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Inverter Ducted Air Conditioners





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 and concealed in the roof with ducts running through the ceiling distributing air to the outlets in your room. Air is allowed into the room through vents on the ceiling or on the wall.

A Wide Range of Applications

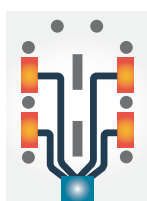
The use of ducts enables air outlets to be installed anywhere in the ceiling. Applications include a wide array of layouts from narrow spaces to polygon rooms.



Polygonal rooms



Narrow rooms



Rooms with fixtures and obstacles

The Benefits

The benefits 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.

SHDS Mid Static Duct

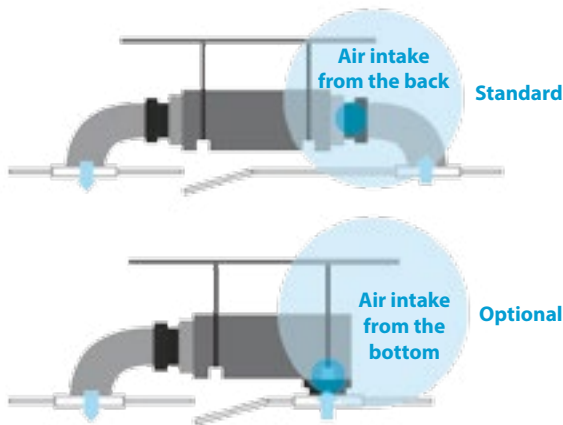


Features

The SHDS mid static ducted systems feature a slim design allowing it to be fitted in the tight roof spaces. This slim line ducted unit is the perfect choice for applications with minimal ceiling space. It has a maximum static pressure of up to 160Pa. Equipped with constant air volume control technology the fan automatically adjusts to perfect static pressure, keeping constant air volume. The unit has been designed for easy maintenance with the motor at the bottom of the unit and a big space at the side for quick access.

Flexible Air Intake

Alongside the standard air intake from the back, there is an optional bottom air intake inlet for ease of installation. The size of the plate from the bottom and flange from the back is the same making it simple to switch as required according to the different applications.



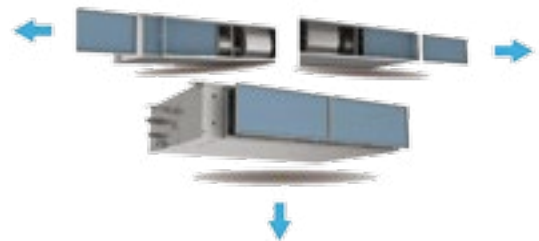
Fresh Air

There is a standard fresh air hole built into the unit. It's easy to connect which allows for fresh air from outside to be brought inside giving a comfortable environment and feeling.



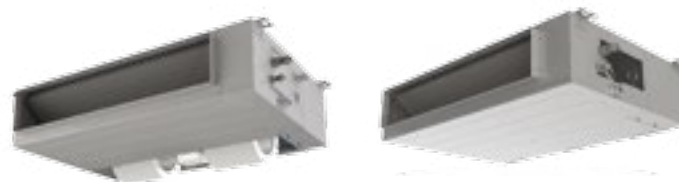
Easy Clean

Easy to draw out filters from the indoor unit for cleaning.



Easy Maintenance

With the motor located at the bottom and a large space at the side, the Carrier SHDS slim ducted unit allows for easy maintenance.



Standard Features



Sleep Mode



Anti-Cold Air Function



Independent Dehumidification



Auto Defrosting



2-Way Draining



Auto Restart Function



Timer



Wired Control

SHDV Hi Static Duct

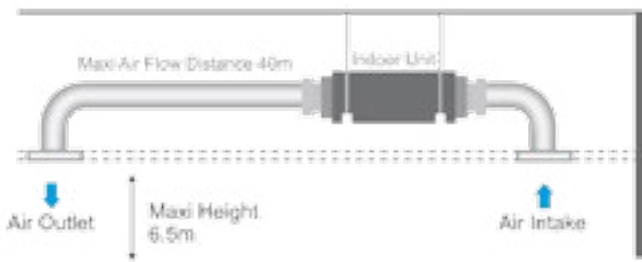


Features

The SHDV high static ducted systems are ideal for applications where ducts will be run to numerous outlets. The single phase outdoor allows for greater flexibility and minimises installation cost. With a DC inverter system, it is designed to use electricity efficiently and effectively.

