Carrier®

Turn to the Experts.

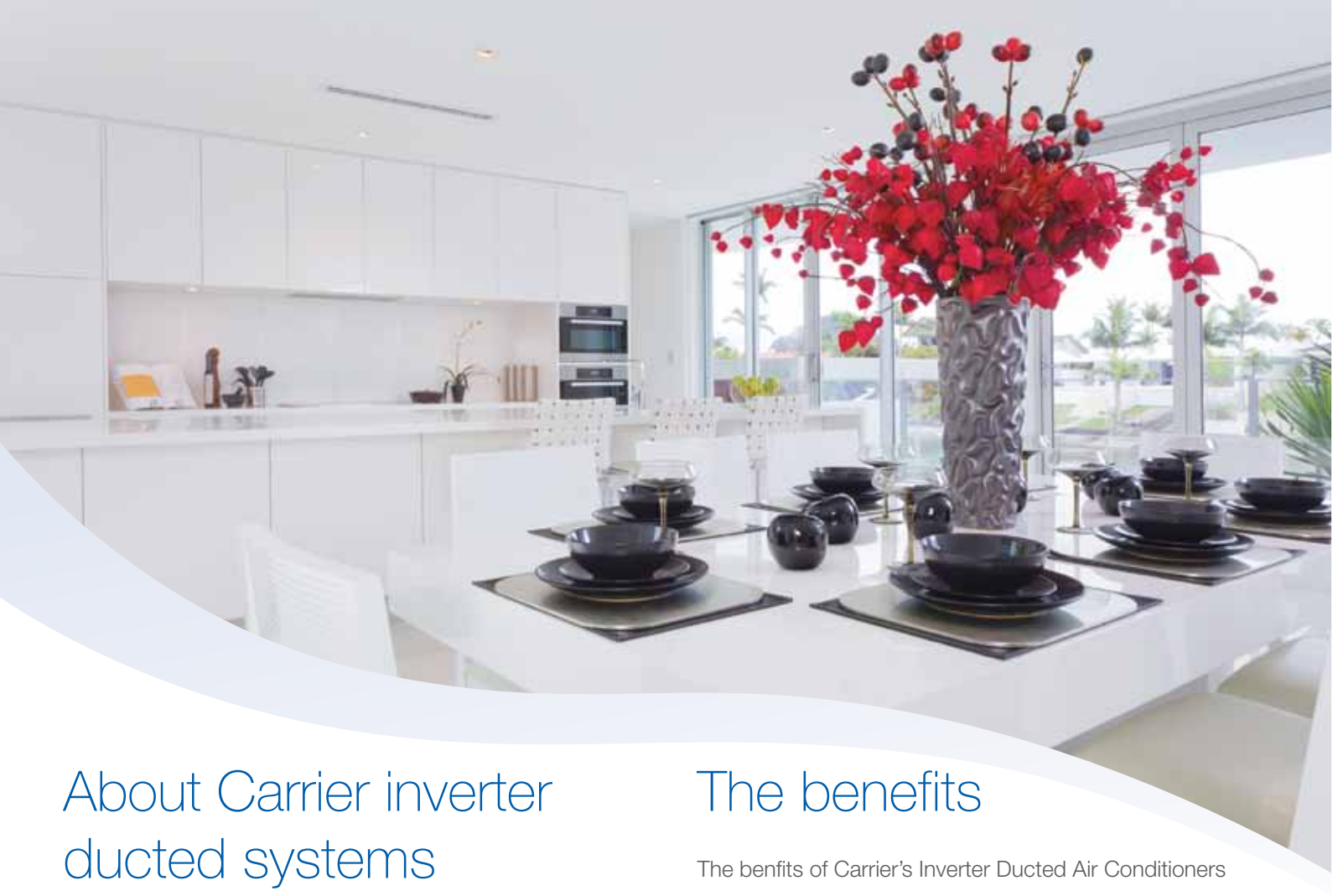
Inverter Ducted Air Conditioners

Advantages of Carrier's Inverter Ducted system

Quiet operation	Reverse cycle system (heating and cooling)
5 year warranty for consumer confidence	Easy and flexible installation
Low maintenance	Powerful operation
Compact unit concealed in ceiling	Remote on/off and alarm port
DC inverter system, designed to use electricity efficiently and effectively	Use of R410A type refrigerant
Flexibility of long piping	High static pressure design
Easy to use wired controller	Independent dehumidification

