SAMSUNG

Samsung is committed to providing you peace of mind, with after-sales and warranty support.

5 year warranty on parts and labour

We have you covered with Samsung's 5 years parts and labour warranty for residential application of products featured in this brochure.
Refer to the warranty card included with your product for full details.*

National Samsung service network

Our extensive national repairer network and dedicated Service Centres are on hand to support your product. We have extensive spare parts in Australia to ensure we get your air conditioning back up and running.

MEPS compliant

All Samsung air conditioners sold in Australia meet Minimum Energy Performance Standards (MEPS) as set by the Australian Government.

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.

*This is in addition to the rights of consumers under consumer guarantees pursuant to the Australian Consumer Law.

To learn more about Samsung Air Conditioners go to www.samsung.com/au/air-conditioners

Samsung Electronics Australia Pty Ltd
ABN 63 002 915 648
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Sydney Olympic Park, NSW 2127 Australia

July 2026

Ducted Air Conditioning

Inverter Slim-Line and Splittable Duct

The future of cooling

Samsung's new ducted lineup brings smarter, quieter and more flexible cooling into every space — from homes to hotels to offices, while seamlessly fitting into your SmartThings ecosystem with other compatible devices. Designed with energy efficiency* at its core, it helps businesses and households lower operational costs while supporting long-term sustainability goals.

Engineered for comfort, built for performance and made to blend in beautifully, Samsung's new Ducted lineup provides a cooling solution that meets every climate control need.

* Based on usage of AI Energy Mode and Digital Inverter technology. Actual energy savings may vary by usage patterns and environment.

Smart cooling that's always connected

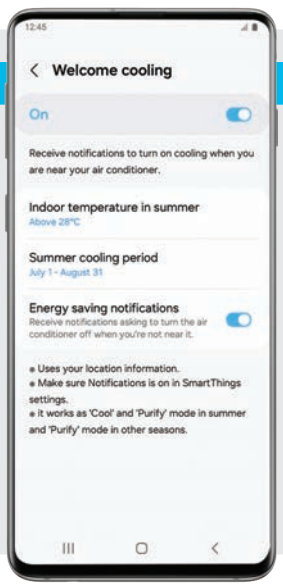
Thanks to the built-in Wi-Fi, the system connects seamlessly with the Samsung SmartThings App*, no extra modules required. Remotely control your air conditioner, automate settings and receive real-time updates on your system's performance, all in one app. For added convenience, it also supports voice control for a hands-free experience.

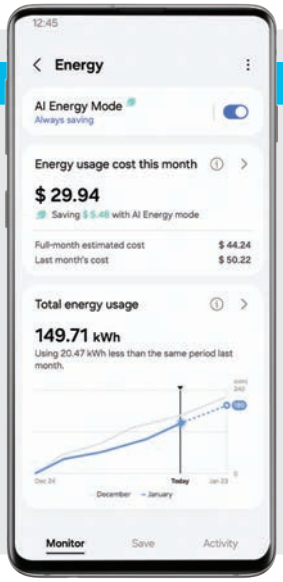
*Available on Android and iOS devices. A Wi-Fi connection and a Samsung account are required.

Welcome Cooling/Heating

Arrive to the perfect breeze every time. The intuitive Welcome Cooling/Heating mode tracks your location via your smartphone GPS* and automatically activates the air conditioner to your preferred temperature and modes.

*This function may be affected by the GPS conditions.





AI Energy Mode

SmartThings AI Energy Mode helps to reduce energy costs by analysing usage patterns and external factors to optimise the system's efficiency*.

*Requires the use of SmartThings app and a Samsung account. Actual savings may vary by model, usage patterns and environment.

Comfort cooling for good sleep

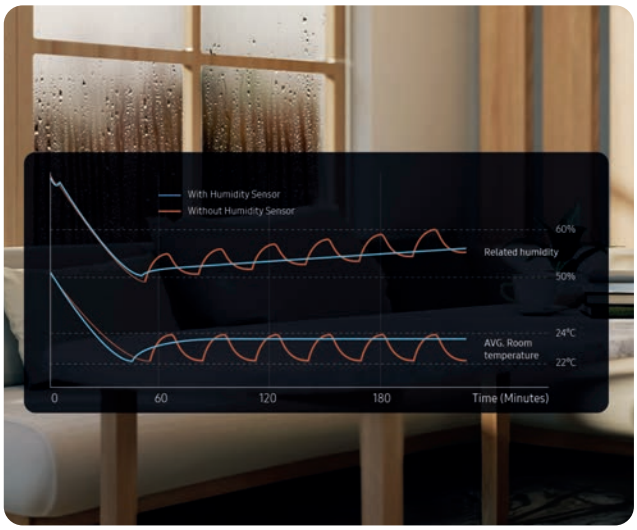
Your air conditioning automatically adjusts the target temperature throughout the night for a deep and restful sleep - all while saving up to 15% energy*. Good sleep mode can also be used with wearable smart devices** to automatically activate when you fall asleep.

* Actual savings may vary by model, usage patterns and environment. Savings realised on AC140HEHFKG/SA comparing power consumption between Normal Cooling + Good Sleep mode vs Normal Cooling at 26°C over 8 hours.
** Good Sleep Mode can be used when linking a Samsung smartphone with One UI version 4.0 or later and a Wear OS supporting device: Galaxy Watch 4 or later, Fit 3 or later, Galaxy Ring. Wi-Fi Connection and SmartThings App installation on the wearable device are required.

Always the right kind of cool

Comfort Humidity Control utilises both temperature and humidity sensors to maintain steady indoor conditions. It maintains the evaporator temperature near the dew point to minimise overcooling, facilitates continuous dehumidification and saves up to 26% of energy in Dry Mode[1]. Real-time monitoring is available through SmartThings or a Wired remote controller[2] for added visibility and control.

[1] Based on internal test results, and power consumption is accumulated for 4 hours of operation.
– Test model: Slim-Line Duct (AC140HEHDKG/SA)
– Test condition: Outdoor dry bulb 27°C, wet bulb 24°C.
– Test mode: dehumidification mode. Actual energy saving can differ by model & test condition.
[2] Only the colour Wired remote controller (MWR-WG01JN) supports this function.



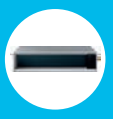
Seamless integration with a universal outdoor unit

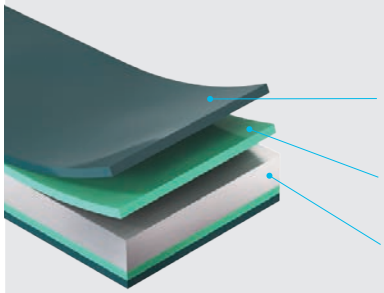
The Samsung CAC outdoor unit is compatible with all indoor unit designs, offering greater freedom in design and simplifying installation. Built for durability, the outdoor unit is shielded by Samsung's exclusive Durafin™ technology, a protective layer to reduce corrosion and extend the life of your system.