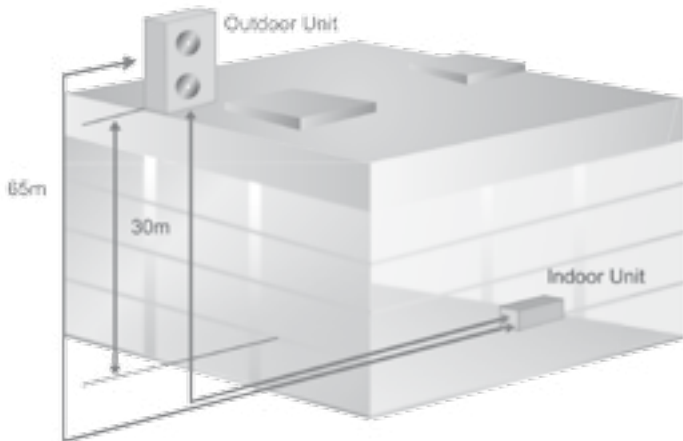
High Air Outlet Static Pressure

The maximum static pressure of the indoor unit is 200Pa. The longest distance of air supply is about 40m, the maximum height of air supply is 6.5m. Ideal for spacious and large volume areas.



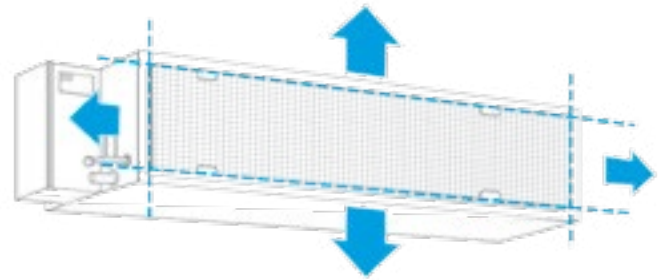
Long Pipe and Large Height Difference

Perfect for large building applications where long pipe runs and large height differences are needed. Up to 65m pipe run and 30m height difference.



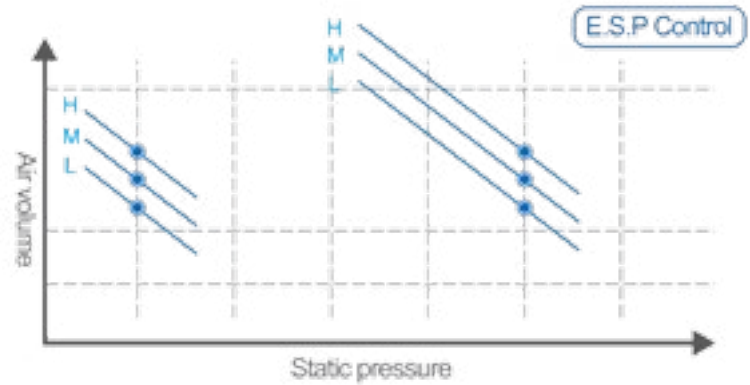
Easy Clean

The filter can easily be removed or installed from the bottom for ease of cleaning.



Adjustable Static Pressure System

With ESP control the unit automatically adjusts to different duct air flow resistances keeping a constant volume air flow allowing for easier installations.



E.S.P = External Static pressure

Standard Features



Sleep Mode



Anti-cold Air Function



Independent Dehumidification



Auto Defrosting



Auto Restart Function



Timer



Wired Control

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 heat pump 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.