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
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 operation
Set temperature range	Set the minimum and maximum limit for each type of operation including heat and cool to cover for all 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, resulting in a constant temperature with no variations



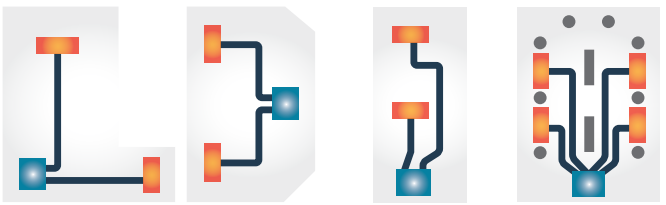
About Carrier inverter ducted systems

Carrier's Inverter Ducted systems allows you to air condition your home without having to install the indoor units on your wall, making your home look neat and tidy.

The indoor unit is installed in a confined space and ducts run through the ceiling leading to air outlets in your room. Air is allowed into the room through vents on the ceiling or on the wall.

A wide range of applications

The use of ducts enables air outlets to be installed anywhere on the ceiling. Applications include a wide array of layouts from narrow spaces to polygon rooms.



Polygonal rooms

Narrow rooms

Rooms with fixtures and obstacles

The benefits

The benfits of Carrier's Inverter Ducted Air Conditioners includes energy efficiency, powerful operation, rapid heat and cool function and precise temperature control. All units are high performing as well as highly reliable.

Who is Carrier Air Conditioning?

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 service customers. Founded by the inventor of modern air conditioning (Willis Carrier), 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 worldwide.

DC Inverter Technology

MORE ECONOMICAL

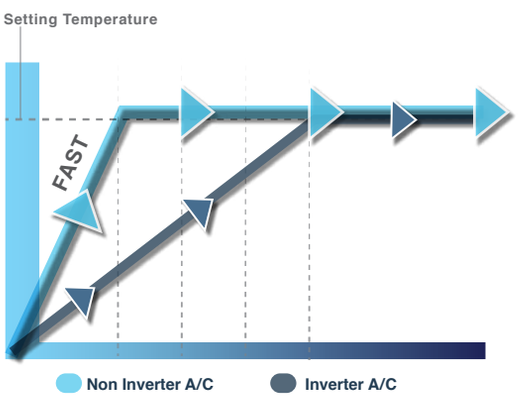
Energy Saving

When indoor temperatures reach your desired levels, inverter air conditioners can operate their compressors at low speeds and maintain desired temperatures, thus saving you electricity cost by about 40% compared to non inverter air conditioners.

MORE POWERFUL

Powerful capacity, quick cooling & heating

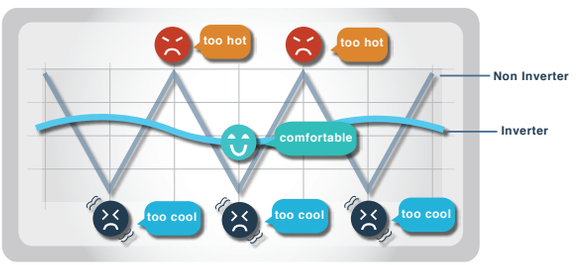
Carrier Inverter ducted air conditioners can operate their compressors faster to give them more powerful performance. This results in being able to attain the desired temperature much faster in both heating and cooling modes than non inverter air conditioners.



MORE COMFORTABLE

Precise control, constant temperature

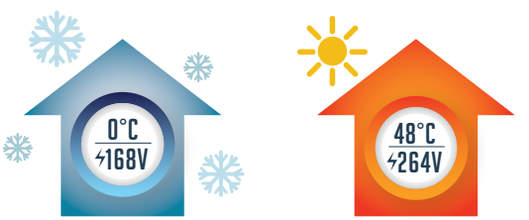
After quickly reaching the set temperature, Carrier Inverter ducted air conditioners finely adjust output power to maintain a constant temperature with minimal fluctuation, and providing a pleasant, comfortable environment.