360 Cassette

4-Way

Splittable Duct


Slim-Line Duct



Anti-corrosion Coating

Durafin™ Ultra technology offers superior corrosion resistance with dual-layer coatings that repel water, ensuring long-lasting performance and efficiency.

* Coating varies depending on model.

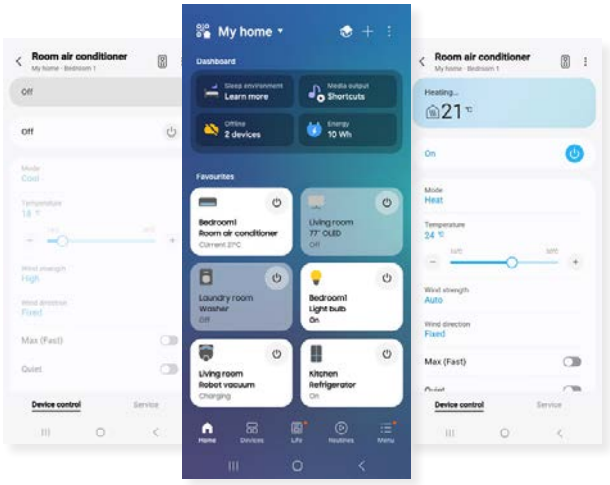
Easy installation, wherever it fits best

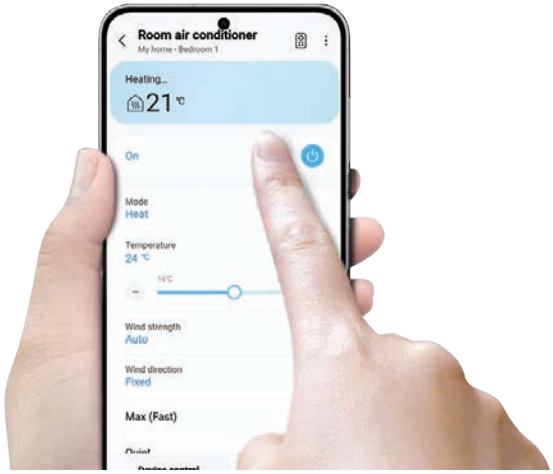
The ducts include an optional High Lift Up Drain Pump, which lifts condensed water up to 750mm, which allows for more flexible unit placement. Installation and maintenance are simplified, with easy access to the pump by removing the right-side panel.

*Specifications may vary by model.

Wi-Fi onboard

The new Ducted Systems come with built-in Wi-Fi connectivity, so you can easily connect, monitor and control your unit without requiring additional accessories or setup costs. The unit will also seamlessly fit into your suitable smart device ecosystem via SmartThings.





*Images are for illustration purposes.
Product images may be different to actual product. Product size varies depending on model.

Hygienic self cleaning with Freeze Wash

Support consistent performance of your system with the push of a button. Freeze Wash rapidly freezes and then defrosts the heat exchanger, removing up to 95% of certain micro-organisms on the surface of the heat exchanger*. Finally, it dries up any remaining moisture and notifies you again in the future when it's time for a clean.

Freeze Defrost & Wash Dry

*Intertek Report No.: RT26E-S008, Date: 24 Feb 2026. The Freeze Wash course of Samsung Air conditioner will remove more than 95 % of the Escherichia coli and Staphylococcus aureus bacteria on the surface of heat exchanger. Result may vary depending on the model used, environmental factors and individual use.

Designed to cool large spaces with ease

With more inlets and outlets, the ducted range makes flexible installation simple and reliable, especially when the unit needs to be installed farther from the ceiling vent.

Automatically adapts to your space

The Auto ESP function senses environmental changes and adjusts fan speed to optimise airflow and minimise noise. With no manual adjustment necessary, it saves time on installation and maintenance. Easy tuning via the remote allows for fine-tuning of fan speed based on activity level or personal requirement.

Inverter Slim-Line Duct

The Slim-Line Duct units blend compact form with powerful airflow to suit any space. Easy to install, quiet to run and smart enough to adapt as your needs change.

Lightweight and easy to install

Inverter Slim-Line Duct is designed to help make installation easy, with its lightweight and compact indoor unit. Indoor units are also low in height, helping the Inverter Slim-Line Duct to be installed in narrow roof spaces.

Image depicts a 7.1 kW to 14 kW model.

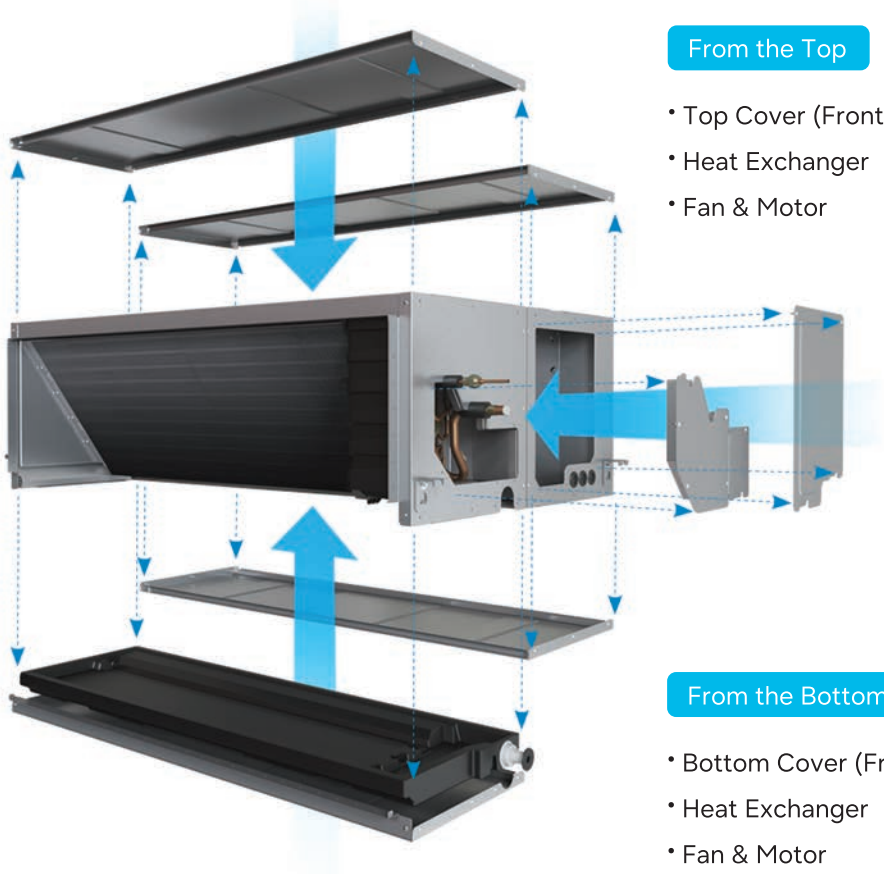
Hassle-free cleaning

The ducts are equipped with a filter cleaning indicator that automatically notifies when the filter is due for cleaning, typically after 1,000 hours of use*. The filter is easy to remove, keeping maintenance simple and hassle-free.

