



## Samsung Ducted and Cassette Air Conditioning Systems

**SAMSUNG**

# More than a trusted Air Conditioning solution

At the heart of family living is the home, a place full of special moments and wonderful memories where families live and grow in their own unique way.

At Samsung, we imagine all sorts of innovative ways to improve how your home functions and help it run smoothly – so you have more quality time for the joys of raising your family and looking after their well-being.

We are proud to say our Samsung brand is part of an intuitive and humanistic product design company, and one of the world's top electronics producers.

Samsung Air Conditioners have been designed with the same passion for innovation and quality that has helped make Samsung one of the *2014 Best Global Brands*\*.

Samsung Air Conditioning systems are held in high esteem around the world and have been selected for a multitude of developments including shopping centres, airports, stadiums and hotels.

Samsung continues to invest heavily in R&D, performance testing and quality control to deliver quality Air Conditioning systems to market.

2014 Best Global Brand	
01	Apple
02	Google
03	Coca Cola
04	IBM
05	Microsoft
06	GE
07	<b>Samsung</b>
08	Toyota
09	McDonalds
10	Mercedes Benz

\*Source: Best Global Brand 2014. Interbrand.

PRINCIPAL PARTNER  
**SAMSUNG**

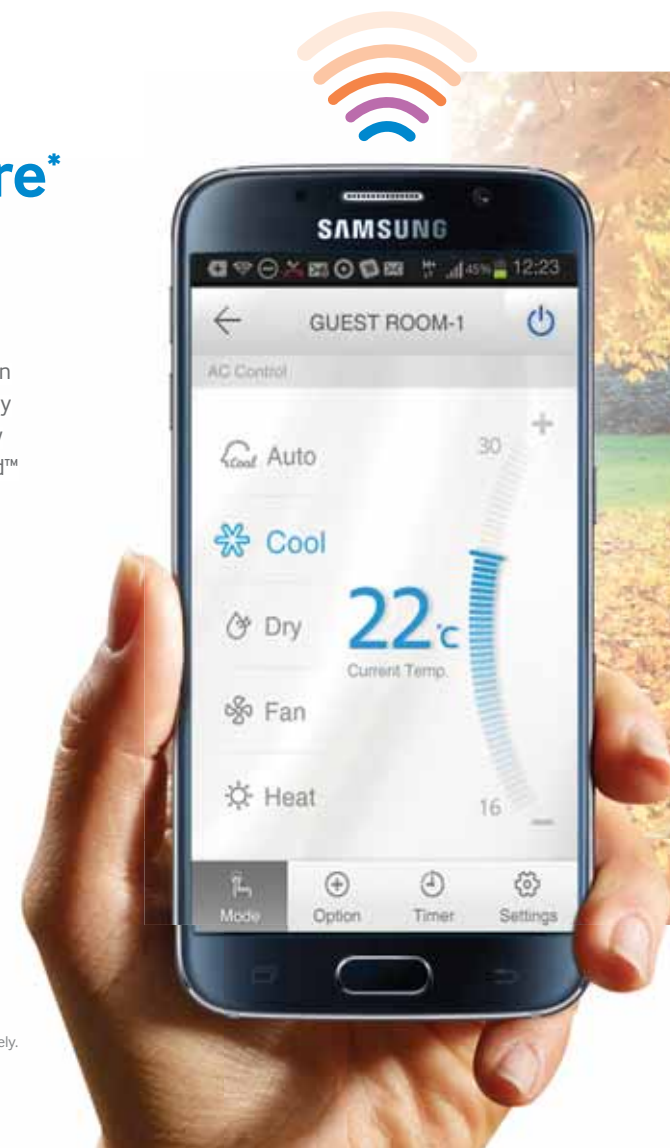


Image used with permission from Sydney Opera House Trust.

## Control your comfort from virtually anywhere\*

Wi-Fi control is now available for Samsung Ducted Air Conditioners and 4-Way Cassette S Systems.

Samsung Wi-Fi enabled\* Air Conditioners aim to change the way you can control your comfort as the control is literally at your finger tips, virtually no matter where you are. Samsung Wi-Fi enabled Air Conditioners allow the user to control the Air Conditioning unit via their compatible Android™ or iOS Smartphone or compatible Tab (sold separately) while they are in or out of the house.



\* Wi-Fi enabled control requires a wireless router. Wi-Fi enabled control is compatible with selected Android™ and iOS Smartphones and requires the Smart Air Conditioner app, downloaded from Google Play or iTunes. To use 'Out Of House' control, users must register the product at <http://global.samsungsmartappliance.com>. Internet connection required. Data charges may apply. Android is a trademark of Google Inc. iOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under licence. iTunes is a trademark of Apple Inc., registered in the U.S. and other countries.

Samsung Smartphone is sold separately.

### Out of Home\*

Using your compatible Smartphone or compatible Tab you can now control your Samsung Air Conditioning unit from virtually anywhere outside of your home. When connected out of home, you will need to be on a 3G, 4G or Wi-Fi network.

### Forgotten to turn your Air Conditioning unit off?

Samsung Wi-Fi control allows you to turn the Air Conditioning System off virtually wherever you are\*. Before you get home, check the current temperature in the room and turn your Air Conditioner on to your preferred temperature so it's to your comfort on arrival.

### At Home

When connected to your in house Wi-Fi network, your compatible Smart device acts like another remote control. However, line of sight is not always needed. For example, you could turn on your Air Conditioning unit from your compatible Smartphone or compatible Tab in the upstairs bedroom whilst you sit on the lounge watching TV so that your room is comfortable before going up to sleep.

