

SAMSUNG

SAMSUNG



Commercial

Air Conditioner Catalogue

NEW R32 LINE UP (COOLING ONLY)

2025



About Samsung

We create new possibilities to fulfill the needs of people across the globe

Since introducing its first air conditioner in 1974, Samsung has remained committed to providing cutting-edge innovations in climate-based initiatives. From fulfilling modern cooling needs to incorporating smart AI connectivity, Samsung continues to push boundaries — revolutionising the world of air care with outstanding design, advanced performance and undoubted reliability.

Table of contents

4 The future of commercial cooling

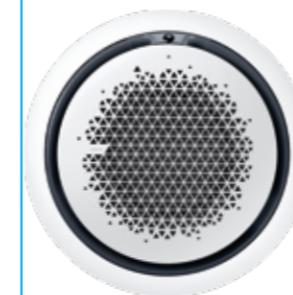
8 WindFree 1Way Cassette



18 WindFree 4Way Cassette



28 360 Cassette



38 MSP/HSP Duct S



46 Ceiling



52 Outdoor Unit



58 Tailored solutions for every project

The future of commercial cooling

Samsung's new commercial air conditioner (CAC) lineup brings smarter, quieter and more flexible cooling into every space — from homes to hotels to offices. Designed with energy efficiency at its core, it helps businesses lower operational costs while supporting long-term sustainability goals.

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



Smart cooling that's always connected

Thanks to the built-in Wi-Fi, the system connects seamlessly with 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 hands-free experience.

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

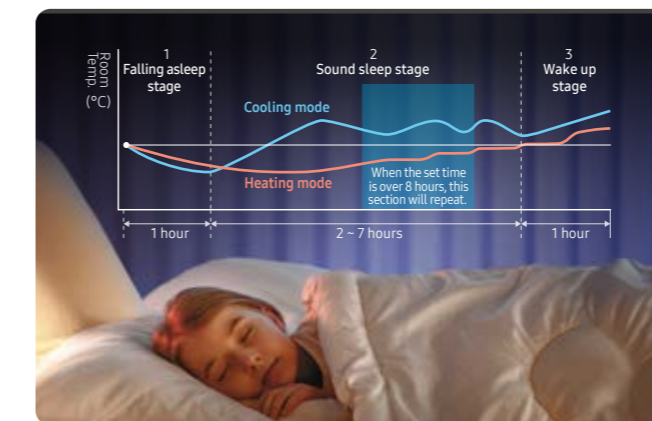
Welcome Cooling

Arrive to the perfect breeze every time. The intuitive Welcome Cooling 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 reduces energy costs and carbon footprint by analysing usage patterns and external factors to optimise efficiency — reducing energy consumption by up to 20%.



Comfort cooling for good sleep

Good Sleep Mode adjusts to your sleep cycle. It cools to help you sleep, maintains steady airflow for deep rest and then warms for a refreshing wake-up — all while saving up to 48% energy*.

*Internal test result. Tested on the AC071FE1DKF/EA model depending on the operating mode. Test condition: target temperature: 26°C, during 8 hours, compared to total power consumption in the mode.

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, facilitate continuous dehumidification and save up to 19% of energy in Dry Mode*. Real-time monitoring is available through SmartThings or a Wired remote controller** for added visibility and control.

*Based on internal test results, and power consumption is accumulated for 4 hours of operation
 - Test model: 4Way 14kW(AC145BXAFH1PP / AC145CN4FHH1PP)
 - Test condition: Outdoor dry bulb 27°C, wet bulb 24°C.
 - Test mode: dehumidification mode, target temperature 24°C.
 Actual energy saving can differ by model & test condition.
 Only the colour Wired remote controller (MWR-WG) supports this function.



Seamless integration with a Universal Outdoor Unit

Samsung CAC outdoor unit is now 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.



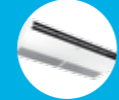
360 Cassette



4Way



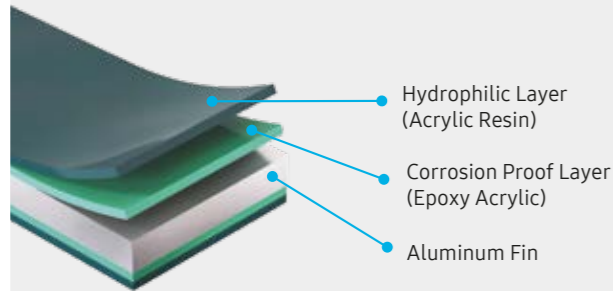
1Way



Ceiling



Duct S



- Hydrophilic Layer (Acrylic Resin)
- Corrosion Proof Layer (Epoxy Acrylic)
- Aluminum Fin

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.



At a glance:

Drain pump is integrated inside the unit with no extra parts needed, keeping operations clean and hassle-free.

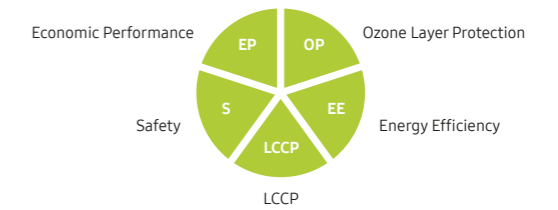
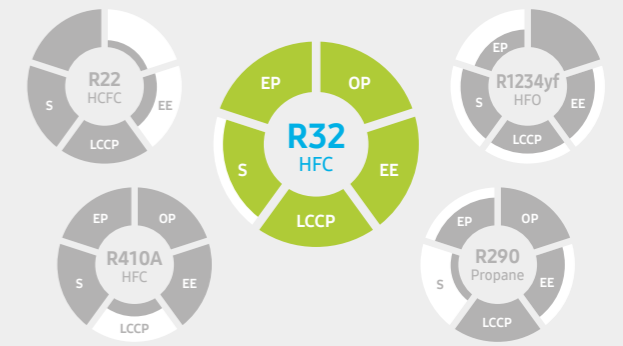
No backflow, no worries

Selected models come with a built-in Drain Pump and Check Valve that automatically remove condensed water while preventing any backflow or indoor dripping — ensuring smooth operation and simplifying maintenance*.

*Available on 1Way Cassette, 4Way Cassette, Mini 4Way Cassette and 360 Cassette.

Efficient by design Sustainable by nature

The new CAC range uses R32 — a next-gen refrigerant with lower Global Warming Potential (GWP) of 675, significantly lower than R410A's GWP of 2,088. With high refrigeration capacity and thermal conductivity, it delivers efficient cooling performance while reducing environmental impact.

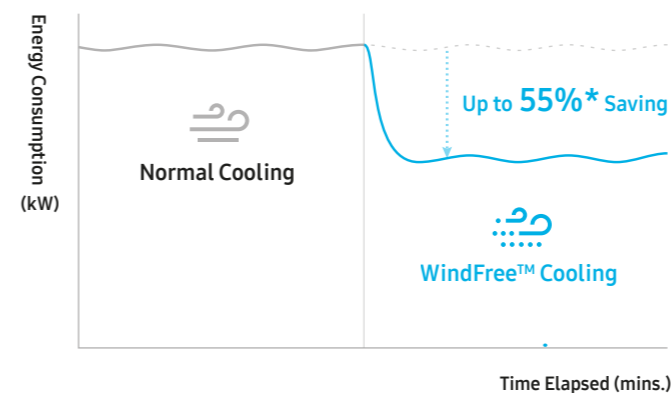


Why it matters:

Lower emissions and reduced refrigerant use mean greater efficiency and stronger sustainability credentials, fully compliant with global phase-down regulations to offer future-ready cooling performance for modern businesses.

Cool without the chill

Samsung's WindFree™ technology uses thousands of micro-holes to disperse cool air evenly without the uncomfortable direct drafts, creating a "Still Air" environment for consistent comfort. When operating with the WindFree™ cooling mode, the air conditioner works with a very low fan speed and the outdoor unit runs with minimum power, consuming less energy and generating less detectable noise.



*Based on internal testing of the WindFree model AC140RN4DKG/EU working at 14.0kW. Operating conditions: outdoors (35°C DB / 24°C WB), indoors (27°C DB / 19°C WB). Results may vary depending on environmental factors and individual usage. Available only on the WindFree models.

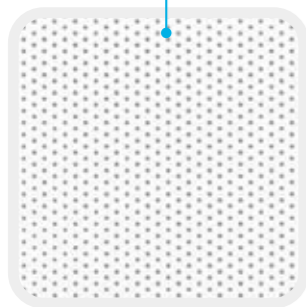
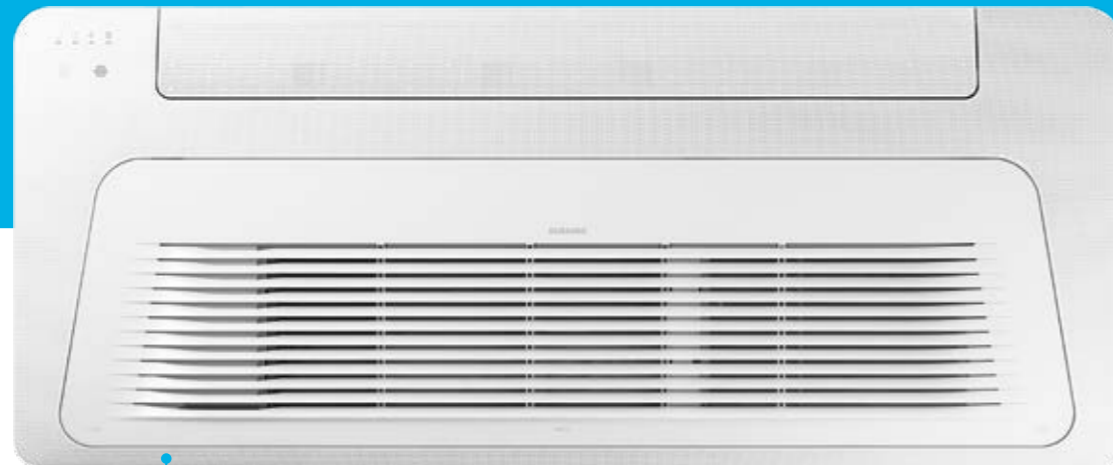


What you'll love:

- Maintains a stable temperature without strong gusts
- Creates a quieter, calmer atmosphere
- Up to 55% energy savings in WindFree™ mode

WindFree 1Way Cassette

Samsung's WindFree 1Way Cassette delivers clean, quiet comfort in a sleek design. With its flexible installation, a powerful AI system and WindFree™ technology, it's engineered to meet the various demands of modern living.



10,000
micro air holes

Just cool comfort for your space

Stay comfortably cool without unpleasant wind blowing on your skin. The WindFree 1Way Cassette disperses cold air gently through 10,000 micro air holes, paired with an AI-powered system that intuitively learns your usage habits and adapts to your preferences for a perfectly tailored environment. No harsh drafts, no sudden chills — just quiet, even comfort that lasts.

Blends in beautifully

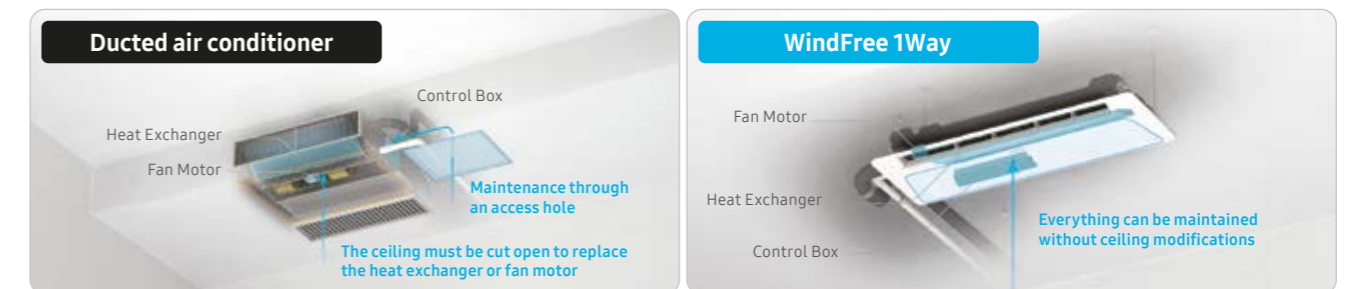
A sleek, minimalist, ceiling-embedded unit that blends seamlessly into any space. It opens up your walls for art, curtains or a cleaner interior look, allowing design flexibility while delivering powerful cooling from above.



Service with ease

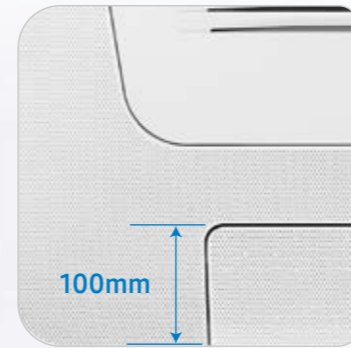
Internal components can be accessed directly by removing the decorative panel — eliminating the need for a separate access hole* and preserving a clean, uninterrupted ceiling finish.

*Rarely required, depending on the installation conditions.



Cools far and wide

Featuring a large 100mm* blade and a wide operating angle, the system pushes airflow up to 8 metres**, cooling every corner of the room faster and more evenly. The top down airflow ensures that every corner of the space feels comfortable, without leaving any hot spots.