*1000 hours is the default setting, adjustable to 2000 hours via remote controller.

Compact and accessible

With its ultra-compact Slim Fit design, the ducts can be installed easily in tight ceiling spaces. Maintenance is just as simple, with easy access to parts — making service quicker, wherever it's placed.



From the Top

- Top Cover (Front & Rear)
- Heat Exchanger
- Fan & Motor

From the Side

- Control Part
- Piping
- Sensor
- Drain Pump

From the Bottom

- Bottom Cover (Front & Rear)
- Heat Exchanger
- Fan & Motor

Specifications

Inverter Slim-Line Duct

Built-in Wi-Fi

		1-Phase			
Model Code		**AC071HEHDKG/SA**	**AC090HEHDKG/SA**	**AC100HEHDKG/SA**	
Model Name	Indoor Unit	AC071HEHDKG/SA	AC090HEHDKG/SA	AC100HEHDKG/SA	
	Outdoor Unit	AC071HCADKG/SA	AC090HCADKG/SA	AC100HCADKG/SA	
Capacity	Cooling (kW)	2.50 / 7.10 / 8.00	3.00 / 8.50 / 11.50	3.00 / 10.00 / 12.00	
	Heating (kW)	2.00 / 8.00 / 9.00	2.80 / 10.00 / 12.00	3.00 / 11.20 / 12.50	
Power Input	Cooling (kW)	0.50 / 2.15 / 3.30	0.73 / 2.58 / 4.50	0.75 / 3.13 / 4.50	
	Heating (kW)	0.43 / 2.00 / 3.50	0.53 / 2.70 / 5.00	0.55 / 2.95 / 5.00	
Current Input	Cooling (A)	2.8 / 9.4 / 14.5	4.1 / 11.7 / 19.8	4.1 / 13.7 / 19.8	
	Heating (A)	2.5 / 8.8 / 15.4	3.0 / 12.0 / 22.0	3.0 / 13.0 / 22.0	
Electrical	MCA	18.8	26.8	27.8	
	MFA	20.0	30.0	30.0	
Energy Efficiency	EER (Cooling) (W/W)	3.30	3.30	3.20	
	COP (Heating) (W/W)	4.00	3.70	3.80	
	AEER (Cooling)	3.249	3.257	3.166	
	ACOP (Heating)	3.934	3.654	3.757	
	TCSPF (Hot/Average/Cold)	4.360/4.060/4.068	4.004/3.783/3.760	4.506/4.182/4.324	
	HSPF (Heating Energy Grade)	4.736/4.235/3.696	4.506/3.952/3.384	4.767/3.886/3.136	
Piping Connections	Liquid Pipe Diameter (mm(inch))	6.35 (1/4)	9.52 (3/8)	9.52 (3/8)	
	Gas Pipe Diameter (mm(inch))	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	
	Installation Max. Length (m)	50	50	50	
	Installation Max. Height (m)	30	30	30	
Refrigerant	Type	R32	R32	R32	
	Pre-Charged Length (m)	20	30	30	
Indoor Unit	Power Supply (Φ, #, V, Hz)	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50	
	External Static Pressure (Min / Std / Max) (Pa)	29 / 39 / 147	29 / 49 / 147	29 / 49 / 196	
	Air Flow Rate (High / Mid / Low) (l/s)	400 / 333 / 283	533 / 450 / 367	650 / 550 / 450	
	Sound Pressure (High / Mid / Low / Quiet) (dB(A))	36 / 32 / 28 / 26	42 / 37 / 32 / 30	42 / 37 / 32 / 30	
	Sound Power Level (Cooling) (dB(A))	55	60	60	
	Net Weight (kg)	34	34	43.5	
	Net Dimensions (WxHxD) (mm)	1200 x 250 x 700	1200 x 250 x 700	1300 x 300 x 700	
	Drain Pump	Optional	Optional	Optional	
	Drain Pipe Diameter (mm)	VP25 (OD 32 / ID 25)	VP25 (OD 32 / ID 25)	VP25 (OD 32 / ID 25)	
Outdoor Unit	Power Supply (Φ, #, V, Hz)	1, 2, 220-240, 50			
	Compressor Type	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	
	Sound Pressure (Cooling / Heating) (dB(A))	50 / 52	51 / 53	52 / 54	
	Sound Power Level (Cooling) (dB(A))	66	68	69	
	Net Weight (kg)	53	76	76	
	Net Dimensions (WxHxD) (mm)	880 x 798 x 310	940 x 998 x 330	940 x 998 x 330	
Operating Temperature Range	Cooling (℃)	-15~50	-15~50	-15~50	
	Heating (℃)	-20~24	-20~24	-20~24	

Controls

Wireless Remote Controller
AR-CH01E[2]

Wired Remote Controller
MWR-WG01JN

Wired Remote Controller
MWR-SH12N

[1] Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.
[2] Additional receiver kit is required: MRK-A10N