### Tablet

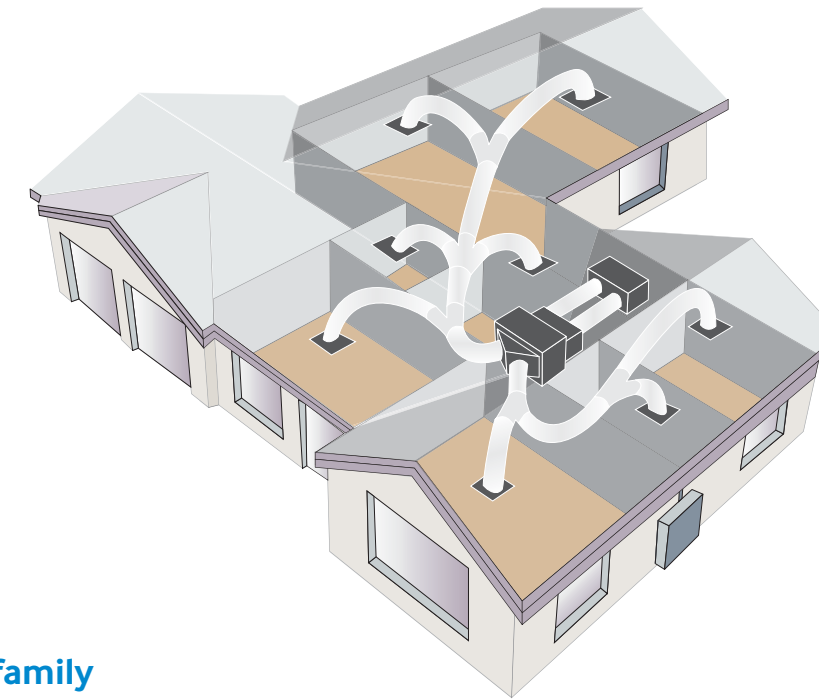
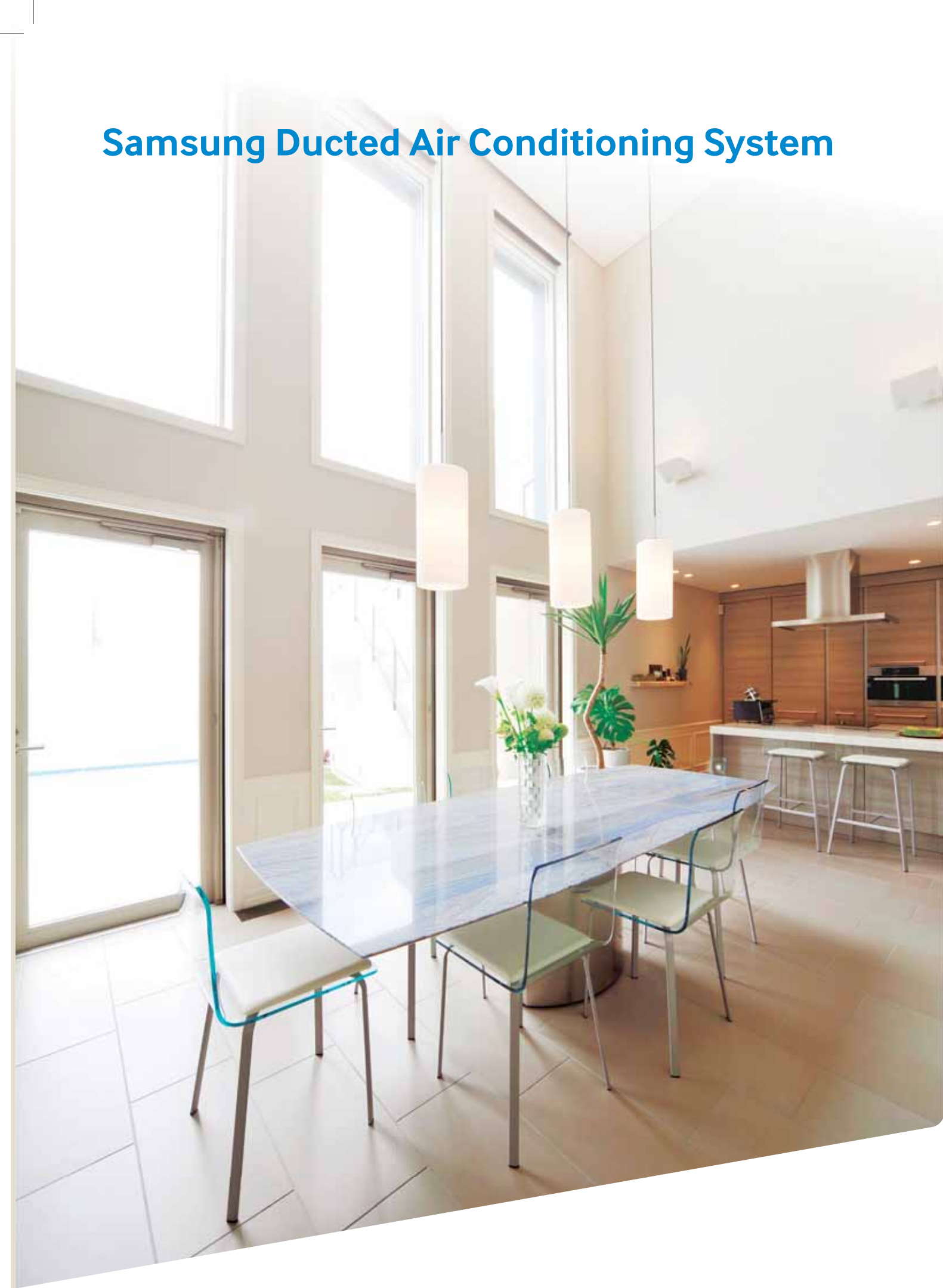
### Smartphone



Visit [www.samsung.com.au/aircon](http://www.samsung.com.au/aircon) for more information about Samsung Air Conditioners.

Samsung Smartphone and Tab sold separately.

# Samsung Ducted Air Conditioning System



## Working to keep you and your family comfortable all year round

A Samsung inverter reverse cycle Ducted Air Conditioner is designed to enable each room in your home to be 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.

### Controller

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



### 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.



## DUCTS

5.2kW to 14kW models



### Features



#### Samsung Inverter Compressor

Samsung's Smart Inverter technology helps to maintain the ideal programmed temperature without constantly shutting off and switching on the compressor. It can automatically adjust the capacity of the system to cope with almost any temperature variances, helping to ensure that you experience minimal temperature fluctuation.



#### Comfortable and Reliable

Samsung Ducted Air Conditioners are designed to keep on working, even on those extremely hot or cold days. With an operating range of -15°C to 50°C outside air temperature for cooling, and -20°C to 24°C for heating, you can be assured that your unit can work when you need it.