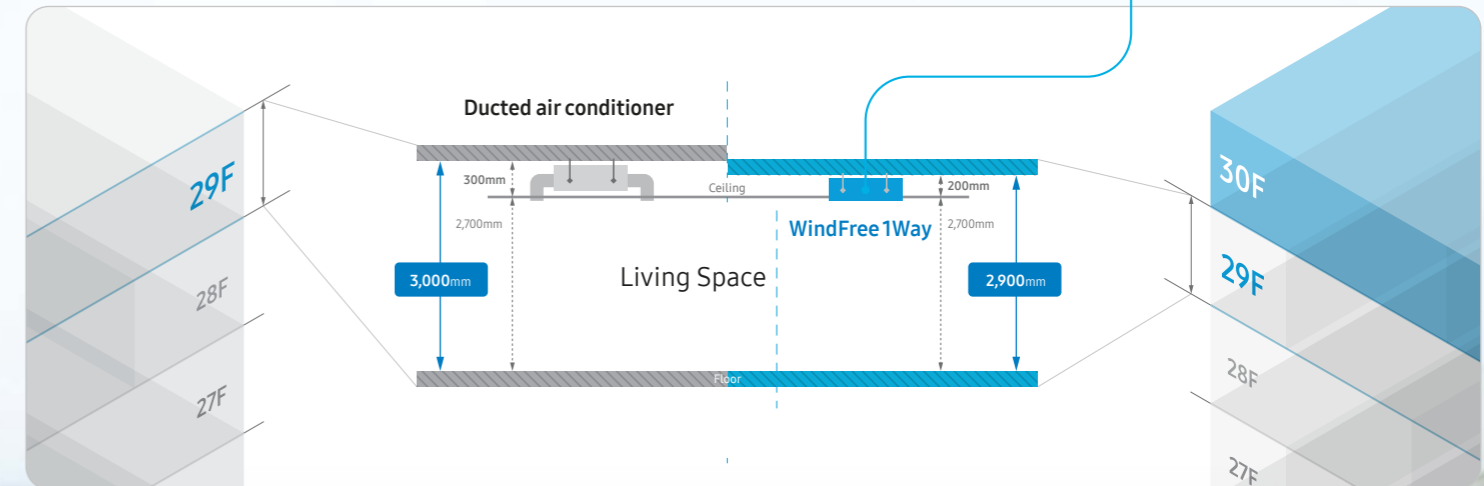
*Samsung testing compares the Samsung WindFree 1Way Cassette to a conventional 1 Way Cassette type air conditioner.
**Based on the 7.1 kW indoor unit.

Fits into every space

Compared to conventional ducted system that requires 300mm of ceiling space, the WindFree 1Way Cassette boasts an ultra-slim 135mm height, allowing it to fit into ceiling spaces as small as 150mm. Enjoy flexibility in design, simpler installation and reduced ceiling space wastage — even enabling the possibility of adding another storey*.



*Based on the assumption that the height of a storey between between the supporting ceiling and the floor is 3m, excluding the gaps between stories. May vary depending on the height of any ducted air conditioners and the ceiling conditions.



Fresher air without the fuss

Equipped with a humidity sensor and Auto Clean function, the unit automatically dries moisture from the Heat Exchanger after use through a 2-step process. This helps prevent bacteria and odours, reduces dust build-up, and keeps the air fresher — resulting in less maintenance and better indoor air quality.

Step
01

Diagnose

Auto

Auto Clean function checks humidity and temperature after the unit turns off.

Step
02

Auto Clean



Depending on conditions, the system adjusts airflow to dry the heat exchanger in 0.5 to 20 minutes.

Stay one step ahead

The self-diagnosis function uses LED indicators to quickly identify system errors, enabling faster troubleshooting. Enhanced AI diagnostics via the SmartThings App provide deeper insights for more efficient maintenance and reduced downtime.

Examples of relevant errors	LED lamp display			
	On/Off	Timer	Fan	Filter
Error on indoor temperature sensor		●		
Error on heat exchanger sensor of the indoor unit	●	●		
Error on outdoor unit sensors	●		●	
Error on MDS (Motion Detect Sensor)	●			●

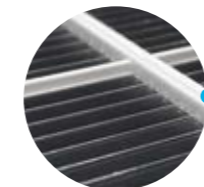
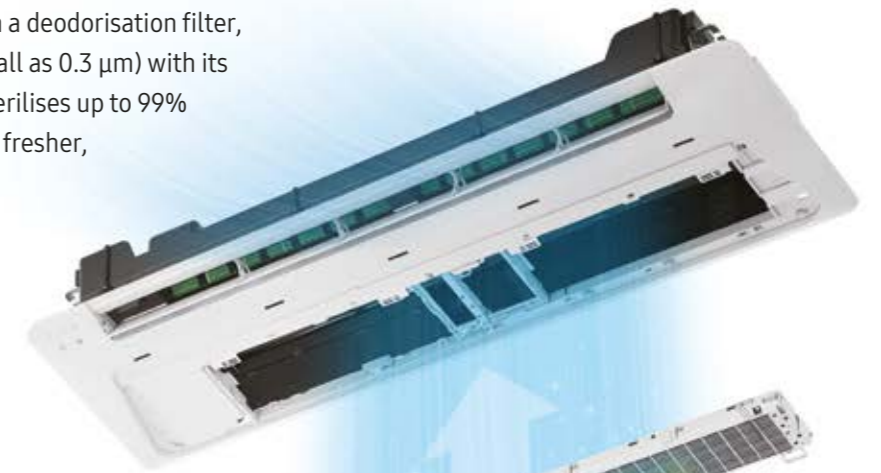
● Flickering



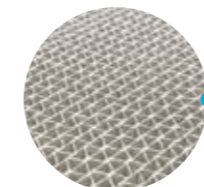
Breathe cleaner air

An optional 3-step Air Purification Panel enhances indoor air quality by capturing larger particles with a Pre-Filter, removing unpleasant odours through a deodorisation filter, and eliminating ultrafine dust (as small as 0.3 μm) with its PM1.0 filter*. The PM1.0 filter also sterilises up to 99% of bacteria trapped within, creating a fresher, healthier environment.

*Intertek Report No.: RT20E-S0010-R Date: APR. 17, 2020 (Revised) Based on the data collected the Hypothesis is accepted: The K-element (Electrostatic Precipitator) of Samsung Electronics can sterilise the certain types of bacteria that collected on the filter. (Escherichia coli: above 99 %, Staphylococcus aureus: above 99 %)



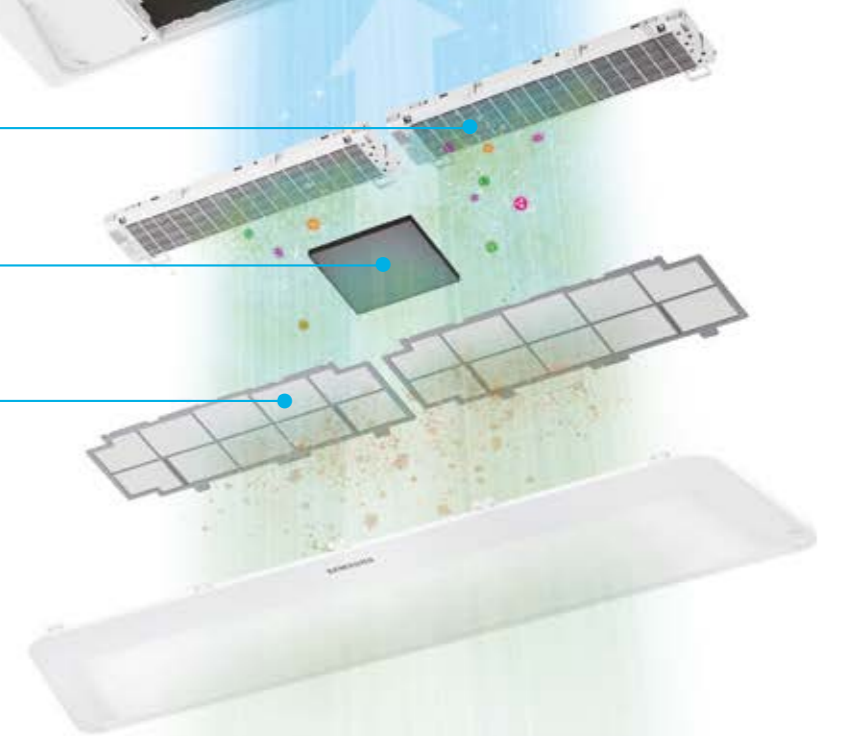
PM1.0 Filter



Deodorisation Filter



Pre-Filter



For added convenience, the semi-permanent PM1.0 filter and Pre-Filter are washable and reusable, helping reduce long-term maintenance costs.



Specifications

WindFree 1Way Cassette



Model		AC026FE1DKF/EA	AC035FE1DKF/EA	AC052FE1DKF/EA	AC071FE1DKF/EA	
Outdoor Unit		AC026FCADKF/EA	AC035FCADKF/EA	AC052FCADKF/EA	AC071FCADKF/EA	
Performance						
Capacity (Min/Std/Max)	kW	1.00 / 2.60 / 3.90	1.10 / 3.30 / 4.20	1.20 / 5.30 / 6.40	1.45 / 6.90 / 7.80	
	Btu/h	3,400 / 8,900 / 13,300	3,800 / 11,300 / 14,300	4,100 / 18,000 / 21,800	4,900 / 23,500 / 26,600	
Power						
Cooling Power Input (Min/Std/Max)	kW	0.20 / 0.72 / 1.45	0.25 / 1.02 / 1.55	0.21 / 1.69 / 2.20	0.29 / 2.33 / 3.20	
Cooling Current Input (Min/Std/Max)	kW	1.7 / 3.2 / 6.8	1.7 / 4.9 / 7.5	1.4 / 7.4 / 9.5	1.9 / 10.2 / 14.0	
Current	MCA	A	11.5	13.5	21.5	
	MFA	A	12.7	12.7	15.0	25.0
Efficiency						
EER	-	3.61	3.24	3.14	2.96	
CSPF	-	5.42	5.39	5.57	5.22	
Energy Grade	-					
Power Supply	Φ, #, V, Hz	1,2220-240,50/60	1,2220-240,50/60	1,2220-240,50/60	1,2220-240,50/60	
Fan						
Type	-	Cross Flow	Cross Flow	Cross Flow	Cross Flow	
Quantity	ea	1	1	2	2	
Air Flow Rate	Cooling (H/M/L)	m ³ /min	7.5 / 6.4 / 5.6	8.8 / 7.8 / 6.9	15.6 / 13.9 / 12.2	17.0 / 14.8 / 12.6
	L/s		125 / 107 / 93	147 / 130 / 115	260 / 232 / 203	283 / 247 / 210
Fan Motor						
Type	-	BLDC	BLDC	BLDC	BLDC	
Output	W x n	27 x 1	27 x 1	65 x 1	65 x 1	
Drain						
Drain Pipe	ø, mm	VP25 (OD32 / ID25)	VP25 (OD32 / ID25)	VP25 (OD32 / ID25)	VP25 (OD32 / ID25)	
Sound						
Sound Pressure Level ¹	H/M/L (Silent)	dB(A)	32/29/26/25	38/35/32/27	43/40/37/31	46/42/38/30
External Dimension						
Net Weight	kg	9.0	9.0	12.5	12.5	
Net Dimensions (W x H x D)	mm	970x135x410	970x135x410	1,200x138x450	1,200x138x450	
WindFree Panel (White)						
Model Name	-	PC1NWFMANW	PC1NWFMANW	PC1BWFMANW	PC1BWFMANW	
Net Weight	kg	4.3	4.3	5.00	5.00	
Net Dimensions (W x H x D)	mm	1,198x34x500	1,198x34x500	1,410x34x500	1,410x34x500	
WindFree + Air Purification Panel (White)						
Model Name	-	PC1NWCMANW	PC1NWCMANW	PC1BWCMANW	PC1BWCMANW	
Net Weight	kg	5.6	5.6	6.9	6.9	
Net Dimensions (W x H x D)	mm	1,198x34x500	1,198x34x500	1,410x34x500	1,410x34x500	
Drain Pump						
Drain Pump	-	Built-in	Built-in	Built-in	Built-in	
Max. Lifting Height / Displacement	mm/litres/h	750 / 24	750 / 24	750 / 24	750 / 24	

Accessories



WindFree Panel (White)

WindFree Panel (White)

WindFree + Air Purification Panel (White)

WindFree + Air Purification Panel (White)

PC1NWFMANW
(2.6 kW - 3.5 kW)

PC1BWFMANW
(5.2 kW - 7.1 kW)

PC1NWCMANW
(2.6 kW - 3.5 kW)

PC1BWCMANW
(5.2 kW - 7.1 kW)

Controls



Wireless Remote Controller²

Wireless Remote Controller²

Wired Remote Controller

Wired Remote Controller

Wired Remote Controller

AR-CH01E

AR-EC03E

MWR-WG01JN

MWR-SH12N

MWR-WE13N

¹Sound 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.
²Additional receiver kit is required: MRK-A10N



Project reference

The Sharp was developed with a focus on durability and premium living, prioritising the essentials of housing and customer lifestyle. Samsung WindFree 1Way Cassette was chosen as the built-in cooling solution, delivering gentle and draft-free cooling for a calm and comfortable environment — enhancing appeal to discerning homebuyers.