	1-Phase		3-Phase		
	AC120HEHDKG/SA	AC140HEHDKG/SA	AC100HEHDKG/SA	AC120HEHDKG/SA	AC140HEHDKG/SA
	AC120HEHDKG/SA	AC140HEHDKG/SA	AC100HEHDKG/SA	AC120HEHDKG/SA	AC140HEHDKG/SA
	AC120HCADKG/SA	AC140HCADKG/SA	AC100HCADNG/SA	AC120HCADNG/SA	AC140HCADNG/SA
	4.00 / 12.10 / 14.00	4.00 / 14.00 / 16.00	3.00 / 10.00 / 12.00	4.00 / 12.10 / 14.00	4.00 / 14.00 / 16.00
	3.50 / 13.00 / 16.00	4.00 / 16.00 / 18.00	3.00 / 11.20 / 12.50	3.50 / 13.00 / 16.00	4.00 / 16.00 / 18.00
	0.90 / 3.84 / 5.30	1.00 / 4.24 / 5.60	0.75 / 3.13 / 4.50	0.90 / 3.84 / 5.30	1.00 / 4.24 / 5.60
	0.72 / 3.51 / 6.00	0.90 / 4.71 / 7.30	0.55 / 2.95 / 5.00	0.72 / 3.51 / 6.00	0.90 / 4.71 / 7.60
	4.9 / 16.9 / 23.3	5.2 / 18.6 / 24.6	1.5 / 4.8 / 6.8	1.6 / 5.8 / 7.9	1.9 / 6.4 / 8.3
	3.9 / 15.4 / 26.4	4.9 / 20.7 / 32.0	1.1 / 4.5 / 7.4	1.4 / 5.3 / 8.9	1.7 / 7.1 / 11.3
	35.8	35.8	19.9	19.9	19.9
	40.0	40.0	20.0	20.0	20.0
	3.15	3.30	3.20	3.15	3.30
	3.70	3.40	3.80	3.70	3.40
	3.123	3.274	3.166	3.123	3.274
	3.665	3.376	3.757	3.665	3.376
	4.187/3.955/4.042	4.143/3.916/3.987	4.506/4.182/4.324	4.187/3.955/4.042	4.143/3.916/3.987
	3.831/3.420/2.805	4.279/3.707/3.177	4.767/3.886/3.136	3.831/3.420/2.805	4.279/3.707/3.177
	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)
	50	85	50	50	85
	30	30	30	30	30
	R32	R32	R32	R32	R32
	30	30	30	30	30
	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
	29 / 61 / 196	29 / 61 / 196	29 / 49 / 196	29 / 61 / 196	29 / 61 / 196
	717 / 617 / 500	850 / 733 / 600	650 / 550 / 450	717 / 617 / 500	850 / 733 / 600
	43 / 38 / 33 / 31	45 / 40 / 35 / 33	42 / 37 / 32 / 30	43 / 38 / 33 / 31	45 / 40 / 35 / 33
	61	64	60	61	64
	43.5	43.5	43.5	43.5	43.5
	1300 x 300 x 700	1300 x 300 x 700	1300 x 300 x 700	1300 x 300 x 700	1300 x 300 x 700
	Optional	Optional	Optional	Optional	Optional
	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)
	1, 2, 220-240, 50		3, 4, 380-415, 50		
	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
	54 / 56	54 / 57	52 / 54	54 / 56	54 / 57
	70	70	69	70	70
	82.5	97	76	82.5	97
	940 x 998 x 330	940 x 1420 x 330	940 x 998 x 330	940 x 998 x 330	940 x 1420 x 330
	-15~50	-15~50	-15~50	-15~50	-15~50
	-20~24	-20~24	-20~24	-20~24	-20~24

Premium Inverter Splittable Duct works smart to keep you comfortable all year round

Powerful airflow

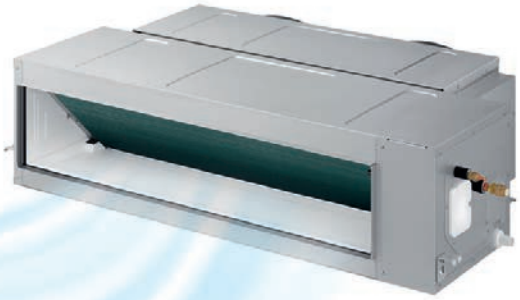
Strong and robust construction delivers a maximum of 25% more air-volume than our standard model* meaning you can stay comfortable in all parts of your home.

*Compared to 12kW model.

25%

(720 l/s -> 900 l/s)

*Based on 12kW model



Energy superstar

Delivering high airflow volume with a low energy consumption, the Samsung Premium Inverter Splittable Duct was intentionally designed to provide premium comfort without the premium power bill. The new range also features a special High Efficiency line up developed to maximise compliance with various state and territory rebate schemes.

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.

Ready to go - return air flange connection

Equipped with a return air flange connection, you can rest assured knowing that the correct return air size is used. This means there is one less item to worry about, saving time and cost.

Made to fit in more places - perfect for renovations

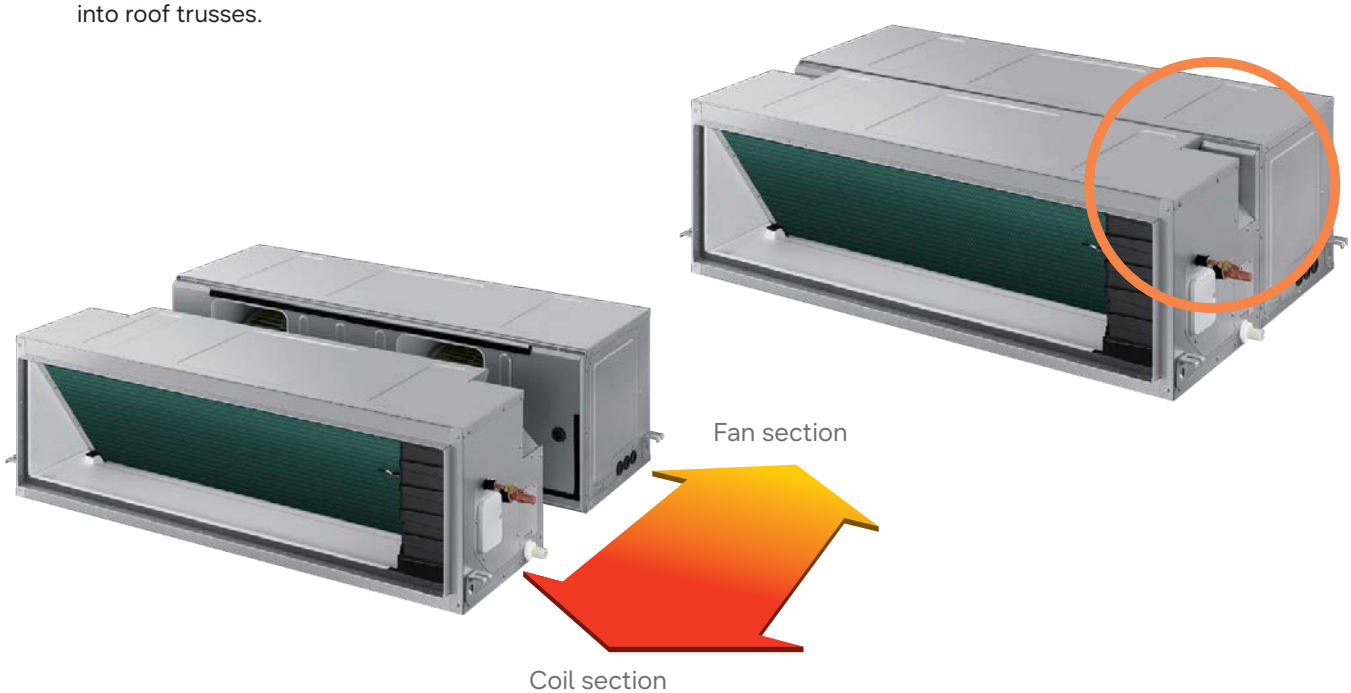
A splittable type indoor unit can separate the fan and heat exchanger section, making it easier to position into tight roof space - great for renovations. Combined with hanging brackets positioned to minimise obstruction and making installation easier.

Peaceful environment

The Premium Inverter Splittable Duct was carefully designed to meet climate control demands with minimal noise, so you can enjoy comfort air conditioning with minimal disturbance.

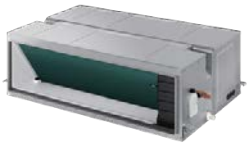
Intentionally made for ease of handling

All of the Splittable Ducted indoor units can easily be separated to manoeuvre into tight installation spaces. Larger capacity models – 18 and 20kW also feature a cut out to fit into roof trusses.