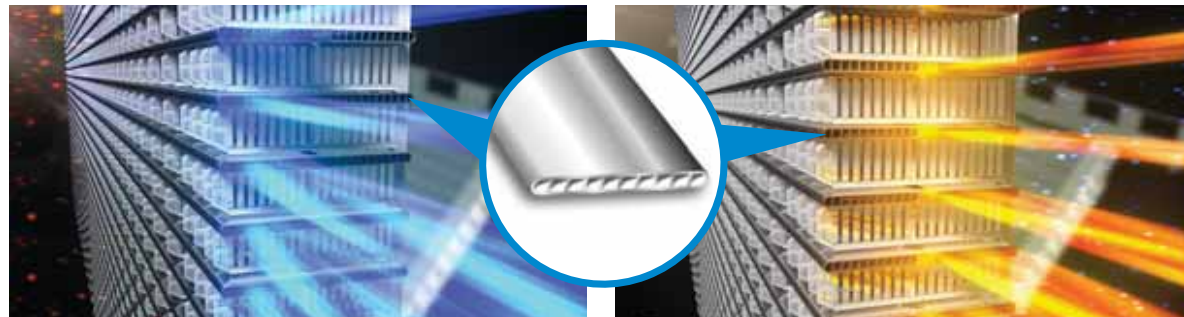
-20°C to 50°C

\*Whilst the unit will keep running up to 50°C for cooling, as the outside temperature rises above 35°C, the cooling capacity will reduce. Similarly for heating, the capacity begins to reduce below 7°C.

#### Flat Micro-Channel Technology

Duct S features flat micro-channel heat exchanger technology. Samsung engineers have used this technology to develop a low profile, light weight design with exceptional cooling and heating performance.

Applicable to 5 to 14kW models only



Flat Micro-Channel Heat Exchanger

D.R.E.D

#### Demand Response Enabled Device (D.R.E.D)

D.R.E.D allows certain energy providers to limit your power consumption during peak demand times to help reduce power strain on the electricity network. Participation may entitle you to rebates from your energy provider, contact your energy provider to find out if it recognises D.R.E.D and for details. All Samsung Duct S systems enable D.R.E.D, with the option of DRM1, DRM2, and DRM3 levels.

### Other Features



250~300mm

#### Powerful Airflow

Duct S indoor units contain up to 3 fans\* and are designed to handle duct lengths with static pressures of up to 200pa\*\*, to provide powerful airflow in your home.

\*3 fans for 9~14kW units, 2 fans for 5.2 and 7.1kW units.

\*\*200pa for 10~14kW units, 150pa for 5.2~9kW units

#### Quiet Operation

Duct S is designed to operate very quietly helping to maintain a peaceful environment.

#### Low-Profile

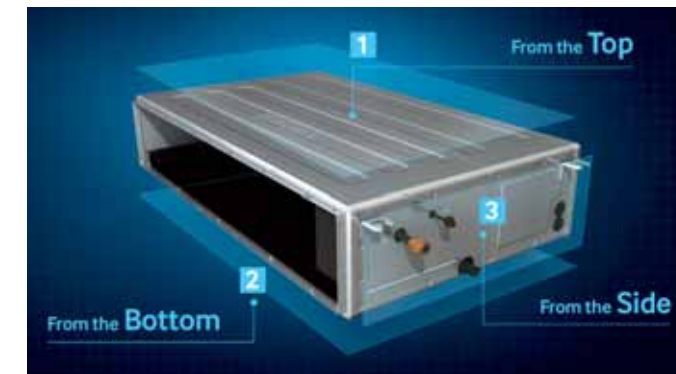
Duct S indoor units are very slim: only 250mm high for 5~9kW units and 300mm for 10kW and above. This helps enable Duct S to be installed in narrow roof spaces.

#### Light-Weight Design

The weight of the Duct S indoor unit has been reduced compared to the previous Samsung ducted range: as light as 24kg for 5.2kW and 7.1kW models.

#### 3-Way Service Access

Duct S indoor units feature removable panels on three sides for ease of maintenance.



3 Way Service Access

### Control Options



8 zone touch screen controller

MWR-WE10 (5.2kW to 14kW models only)

- 8-Zone Touch Screen Controller (optional)
- Wi-Fi\* Control (optional)
- MWR-WE10 LCD Backlit Control (optional)

\*Applications must be downloaded from Google Play or iTunes on to your compatible Android or iOS smartphone. Internet connection required. Data subscription and other charges may apply.