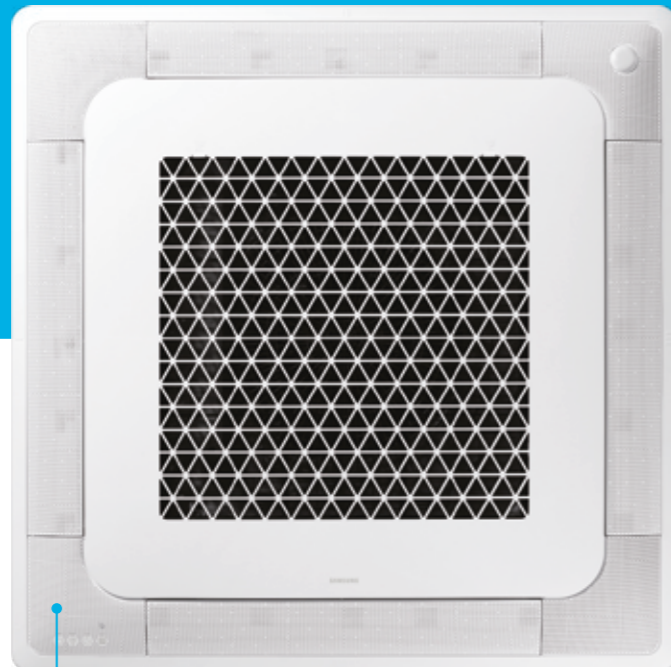
**The Sharp
Pangyo, South Korea**

Development Type:
Residential Apartment

Indoor
Unit Model: WindFree 1Way Cassette

WindFree 4Way Cassette

Samsung's WindFree 4Way Cassette is built for bigger spaces and busier environments. It delivers quiet, draft-free cooling in every direction and adapts to real-time movement and temperature — all while sitting flushed in the ceiling.



15,700
micro air holes

Comfortable quiet cooling

WindFree™ Cooling releases air through 15,700 micro air holes to eliminate cold drafts while keeping room temperatures steady and comfortable. While operating in WindFree™ mode, the 4Way Cassette minimises ambient noise by generating only 34 db(A) of sound, significantly lower compared to normal cooling mode, making it ideal for spaces that need a quiet environment, such as conference rooms, schools or hospitals*.

*Based on internal testing of the WindFree model AC071RN4DKG/EU. It generates a noticeable reduction in the 1kHz noise band, which is the weakest level of sound that humans are sensitive to.

Longer reach with every breeze

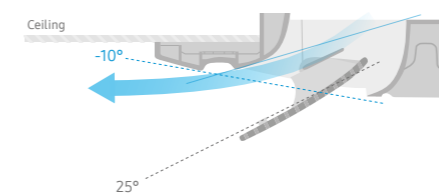
The 84mm blade is 31% larger* and angled to push cool air up to 10 metres, spreading airflow smoothly across the ceiling to cover wider spaces with fewer hot spots.

*Based on the WindFree 4Way Cassette, compared to a conventional 4 Way Cassette air conditioner which has a 64mm blade.

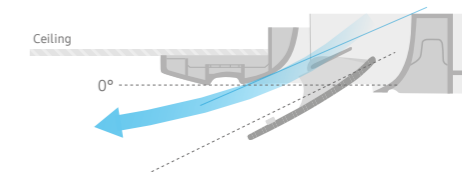


Angled for comfort

The slanted outlet angles the blades between -10° and 25°, sending cool air up to 5m along the ceiling to evenly cover a 10m wide space.



Samsung 4Way Cassette

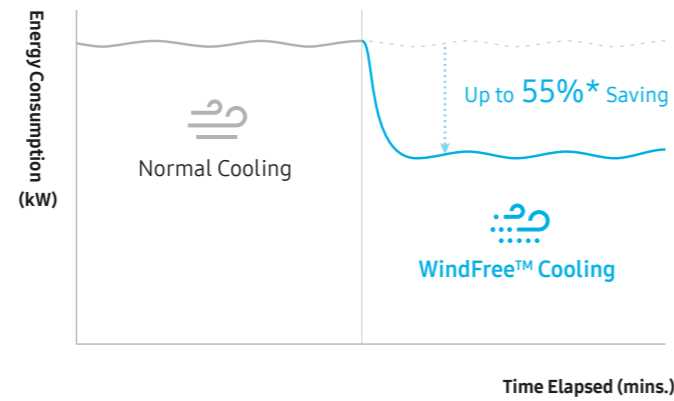


Conventional 4 Way Cassette

Cools without the extra cost

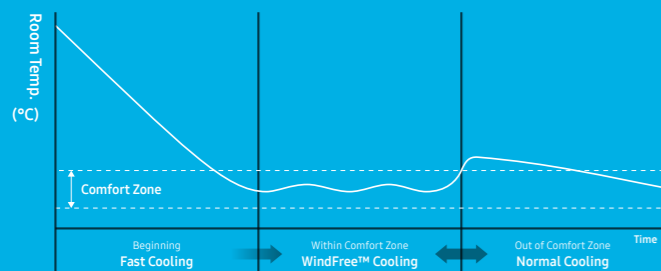
The WindFree 4Way Cassette keeps you cool and comfortable for hours without the high energy cost. In WindFree™ mode, it uses up to 55%* less power than normal cooling, so you can stay chill and save more every day.

*Based on internal testing of the WindFree model AC140RN4DKG/EU working at 14.0kW. Operating conditions: outdoors (35C DB / 24C WB), indoors (27C DB / 19C WB). Results may vary depending on environmental factors and individual usage. Available only on the WindFree models.



Adaptive cooling for optimal efficiency

The Smart Comfort Operation utilises temperature and humidity sensor to monitor room condition and adjust between cooling modes for optimised comfort. The system starts with Fast Cooling to cool your room quickly, then automatically switches to WindFree™ mode to maintain comfort without the need of any manual control.



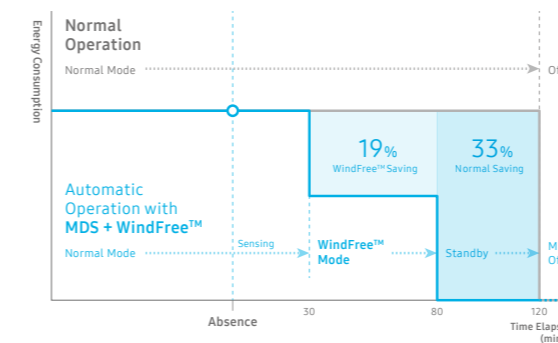
Fast Cooling



WindFree™ Cooling
If room reaches comfort zone

Reduce energy consumption intuitively

The optional Motion Detect Sensor (MDS)* switches to WindFree™ mode to conserve energy when no movement is detected after 30 minutes, before entering a standby mode after 50 minutes or returning to normal should it detect any activity. It also optimises the temperature to be 2°C higher or 2°C lower depending on the activity level of a room's occupants. This intuitive switching helps reduce energy consumption by up to 50%** while keeping occupants comfortable, perfect for places that might be left unoccupied at times such as conference rooms, classrooms or gyms.



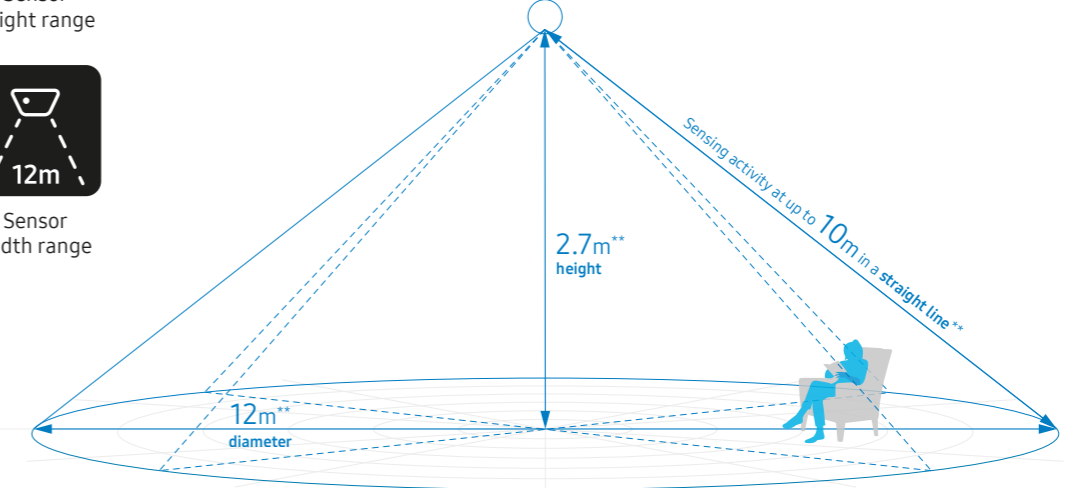
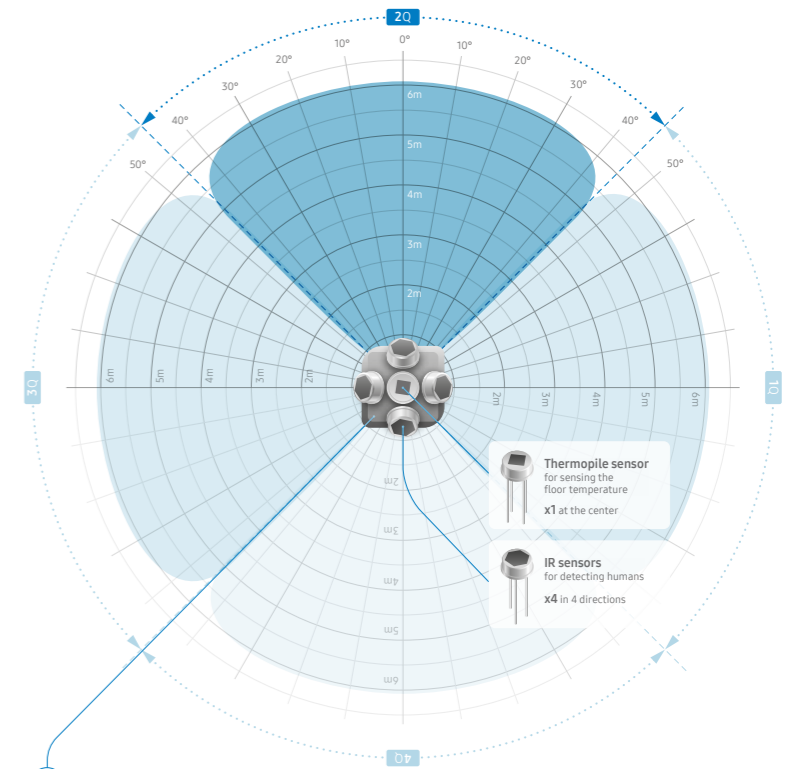
Detect presence



2.7m
Sensor height range



12m
Sensor width range



*This function is optional. An MDS Kit is required: MCR-SMC.

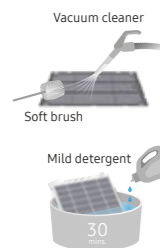
**Based on internal testing of WindFree models comparing up to 2 hours continuous operation after the start of the "away" mode vs. 80 minutes operation using the MDS setting. Operating conditions: outdoor unit: AC140RXADNG/EU, indoor unit: AC140RN4DKH/EU (panel: PC4NUFMAN). Standard cooling operation: outdoors (35°C DB / 24°C WB), indoors (27°C DB / 19°C WB). Results may vary depending on environmental factors and individual usage.

Easy to clean and care

Filters and blades detach effortlessly and can be cleaned with water or a vacuum cleaner — saving cost for maintenance and from frequent replacements purchases.

Step 01

Wash



Pre-Filter

Remove any dust or debris on the filter with water or using a vacuum cleaner.

PM1.0 Filter

Soak the filter in a solution of water and mild detergent for 30 minutes.

Step 02

Rinse and Air Dry



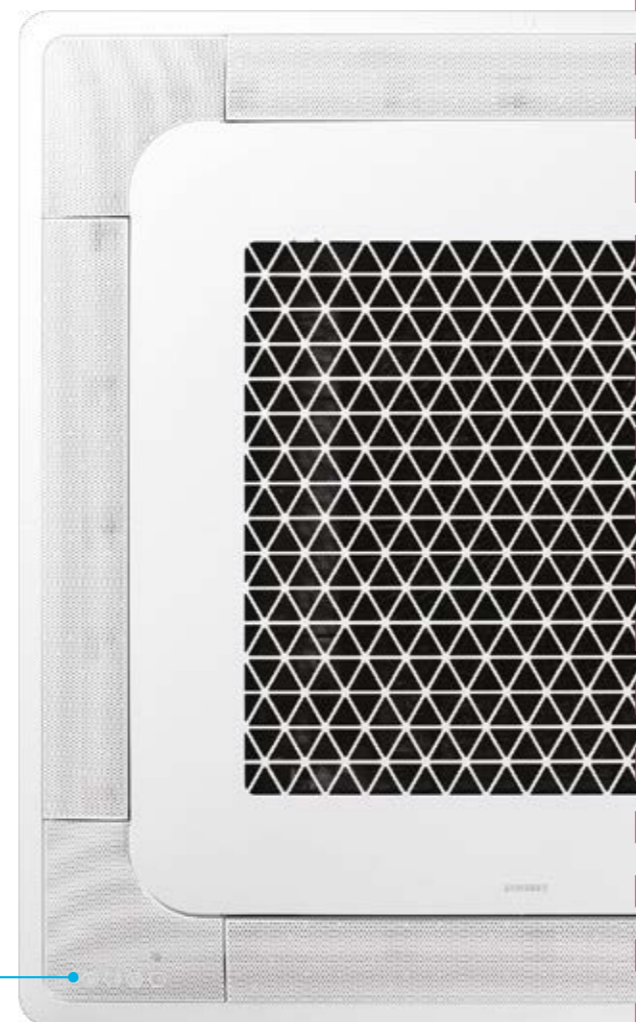
Rinse the filter and let it air dry for over 12 hours in a well-ventilated area that is out of direct sunlight.

