



SAMSUNG

# Samsung Ducted Air Conditioning

Reverse Cycle Inverter

Learn more about  
Samsung Air Conditioning at:  
[www.samsung.com.au](http://www.samsung.com.au)

Product Introduction

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# How your Samsung Inverter Reverse Cycle Ducted Air Conditioning System works to keep you comfortable all year round

A Samsung inverter reverse cycle ducted air conditioner enables each room in your home to be efficiently cooled or heated by one system. Ducted systems are also relatively unobtrusive as the conditioned air is distributed through ducts hidden in your roof space to outlets in the ceiling of each room.

The primary components of your Samsung ducted system consist of the indoor unit, outdoor unit and controller.



## Outdoor Unit

The outdoor unit contains the Samsung Smart Inverter compressor which circulates refrigerant to the indoor unit and back again. The unit also contains a heat exchanging coil and a fan which blows air across the coil.



## Indoor Unit

The indoor unit, hidden from view, also contains a heat exchanging coil that cools the air in your house in cooling mode and warms it in heating mode. A fan then blows the conditioned air through the ducts installed in your roof space to the outlets in the ceiling of each room.



## Controller

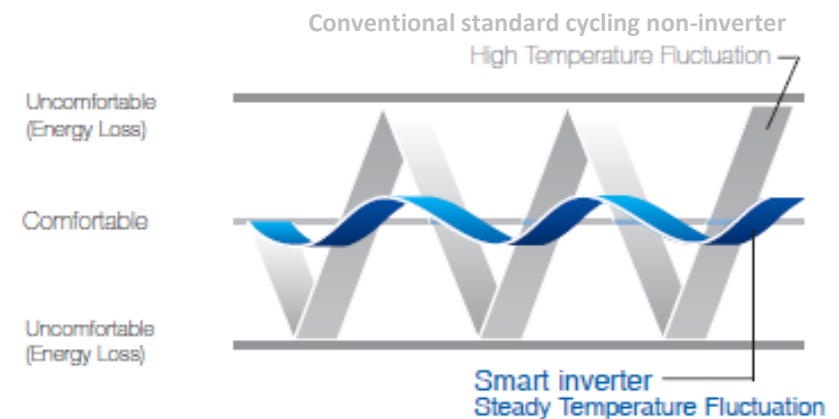
A stylish and intuitive controller makes it easy to select desired temperature and fan speeds. Premium controller models also include a number of advanced features such as LCD backlighting & time scheduling.

# Samsung Ducted System Features

## Samsung Smart Inverter - Intelligent & Effective

Samsung's Smart Inverter technology maintains the ideal temperature without constantly shutting off and switching on the compressor.

Smart inverter technology automatically adjusts the capacity of the system to cope with any temperature variances, ensuring you experience less temperature fluctuation for optimal comfort.

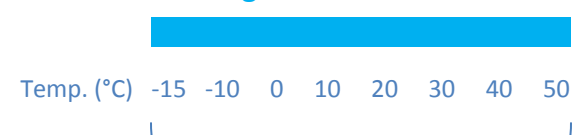


Graph is indicative only & not drawn to scale

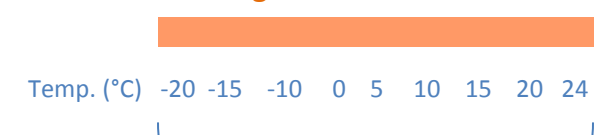
## Reliable comfort on those really hot or cold days

Your Samsung ducted air conditioner is designed to keep on working, even on those extremely hot or cold days when others may give up. With an operating range of  $-15^{\circ}\text{C}$  to  $50^{\circ}\text{C}$  outside air temperature for cooling, and  $-20^{\circ}\text{C}$  to  $24^{\circ}\text{C}$  for heating, you can rest assured that your unit will work when you need it the most.

### Cooling



### Heating



## Flexible Pipe Installation

The pipe direction of the outdoor unit can be selected from four directions as required for flexibility and a neater finish.



## Intuitive Control



Premium Controller MWR-WE10 model shown

### Standard Controller Features

- Stylish design
- Quick-access on/off and temperature selection buttons
- On/off timer allows the system to be started or stopped after a set time has passed.
- Built-in room temperature sensor
- Upper/Lower temperature limit setting to prevent temperature changes outside a set range
- Automatic stop function the system can be set to stop running after a set time has passed since a button was pressed. This can help prevent the system being left on accidentally.
- Child lock prevents undesired control inputs.
- Button permission levels
- Filter replacement alert

### Optional Premium Controller Features

- Clear and bright LCD Backlit Screen
- Real-time clock function
- Weekly operation scheduler lets you set your system to run automatically at set times each day of the week. For example, you could set your system to turn on just before you wake up, switch off just after you leave for work and turn on again just before you return home.

## Minimum Energy Performance Standards

### What is MEPS?

Air conditioners sold in Australia are required to meet Minimum Energy Performance Standards set by the Government. These standards are based on the ratio of a system's energy input versus its capacity.

From the 1<sup>st</sup> of October 2011 the latest increase in minimum efficiency levels came into effect. Samsung is proud to state that our ducted and 4 way cassette systems are fully compliant with these latest MEPS levels.

**MEPS Compliant**

## After Sales and Warranty Support

### Peace Of Mind: 5 Year Parts & Labour Warranty

Samsung split ducted and 4 Way S cassettes are covered by a 5 year parts and labour warranty. Please refer to the warranty card included with your product for full details.

### Product Support Line

If you have any concerns about your product simply call 1300 362 603 and our friendly staff will assist with your enquiry and book a service call if required.