WiFi control\*

# DUCTS

5.2kW to 14kW models, Heat Pump, 1 Phase

Type			Duct S	Duct S	Duct S	Duct S	Duct S	Duct S		
Model Name	Indoor Unit		AC052HBHFKH/SA	AC071HBHFKH/SA	AC090HBHFKH/SA	AC100HBHFKH/SA	AC120HBHFKH/SA	AC140HBHFKH/SA		
	Outdoor Unit		AC052HCAFKH/SA	AC071HCAFKH/SA	AC090HCAFKH/SA	AC100HCAFKH/SA	AC120HCAFKH/SA	AC140HCAFKH/SA		
System	Capacity	Cooling (Min / Std / Max) <sup>1</sup>	kW	1.30 / 5.20 / 6.50	2.00 / 7.10 / 8.00	2.60 / 9.00 / 11.50	3.50 / 10.00 / 12.00	3.50 / 12.00 / 14.00	3.50 / 14.00 / 15.40	
		Heating (Min / Std / Max) <sup>2</sup>	kW	1.10 / 6.00 / 8.00	1.50 / 8.00 / 9.00	2.80 / 10.00 / 15.50	3.70 / 11.20 / 17.00	3.70 / 14.00 / 19.00	3.70 / 16.00 / 21.00	
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	0.35 / 1.32 / 2.1	0.47 / 2.01 / 3.00	0.70 / 2.60 / 4.50	0.90 / 2.57 / 3.90	0.90 / 3.50 / 4.0	0.95 / 4.12 / 5.40
			Heating (Min / Std / Max)	kW	0.26 / 1.49 / 2.80	0.36 / 2.01 / 3.50	0.65 / 2.50 / 5.50	0.81 / 2.56 / 6.90	0.85 / 3.33 / 7.2	0.85 / 3.98 / 7.50
		Current Input (Nominal)	Cooling (Min / Std / Max)	A	1.90 / 6.30 / 9.50	2.80 / 9.10 / 13.30	4.00 / 12.00 / 19.50	4.50 / 12.00 / 17.50	4.50 / 16.00 / 20.00	5.00 / 18.80 / 24.00
			Heating (Min / Std / Max)	A	1.50 / 7.30 / 12.30	2.20 / 9.10 / 15.50	3.40 / 11.50 / 21.80	4.00 / 11.80 / 31.20	4.30 / 15.20 / 31.40	4.50 / 18.40 / 31.60
	Energy Efficiency	MCA	A	22.70 (MCA)	22.70 (MCA)	26.70 (MCA)	34.70 (MCA)	34.70 (MCA)	34.70 (MCA)	
		MFA	A	25.00	25.00	30.00	40.00	40.00	40.00	
		EER (Nominal Cooling)	-	3.94	3.53	3.46	3.89	3.43	3.40	
	Energy Efficiency	COP (Nominal Heating)	-	4.03	3.98	4.00	4.38	4.20	4.02	
		Energy Grade	-	AEER 3.86	AEER 3.45	AEER 3.38	AEER 3.82	AEER 3.38	AEER 3.31	
	Piping Connections	Liquid Pipe	Φ, mm(inch)	6.35 (1/4)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
		Gas Pipe	Φ, mm(inch)	12.70 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
		Installation Limitation	Max. Length	m	30	50	50	75	75	75
			Max. Height	m	20	30	30	30	30	30
Field Wiring	Power Source Wire	Φ, mm	2.50	2.50	4.00	4.00	4.00	4.00		
	Transmission Cable	Φ, mm	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25		
Refrigerant	Type	-	R410A	R410A	R410A	R410A	R410A	R410A		
	Factory Charging	kg	1.40 (charged for 5m)	1.50 (charged for 5m)	2.60 (charged for 30m)	2.90 (charged for 30m)	2.90 (charged for 30m)	2.90 (charged for 30m)		
Indoor Unit	Power Supply	Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60		
	Fan	Air Flow Rate	Max/H/M/L	ℓ/s	366.67 / 266.67 / 225.00 / 183.33	500.00 / 366.67 / 316.67 / 266.67	633.33 / 533.33 / 450.00 / 366.67	816.67 / 533.33 / 450.00 / 366.67	833 / 633 / 533 / 416	1000.00 / 700.00 / 566.67 / 416.67
		External Static Pressure	Min/Std/Max	Pa	30.00 / 40.00 / 150.00	30.00 / 40.00 / 150.00	30.00 / 50.00 / 150.00	30.00 / 50.00 / 200.00	30.00 / 60.00 / 200.00	30.00 / 60.00 / 200.00
	Drain	Drain Pipe	Φ, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
	Sound	Sound Pressure <sup>3</sup>	High / Mid / Low	dB(A)	35.0	37.0	38.0	37.0	39.0	40.0
	External Dimension	Net Weight		kg	24.00	24.00	31.50	45.50	45.50	45.50
		Shipping Weight		kg	28.00	28.00	36.50	51.50	51.50	51.50
		Net Dimensions (WxHxD)		mm	850 x 250 x 700	850 x 250 x 700	1,200 x 250 x 700	1,300 x 300 x 700	1,300 x 300 x 700	1,300 x 300 x 700
		Supply Air Opening (WxH)		mm	818 x 220	818 x 220	1168 x 220	1268 x 270	1268 x 270	1268 x 270
	External Dimension	Return Air Opening (WxH)		mm	818 x 220	818 x 220	1168 x 220	1268 x 270	1268 x 270	1268 x 270
Shipping Dimensions (WxHxD)			mm	1,100 x 320 x 780	1,100 x 320 x 780	1,450 x 320 x 780	1,550 x 370 x 780	1,550 x 370 x 780	1,550 x 370 x 780	
Outdoor Unit	Power Supply	Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60		
	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	ℓ/s	883.33	900.00	1,050.00	1,600.00	1,916.67	1,916.67
	Sound	Sound Pressure <sup>3</sup>	Cooling / Heating	dB(A)	48.0 / 50.0	49.0 / 51.0	49.0 / 52.0	49.0 / 51.0	50.0 / 51.0	51.0 / 52.0
	External Dimension	Net Weight		kg	54.00	55.00	70.00	98.00	98.00	98.00
		Shipping Weight		kg	58.00	59.00	74.00	108.00	108.00	108.00
		Net Dimensions (WxHxD)		mm	880 x 798 x 310	880 x 798 x 310	940 x 998 x 330	940 x 1,420 x 330	940 x 1,420 x 330	940 x 1,420 x 330
	Operating Temp. Range	Shipping Dimensions (WxHxD)		mm	1,023 x 891 x 413	1,023 x 891 x 413	995 x 1,096 x 426	995 x 1,597 x 426	995 x 1,597 x 426	995 x 1,597 x 426
		Cooling	°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50	
	Operating Temp. Range	Heating	°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24	

1) Nominal cooling capacities are based on:  
 - Indoor temperature: 27°C DB, 19°C WB  
 - Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 5m, Level differences: 0m  
 2) Nominal heating capacities are based on:  
 - Indoor temperature: 20°C DB, 15°C WB  
 - Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 5m, Level differences: 0m  
 3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions. Specifications may be subject to change without prior notice due to product development.