Visible alerts for peace of mind

Be alerted to malfunctions in no time with the integrated Self-Diagnosis function. The embedded LED indicators and error code clearly identify cause of failure, enabling quicker troubleshooting and preventing downtime and inconvenience from a malfunctioning air conditioner.

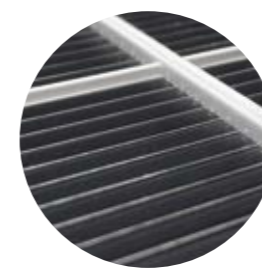
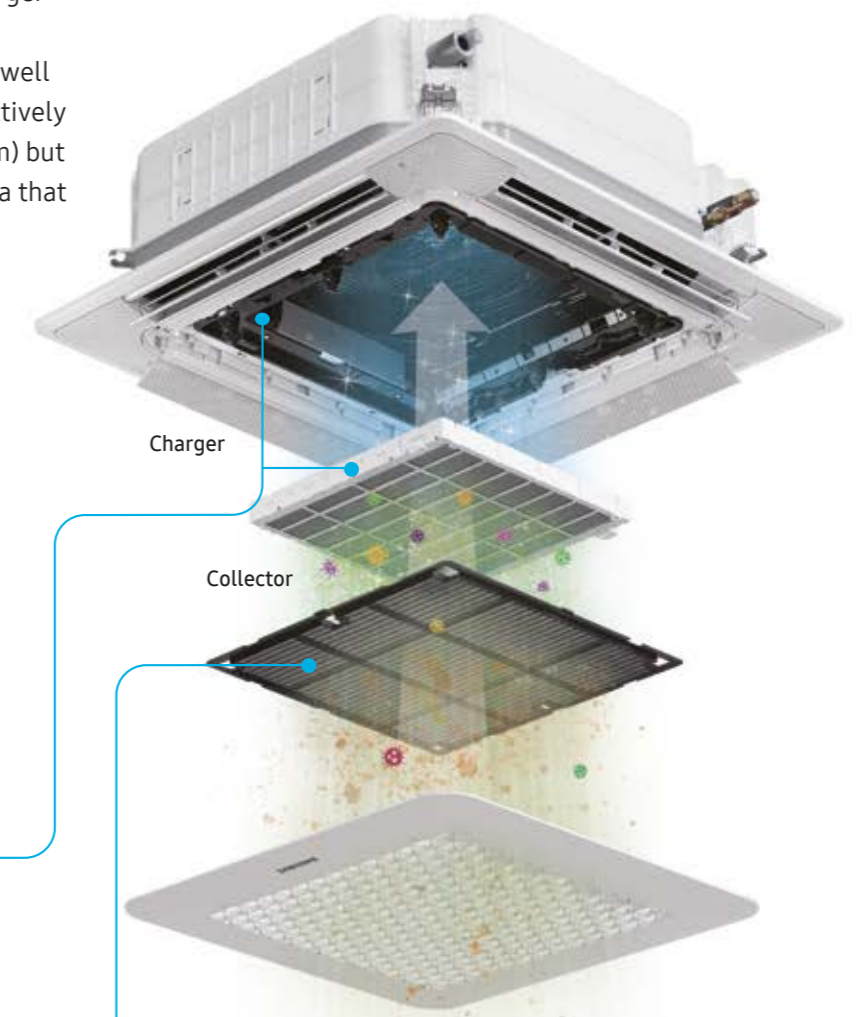
Examples of relevant errors	LED lamp display			
	On/Off	Defrost	Timer	Filter
Error on indoor temperature sensor		●		
Error on heat exchanger sensor of the indoor unit	●	●		
Error on outdoor unit sensors	●		●	
Error on MDS (Motion Detect Sensor)	●			●

● Flickering



Engineered for cleaner air

Breathe in pure, fresh air all day long with the optional Air Purification Panel. Featuring a two-filter purification system, it includes a Pre-Filter to capture larger dust particles, stopping them from entering the air conditioner unit, as well as a PM 1.0 Filter that not only effectively captures ultrafine dust (up to 0.3 μm) but also sterilises up to 99%* of bacteria that are collected on the filter using an electrostatic precipitator.



PM1.0 Filter



Pre-Filter

*Intertek Report No.: RT20E-S0010-R Date: APR. 17, 2020 (Revised) Based on the data collected the Hypothesis is accepted: The K-element (Electrostatic Precipitator) of Samsung Electronics can sterilize the certain types of bacteria that collected on the filter. (Escherichia coli: above 99 %, Staphylococcus aureus: above 99%).

Specifications

WindFree 4Way Cassette



Model	AC052FE4DKF/EA	AC071FE4DKF/EA	AC100FE4DKF/EA		AC120FE4DKF/EA		AC140FE4DKF/EA		AC160FE4DKF/EA
			(Φ1)	(Φ3)	(Φ1)	(Φ3)	(Φ1)	(Φ3)	
Outdoor Unit	AC052FCADKF/EA	AC071FCADKF/EA	AC100FCADKF/EA	AC100FCADNF/EA	AC120FCADKF/EA	AC120FCADNF/EA	AC140FCADKF/EA	AC140FCADNF/EA	AC160FCADKF/EA
Performance									
Capacity (Min/Std/Max)									
Capacity (Min/Std/Max)	1.20 / 5.30 / 6.60	1.45 / 7.20 / 8.00	3.00 / 10.60 / 13.00		4.00 / 12.10 / 15.00		4.00 / 14.10 / 16.50		4.00 / 17.00 / 19.00
Capacity (Min/Std/Max)	4,100 / 18,000 / 22,500	4,900 / 24,500 / 27,300	10,200 / 36,200 / 44,400		13,600 / 41,300 / 51,200		13,600 / 48,000 / 56,300		13,600 / 58,000 / 64,800
Power									
Cooling Power Input (Min/Std/Max)	0.22 / 1.53 / 2.30	0.27 / 2.10 / 3.20	0.53 / 3.27 / 4.85	0.53 / 3.37 / 4.85	0.80 / 3.90 / 6.50		0.85 / 5.07 / 7.20		0.93 / 6.08 / 7.85
Cooling Current Input (Min/Std/Max)	1.5 / 6.7 / 9.8	1.8 / 9.2 / 14.0	3.0 / 14.6 / 21.0	1.1 / 5.4 / 7.8	3.7 / 17.8 / 30.0		4.3 / 22.2 / 32.0		5.5 / 27.8 / 32.0
Current									
MCA	15.5	21.5	22.0	18.1	34.0	18.1	34.0	18.1	34.0
MFA	15	25	25.0	20.0	40.0	20.0	40.0	20.0	40.0
Efficiency									
EER	3.46	3.43	3.24	3.15	3.10		2.78		2.80
CSPF	5.91	5.91	5.63	-	5.28		-		-
Energy Grade	-	-	-	-	-		-		-
Power Supply	1,220-240,50/60	1,220-240,50/60	1,220-240,50/60	3,4380-415,50/60	1,220-240,50/60	3,4380-415,50/60	1,220-240,50/60	3,4380-415,50/60	1,220-240,50/60
Fan									
Type	Turbo	Turbo	Turbo		3D Turbo		3D Turbo		3D Turbo
Quantity	1	1	1		1		1		1
Air Flow Rate									
Cooling (H/M/L)	15.9 / 15.0 / 14.1	19.5 / 16.8 / 14.1	26.9 / 23.3 / 19.6		35.7 / 29.8 / 21.6		36.9 / 29.8 / 22.8		36.9 / 32.2 / 27.5
	265 / 250 / 235	325 / 280 / 235	448 / 388 / 327		595 / 497 / 360		615 / 497 / 380		615 / 537 / 458
Fan Motor									
Type	BLDC	BLDC	BLDC		BLDC		BLDC		BLDC
Output	65 x 1	65 x 1	97 x 1		97 x 1		97 x 1		97 x 1
Drain									
Drain Pipe	VP25 (OD32 / ID25)	VP25 (OD32 / ID25)	VP25 (OD32 / ID25)		VP25 (OD32 / ID25)		VP25 (OD32 / ID25)		VP25 (OD32 / ID25)
Sound									
Sound Pressure Level ¹	H/M/L/Silent) 35/33/31	40/36/32	43/38/33		43/39/34		44/40/35		45/41/36
External Dimension									
Net Weight	14.5	14.5	18.5		21.5		21.5		21.5
Net Dimensions (W x H x D)	840x204x840	840x204x840	840x288x840		840x288x840		840x288x840		840x288x840
WindFree Panel (White)									
Model Name	-	PC4NUFMANW	PC4NUFMANW	PC4NUFMANW	PC4NUFMANW	PC4NUFMANW	PC4NUFMANW	PC4NUFMANW	PC4NUFMANW
Net Weight	-	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
Net Dimensions (W x H x D)	-	950x48x950	950x48x950	950x48x950	950x48x950	950x48x950	950x48x950	950x48x950	950x48x950
WindFree Panel (Black)									
Model Name	-	PC4NBFMANW	PC4NBFMANW	PC4NBFMANW	PC4NBFMANW	PC4NBFMANW	PC4NBFMANW	PC4NBFMANW	PC4NBFMANW
Net Weight	-	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
Net Dimensions (W x H x D)	-	950x48x950	950x48x950	950x48x950	950x48x950	950x48x950	950x48x950	950x48x950	950x48x950
WindFree + Air Purification Panel (White)									
Model Name	-	PC4NUCMANW	PC4NUCMANW	PC4NUCMANW	PC4NUCMANW	PC4NUCMANW	PC4NUCMANW	PC4NUCMANW	PC4NUCMANW
Net Weight	-	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
Net Dimensions (W x H x D)	-	950x48x950	950x48x950	950x48x950	950x48x950	950x48x950	950x48x950	950x48x950	950x48x950
Drain Pump									
Drain Pump	-	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in	Built-in
Max. Lifting Height / Displacement	-	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24	750 / 24

Accessories



WindFree Panel (White)

WindFree Panel (Black)

WindFree + Air Purification Panel (White)

PC4NUFMANW

PC4NBFMANW

PC4NUCMANW

Controls



Wireless Remote Controller²

Wireless Remote Controller²

Wired Remote Controller

Wired Remote Controller

Wired Remote Controller

AR-CH01E

AR-EC03E

MWR-WG01JN

MWR-SH12N

MWR-WE13N

¹Sound 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.
²Additional receiver kit is required: MRK-A10N



Project reference

To combat Bangkok's hot and humid weather, Compass Skyview Hotel chose Samsung cooling solution for its proven energy efficiency and reliability. Samsung WindFree 4Way Cassettes are installed in the fitness rooms and conference rooms, ensuring optimal cooling while reducing operating cost — delivering year-round comfort for guests and staff alike.

Compass Skyview Hotel Bangkok, Thailand

Development Type:
Hotel

Indoor
Unit Model: WindFree 4Way Cassette
Number of Units: 22

360 Cassette

The Samsung 360 Cassette is designed to look good, feel better and perform effortlessly. With its unique circular shape, bladeless design and innovative airflow control, it cools every corner — quietly, evenly and stylishly.