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Product Specifications

SYSTEM CODE		53SHDS050	53SHDS070	53SHDS090	53SHDS100	53SHDV125	53SHDV140	53SHDV165	
INDOOR		42SHDS050	42SHDS070	42SHDS090	42SHDS100	42SHDV125	42SHDV140	42SHDV165	
OUTDOOR		38SHDS050	38SHDS070	38SHDS090	38SHDS100	38SHDV125	38SHDV140	38SHDV165	
TYPE		Slim Mid Static	Slim Mid Static	Slim Mid Static	Slim Mid Static	Hi-Static	Hi-Static	Hi-Static	
Refrigerant Type		R410A							
Power Supply (Volts-Phase-Hz)		220-240V/1/50Hz							
COOLING	Capacity - Rated	kW	4.80	7.10	8.80	9.70	12.80	14.30	16.50
	Capacity - Range (min ~ max)	kW	0.80 ~ 6.15	1.20 ~ 8.20	2.10 ~ 10.50	2.95 ~ 12.00	3.25 ~ 15.00	4.10 ~ 16.40	5.00 ~ 18.00
	Efficiency (rated)	EER	3.31	3.43	3.37	3.34	3.35	3.42	3.34
	Power Input (rated)	kW	1.45	2.07	2.61	2.90	3.82	4.18	4.94
	Operating Current (rated)	A	6.49	10.03	11.61	13.05	16.61	18.42	22.23
HEATING	Capacity - Rated	kW	5.55	8.30	10.10	11.00	14.30	16.50	17.50
	Capacity - Range (min ~ max)	kW	0.90 ~ 7.00	1.20 ~ 8.65	2.10 ~ 10.80	2.65 ~ 13.20	2.95 ~ 15.50	4.35 ~ 18.10	5.30 ~ 20.00
	Efficiency (rated)	COP	3.30	3.46	3.87	3.75	3.70	3.73	3.90
	Power Input (rated)	kW	1.68	2.40	2.61	2.93	3.86	4.42	4.49
	Operating Current (rated)	A	7.49	10.34	11.72	13.19	16.87	19.49	20.69
INDOOR UNIT	Dimension (HxWxD)	mm	210x880x674	249x1100x774	249x1360x774	249x1360x774	380x1200x625	380x1200x625	440x1400x858
	Net Weight	kg	24	31	40	40	53	56	74
	Airflow Volume (H/M/L)	L/s	245/201/158	360/298/234	510/426/314	510/426/314	890/708/897	890/708/897	1050/847/639
	Moisture Removal (cooling)	L/hr	0.70	0.80	0.96	1.05	2.90	3.17	3.68
	Fan Motor Output	W	160	160	300	300	560	560	700
	Sound Pressure (H/M/L) at 1m distance	dBa	41/39/36	43/41/37	46/43/38	46/43/38	50/46/43	50/47/43	53/49/45
	Cooling Usable Temperature Range	°C	17 to 32	17 to 32	17 to 32	17 to 32	17 to 32	17 to 32	17 to 32
	Heating Usable Temperature Range	°C	0 to 30	0 to 30	0 to 30	0 to 30	0 to 30	0 to 30	0 to 30
OUTDOOR UNIT	Dimension (HxWxD)	mm	702x845x363	810x946x410	810x946x410	810x946x410	1333x952x410	1333x952x410	1333x952x410
	Net Weight	kg	42	61	69	69	98.5	101	101
	Compressor Type		Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary	Twin Rotary
	Fan Motor Output	W	50	120	120	120	85x2	85x2	85x2
	Cooling Usable Temperature Range	°C	-10 to +46	-10 to +46	-10 to +46	-10 to +46	-10 to +46	-10 to +46	-10 to +46
	Heating Usable Temperature Range	°C	-15 to +24	-15 to +24	-15 to +24	-15 to +24	-15 to +24	-15 to +24	-15 to +24
	PIPE SIZE	Liquid Line	inch	1/4	3/8	3/8	3/8	3/8	3/8
	Gas Line	inch	1/2	5/8	5/8	5/8	3/4	3/4	
	Coupler Style		Flare	Flare	Flare	Flare	Flare	Flare	
	Drain (inside diameter)	mm	20	20	20	20	20	20	
	Maximum Length	m	30	40	40	40	50	50	
	Chargeless Length	m	15	15	15	15	15	15	
	Maximum Height Difference	m	20	20	20	20	25	25	



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

All features and specifications subject to change without prior notice.

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

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Equipment rated in accordance with 3823.2.2011 E&OE



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