Specifications

Premium Inverter Splittable Duct



Built-in Wi-Fi

		1-Phase					
Model Code		AC100HEHPKG/SA	AC120HEHPKG/SA	AC140HEHPKG/SA	AC160HEHPKG/SA	AC180HEHPKG/SA	
Model Name	Indoor Unit	AC100HEHPKG/SA	AC120HEHPKG/SA	AC140HEHPKG/SA	AC160HEHPKG/SA	AC180HEHPKG/SA	
	Outdoor Unit	AC100HCADKG/SA	AC120HCADKG/SA	AC140HCADKG/SA	AC160HCADKG/SA	AC180HCADKG/SA	
Capacity	Cooling (kW)	3.00 / 10.00 / 12.00	4.00 / 12.10 / 14.00	5.00 / 14.00 / 16.50	5.80 / 15.50 / 18.00	6.00 / 18.00 / 20.00	
	Heating (kW)	3.00 / 11.20 / 12.50	3.80 / 13.00 / 16.00	4.00 / 16.00 / 18.00	4.20 / 18.00 / 20.00	4.80 / 20.00 / 22.50	
Power Input	Cooling (kW)	0.80 / 2.94 / 3.80	1.00 / 3.78 / 5.30	1.20 / 4.12 / 5.00	1.10 / 4.69 / 6.50	1.10 / 5.45 / 7.00	
	Heating (kW)	0.65 / 2.80 / 5.00	0.80 / 3.42 / 6.00	1.00 / 4.32 / 7.30	1.00 / 4.83 / 7.25	1.00 / 5.63 / 7.30	
Current Input	Cooling (A)	4.3 / 13.2 / 16.9	5.4 / 16.6 / 23.3	6.5 / 18.3 / 22.0	6.7 / 20.8 / 28.5	6.0 / 25.0 / 32.0	
	Heating (A)	3.5 / 12.3 / 22.0	4.3 / 15.0 / 26.4	5.4 / 19.2 / 32.0	5.7 / 21.2 / 31.6	5.7 / 25.0 / 32.0	
Electrical	MCA	27.9	35.9	35.9	36.2	35.9	
	MFA	30.0	40.0	40.0	40.0	40.0	
Energy Efficiency	EER (Cooling) (W/W)	3.40	3.20	3.40	3.30	3.30	
	COP (Heating) (W/W)	4.00	3.80	3.70	3.73	3.55	
	AEER (Cooling)	3.361	3.172	3.372	3.281	3.282	
	ACOP (Heating)	3.952	3.763	3.671	3.701	3.531	
	TCSPF (Hot / Average / Cold)	4.581 / 4.236 / 4.353	4.177 / 3.938 / 4.018	4.252 / 3.993 / 4.076	4.079 / 3.816 / 3.913	4.325 / 4.102 / 4.220	
	HSPF (Heating Energy Grade)	4.465 / 3.828 / 3.092	3.923 / 3.461 / 2.809	4.113 / 3.669 / 3.101	3.552 / 3.440 / 3.045	4.335 / 3.632 / 3.082	
Piping Connections	Liquid Pipe Diameter (mm(inch))	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	
	Gas Pipe Diameter (mm(inch))	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	
	Installation Max. Length (m)	50	50	85	85	85	
	Installation Max. Height (m)	30	30	30	30	30	
Refrigerant	Type	R32	R32	R32	R32	R32	
	Pre-Charged Length (m)	30	30	30	30	30	
Indoor Unit	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	
	External Static Pressure (Min/Std /Max) (Pa)	0 / 49 / 150	0 / 61 / 150	0 / 61 / 150	49 / 61 / 100	49 / 61 / 196	
	Air Flow Rate (High / Mid / Low) (l / s)	800 / 683 / 550	900 / 750 / 600	1,000 / 833 / 650	1,117 / 967 / 800	1,183 / 1,000 / 833	
	Sound Pressure (High/Mid/Low/Quiet) (dB(A))	42 / 38 / 33 / 31	44 / 39 / 34 / 32	46 / 41 / 36 / 34	49 / 45 / 41 / 39	43 / 39 / 35 / 33	
	Sound Power Level (Cooling) (dB(A))	63	65	67	69	63	
	Net Weight (kg)	66.5	66.5	66.5	66.5	80.5	
	Net Dimensions (WxHxD) (mm)	1350 x 360 x 899	1350 x 360 x 899	1350 x 360 x 899	1350 x 360 x 899	1350 x 450 x 850	
	Drain Pump	Optional	Optional	Optional	Optional	Optional	
	Drain Pipe Diameter (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)	
Outdoor Unit	Power Supply (Φ, #, V, Hz)	1, 2, 220-240, 50					
	Compressor Type	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	
	Sound Pressure[1] (Cooling / Heating) (dB(A))	52 / 54	54 / 56	54 / 57	55 / 57	55 / 57	
	Sound Power Level (Cooling) (dB(A))	69	70	70	71	71	
	Net Weight (kg)	76	82.5	97	101	103	
	Net Dimensions (WxHxD) (mm)	940 x 998 x 330	940 x 998 x 330	940 x 1420 x 330	940 x 1420 x 330	940 x 1420 x 330	
Operating Temperature Range	Cooling (℃)	-15~50	-15~50	-15~50	-15~50	-15~50	
	Heating (℃)	-20~24	-20~24	-20~24	-20~24	-20~24	

Controls

Wireless Remote Controller
AR-CH01E[2]

Wired Remote Controller
MWR-WG01JN

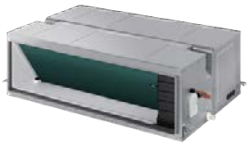
Wired Remote Controller
MWR-SH12N

[1] Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.
[2] Additional receiver kit is required: MRK-A10N