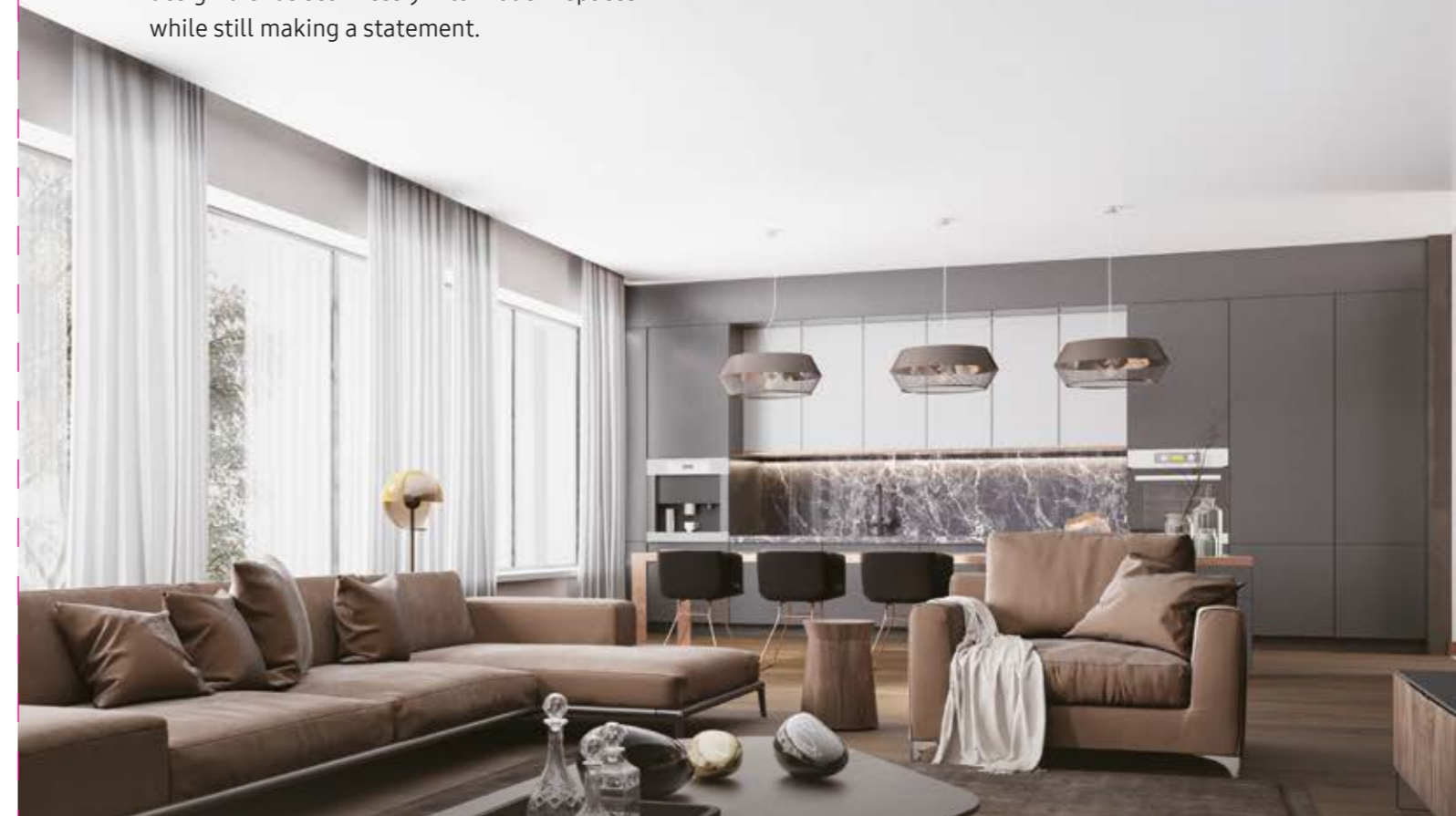


Designed your way

Make your air conditioner feel uniquely yours. Choose from square or circle panels, black or white finishes — or take it further with uniquely customised skins, featuring logos, flags or any graphics for a personal touch.

A shape that fits modern living

The 360 Cassette's clean, minimal and circular design blends seamlessly into modern spaces while still making a statement.



Installed how you like it

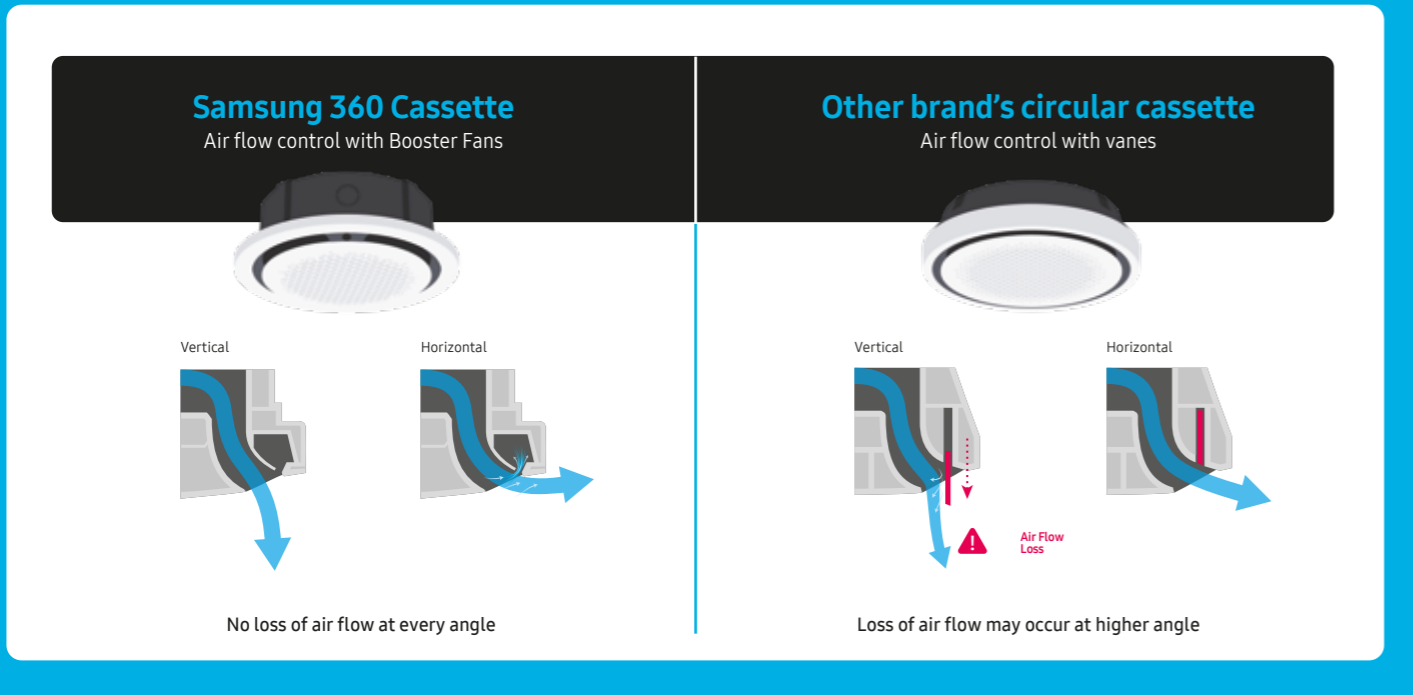
Install it discreetly into the ceiling for a sophisticated look or let it hang as a standout piece. The 2-way installation gives you full design flexibility while adding a touch of style to any room.



Rapid cooling with uninterrupted airflow

The 360 Cassette expels air at a much lower angle thanks to our unique bladeless design and patented Booster Fan technology*. This innovative system helps air move freely and consistently, resulting in 25% more airflow** that cools the room faster and more evenly across a wider area.

*Registered in Korea, USA, EU, Australia, Japan and other countries.
**Based on internal testing compared to a general 4 Way cassette air conditioner.



Gentle flow cooling

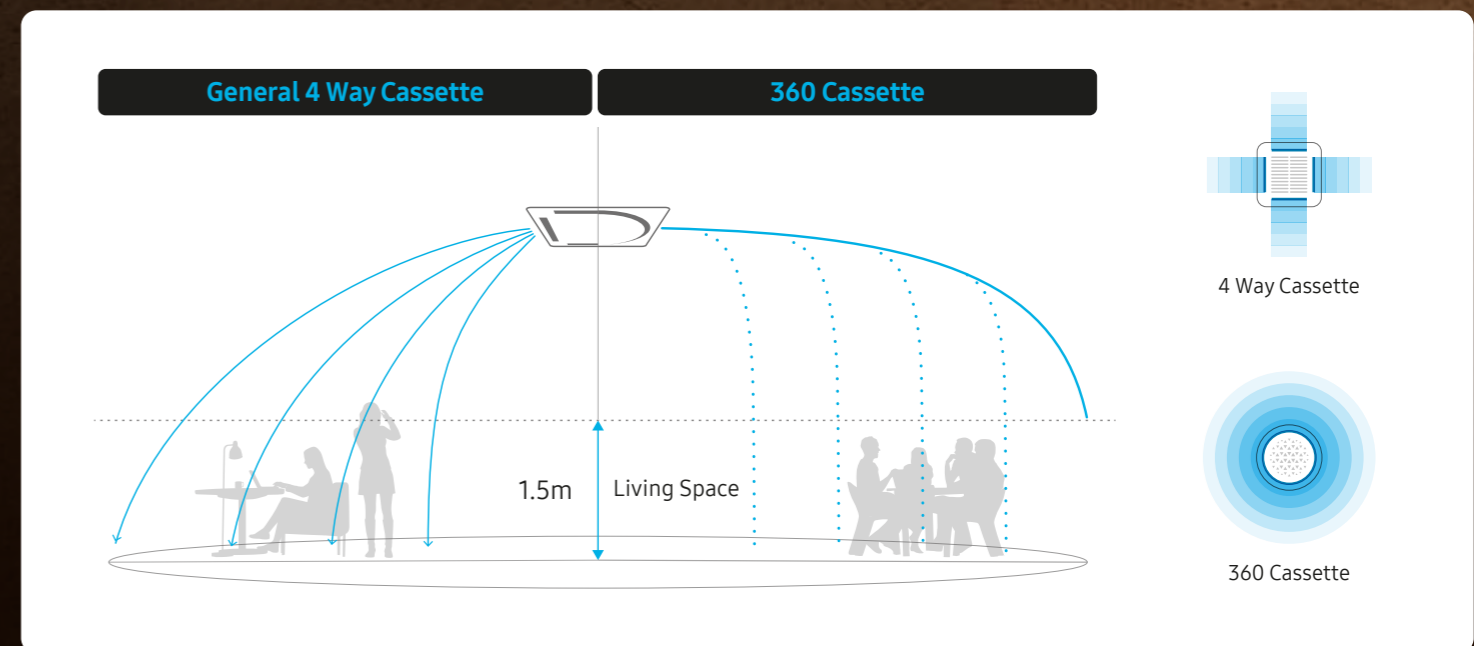
The 360 Cassette's 3 innovative Booster fans create a low pressure area around the outlet, allowing cool air to spread farther along the ceiling before dropping gently — mimicking the effect of a natural breeze. The result? A soft, even airflow with no cold drafts or direct wind*.

*Within a 5m radius, no cold draft between 0–1.5m in height (with 14.0kW).



Even cooling everywhere you go

Unlike a traditional 4 Way Cassette, the Samsung 360 Cassette sends air out in all directions through its signature circular outlet — reaching every single corner of a room for a consistent cool. It keeps temperatures even* without hot zones, creating a more comfortable environment from any angle.



*Samsung testing compared to a general 4 Way cassette type air conditioner.
**Within a 9.3m radius the temperature difference is less than 0.6°C.

Everything at a glance

The intuitive LED display shows airflow mode, operation status and alerts for filter cleaning, as well as outdoor unit issues or temperature sensor errors. See quick and clear updates to check how your system is running.



Clean air from end to end

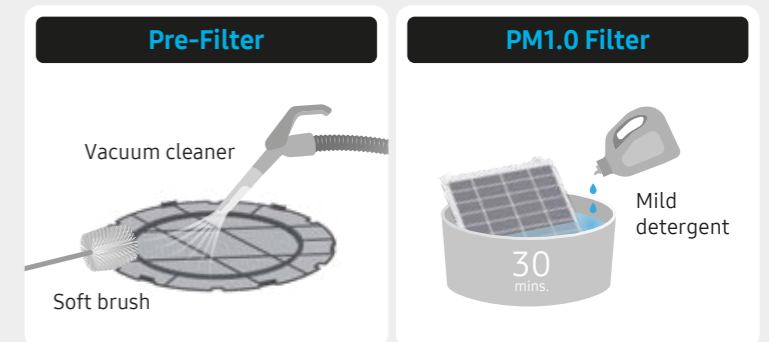
The 360 Cassette offers an optional Purifying Panel with a two-step filtering system to keep the air clean. The Pre-Filter traps large dust particles and airborne contaminants before they enter the unit, while the PM1.0 Filter captures ultrafine particles (up to 0.3µm) and sterilises up to 99% of the trapped bacteria*. Its intuitive Air Purity Level display shows real-time air quality, so you know you're not only enjoying cool air but also breathing clean air.

*Verified by Intertek. Report Number RT20E-S0010-R. Issued Date: 17 April 2020. The element (Electrostatic Precipitator) sterilises 99.9% of staphylococcus aureus and escherichia coli that collected on the filter media surface. Performance based on testing in a test lab, results may vary.



Quick and easy cleaning

The semi-permanent PM1.0 Filter and Pre-Filter are washable and reusable, an added advantage to save on maintenance costs and frequent filter repurchase.