### National Samsung Service Network

Our national network of Authorised Service Centres and Customer Service Plazas are on hand to support your product. Our specialist technicians will provide a fast and effective response.





# Ducted System Specifications

Model Name		Indoor Unit		NS071SDXEA/XSA	NS100HHXEH/XSA		NS125HHXEH/XSA	NS140HHXEH/XSA	NS155HHXEH/XSA	NS180HHXEH/XSA	
		Outdoor Unit		RC071DHXEA/XSA	RC100DHXEH/XSA		RC125DHXEH/XSA	RC140DHXEH/XSA	RC155DHXEH/XSA	RC180DHXGH/XSA	
System	Mode			-	Reverse Cycle		Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle
	Capacity	Capacity (Nominal)	Cooling (Min / Std / Max)	kW	2.2 / 7.1 / 8.0		3.5 / 10.0 / 13.3	3.5 / 12.5 / 14.0	3.5 / 14.0 / 16.0	3.5 / 15.5 / 17.0	3.8 / 17.5 / 20.0
			Heating (Min / Std / Max)	kW	1.9 / 8.0 / 9.0		3.8 / 11.2 / 15.0	3.8 / 14.0 / 17.0	3.8 / 16.0 / 19.0	3.8 / 17.0 / 20.0	4.4 / 21.0 / 24.0
	Energy Efficiency	EER (Nominal Cooling)		-	3.21		3.70	3.25	3.25	3.25	3.20
		COP (Nominal Heating)		-	3.61		3.90	3.70	3.70	3.60	3.50
		AEER (Annual Energy Efficiency Ratio)		-	3.15		3.65	3.21	3.22	3.22	3.18
ACOP (Annual Coefficient of Performance)		-	3.54		3.85	3.66	3.67	3.57	3.48		
Refrigerant	Type		-	R410A		R410A	R410A	R410A	R410A	R410A	
Power Supply			Φ, #, V, Hz	1, 2, 220~240, 50		1, 2, 220~240, 50	1, 2, 220~240, 50	1, 2, 220~240, 50	1, 2, 220~240, 50	1, 2, 220~240, 50	
Indoor Unit	Fan	Type		-	Sirocco Fan		Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan	
		Air Flow Rate	High / Mid / Low	l/s	317 / 283 / 250		600 / 550 / 500	750 / 633 / 517	833 / 733 / 633	867 / 767 / 667	1,067 / 933 / 833
		External Static Pressure	Min / Std / Max	mmAq	0 / 4 / 10		5 / 6.1 / 20	5 / 6.1 / 20	5 / 6.1 / 20	5 / 6.1 / 20	5 / 6.1 / 25
				Pa	0 / 39.2 / 98.1		19 / 60 / 196	19 / 60 / 196	19 / 60 / 196	19 / 60 / 196	19 / 60 / 245
Sound	Sound Pressure	High / Mid / Low	dB(A)	39 / 35		46 / 40.5 / 35	48 / 42.5 / 37	50 / 44.5 / 39	51 / 46 / 41	52 / 46 / 44	
External Dimension	Net Weight		kg	33		58.0	60.0	60.0	60.0	95.0	
	Shipping Weight		kg	40		67.5	69.5	69.5	69.5	105.0	
	Net Dimensions (WxHxD)		mm	1,150 x 260 x 480		1,200 x 360 x 650	1,200 x 360 x 650	1,200 x 360 x 650	1,200 x 360 x 650	1,240 x 470 x 1,040	
	Shipping Dimensions (WxHxD)		mm	1,405 x 354 x 593		1,447 x 425 x 769	1,447 x 425 x 769	1,447 x 425 x 769	1,447 x 425 x 769	1,507 x 558 x 1,155	
Power Supply			Φ, #, V, Hz	1, 2, 220~240, 50		1, 2, 220~240, 50	1, 2, 220~240, 50	1, 2, 220~240, 50	1, 2, 220~240, 50	3, 4, 380~415, 50	
Compressor	Type		-	Twin BLDC Rotary		Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	
Fan	Air Flow Rate	Cooling / Heating	l/s	833 / 800		1,508 / 1,508	1,508 / 1,508	1,683 / 1,683	1,683 / 1,683	2,150 / 2,150	
Sound	Sound Pressure	Cooling / Heating	dB(A)	49 / 51		50 / 52	51 / 53	52 / 54	53 / 55	55 / 57	
External Dimension	Net Weight		kg	55		88.0	88.0	99.0	99.0	102.0	
	Shipping Weight		kg	59		98.0	98.0	109.0	109.0	111.0	
	Net Dimensions (WxHxD)		mm	880 x 798 x 310		940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,420 x 330	940 x 1,420 x 330	940 x 1,420 x 330	
	Shipping Dimensions (WxHxD)		mm	1,023 x 889 x 416		995 x 1,338 x 426	995 x 1,338 x 426	995 x 1,548 x 426	995 x 1,548 x 426	995 x 1,548 x 426	
Operating Temp. Range	Cooling		℃	-15 ~ 50		-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	
	Heating		℃	-20 ~ 24		-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	

\*Specifications may be subject to change without prior notice for product improvement.

\*1) Nominal cooling capacities are based on;

- Indoor temperature : 27℃ DB, 19℃ WB / Outdoor temperature : 35℃ DB, 24℃ WB
- Equivalent refrigerant piping : 7.5m , Level differences : 0m

\*2) Nominal heating capacities are based on;

- Indoor temperature : 20℃ DB, 15℃ WB / Outdoor temperature : 7℃ DB, 6℃ WB
- Equivalent refrigerant piping : 7.5m , Level differences : 0m

\*3) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.