**D.R.E.D.** Samsung Duct S units are enabled with Demand Response Enabled Device (D.R.E.D.) circuitry.

# DUCTS

10kW, 12kW, 14kW models, Heat Pump, 3 Phase

Type				Duct S	Duct S	Duct S		
Model Name	Indoor Unit			AC100HBHFKH/SA	AC120HBHFKH/SA	AC140HBHFKH/SA		
	Outdoor Unit			AC100HCAFNH/SA	AC120HCAFNH/SA	AC140HCAFNH/SA		
System	Capacity	Cooling (Min / Std / Max) <sup>1</sup>		kW	3.50 / 10.00 / 12.00	3.50 / 12.00 / 14.00	3.50 / 14.00 / 15.40	
		Heating (Min / Std / Max) <sup>2</sup>		kW	3.70 / 11.20 / 17.00	3.70 / 14.00 / 19.00	3.70 / 16.00 / 21.00	
	Power	Power Input (Nominal)	Cooling (Min / Std / Max)		kW	0.90 / 2.57 / 3.90	0.90 / 3.50 / 4.50	0.95 / 4.12 / 5.40
			Heating (Min / Std / Max)		kW	0.81 / 2.56 / 6.90	0.85 / 3.33 / 7.20	0.85 / 3.98 / 7.5
		Current Input (Nominal)	Cooling (Min / Std / Max)		A	1.70 / 4.40 / 6.80	1.70 / 5.60 / 7.20	1.90 / 6.70 / 8.50
			Heating (Min / Std / Max)		A	1.50 / 4.30 / 10.40	1.50 / 5.40 / 11.20	1.70 / 6.60 / 11.20
		MCA			A	14.70 (MCA)	14.70 (MCA)	14.70 (MCA)
		MFA			A	16.20	16.20	16.20
	Energy Efficiency	EER (Nominal Cooling)		-	3.89	3.43	3.40	
		COP (Nominal Heating)		-	4.38	4.20	4.02	
		Energy Grade		-	AEER 3.83	AEER 3.39	AEER 3.34	
	Piping Connections	Liquid Pipe		Φ, mm(inch)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
		Gas Pipe		Φ, mm(inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
		Installation Limitation	Max. Length		m	75	75	75
			Max. Height		m	30	30	30
Field Wiring	Power Source Wire		Φ, mm	2.50	2.50	2.5		
	Transmission Cable		Φ, mm	0.75 ~ 1.25	0.75 ~ 1.25	0.75 ~ 1.25		
Refrigerant	Type		-	R410A	R410A	R410A		
	Factory Charging		kg	2.90 (charged for 30m)	2.90 (charged for 30m)	2.90 (charged for 30m)		
Indoor Unit	Power Supply		Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60		
	Fan	Air Flow Rate	Max/H/M/L	ℓ/s	816.67/ 533.33 / 450.00 / 366.67	833.33/ 633.33 / 533.33 / 416.67	1000 / 700 / 567 / 417	
		External Static Pressure	Min/Std/Max	Pa	30.00 / 50.00 / 200.00	30.00 / 60.00 / 200.00	30.00 / 50.00 / 200.00	
	Drain	Drain Pipe		Φ, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
	Sound	Sound Pressure <sup>3</sup>	High / Mid / Low	dB(A)	37.0	39.0	40.0	
	External Dimension	Net Weight		kg	45.50	45.50	45.50	
		Shipping Weight		kg	51.50	51.50	51.50	
		Net Dimensions (WxHxD)		mm	1,300 x 300 x 700	1,300 x 300 x 700	1,300 x 300 x 700	
		Supply Air Opening (WxH)		mm	1268 x 270	1268 x 270	1268 x 270	
		Return Air Opening (WxH)		mm	1268 x 270	1268 x 270	1268 x 270	
	Shipping Dimensions (WxHxD)		mm	1,550 x 370 x 780	1,550 x 370 x 780	1,550 x 370 x 780		
Outdoor Unit	Power Supply		Φ, #, V, Hz	3,4,380-415,50/60	3,4,380-415,50/60	3,4,380-415,50/60		
	Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	
	Fan	Air Flow Rate	Cooling	ℓ/s	1,600.00	1,916.67	1,916.67	
	Sound	Sound Pressure <sup>3</sup>	Cooling / Heating	dB(A)	49.0 / 51.0	50.0 / 51.0	51.0 / 52.0	
	External Dimension	Net Weight		kg	100.00	100.00	100.00	
		Shipping Weight		kg	110.00	110.00	110.00	
		Net Dimensions (WxHxD)		mm	940 x 1,210 x 330	940 x 1,420 x 330	940 x 1,420 x 330	
		Shipping Dimensions (WxHxD)		mm	995 x 1,597 x 426	995 x 1,597 x 426	995 x 1,597 x 426	
	Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	
		Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	

1) Nominal cooling capacities are based on:  
 - Indoor temperature: 27°C DB, 19°C WB  
 - Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 5m, Level differences: 0m

2) Nominal heating capacities are based on:  
 - Indoor temperature: 20°C DB, 15°C WB  
 - Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 5m, Level differences: 0m

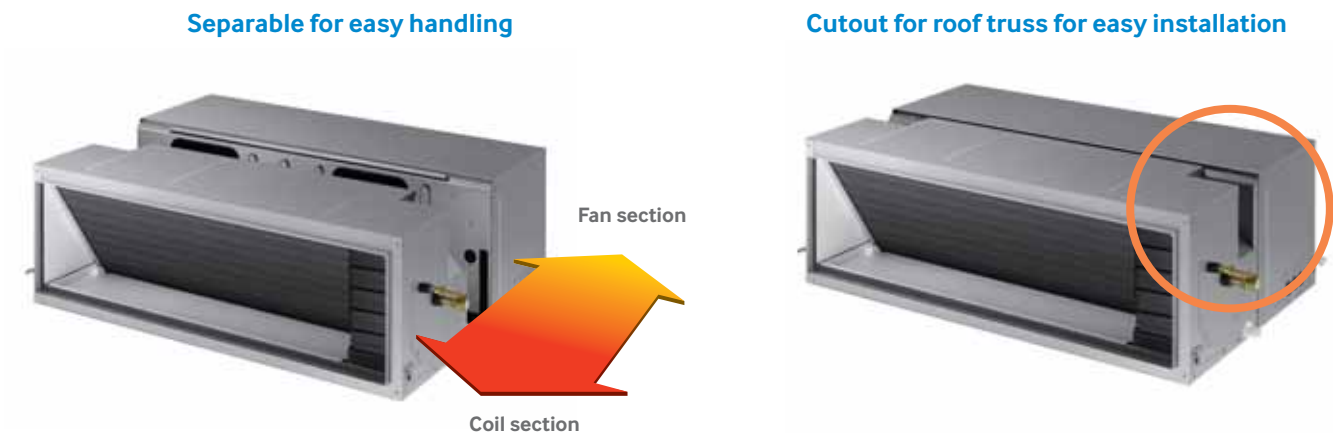
3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions. Specifications may be subject to change without prior notice due to product development.

Samsung Duct S units are enabled with Demand Response Enabled Device (D.R.E.D.) circuitry.