	3-Phase					
	AC100HEHPKG/SA	AC120HEHPKG/SA	AC140HEHPKG/SA	AC160HEHPKG/SA	AC180HEHPKG/SA	AC200HEHPKG/SA
	AC100HEHPKG/SA	AC120HEHPKG/SA	AC140HEHPKG/SA	AC160HEHPKG/SA	AC180HEHPKG/SA	AC200HEHPKG/SA
	AC100HCADNG/SA	AC120HCADNG/SA	AC140HCADNG/SA	AC160HCADNG/SA	AC180HCADNG/SA	AC200HCADNG/SA
	3.00 / 10.00 / 12.00	4.00 / 12.10 / 14.00	5.00 / 14.00 / 16.50	5.80 / 15.50 / 18.00	6.00 / 18.00 / 20.00	7.50 / 20.00 / 23.00
	3.00 / 11.20 / 12.50	3.80 / 13.00 / 16.00	4.00 / 16.00 / 18.00	4.20 / 18.00 / 20.00	4.80 / 20.00 / 22.50	6.50 / 22.50 / 25.00
	0.80 / 2.94 / 3.80	1.00 / 3.78 / 5.30	1.20 / 4.12 / 5.00	1.10 / 4.69 / 6.50	1.10 / 5.45 / 7.00	2.00 / 6.06 / 7.90
	0.65 / 2.80 / 5.00	0.80 / 3.42 / 6.00	1.00 / 4.32 / 7.50	1.00 / 4.83 / 7.25	1.00 / 5.63 / 7.30	1.80 / 6.42 / 9.70
	1.6 / 4.5 / 5.8	1.8 / 5.7 / 7.9	2.3 / 6.3 / 7.4	2.4 / 7.1 / 16.1	2.0 / 8.5 / 16.1	3.7 / 10.3 / 12.0
	1.3 / 4.3 / 7.4	1.5 / 5.2 / 8.9	1.9 / 6.6 / 11.2	2.0 / 7.3 / 16.1	1.8 / 8.5 / 16.1	3.5 / 10.9 / 16.1
	20.0	20.0	20.0	20.3	20.0	28.9
	20.0	20.0	20.0	20.3	20.0	30.0
	3.40	3.20	3.40	3.30	3.30	3.30
	4.00	3.80	3.70	3.73	3.55	3.50
	3.361	3.172	3.372	3.281	3.282	3.282
	3.952	3.763	3.671	3.701	3.531	3.486
	4.581 / 4.236 / 4.353	4.177 / 3.938 / 4.018	4.252 / 3.993 / 4.076	4.079 / 3.816 / 3.913	4.325 / 4.102 / 4.220	4.009 / 3.832 / 3.876
	4.465 / 3.828 / 3.092	3.923 / 3.461 / 2.809	4.113 / 3.669 / 3.101	3.552 / 3.440 / 3.045	4.335 / 3.632 / 3.082	3.872 / 3.512 / 3.065
	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)
	50	50	85	85	85	85
	30	30	30	30	30	30
	R32	R32	R32	R32	R32	R32
	30	30	30	30	30	30
	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
	0 / 49 / 150	0 / 61 / 150	0 / 61 / 150	49 / 61 / 100	49 / 61 / 196	49 / 73 / 196
	800 / 683 / 550	900 / 750 / 600	1,000 / 833 / 650	1,117 / 967 / 800	1,183 / 1,000 / 833	1,200 / 1,017 / 850
	42 / 38 / 33 / 31	44 / 39 / 34 / 32	46 / 41 / 36 / 34	49 / 45 / 41 / 39	43 / 39 / 35 / 33	44 / 40 / 36 / 34
	63	65	67	69	63	64
	66.5	66.5	66.5	66.5	80.5	80.5
	1350 x 360 x 899	1350 x 360 x 899	1350 x 360 x 899	1350 x 360 x 899	1350 x 450 x 850	1350 x 450 x 850
	Optional	Optional	Optional	Optional	Optional	Optional
	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)
	3, 4, 380-415, 50					
	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Scroll
	52 / 54	54 / 56	54 / 57	55 / 57	55 / 57	57 / 59
	69	70	70	71	71	74
	76	82.5	97	101	103	150
	940 x 998 x 330	940 x 998 x 330	940 x 1420 x 330	940 x 1420 x 330	940 x 1420 x 330	940 x 1630 x 460
	-15~50	-15~50	-15~50	-15~50	-15~50	-15~50
	-20~24	-20~24	-20~24	-20~24	-20~24	-20~24

Specifications

High Efficiency Inverter Splittable Duct



Built-in Wi-Fi

Model Name	Indoor Unit	AC100HEHFKG/SA	AC120HEHFKG/SA	
	Outdoor Unit	AC100HCAPKG/SA	AC120HCAPKG/SA	
Capacity	Cooling (kW)	4.70 / 10.00 / 14.00	5.20 / 12.50 / 16.50	
	Heating (kW)	3.60 / 12.50 / 17.00	3.80 / 15.00 / 19.00	
Power Input	Cooling (kW)	0.89 / 2.56 / 3.70	0.90 / 3.42 / 4.80	
	Heating (kW)	0.79 / 2.97 / 5.00	0.80 / 3.75 / 6.85	
Current Input	Cooling (A)	5.0 / 11.5 / 16.5	5.0 / 15.0 / 21.0	
	Heating (A)	4.0 / 13.0 / 23.5	4.0 / 17.5 / 30.0	
Electrical	MCA	27.9	35.9	
	MFA	30.0	40.0	
Energy Efficiency	EER (Cooling) (W/W)	3.90	3.65	
	COP (Heating) (W/W)	4.20	4.00	
	AEER (Cooling)	3.855	3.619	
	ACOP (Heating)	4.161	3.964	
	TCSPF (Hot/Average/Cold)	5.049 / 4.675 / 4.736	4.700 / 4.400 / 4.487	
	HSPF (Heating Energy Grade)	4.333 / 4.083 / 3.719	4.364 / 4.082 / 3.607	
Piping Connections	Liquid Pipe Diameter (mm(inch))	9.52 (3/8)	9.52 (3/8)	
	Gas Pipe Diameter (mm(inch))	15.88 (5/8)	15.88 (5/8)	
	Installation Max. Length (m)	85	85	
	Installation Max. Height (m)	30	30	
Refrigerant	Type	R32	R32	
	Pre-Charged Length (m)	30	30	
Indoor Unit	Power Supply (Φ, #, V, Hz)	1, 2, 220-240, 50	1, 2, 220-240, 50	
	External Static Pressure (Min / Std / Max) (Pa)	0 / 49 / 150	0 / 61 / 150	
	Air Flow Rate (High / Mid / Low) (l/s)	800 / 683 / 550	900 / 750 / 600	
	Drain Pipe Diameter (mm)	VP25 (OD 32 / ID 25)	VP25 (OD 32 / ID 25)	
	Sound Pressure[1] (High / Mid / Low / Quiet) (dB(A))	42 / 38 / 33 / 31	44 / 39 / 34 / 32	
	Sound Power Level (Cooling) (dB(A))	61	64	
	Net Weight (kg)	66.5	66.5	
	Net Dimensions (WxHxD) (mm)	1350 x 360 x 899	1350 x 360 x 899	
	Drain Pump	Optional	Optional	
	Drain Pipe Diameter (mm)	VP25 (OD 32 / ID 25)	VP25 (OD 32 / ID 25)	
Outdoor Unit	Power Supply (Φ, #, V, Hz)	1, 2, 220-240, 50	1, 2, 220-240, 50	
	Compressor Type	Twin BLDC Rotary	Twin BLDC Rotary	
	Sound Pressure (Cooling / Heating) (dB(A))	51 / 53	53 / 55	
	Sound Power Level (Cooling) (dB(A))	68	69	
	Net Weight (kg)	97	101	
	Net Dimensions (WxHxD) (mm)	940 x 1420 x 330	940 x 1420 x 330	
Operating Temperature Range	Cooling (℃)	-15~50	-15~50	
	Heating (℃)	-20~24	-20~24	

