temperature combined settings.
- Ideal for use in both residential and commercial applications such as aged care, hospitals, hotels, schools and office buildings.

\*Wired and WiFi controller options will be at an additional cost. Please speak to your dealer if you are interested in these options.



Included controller



Optional wired controller

## Advantages of the Carrier Inverter Hi-Wall Split System



- Cooling performance even at 46°C outdoor temperature and as low as -15°C for heating.

- Brushless DC inverter motor designed to use electricity efficiently and effectively.
- Rapid heat and cool function which increases power temporarily to achieve desired temperature quickly before returning to normal power.
- Reverse cycle for heating and cooling.
- The indoor unit can operate at a lower noise level. This occurs because the outdoor unit will operate at a lower frequency and the indoor unit then shifts to a lower fan speed which results in a quieter operation.
- Follow me: the sensor built into the remote controller is active and the air conditioner will regulate the room temperature based on the temperature around the remote controller.

- Hidden display: lights can be turned off by remote controller when unit is running.



- Self-cleaning removes moisture which can cause mould to form on the indoor unit.
- Low maintenance and easy to install.
- Use of R410A non ozone depleting refrigerant.
- 5 year warranty for consumer confidence.
- To avoid cold drafts in heating mode the indoor units will pre-heat before starting.

# Features



DC Inverter  
Control



Auto  
Restart



Sleep  
Mode



Timer



Turbo  
Mode



Quiet  
Mode



Louver  
Position  
Memory



Self  
Clean



5 Year  
Warranty



Washable  
Filter

# Product Specifications

| INDOOR                           |                                               | 42QHC020          | 42QHC026              | 42QHC035              | 42QHC050              | 42QHC055              | 42QHC065             | 42QHC080             | 42QHF092             |                      |
|----------------------------------|-----------------------------------------------|-------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|
| OUTDOOR                          |                                               | 38QHC020          | 38QHC026              | 38QHC035              | 38QHC050              | 38QHC055              | 38QHC065             | 38QHC080             | 38QHF092             |                      |
| Refrigerant Type                 |                                               | R410A             | R410A                 | R410A                 | R410A                 | R410A                 | R410A                | R410A                | R410A                |                      |
| Power Supply (Volts-Phase-Hz)    |                                               | 220-240V,1Ph,50Hz | 220-240V,1Ph,50Hz     | 220-240V,1Ph,50Hz     | 220-240V,1Ph,50Hz     | 220-240V,1Ph,50Hz     | 220-240V,1Ph,50Hz    | 220-240V,1Ph,50Hz    | 220-240V,1Ph,50Hz    |                      |
| COOLING                          | Capacity - rated (range)                      | kW                | 2.1 (0.50 ~ 3.50)     | 2.6 (0.50 ~ 3.80)     | 3.5 (0.50 ~ 4.30)     | 4.9 (0.80 ~ 5.80)     | 5.5 (1.50 ~ 6.00)    | 6.4 (2.70 ~ 6.70)    | 8 (3.50 ~ 8.50)      | 9.2 (3.60 ~ 9.60)    |
|                                  | Power Input - rated (range)                   | kW                | 0.52 (0.32 ~ 1.40)    | 0.66 (0.32 ~ 1.80)    | 0.91 (0.32 ~ 2.20)    | 1.5 (0.60 ~ 2.60)     | 1.55 (0.60 ~ 2.80)   | 1.95 (0.60 ~ 3.00)   | 2.45 (0.95 ~ 3.40)   | 2.88 (0.95 ~ 3.60)   |
|                                  | Efficiency - rated (range)                    | EER               | 4.04 (2.30 ~ 8.00)    | 3.94 (2.30 ~ 8.00)    | 3.85 (2.30 ~ 8.00)    | 3.27 (2.00 ~ 6.00)    | 3.55 (2.00 ~ 6.00)   | 3.28 (2.00 ~ 6.00)   | 3.27 (2.00 ~ 6.00)   | 3.19 (2.00 ~ 6.00)   |
|                                  | Operating current                             | A                 | 2.40                  | 3.05                  | 4.04                  | 6.86                  | 7.56                 | 9.57                 | 11.06                | 12.75                |
| HEATING                          | Capacity - rated (range)                      | kW                | 2.8 (0.60 ~ 3.80)     | 3.2 (0.60 ~ 4.20)     | 3.7 (0.60 ~ 4.80)     | 5.2 (1.00 ~ 6.00)     | 6.3 (1.80 ~ 6.80)    | 7.1 (2.20 ~ 7.10)    | 8.4 (3.50 ~ 9.10)    | 9.8 (3.80 ~ 9.80)    |
|                                  | Power Input - rated (range)                   | kW                | 0.71 (0.28 ~ 1.40)    | 0.78 (0.28 ~ 1.80)    | 0.98 (0.28 ~ 2.20)    | 1.58 (0.50 ~ 2.60)    | 1.8 (0.55 ~ 2.80)    | 2.12 (0.55 ~ 3.00)   | 2.5 (0.94 ~ 3.30)    | 2.75 (0.95 ~ 3.50)   |
|                                  | Efficiency - rated (range)                    | COP               | 3.94 (2.00 ~ 6.00)    | 4.1 (2.00 ~ 6.00)     | 3.78 (2.00 ~ 6.00)    | 3.29 (2.00 ~ 6.00)    | 3.5 (2.00 ~ 6.00)    | 3.35 (2.00 ~ 6.00)   | 3.36 (2.00 ~ 6.00)   | 3.56 (2.00 ~ 6.00)   |
|                                  | Operating current                             | A                 | 3.18                  | 3.51                  | 4.27                  | 7.03                  | 7.92                 | 9.38                 | 11.21                | 11.82                |
| INDOOR UNIT                      | Dimension (WxDxH)                             | mm                | 730x192x291           | 812x192x300           | 812x192x300           | 973x218x319           | 1082x225x338         | 1082x225x338         | 1082x225x338         | 1259x283x362         |