## LARGE CAPACITY DUCTS

16kW, 18kW, 20kW models, Heat Pump

Designed to help meet  
Australian conditions



Model Name	Indoor Unit		AC160JNHFKH/SA	AC160JNHFKH/SA	AC180JNHFKH/SA	AC200JNHFKH/SA
	Outdoor Unit		AC160JXAFKH/SA	AC160JXAFNH/SA	AC180JXAFNH/SA	AC200JXAFNH/SA
Power Supply	Indoor Unit		220-240V 1-phase	220-240V 1-phase	220-240V 1-phase	220-240V 1-phase
	Outdoor Unit		220-240V 1-phase	380-415V 3-phase	380-415V 3-phase	380-415V 3-phase
Capacity	Cooling (Min/Std/Max) <sup>1</sup>	kW	4.5 / 16.0 / 18.0		6.0 / 18.0 / 20.0	6.2 / 20.0 / 22.5
	Heating (Min/Std/Max) <sup>2</sup>	kW	3.7 / 18.0 / 20.0		4.8 / 20.0 / 22.5	5.0 / 22.5 / 25.0
Efficiency	EER (Std, Cooling)		3.4	3.4	3.4	3.3
	COP (Std, Heating)		3.7	3.7	3.7	3.7
Circuit Amps	MCA	A	34.5	14.5	14.5	25.0
	MFA	A	40.0	16.0	16.0	31.3
Indoor Unit	Airflow Rate (H, M, L)	l/s	1116 / 966 / 816		1183 / 1000 / 833	1200 / 1016 / 850
	ESP (H,M,L)	Pa	196 / 60 / 49			196 / 72 / 49
	Sound Pressure @ 1.5m (H/L) <sup>3</sup>	dB(A)	43 / 39 / 35			44 / 40 / 36
	Unit Dimensions (WxHxD)	mm	1,350 x 450 x 910			
	Weight	kg	78.5	78.5	82.5	82.5
	Supply Air Opening (WxH)	mm	1284 x 360			
	Return Air Opening (WxH)	mm	1284 x 360			
	Drain pipe connection	mm	OD25, ID20			
	Drain pump (Optional)		MDP-G075SQ (internal type), MDP-G075SP (external type)			
Outdoor Unit	Compressor type		Twin BLDC Rotary		BLDC Scroll	
	Sound Pressure @ 1m (Cool/Heat) <sup>3</sup>	dB(A)	53.0 / 55.0	53.0 / 55.0	55.0 / 57.0	57.0 / 59.0
	Weight	kg	95	95	107.5	190
	Unit Dim (WxHxD)	mm	940 x 1,420 x 330		880 x 1,695 x 765	
Pipe Connection	Liquid Pipe	mm, in	9.52, 3/8"			
	Gas Pipe	mm, in	15.88, 5/8"		19.05, 3/4"	
Installation	Max. Length	m	75 (75)	75 (75)	75 (75)	150 (150)
	Max. Height	m	30 (30)	30 (30)	30 (30)	50 (40)
Refrigerant	Type		R410A			
	Factory Charge	kg	3.5	3.5	4.6	8.0
	Additional charge	kg	+50g/m over 30m		+60g/m over 30m	
Operating Temp. Range	Cooling	°C	-15 to 50			
	Heating	°C	-20 to 24			

1) Nominal cooling capacities are based on:  
- Indoor temperature: 27°C DB, 19°C WB  
- Outdoor temperature: 35°C DB, 24°C WB  
Equivalent piping: 5m (16kW, 18kW), 7.5m (20kW), level difference 0m.

2) Nominal heating capacities are based on:  
- Indoor temperature: 20°C DB, 15°C WB  
- Outdoor temperature: 7°C DB, 6°C WB  
Equivalent piping: 5m (16kW, 18kW), 7.5m (20kW), level difference 0m.

3) Sound pressure was acquired in an anechoic room, actual noise level may be different depending on installation conditions.  
Specifications may be subject to change without prior notice due to product development.

**D.R.E.D**

Samsung large capacity ducted units are enabled with Demand Response Enabled Device (D.R.E.D) circuitry.

## Stylish design and year round comfort



## Samsung 4-Way Cassette S Range

There are two distinct solutions in the Samsung 4-Way Cassette S Range

**Samsung 4-Way Cassette S** is ideal for residential and light commercial applications with limited roof space. This product has a stylish design, an effective Smart Inverter compressor and a plethora of innovative features.

**Samsung Mini 4-Way Cassette S** is ideal for small spaces in residential and light commercial applications where roof space may be limited. They have a compact ceiling size which helps them blend into the ceiling in your home whilst still packing many features.



### Cassette S Range Features



#### Stylish Panel Design

Both Samsung Cassette S models have a stylish waffle pattern design with a subtle fascia panel to complement the aesthetics of almost any interior space.

Mini 4-Way Cassette S specifically uses cleverly designed blades to close flush with the unit when not operating to help maintain a sleek and unobtrusive look.

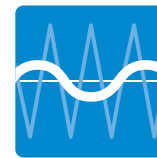


#### Wide Temperature Performance Range

The 4-Way Cassette S is designed with an operating range of -15°C to 50°C outside air temperature for cooling, and -20°C to 24°C for heating. You can be assured that your unit will work when you need it\*.

	Outside Air Temp for Cooling	Outside Air Temp for Heating
4-Way Cassette S	-15°C to 50°C	-20°C to 24°C
Mini 4-Way Cassette S	-10°C to 46°C	-15°C to 24°C

\*Whilst the unit will keep running up to 50°C for cooling, as the outside temperature rises above 35°C, the cooling capacity will reduce. Similarly for heating, the capacity begins to reduce below 7°C.

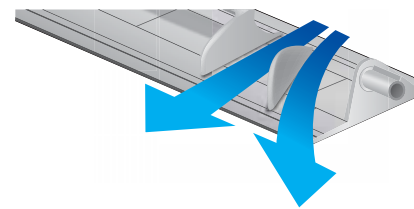


#### Smart Inverter Compressor

Samsung's Smart Inverter technology helps to maintain an ideal temperature without constantly shutting off and switching on the compressor. It automatically adjusts the capacity of the system to cope with temperature variances, helping to ensure that you experience minimal temperature fluctuation for optimal comfort.

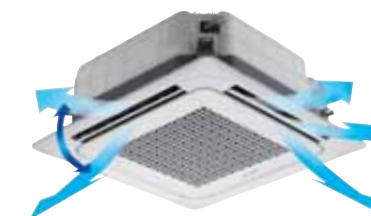
#### Uniform Airflow

The blades have angled sections to guide air 'around the corner'. This helps to limit the 'blind spot' effect of the corners helping to ensure uniform airflow.



#### Customisable Airflow

The unit can be configured as a 4, 3, 2 or even 1-Way Cassette by selecting which blades are open when the unit is running. Vertical blade angles can be individually set for optimum airflow in your home.



#### Easy To Clean

Airflow blades can be easily removed individually for cleaning so you don't need to remove the whole panel.