Controls

Wireless Remote Controller
AR-CH01E[2]

Wired Remote Controller
MWR-WG01JN

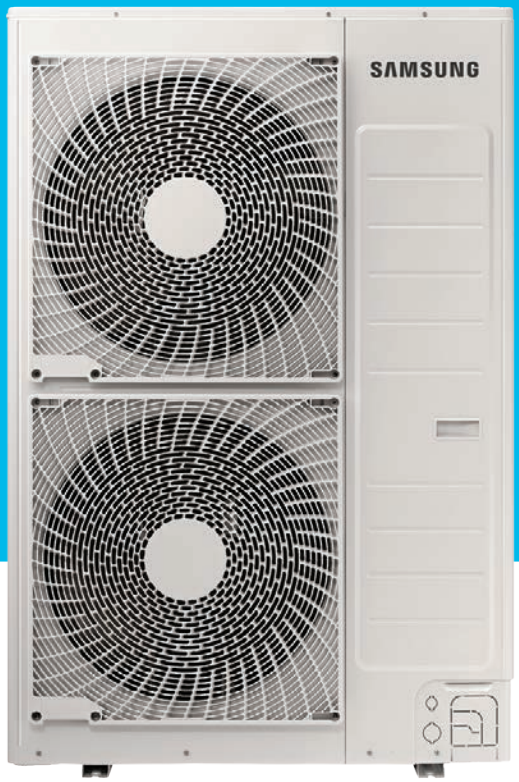
Wired Remote Controller
MWR-SH12N

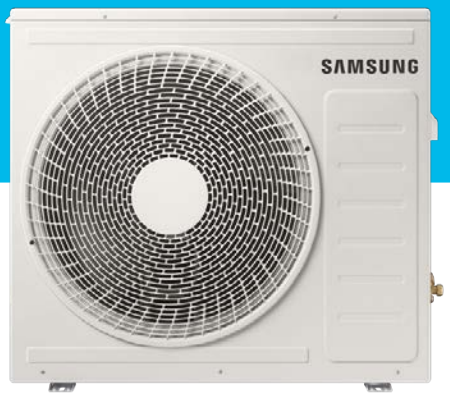
[1] Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.
[2] Additional receiver kit is required: MRK-A10N

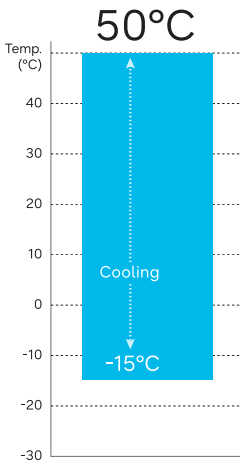
	AC140HEHFKG/SA	AC160HEHFKG/SA	AC180HEHFKG/SA
	AC140HCAPKG/SA	AC160HCAPKG/SA	AC180HCAPKG/SA
	5.50 / 14.00 / 17.50	5.80 / 16.00 / 18.00	7.00 / 18.00 / 20.00
	4.00 / 16.50 / 19.50	4.20 / 18.00 / 20.00	6.00 / 20.00 / 22.50
	1.00 / 4.00 / 5.80	1.10 / 4.63 / 6.30	1.60 / 5.29 / 6.80
	0.92 / 4.23 / 7.00	1.00 / 4.61 / 7.10	1.40 / 5.47 / 7.00
	5.5 / 17.5 / 25.5	6.7 / 21.0 / 28.0	8.0 / 24.0 / 32.0
	5.0 / 19.0 / 31.0	5.7 / 21.0 / 31.6	7.5 / 25.0 / 32.0
	35.9	35.9	35.9
	40.0	40.0	40.0
	3.50	3.45	3.40
	3.90	3.90	3.65
	3.471	3.431	3.381
	3.870	3.876	3.634
	4.485 / 4.235 / 4.315	4.551/4.316/4.416	4.333/4.126/4.207
	3.910 / 3.784 / 3.425	4.487/3.918/3.413	4.152/3.781/3.401
	9.52 (3/8)	9.52 (3/8)	9.52 (3/8)
	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)
	85	85	85
	30	30	30
	R32	R32	R32
	30	30	30
	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	0 / 61 / 150	49 / 61 / 196	49 / 61 / 196
	1,000 / 833 / 650	1,117 / 967 / 817	1,183 / 1,000 / 833
	VP25 (OD 32 / ID 25)	VP25 (OD 32 / ID 25)	VP25 (OD 32 / ID 25)
	46 / 41 / 36 / 34	42 / 38 / 34 / 32	43 / 39 / 35 / 33
	66	62	63
	66.5	80.5	80.5
	1350 x 360 x 899	1350 x 450 x 850	1350 x 450 x 850
	Optional	Optional	Optional
	VP25 (OD 32 / ID 25)	VP25 (OD 32 / ID 25)	VP25 (OD 32 / ID 25)
	1, 2, 220-240, 50	1, 2, 220-240, 50	1, 2, 220-240, 50
	Twin BLDC Rotary	Twin BLDC Rotary	Scroll
	54 / 56	56 / 58	57 / 59
	70	71	74
	101	103	135
	940 x 1420 x 330	940 x 1420 x 330	940 x 1630 x 460
	-15~50	-15~50	-15~50
	-20~24	-20~24	-20~24

CAC
Outdoor Unit

Samsung's outdoor unit brings together performance, flexibility and sustainability. From universal compatibility to lower carbon emissions, they're the quiet force behind every chilled, comfortable space.







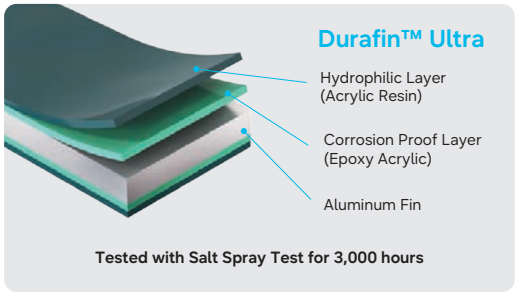
One outdoor unit, multiple indoor options

Compatible with a wide range of indoor units, the universal outdoor unit simplifies system design and installation. Built for extreme conditions, it delivers reliable cooling — even in 50°C heat — making it ideal for diverse commercial spaces.

Tough on the outside

Designed for durability, the outdoor units feature Durafin™ Plus and Durafin™ Ultra[1] — engineered with copper tubes and anti-corrosion coated fins to protect the condenser from rust and maintain optimal Heat Exchanger performance. Its superb corrosion resistance has been rigorously tested and proven through Salt Spray Tests[2].