Specifications

360 Cassette



Model	AC052FE6DKF/EA		AC071FE6DKF/EA		AC100FE6DKF/EA		AC120FE6DKF/EA		AC140FE6DKF/EA		AC160FE6DKF/EA							
	(Φ1)	(Φ3)	(Φ1)	(Φ3)	(Φ1)	(Φ3)	(Φ1)	(Φ3)	(Φ1)	(Φ3)	(Φ1)	(Φ3)						
Outdoor Unit	AC052FCADKF/EA		AC071FCADKF/EA		AC100FCADKF/EA		AC100FCADNF/EA		AC120FCADKF/EA		AC120FCADNF/EA		AC140FCADKF/EA		AC140FCADNF/EA		AC160FCADKF/EA	
Performance																		
Capacity (Min/Std/Max)	kW		1.20 / 5.30 / 6.60		1.45 / 7.20 / 8.00		3.00 / 10.80 / 12.80		3.50 / 12.10 / 15.0		4.00 / 13.50 / 16.50		4.00 / 13.50 / 16.50		4.00 / 13.50 / 16.50		4.00 / 16.50 / 19.00	
	Btu/h		4,100 / 18,200 / 22,500		4,900 / 24,500 / 27,300		10,200 / 36,700 / 43,700		11,900 / 41,300 / 51,200		13,600 / 46,100 / 56,300		13,600 / 46,100 / 56,300		13,600 / 46,100 / 56,300		13,600 / 56,300 / 64,800	
Power																		
Cooling Power Input (Min/Std/Max)	kW		0.22 / 1.52 / 2.30		0.27 / 2.11 / 3.20		0.53 / 3.47 / 4.85		0.80 / 4.03 / 6.50		0.85 / 5.08 / 7.25		0.85 / 5.08 / 7.20		0.93 / 6.11 / 7.85		0.93 / 6.11 / 7.85	
Cooling Current Input (Min/Std/Max)	kW		1.5 / 6.7 / 9.8		1.8 / 9.2 / 14.0		3.0 / 15.4 / 21.0		1.1 / 5.5 / 7.5		3.7 / 18.4 / 30.0		1.55 / 6.1 / 10.0		4.3 / 22.2 / 32.0		1.6 / 8.0 / 10.2	
Current	MCA		13.5		21.5		22.0		18.1		34.0		18.1		34.0		18.1	
	MFA		15		25		25.0		20.0		40.0		20.0		40.0		20.0	
Efficiency																		
EER	-		3.49		3.41		3.11		3.00		2.66		2.66		2.70		2.70	
CSPP	-		5.72		5.91		5.68		-		4.98		-		-		-	
Energy Grade	-		-		-		-		-		-		-		-		-	
Power Supply	Φ, #, V, Hz		1,2220-240,50/60		1,2220-240,50/60		1,2220-240,50/60		3,4380-415,50/60		1,2220-240,50/60		3,4380-415,50/60		1,2220-240,50/60		3,4380-415,50/60	
Fan																		
Type	-		Turbo		Turbo		Turbo		Turbo		Turbo		Turbo		Turbo		Turbo	
Quantity	ea		1		1		1		1		1		1		1		1	
Air Flow Rate	Cooling (H/M/L)		m ³ /min		17.3 / 15.6 / 13.9		19.9 / 16.4 / 13.9		30.5 / 24.4 / 18.2		31.6 / 25.6 / 19.6		34.6 / 27.6 / 21.6		34.6 / 27.6 / 21.6		34.6 / 27.6 / 21.6	
	L/s		288 / 260 / 232		332 / 275 / 232		508 / 407 / 303		527 / 427 / 327		577 / 460 / 360		577 / 460 / 360		577 / 460 / 360		577 / 460 / 360	
Fan Motor																		
Type	-		BLDC		BLDC		BLDC		BLDC		BLDC		BLDC		BLDC		BLDC	
Output	W x n		65 x 1		65 x 1		97 x 1		97 x 1		97 x 1		97 x 1		97 x 1		97 x 1	
Drain																		
Drain Pipe	ø, mm		VP25 (OD32 / ID25)		VP25 (OD32 / ID25)		VP25 (OD32 / ID25)		VP25 (OD32 / ID25)		VP25 (OD32 / ID25)		VP25 (OD32 / ID25)		VP25 (OD32 / ID25)		VP25 (OD32 / ID25)	
Sound																		
Sound Pressure Level ¹	H/M/L(Silent)		dB(A)		36/34/32		41/37/33		44/39/33		45/41/36		47/43/38		47/43/38		47/43/38	
External Dimension																		
Net Weight	kg		20.0		20.0		23.5		25		25		25		25		25.0	
Net Dimensions (W x H x D)	mm		947x281x947		947x281x947		947x365x947		947x365x947		947x365x947		947x365x947		947x365x947		947x281x947	
Square Panel (White)																		
Model Name	-		PC6NUSMANW		PC6NUSMANW		PC6NUSMANW		PC6NUSMANW		PC6NUSMANW		PC6NUSMANW		PC6NUSMANW		PC6NUSMANW	
Net Weight	kg		3.8		3.8		3.8		3.8		3.8		3.8		3.8		3.8	
Net Dimensions (W x H x D)	mm		1,000x74x1,000		1,000x74x1,000		1,000x74x1,000		1,000x74x1,000		1,000x74x1,000		1,000x74x1,000		1,000x74x1,000		1,000x74x1,000	
Square Panel (Black)																		
Model Name	-		PC6NBSMANW		PC6NBSMANW		PC6NBSMANW		PC6NBSMANW		PC6NBSMANW		PC6NBSMANW		PC6NBSMANW		PC6NBSMANW	
Net Weight	kg		3.8		3.8		3.8		3.8		3.8		3.8		3.8		3.8	
Net Dimensions (W x H x D)	mm		1,000x74x1,000		1,000x74x1,000		1,000x74x1,000		1,000x74x1,000		1,000x74x1,000		1,000x74x1,000		1,000x74x1,000		1,000x74x1,000	
Circular Panel (White)																		
Model Name	-		PC6EUSMANW		PC6EUSMANW		PC6EUSMANW		PC6EUSMANW		PC6EUSMANW		PC6EUSMANW		PC6EUSMANW		PC6EUSMANW	
Net Weight	kg		2.8		2.8		2.8		2.8		2.8		2.8		2.8		2.8	
Net Dimensions (W x H x D)	mm		Φ1,050x106		Φ1,050x106		Φ1,050x106		Φ1,050x106		Φ1,050x106		Φ1,050x106		Φ1,050x106		Φ1,050x106	
Circular Panel (Black)																		
Model Name	-		PC6EBSMANW		PC6EBSMANW		PC6EBSMANW		PC6EBSMANW		PC6EBSMANW		PC6EBSMANW		PC6EBSMANW		PC6EBSMANW	
Net Weight	kg		2.8		2.8		2.8		2.8		2.8		2.8		2.8		2.8	
Net Dimensions (W x H x D)	mm		Φ1,050x106		Φ1,050x106		Φ1,050x106		Φ1,050x106		Φ1,050x106		Φ1,050x106		Φ1,050x106		Φ1,050x106	
Circular + Air Purification Panel (White)																		
Model Name	-		PC6EUCMANW		PC6EUCMANW		PC6EUCMANW		PC6EUCMANW		PC6EUCMANW		PC6EUCMANW		PC6EUCMANW		PC6EUCMANW	
Net Weight	kg		6		6		6		6		6		6		6		6	
Net Dimensions (W x H x D)	mm		Φ1,050x106		Φ1,050x106		Φ1,050x106		Φ1,050x106		Φ1,050x106		Φ1,050x106		Φ1,050x106		Φ1,050x106	
Drain Pump																		
Drain Pump	-		Built-in		Built-in		Built-in		Built-in		Built-in		Built-in		Built-in		Built-in	
Max. Lifting Height / Displacement	mm/litres/h		750 / 24		750 / 24		750 / 24		750 / 24		750 / 24		750 / 24		750 / 24		750 / 24	

Accessories



Square Panel (White)	Square Panel (Black)	Circular Panel (White)	Circular Panel (Black)	Circular + Air Purification Panel (White)
PC6NUSMANW	PC6NBSMANW	PC6EUSMANW	PC6EBSMANW	PC6EUCMANW

Controls



Wireless Remote Controller ¹	Wireless Remote Controller ²	Wired Remote Controller	Wired Remote Controller	Wired Remote Controller
AR-CH01E	AR-EC03E	MWR-WG01JN	MWR-SH12N	MWR-WE13N

¹Sound 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.
²Additional receiver kit is required: MRK-A10N



Project reference

Designed to be a quiet retreat from the bustling city life, Novotel Itu Golf & Resort prioritises comfort and tranquillity throughout its spaces. Samsung 360 Cassette was chosen as part of this commitment, delivering even and all-directional airflow across the kids club, lobby, gym and restaurant.

**Novotel Itu Golf & Resort
Itu, Brazil**

Development Type:
Hotel

Indoor
Unit Model: 360 Cassette
Number of Units: 100

MSP/HSP Duct S

The MSP and HSP Duct S 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.



Easy installation, wherever it fits best

The ducts include an optional High Lift-Up Drain Pump, which lifts condensed water up to 750mm — more than the previous 700mm limit. This 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.



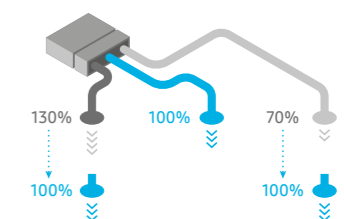
Designed to cool large spaces with ease

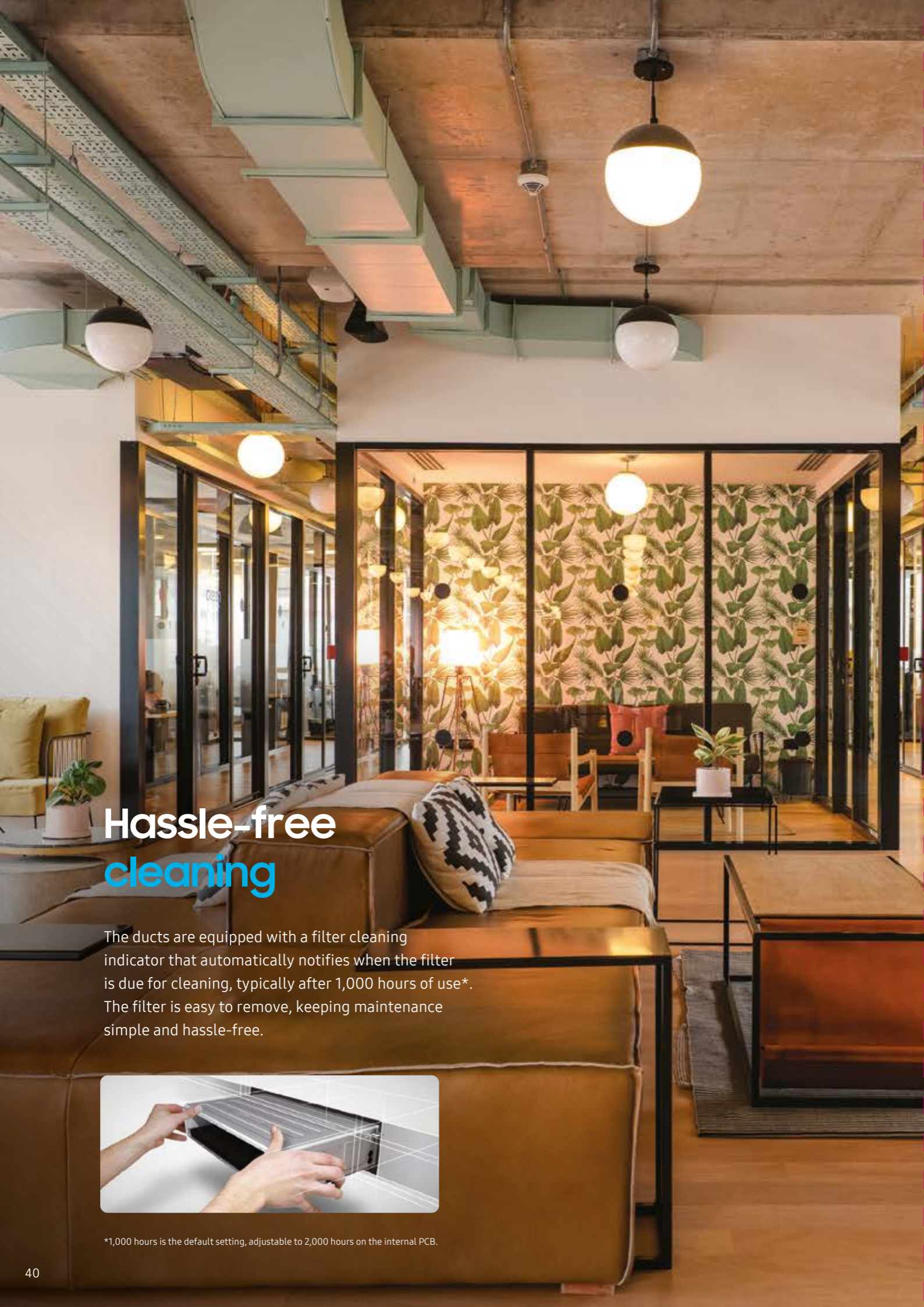
By generating medium and high static pressure, the ducts push cool air farther so you get steady airflow* in large rooms**. With more inlets and outlets, the MSP/HSP duct range makes flexible installation simple and reliable, especially when the unit needs to be installed farther from the ceiling vent.

*Based on internal testing. Results may vary depending on environmental factors and individual use.
**Based on internal testing. HSP Duct = 20-28mmAq vs. MSP Duct = 15mmAq. Results may vary depending on environmental factors and individual use.

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.





Hassle-free cleaning

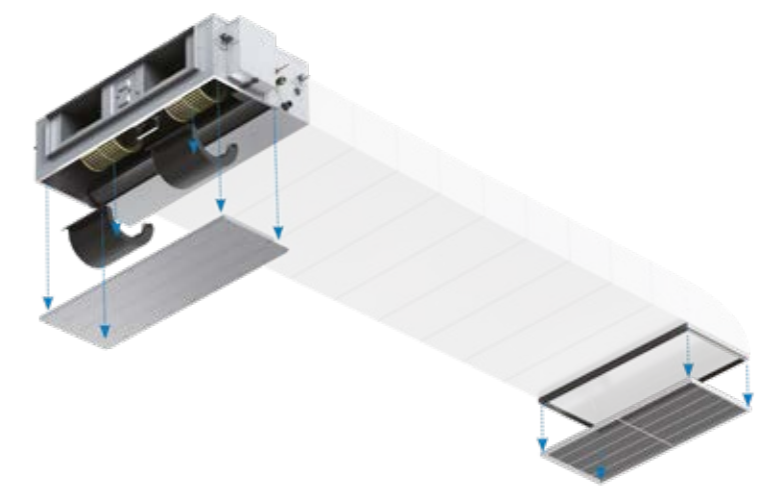
The ducts are equipped with a filter cleaning indicator that automatically notifies when the filter is due for cleaning, typically after 1,000 hours of use*. The filter is easy to remove, keeping maintenance simple and hassle-free.