MORE RELIABLE

Wide startup voltage & operation temperature

With variable speed compressors, Carrier Inverter ducted air conditioners can startup at 168 to 264 volts and operate very well at 0ºC to 48ºC ambient temperature.



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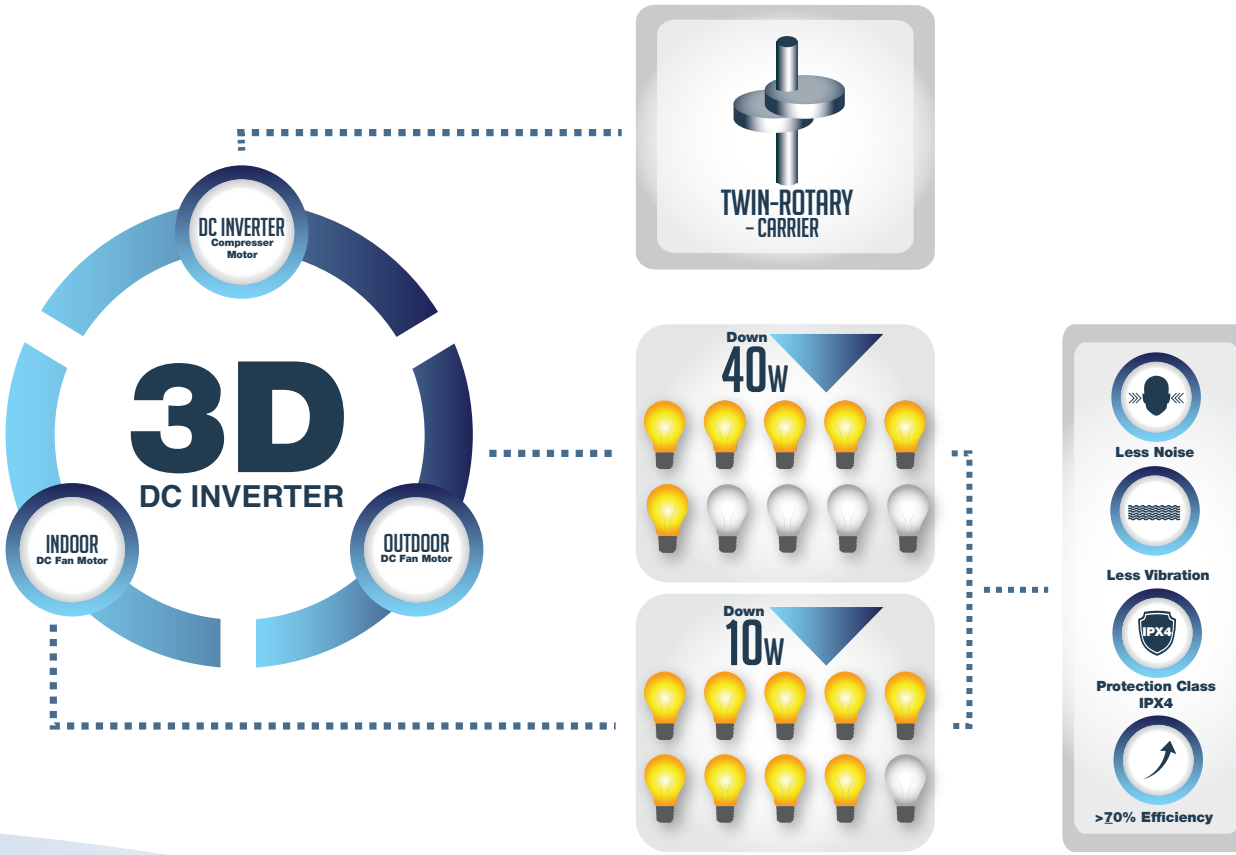
Carrier 3D DC Inverter

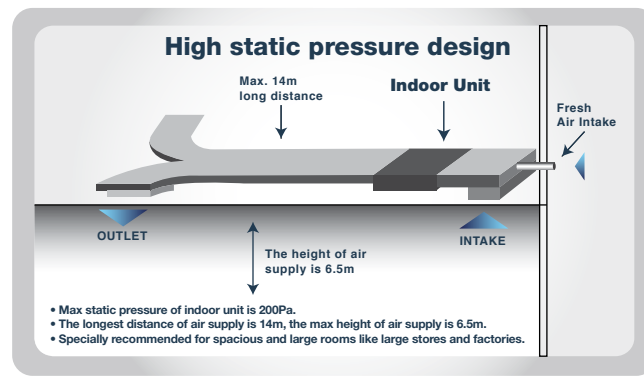
Besides the compressor motor, both of the indoor and outdoor fan motors have brushless DC (BLDC) motors.