Tested with Salt Spray Test for 500 hours

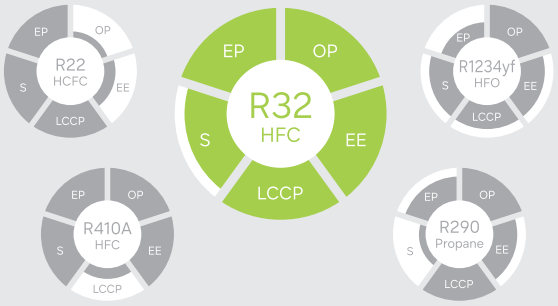


Tested with Salt Spray Test for 3,000 hours

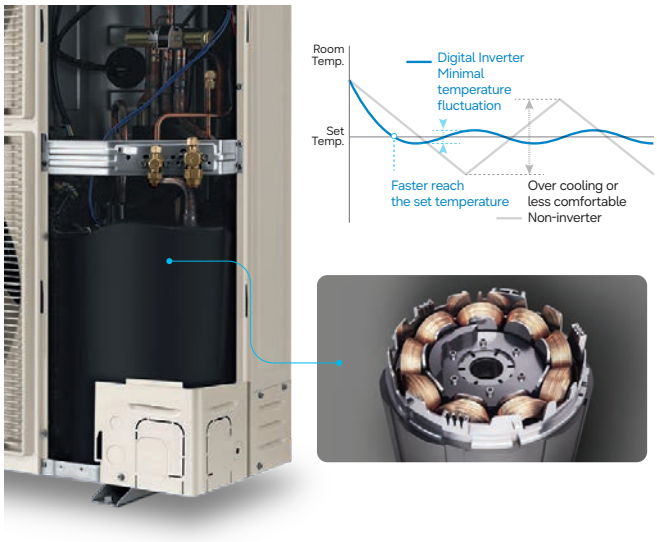
[1] Third party verification (TUV) received for internal test result. (Durafin™ Plus: 7.1 kW, Durafin™ Ultra: 9/10/12/14/16/18/20 kW) Application of Durafin™ Ultra may vary by model.
[2] Based on testing by TÜV Rheinland according to ISO9227(SST) Standard, the heat exchangers passed the test period per reliability requirements. Reference No.: KR2189P7 001, Date: 29/06/2021 (500 Hours, Durafin™ Plus) Reference No.: KR21R7V8 003 & KR21R7V8 004, Date: 09/06/2021 (3000 Hours, Durafin™ Ultra)

Minimising the impact

The Samsung CAC uses next-generation R32 refrigerant, which has zero ozone depleting potential and a lower impact on global warming* compared to conventional refrigerant.



*GWP rating: R32 refrigerant = 675 vs. R410A refrigerant = 2,088. Global Warning Potential (GWP) ratings reflect standardised global measures.



Energy-efficient comfort every day

Unlike conventional fixed-speed compressors that shut off and switch on frequently, Samsung's Digital Inverter Technology automatically adjusts its speed in response to changes in room temperature. That means less fluctuation and less energy usage.

Tailored solutions for every project

The Samsung Commercial air conditioning range delivers robust and reliable performance to meet various air conditioning needs.

Designed for commercial applications, this lineup blends energy-efficiency, optimised performance and stunning design, to create comfortable spaces without compromise.

Applicable units		Applicable capacity (kW)							
		7.1 kW	9 kW	10 kW	12 kW	14 kW	16 kW	18 kW	20 kW
	WindFree™ 4-Way Cassette	●		●	●	●			
	360 Cassette	●		●	●	●			
	Inverter Slim-Line Duct	●	●	●◆	●◆	●◆			
	Premium Inverter Splittable Duct			●◆	●◆	●◆	●◆	●◆	◆
	High Efficiency Inverter Splittable Duct			●	●	●	●	●	
	Outdoor Unit	●	●	●◆	●◆	●◆	●◆	●◆	◆

● = 1 phase (φ1) ◆= 3 phase (φ3)

Controllers
and accessories

(All controllers shown are sold separately)

MWR-WG01JN

UX Wired Controller

- 4.3" colour LCD display
- Simple navigational control panel
- On/Off, operation mode, fan speed, temperature setting
- Dual set point available
- Energy usage monitoring
- Filter cleaning alert indicator
- Group control up to 16 indoor units
- Real-time clock
- After hour operational time setting
- Programmable yearly scheduling and holiday scheduling
- Built-in wireless receiver, can receive signal from wireless controller
- Button restriction function
- Built-in room temperature sensor
- Dimensions: 120W x 120H x 19D mm

MCM-A300BN

Touch Central Controller 2.0

- 10.1" Touch LCD display
- On/Off, operation mode, fan speed, temperature setting
- Upper and lower temperature limit setting
- Programmable weekly scheduling and holiday scheduling
- Local control and function lock permission setting
- Real-time clock with calendar
- Maximum 128 indoor units connectable, and up to 32 outdoor units
- Micro SD card memory
- 2 off DI/DO ports
- 2D floor plan layout view
- Energy usage management functionality
- Remote control and monitoring with Ethernet connection to PC or Tablet via web browser

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AR-CH01E (Receiver Kit MRK-A10N required)

Wireless Controller

- ON/OFF
- Updated design
- Temperature setting
- Fan speed control
- Timer setting
- Solar cell panel and USB-C charging port

Images are for illustration purposes. Product images may be different to actual product. Product size varies depending on model.
Control functions will vary depending on product and model, not all features shown are applicable, refer to specific product user manual for more information.

MWR-SH12N

LED Touch Screen Wired Controller

- Touch screen display with backlight
- Simple functionality control
- On/Off, operation mode, fan speed, temperature setting
- Outing function; maintains room at preset conditions
- On/Off count down timer
- Button restriction function
- Group control up to 16 indoor units
- Filter cleaning alert indicator
- Built-in wireless receiver, can receive signal from wireless controller
- Built-in room temperature sensor
- Dimensions: 94W x 122H x 19.5D mm
- Freeze wash functionality not supported

MRK-A10N

Receiver Kit

- Concealed wireless signal receiver
- Filter replacement sign
- Fan operation display
- Operation Timer setting display
- Operation On/Off button
- Operation On display LED (blue)
- Defrost operation display LED (red)
- Dimensions: 80W x 130H x 28D mm

MIM-B14

External Contact Interface Card

External Contact Control module to control an indoor unit (On/Off) via 0V dry contact.

- Direct indoor unit control by external contact signal
- Window-synchronised indoor unit control
- Emergency control with simple contact input
- Indoor unit operation/error state output through relay contacts
- Dimensions: 50W x 80H x 35D mm

MDP-G075SP

Drain Pump – External

- External type
- Suitable for all capacities of the Duct range
- Lift water up to 750mm

MDP-G075SP

Drain Pump – Internal

- Internal type
- Suitable for all capacities of the Duct range
- Lift water up to 750mm

MRS-B32

Refrigerant leak sensor

- Splittable Duct

MRS-B32

Refrigerant leak sensor

- Slim-Line Duct

Notes