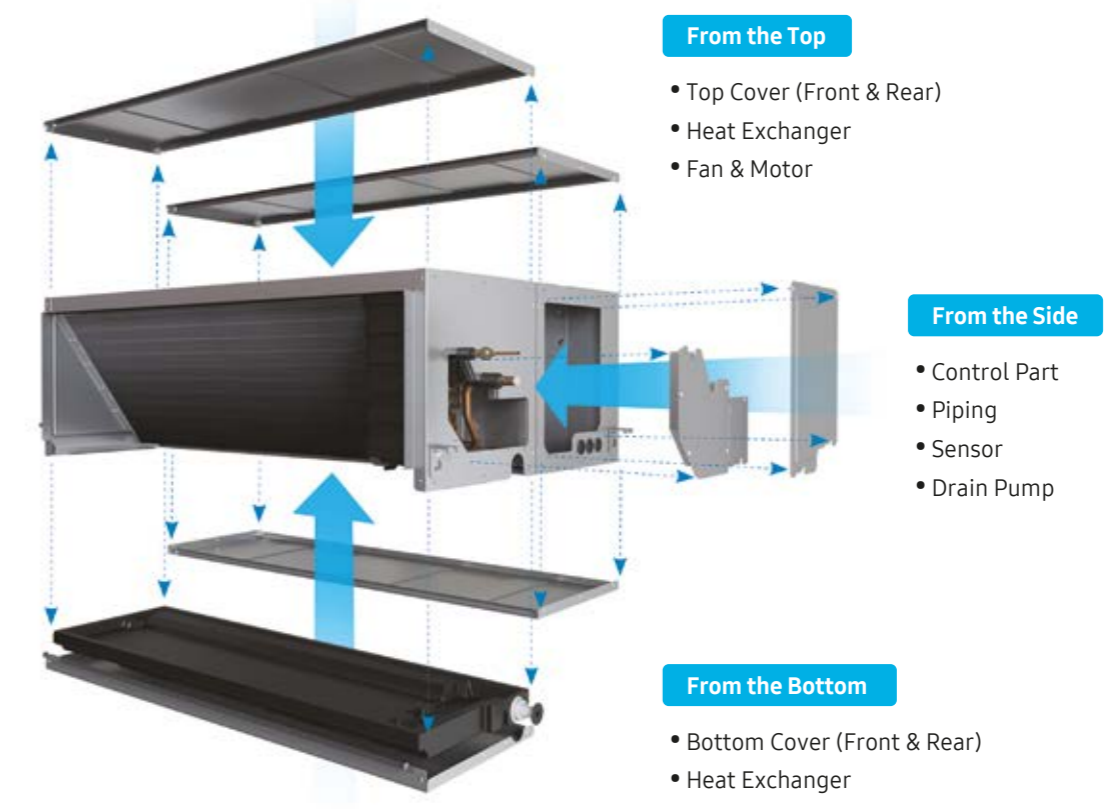
*1,000 hours is the default setting, adjustable to 2,000 hours on the internal PCB.

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.



MSP Duct S



HSP Duct S

Specifications

HSP



Built-in Wi-Fi

MSP



Built-in Wi-Fi

Model	AC100FEMDKF/EA		AC120FEMDKF/EA		AC140FEMDKF/EA		AC160FEMDKF/EA	
	(Φ1)	(Φ3)	(Φ1)	(Φ3)	(Φ1)	(Φ3)	(Φ1)	(Φ3)
Outdoor Unit	AC100FCADKF/EA	AC100FCADNF/EA	AC120FCADKF/EA	AC120FCADNF/EA	AC140FCADKF/EA	AC140FCADNF/EA	AC160FCADKF/EA	AC160FCADNF/EA
Performance								
Capacity (Min/Std/Max)	3.00 / 10.60 / 13.00		3.50 / 12.10 / 15.00		4.15 / 13.80 / 16.50		4.00 / 17.60 / 20.00	
	10,200 / 36,200 / 44,400		11,900 / 41,300 / 51,200		14,200 / 46,900 / 56,300		13,600 / 60,000 / 68,200	
Power								
Cooling Power Input (Min/Std/Max)	0.53 / 3.25 / 4.90		0.80 / 4.17 / 6.50		0.85 / 4.90 / 7.25		0.85 / 4.82 / 7.25	
Cooling Current Input (Min/Std/Max)	3.0 / 14.5 / 21.0		1.2 / 5.1 / 7.8		4.3 / 21.4 / 32.0		1.6 / 7.6 / 10.2	
Current	MCA	22.5	18.6	34.5	18.6	34.5	18.6	35.5
	MFA	25.0	20.0	40.0	20.0	40.0	20.0	40.0
Efficiency								
EER	3.26		3.29		2.82		2.86	
CSPF	-		-		-		-	
Energy Grade	-		-		-		-	
Power Supply	Φ, #, V, Hz		1,2,220-240,50/60		3,4,380-415,50/60		1,2,220-240,50/60	
Fan								
Type	Sirocco		Sirocco		Sirocco		Sirocco	
Quantity	3		3		3		2	
Air Flow Rate	28.7 / 25.4 / 22.0		33.2 / 27.2 / 22.0		33.2 / 27.2 / 22.0		51.6 / 44.9 / 38.8	
	478 / 423 / 367		553 / 453 / 367		553 / 453 / 367		860 / 748 / 647	
External Static Pressure	0 / 4.0 / 15.0		0 / 5.2 / 15.0		0 / 5.2 / 15.0		0 / 5.2 / 15.0	
	mmAq		mmAq		mmAq		mmAq	
Fan Motor								
Type	BLDC		BLDC		BLDC		BLDC	
Output	244 x 1		244 x 1		244 x 1		350 x 1	
Drain								
Drain Pipe	VP25 (OD32 / ID25)		VP25 (OD32 / ID25)		VP25 (OD32 / ID25)		VP25 (OD32 / ID25)	
Sound								
Sound Pressure Level	36/33/30		37/34/30		37/34/30		44/40/36	
External Dimension								
Net Weight	38.5		38.5		38.5		53.5	
Net Dimensions (W x H x D)	1,300x300x700		1,300x300x700		1,300x300x700		1,200x360x650	
Drain Pump (Optional)								
External Model	MDP-G075SP		MDP-G075SP		MDP-G075SP		-	
Internal Model	MDP-G075SQ		MDP-G075SQ		MDP-G075SQ		MDP-M075SGU2D	
Max. Lifting Height / Displacement	750 / 24		750 / 24		750 / 24		750 / 24	

AC052FEMDKF/EA	AC071FEMDKF/EA
AC052FCADKF/EA	AC071FCADKF/EA
1.20 / 5.40 / 6.60	1.45 / 7.20 / 8.00
4,100 / 18,300 / 22,500	4,900 / 24,600 / 27,300
0.22 / 1.60 / 2.30	0.27 / 2.21 / 3.20
1.5 / 7.1 / 9.8	1.8 / 9.7 / 14.0
14.3	22.3
15.0	25.0
3.38	3.26
-	-
1,2,220-240,50/60	1,2,220-240,50/60
Sirocco	Sirocco
2	2
16.2 / 12.9 / 9.7	19.9 / 16.2 / 12.9
270 / 215 / 162	332 / 270 / 215
0 / 3.0 / 5.0	0 / 3.0 / 15.0
BLDC	BLDC
153 x 1	153 x 1
VP25 (OD32 / ID25)	VP25 (OD32 / ID25)
33/30/27	37/33/29
26.5	26.5
850x250x700	850x250x700
MDP-G075SP	MDP-G075SP
MDP-G075SQ	MDP-G075SQ
750 / 24	750 / 24

Controls



Wireless Remote Controller²

AR-CH01E



Wireless Remote Controller²

AR-EC03E



Wired Remote Controller

MWR-WG01JN



Wired Remote Controller

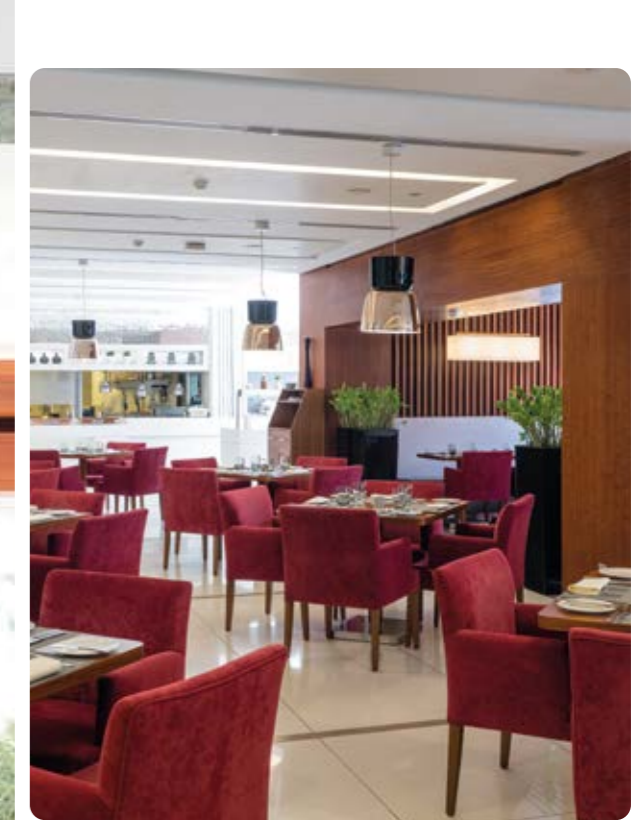
MWR-SH12N



Wired Remote Controller

MWR-WE13N

¹Sound 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.
²Additional receiver kit is required: MRK-A10N



Project reference

At Hotel Burgu Arjaan by Rotana, exceptional service is designed to be felt, not seen. Aligned with this philosophy, Samsung duct air conditioners are seamlessly integrated into the hotel's interiors, delivering quiet, vibration-free cooling with optimal comfort.

**Hotel Burgu Arjaan by Rotana
Turkey, Istanbul**

Development Type:
Hotel

Indoor
Unit Model: Duct
Number of Units: 306

Ceiling

Cool your space quickly and efficiently with Samsung's Ceiling air conditioner. It delivers powerful airflow to cool larger areas in a shorter time while requiring fewer units, saving installation time and simplifying system setup for commercial projects.



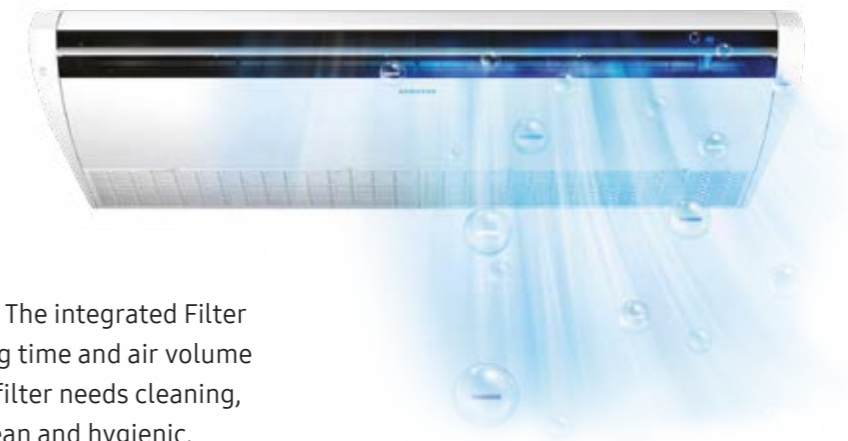
Powerful comfort for big spaces

The Ceiling air conditioner cools up to 15 metres* across large areas using just one unit per 20m², making it ideal for large retail areas, offices and other commercial premises. Fewer units mean faster installation, lower energy use and reduced overall costs.

*Based on internal testing. Results may vary depending on environmental factors and individual use.



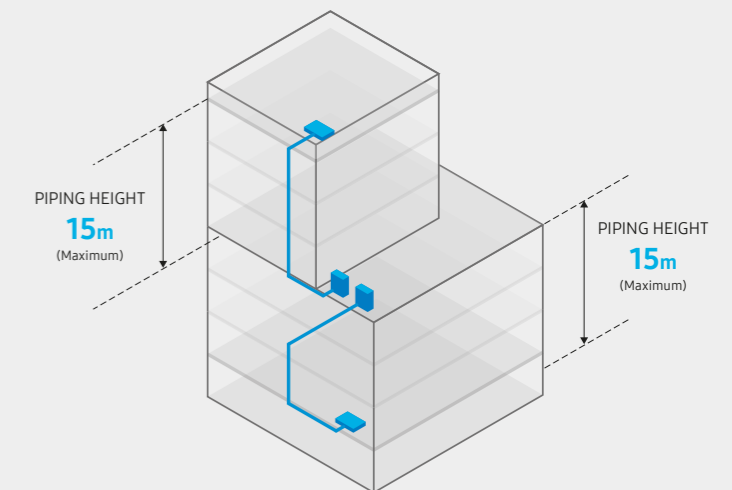
Clean, fresh air every day



Stay on top of indoor air quality. The integrated Filter Dust Alarm monitors the running time and air volume to precisely calculate when the filter needs cleaning, making sure the air is always clean and hygienic.