# 4-WAY CASSETTE SYSTEM

## Models and Specifications



Model Name	Indoor Unit			NS0714PXEA/XSA	NS1004PXEA/XSA	NS1254PXEA/XSA	NS1404PXEA/XSA
System	Outdoor Unit			RC071PHXEA/XSA	RC100PHXEA/XSA	RC125PHXEA/XSA	RC140PHXEA/XSA
Mode				Reverse Cycle	Reverse Cycle	Reverse Cycle	Reverse Cycle
Capacity	Capacity (Nominal)	Cooling (Min / Std / Max) <sup>1</sup>	kW	2.2 / 7.1 / 8.0	3.5 / 10.0 / 12.0	3.5 / 12.5 / 14.0	4.4 / 14.0 / 15.5
		Heating (Min / Std / Max) <sup>2</sup>	kW	1.9 / 8.0 / 9.0	3.5 / 11.2 / 15.5	3.5 / 14.0 / 16.2	3.5 / 16.0 / 20.0
Energy Efficiency	AEER (Annual Energy Efficiency Ratio)		-	3.49	3.99	3.39	3.30
	ACOP (Annual Coefficient of Performance)		-	3.90	4.29	3.70	3.79
Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	0.35 / 2.03 / 4.00	0.8 / 2.5 / 3.8	0.8 / 3.68 / 4.8	1.05 / 4.24 / 5.4
		Heating (Min / Std / Max)	kW	0.35 / 2.05 / 4.00	0.7 / 2.61 / 4.5	0.7 / 3.78 / 4.5	0.87 / 4.32 / 6.5
	Current Input (Nominal)	Cooling (Min / Std / Max)	A	2.1 / 9.5 / 18.0	3.7 / 10.5 / 24.0	3.7 / 15.5 / 24.0	4.6 / 17.8 / 24.0
		Heating (Min / Std / Max)	A	2.1 / 9.5 / 18.0	3.5 / 11.5 / 24.0	3.5 / 16.0 / 24.0	4.0 / 18.7 / 28.0
Circuit Breaker (MCCB+ELB / ELCB)			A	25	30	30	40
Piping Connections	Liquid Pipe		Φ, mm(inch)	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	Gas Pipe		Φ, mm(inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	Installation Limitation	Max. Length	m	50.0	75.0	75.0	75.0
		Max. Height	m	30.0	30.0	30.0	30.0
Refrigerant	Type		-	R410A	R410A	R410A	R410A
	Factory Charging		kg	1.8 (Charged for 5m)	3.4 (Charged for 30m)	3.4 (Charged for 30m)	3.8 (Charged for 30m)
<b>Indoor unit</b>							
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
Fan	Type		-	Turbo Fan / BLDC	Turbo Fan / BLDC	Turbo Fan / BLDC	Turbo Fan / BLDC
	Air Flow Rate	High / Mid / Low	ℓ/s	(C) 383 / 350 / 292 (H) 367 / 300 / 267	500 / 400 / 300	500 / 400 / 317	533 / 433 / 350
Sound	Sound Pressure	High / Mid / Low <sup>3</sup>	dB(A)	36 / 32 / 28	44 / 39 / 34	44 / 40 / 36	45 / 41.5 / 38
External Dimension	Net Weight		kg	17	21	21	21
	Shipping Weight		kg	22	26	26	26
	Net Dimensions (WxHxD)		mm	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840
	Shipping Dimensions (WxHxD)		mm	898 x 316 x 898	898 x 357 x 898	898 x 357 x 898	898 x 357 x 898
Panel Size	Panel model		-	PC4NUSKA	PC4NUSKA	PC4NUSKA	PC4NUSKA
	Panel Net Weight		kg	5.9	5.9	5.9	5.9
	Shipping Weight		kg	8.4	8.4	8.4	8.4
	Net Dimensions (WxHxD)		mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
	Shipping Dimensions (WxHxD)		mm	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005	1,005 x 100 x 1,005
Accessories	Drain pump	Drain pump	-	Built-in	Built-in	Built-in	Built-in
		Max. Lifting Height / Displacement	mm / ℓ/h	750 / 24	750 / 24	750 / 24	750 / 24
	Air Filter		-	Long life filter	Long life filter	Long life filter	Long life filter
<b>Outdoor unit</b>							
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
Compressor	Type		-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
Fan	Air Flow Rate	Cooling / Heating	ℓ/s	833 / 800	1,508 / 1,383	1,508 / 1,508	1,683 / 1,683
Sound	Sound Pressure <sup>3</sup>	Cooling / Heating	dB(A)	49 / 51	49 / 51	51 / 52	51 / 53
External Dimension	Net Weight		kg	55	88	88	98
	Shipping Weight		kg	59	98	98	108
	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
	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
Operating Temp. Range	Cooling		°C	-15 ~ 50	-15 ~ 50	-15 ~ 50	-15 ~ 50
	Heating		°C	-20 ~ 24	-20 ~ 24	-20 ~ 24	-20 ~ 24

1) Nominal cooling capacities are based on:  
 - Indoor temperature: 27°C DB, 19°C WB  
 - Outdoor temperature: 35°C DB, 24°C WB, Equivalent refrigerant piping: 5m, Level differences: 0m

2) Nominal heating capacities are based on:  
 - Indoor temperature: 20°C DB, 15°C WB  
 - Outdoor temperature: 7°C DB, 6°C WB, Equivalent refrigerant piping: 5m, Level differences: 0m

3) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

Specifications may be subject to change without prior notice due to product development.