|                                  | Net weight                                    | kg                | 8.0                   | 9.0                   | 9.0                   | 12.0                  | 14                   | 13.5                 | 13.5                 | 19.0                 |
|                                  | Cooling airflow (Turbo/H/M/L)                 | L/s               | 144/128/106/78        | 164/139/108/83        | 172/139/108/83        | 222/211/153/128       | 333/319/247/214      | 333/319/247/214      | 375/347/264/236      | 356/328/264/222      |
|                                  | Moisture removal                              | L/hr              | 0.23                  | 0.51                  | 1.19                  | 1.63                  | 1.07                 | 1.99                 | 3.23                 | 3.58                 |
|                                  | Cooling - (sound pressure) (Turbo/H/M/L) - 1m | dBA (@spl)        | 42/39/35/30           | 43/40/36/31           | 43/40/36/31           | 46/44/39/36           | 51/48/43/38          | 51/48/43/38          | 52/51/43/38          | 52/51/44/39          |
|                                  | Cooling sound power (H)                       | dBA (@swl)        | 51                    | 52                    | 53                    | 55                    | 61                   | 61                   | 62                   | 63                   |
| OUTDOOR UNIT                     | Dimension (WxDxH)                             | mm                | 700x275x550           | 770x300x555           | 800x333x554           | 800x333x554           | 845x363x702          | 845x363x702          | 946x420x810          | 946x420x810          |
|                                  | Net weight                                    | kg                | 23.0                  | 26.5                  | 33.5                  | 38.5                  | 45.0                 | 44.0                 | 62                   | 63                   |
|                                  | Compressor type                               | -                 | rotary                | rotary                | rotary                | rotary                | rotary               | rotary               | rotary               | rotary               |
|                                  | Fan motor output                              | W                 | 40                    | 40                    | 40                    | 48                    | 57                   | 50                   | 120                  | 120                  |
|                                  | Cooling - (sound pressure) (H) at 1m distance | dBA (@spl)        | 54                    | 54                    | 55                    | 56                    | 58                   | 58                   | 61                   | 61                   |
|                                  | Cooling sound power (H)                       | -                 | 60                    | 61                    | 62                    | 64                    | 65                   | 67                   | 69                   | 69                   |
|                                  | Cooling usable temperature range              | °C                | -10~46                | -10~46                | -10~46                | -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                | -15~24               | -15~24               | -15~24               |                      |
| PIPE SIZE                        | Liquid line Ø/Gas line Ø                      | mm (inch)         | 6.35/9.52 (1/4"/3/8") | 6.35/9.52 (1/4"/3/8") | 6.35/9.52 (1/4"/3/8") | 6.35/12.7 (1/4"/1/2") | 9.52/15.9(3/8"/5/8") | 9.52/15.9(3/8"/5/8") | 9.52/15.9(3/8"/5/8") | 9.52/15.9(3/8"/5/8") |
|                                  | Coupler style                                 | -                 | flaring               | flaring               | flaring               | flaring               | flaring              | flaring              | flaring              | flaring              |
|                                  | Minimum length                                | m                 | 3                     | 3                     | 3                     | 3                     | 3                    | 3                    | 3                    | 3                    |
|                                  | Maximum length                                | m                 | 20                    | 20                    | 20                    | 30                    | 40                   | 40                   | 40                   | 40                   |
|                                  | Chargeless length                             | m                 | 5                     | 5                     | 5                     | 5                     | 5                    | 5                    | 5                    | 5                    |
|                                  | Additional refrigerant                        | g/m               | 15                    | 15                    | 15                    | 15                    | 30                   | 30                   | 30                   | 30                   |
|                                  | Maximum height difference (above/below)       | m                 | 10                    | 10                    | 10                    | 20                    | 20                   | 20                   | 20                   | 20                   |

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.

Part number: 1029-092016

Date: September 2016

Equipment rates in accordance with

MEPS 3823.2-2011 E&OE



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