Owing to the function of BLDC motor, the 3D Inverter air conditioner gains higher efficiency and makes quieter operation which helps to save more energy and enhance comfort.



High static pressure design

The maximum static pressure of the indoor unit is 200Pa. The longest distance of air supply is 14m and the maximum height of the air supply is 6.5m. Not only ideal for residential homes but can also be utilised in larger buildings.



Product specifications

INDOOR			42SHV071P1	42SHV087P1	42SHV105P1	42SHV135P1	42SHV165P1
OUTDOOR			**38SHV071P1**	**38SHV087P1**	**38SHV105P1**	**38SHV135P1**	**38SHV165P1**
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	7.1	8.7	10.5	13.5	16.5
	Capacity - Range (min ~ max)	kW	3.4~8.7	4.3~9.9	5.3~12.0	6.9~15.5	8.5~19.0
	Efficiency (rated)	EER	3.41	3.41	3.21	3.21	3.21
	Power Input (rated)	kW	2.08	2.55	3.27	4.2	5.14
	Operating Current (rated)	A	9.7	11.7	15.0	19.2	23.5
HEATING	Capacity - Rated	kW	8.4	8.9	11.2	16.0	17.0
	Capacity - Range (min ~ max)	kW	4.4~10.2	4.6~10.5	5.7~14.0	8.1~19.5	9.0~22.0
	Efficiency (rated)	COP	3.71	3.41	3.71	3.61	3.54
	Power Input (rated)	kW	2.26	2.61	3.02	4.43	4.80
	Operating Current (rated)	A	10.5	12.0	13.8	20.2	21.9
INDOOR UNIT	Dimension (HxWxD)	mm	270x1110x450	380x1200x550	380x1200x550	380x1200x550	440x1400x770
	Net Weight	kg	28.5	51	51	54	75
	Airflow Volume (H/L)	L/s	403	500	890	920	1030
	Moisture Removal (cooling)	L/hr	1.5	1.8	2.7	3.2	3.8
	Fan Motor Output	W	150	560	560	560	560
	Sound Pressure (H/M/L) at 1m distance	dBA	42/38/33	45/40/35	49/45/42	50/45/42	51/46/42
	Heating Operating Noise (sound pressure) (H/L) at 1m distance	dBA (@spl)	42/38/33	45/40/35	49/45/42	50/45/42	51/46/42
OUTDOOR UNIT	Dimension (HxWxD)	mm	862x895x313	862x895x313	966x990x354	1369x938x392	1369x938x392
	Net Weight	kg	62	62	70	100	122
	Compressor Type		DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Twin Rotary	DC Scroll
	Fan Motor Output	W	72	72	180	85+85	85+85
	Cooling Operating Noise (sound power) (H)	dBA (@swl)	68	68	71	71	72
	Heating Operating Noise (sound power) (H)	dBA (@swl)	68	68	71	71	72
	Cooling Usable Temperature Range		0~48	0~48	0~48	0~48	0~48
	Heating Usable Temperature Range		-15~24	-15~24	-15~24	-15~24	-15~24
PIPE SIZE	Liquid Line	(mm)	9.52	9.52	9.52	9.52	9.52
	Gas Line	(mm)	15.88	15.88	15.88	19.05	19.05
	Coupler Style		Flaring	Flaring	Flaring	Flaring	Flaring
	Drain (inside diameter)	mm	25	25	25	25	25
	Maximum Length	m	50	50	65	65	65
	Chargeless Length	m	5	5	5	5	5
	Maximum Height Difference	m	25	25	30	30	30

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

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

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

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

Part number 1021-092013 Date: September 2013

Equipment rates in accordance with MEPS 3823.2-2011 E&OE

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