# MINI 4-WAY CASSETTE SYSTEM

## Models and Specifications



Model Name System	Indoor Unit		ACN026NDEHH/SA	ACN035NDEHH/SA	ACN052NDEHH/SA	ACN060NDEHH/SA		
	Outdoor Unit		RC026DHXEH/XSA	RC035DHXEH/XSA	RC052DHXEH/XSA	RC060DHXEH/XSA		
Mode			-	Heat Pump	Heat Pump	Heat Pump	Heat Pump	
Capacity	Capacity (Nominal)	Cooling (Min / Std / Max) <sup>1</sup>	kW	0.99 / 2.6 / 3.5	0.99 / 3.5 / 4.2	1.3 / 5.0 / 5.9	1.8 / 5.8 / 6.5	
		Heating (Min / Std / Max) <sup>1</sup>	kW	0.98 / 3.3 / 4.6	0.98 / 4.0 / 5.0	1.3 / 5.5 / 7.5	1.6 / 6.4 / 9.0	
Power	Power Input (Nominal)	Cooling (Min / Std / Max)	kW	0.23 / 0.65 / 1.13	0.24 / 0.94 / 1.45	0.31 / 1.39 / 2.10	0.38 / 1.75 / 2.60	
		Heating (Min / Std / Max)	kW	0.18 / 0.87 / 1.40	0.18 / 1.07 / 1.40	0.35 / 1.62 / 2.40	0.35 / 1.93 / 3.60	
	Current Input (Nominal)	Cooling (Min / Std / Max)	A	1.6 / 3.07 / 5.5	1.6 / 4.4 / 6.8	2.6 / 6.5 / 9.5	1.9 / 7.8 / 11.5	
		Heating (Min / Std / Max)	A	1.2 / 4.1 / 6.6	1.2 / 5.0 / 6.7	2.9 / 7.6 / 11.0	1.7 / 8.7 / 17.3	
	MCA		A	11	15	24	24	
MFA		A	20	20	30	30		
Energy Efficiency	AEER (Annual Energy Efficiency Ratio)		-	3.98	3.71	3.59	3.31	
	ACOP (Annual Coefficient of Performance)		-	3.79	3.73	3.39	3.31	
Piping Connections	Liquid Pipe		Φ, mm(inch)	6.35, 1/4"	6.35, 1/4"	6.35, 1/4"	6.35, 1/4"	
	Gas Pipe		Φ, mm(inch)	9.35, 3/8"	12.7, 1/2"	15.88, 5/8"	15.88, 5/8"	
	Installation Limitation	Max. Length	m	20	30	50	50	
		Max. Height	m	15	20	30	30	
Refrigerant	Type		-	R410A	R410A	R410A	R410A	
	Factory Charging		kg	0.95	1.40	1.80	1.80	
<b>Indoor unit</b>								
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	
Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	
	Air Flow Rate		High / Mid / Low	ℓ/s	163 / 137 / 115	182 / 150 / 122	207 / 178 / 150	213 / 185 / 157
Sound	Sound Pressure		High / Mid / Low <sup>2</sup>	dB(A)	34 / 31 / 27	36 / 33 / 29	39 / 36 / 34	41 / 38 / 34
External Dimension	Net Weight		kg	11.0	11.7	12.0	12.0	
	Shipping Weight		kg	13.0	13.7	14.0	14.0	
	Net Dimensions (WxHxD)		mm	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	
	Shipping Dimensions (WxHxD)		mm	623 x 298 x 653	623 x 298 x 653	623 x 298 x 653	623 x 298 x 653	
Panel Size	Panel model		-	PC4SUSMB	PC4SUSMB	PC4SUSMB	PC4SUSMB	
	Panel Net Weight		kg	2.7	2.7	2.7	2.7	
	Shipping Weight		kg	4.2	4.2	4.2	4.2	
	Net Dimensions (WxHxD)		mm	670 x 45 x 670	670 x 45 x 670	670 x 45 x 670	670 x 45 x 670	
	Shipping Dimensions (WxHxD)		mm	714 x 106 x 724	714 x 106 x 724	714 x 106 x 724	714 x 106 x 724	
Accessories	Drain pump	Drain pump	-	Built-in	Built-in	Built-in	Built-in	
		Max. Lifting Height / Displacement	mm / ℓ/h	750 / 24	750 / 24	750 / 24	750 / 24	
	Air Filter		-	Default	Default	Default	Default	
<b>Outdoor unit</b>								
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	
Compressor	Type		-	Single BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	
Fan	Air Flow Rate		Cooling / Heating	ℓ/s	477	492	735	767
Sound	Sound Pressure <sup>2</sup>		Cooling / Heating	dB(A)	46 / 47	47 / 48	49 / 50	50 / 51
External Dimension	Net Weight		kg	33	38.5	55.0	55.0	
	Shipping Weight		kg	37	42.5	59.0	59.0	
	Net Dimensions (WxHxD)		mm	790 x 548 x 285	790 x 548 x 285	880 x 798 x 310	880 x 798 x 310	
	Shipping Dimensions (WxHxD)		mm	926 x 655 x 382	927 x 655 x 382	1,023 x 891 x 413	1,023 x 891 x 413	
Operating Temp. Range	Cooling		°C	-10 ~ 46	-10 ~ 46	-15 ~ 46	-15 ~ 46	
	Heating		°C	-15 ~ 24	-15 ~ 24	-15 ~ 24	-20 ~ 24	

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

<sup>2)</sup> Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.

<sup>1)</sup> Nominal Capacities are based on  
 (Equivalent refrigerant piping length: 7.5m, Level differences: 0m);  
 - Cooling: Indoor temperature: 27°C DB, 19°C WB / Outdoor temperature: 35°C DB, 24°C WB  
 - Heating: Indoor temperature: 20°C DB, 15°C WB / Outdoor temperature: 7°C DB, 6°C WB

# Intuitive Control



## Easy to use and stylish in design


To accompany your Ducted Air Conditioning System or 4-Way Cassette System, is a choice of controllers. The MWR-WE10 is a LCD Backlit controller with a host of features. The MWR-WE10 is optional for Duct S and Cassette models.


MWR-WE10N controller applies to 16, 18, and 20kW Duct models.





MWR-WE10 / MWR-WE10N controller


### MWR-WE10 / MWR-WE10N controller Features


- 


**Clear And Bright LCD Backlit Screen**
- 


**Weekly Operation Scheduler**  
Enables you to set your system to run automatically at certain times of each day of the week.
- 


**Real-Time Clock Function**
- 


**Filter Replacement Alert**
- 


**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**  
Helps prevent temperature changes outside a set range.
- 

**Child Lock**
- 

**Automatic Stop Function**  
Can help set the unit to stop running after a set time has passed. This can help prevent the system being left on accidentally.
- 

**Button Permission Levels**



#### 8-Zone Touch Screen Controller (optional, for use with Duct S only)

This stylish touch screen enables control of the functions of your Duct S system as well as the open/close operation of up to 8 zones in your home. This eliminates the need to have a separate zone controller or "light switch" type panel on your wall.

**Model codes:**

MWR-ZS00 (5kW to 14kW models)  
MWR-ZS00N (16kW to 20kW models)  
Damper controller and zone touch controller package

MWR-ZS10 (5kW to 14kW models)  
MWR-ZS10N (16kW to 20kW models)  
Zone touch controller only

**MRW-TS**

Remote temperature sensor for use with zone controller



MR-EH00

#### Wireless IR Remote (optional, for use with 4-Way Cassettes)

A wireless IR remote controller, MR-EH00, is also available for use with 4-Way and Mini 4-Way cassettes.



#### WiFi Control (optional, Wi-Fi kit required)

Samsung Ducted and Cassette systems featured in this brochure can be controlled by a compatible Smart device\* when combined with the optional WiFi kit. See next page for details.

\*Wi-Fi enabled control requires a wireless router. Wi-Fi enabled control is compatible with selected Android™ and iOS Smartphones and requires the Smart Air Conditioner app, downloaded from Google Play or iTunes. To use "Out Of House" control, users must register the product at <http://global.samsungsmartappliance.com>. Internet connection required. Data charges may apply. Android is a trademark of Google Inc. iOS is a trademark or registered trademark of Cisco in the U.S. and other countries and is used under licence. iTunes is a trademark of Apple Inc., registered in the U.S. and other countries.