Reach higher spaces with ease

The long piping supports up to 15 metres of elevation between the indoor and outdoor unit — 5 metres higher than conventional air conditioners. This gives you more flexibility for installation.



Specifications

Ceiling



Built-in Wi-Fi

Model	AC071FECADKF/EA			AC100FECADKF/EA			AC120FECADKF/EA			AC140FECADKF/EA			AC160FECADKF/EA		
	(Ø1)	(Ø3)	(Ø3)	(Ø1)	(Ø3)	(Ø3)	(Ø1)	(Ø3)	(Ø3)	(Ø1)	(Ø3)	(Ø3)	(Ø1)	(Ø3)	(Ø3)
Outdoor Unit	AC071FECADKF/EA			AC100FECADKF/EA			AC120FECADKF/EA			AC140FECADKF/EA			AC160FECADKF/EA		
Performance	AC071FECADKF/EA			AC100FECADKF/EA			AC120FECADKF/EA			AC140FECADKF/EA			AC160FECADKF/EA		
Capacity (Min/Std/Max)	1.45 / 7.30 / 8.30			3.00 / 10.80 / 13.00			3.50 / 12.10 / 15.00			4.20 / 13.50 / 16.20			4.00 / 17.00 / 19.00		
	4,900 / 25,000 / 28,300			10,200 / 37,000 / 44,400			11,900 / 41,300 / 51,200			14,300 / 46,100 / 55,300			13,600 / 58,000 / 64,800		
Power	AC071FECADKF/EA			AC100FECADKF/EA			AC120FECADKF/EA			AC140FECADKF/EA			AC160FECADKF/EA		
Cooling Power Input (Min/Std/Max)	0.24 / 2.13 / 3.20			0.53 / 3.42 / 4.90			0.80 / 4.32 / 6.50			0.81 / 5.11 / 7.30			0.93 / 6.20 / 7.85		
Cooling Current Input (Min/Std/Max)	1.6 / 9.3 / 14.0			3.0 / 15.3 / 21.0			3.7 / 19.7 / 30.0			4.4 / 22.4 / 32.0			4.6 / 23.3 / 32.0		
Current	MCA	22.5		22.5	18.6		34.5	18.6		34.5	18.6		35.0	19.1	
	MFA	25.0		25.0	20.0		40.0	20.0		40.0	20.0		40.0	20.0	
Efficiency	AC071FECADKF/EA			AC100FECADKF/EA			AC120FECADKF/EA			AC140FECADKF/EA			AC160FECADKF/EA		
EER	3.43			3.16			2.80			2.64			2.74		
CSPF	5.91			5.48			5.19			4.98			4.98		
Energy Grade	-			-			-			-			-		
Power Supply	Ø, #, V, Hz			Ø, #, V, Hz			Ø, #, V, Hz			Ø, #, V, Hz			Ø, #, 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		
Fan	AC071FECADKF/EA			AC100FECADKF/EA			AC120FECADKF/EA			AC140FECADKF/EA			AC160FECADKF/EA		
Type	Sirocco			Sirocco			Sirocco			Sirocco			Sirocco		
Quantity	3			4			4			4			4		
Air Flow Rate	Cooling (H/M/L)			Cooling (H/M/L)			Cooling (H/M/L)			Cooling (H/M/L)			Cooling (H/M/L)		
	20.3 / 16.5 / 12.5			25.5 / 22.1 / 18.7			28.2 / 23.5 / 19.4			32.2 / 26.8 / 22.1			35.5 / 30.8 / 26.1		
	338 / 275 / 208			425 / 368 / 312			470 / 392 / 323			537 / 447 / 368			592 / 513 / 435		
Fan Motor	AC071FECADKF/EA			AC100FECADKF/EA			AC120FECADKF/EA			AC140FECADKF/EA			AC160FECADKF/EA		
Type	BLDC			BLDC			BLDC			BLDC			BLDC		
Output	W x n			W x n			W x n			W x n			W x n		
	153 x 1			244 x 1			244 x 1			244 x 1			244 x 1		
Drain	AC071FECADKF/EA			AC100FECADKF/EA			AC120FECADKF/EA			AC140FECADKF/EA			AC160FECADKF/EA		
Drain Pipe	ø, mm			ø, mm			ø, mm			ø, mm			ø, mm		
	VP25 (OD32 / ID25)			VP25 (OD32 / ID25)			VP25 (OD32 / ID25)			VP25 (OD32 / ID25)			VP25 (OD32 / ID25)		
Sound	AC071FECADKF/EA			AC100FECADKF/EA			AC120FECADKF/EA			AC140FECADKF/EA			AC160FECADKF/EA		
Sound Pressure Level¹	H/M/L (Silent)			H/M/L (Silent)			H/M/L (Silent)			H/M/L (Silent)			H/M/L (Silent)		
	41/38/35			42/38/34			44/41/37			49/45/41			49/45/41		
External Dimension	AC071FECADKF/EA			AC100FECADKF/EA			AC120FECADKF/EA			AC140FECADKF/EA			AC160FECADKF/EA		
Net Weight	kg			kg			kg			kg			kg		
	33.0			42			42			42			42		
Net Dimensions (W x H x D)	mm			mm			mm			mm			mm		
	1,350x235x675			1,650x235x675			1,650x235x675			1,650x235x675			1,650x235x675		
Drain Pump (Optional)	AC071FECADKF/EA			AC100FECADKF/EA			AC120FECADKF/EA			AC140FECADKF/EA			AC160FECADKF/EA		
External Model	-			-			-			-			-		
Internal Model	MDP-F075SP			MDP-F075SP			MDP-F075SP			MDP-F075SP			MDP-F075SP		
Max. Lifting Height / Displacement	mm/ litres/h			mm/ litres/h			mm/ litres/h			mm/ litres/h			mm/ litres/h		
	750 / 24			750 / 24			750 / 24			750 / 24			750 / 24		

Controls



Wireless Remote Controller²

AR-CH01E



Wireless Remote Controller²

AR-EC03E



Wired Remote Controller

MWR-WG01JN



Wired Remote Controller

MWR-SH12N



Wired Remote Controller

MWR-WE13N

¹Sound 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.
²Additional receiver kit is required: MRK-A10N



St. Roch School Saint Louis, USA

Development Type:
School

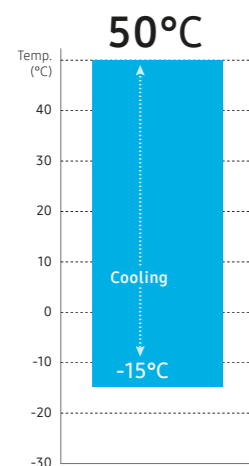
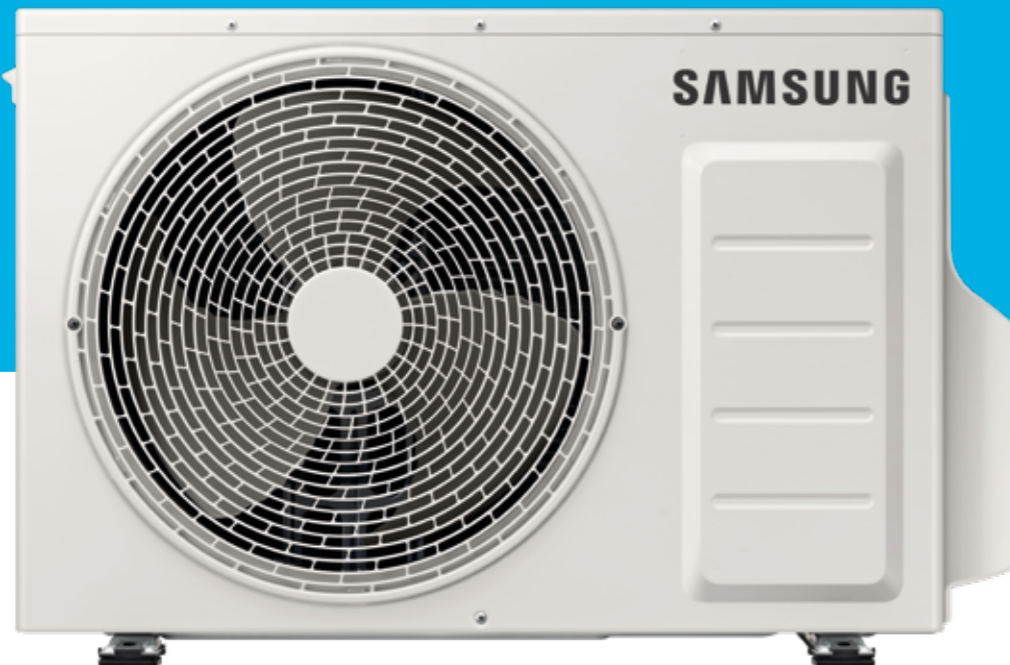
Indoor
Unit Model: Ceiling
Number of Units: 3

Project reference

St. Roch School equipped multiple learning and activity spaces with Samsung's versatile cooling solutions to meet each room's diverse needs. Samsung Ceiling air conditioner is amongst the chosen models, delivering quiet and powerful cooling with fewer units, ideal for large areas like classrooms.

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.

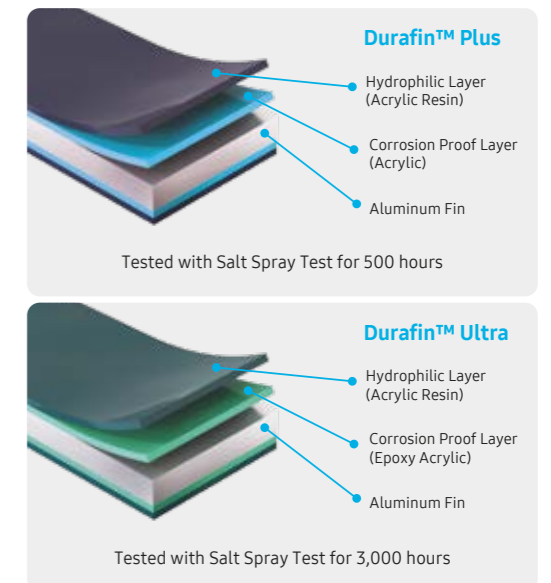


One Outdoor Unit, multiple Indoor options

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

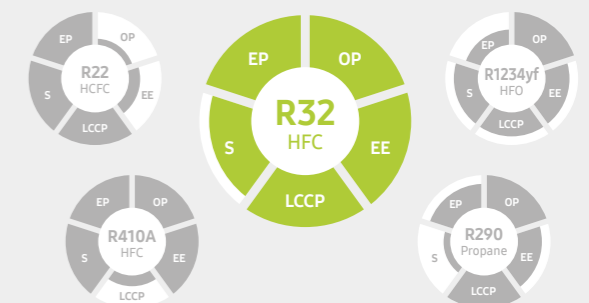
Designed for durability, the outdoor units feature Durafin™ Plus and Durafin™ Ultra* — engineered with copper tubes and anti-corrosion coated fins to protect the condenser from rust and maintain optimal Heat Exchanger performance. Its superb corrosion resistance has been rigorously tested and proven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



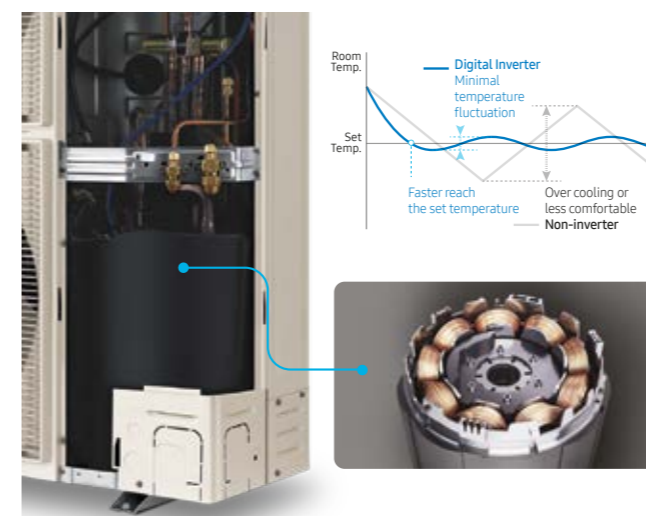
*Third party verification (TUV) received for internal test result. (Durafin™ Plus: 2.6/3.5/5.2/7.1 kW, Durafin™ Ultra: 10/12/14/16 kW) Application of Durafin™ Ultra may vary by model.
**Based on internal test, no leak when applying pressure (42kgf/cm2) using nitrogen for 1 minute after a Salt Spray Test (SST) of over 3,000 hours (The Durafin™ Ultra), 500 hours (The Durafin™ Plus) in accordance with ASTM B117/ISO 9227.

Good for the planet

The Samsung CAC uses next-generation R32 refrigerant, which helps conserve the ozone layer and has a lower impact on global warming*. It also requires less refrigerant and cuts CO₂ emissions**, making it more environmentally friendly.



*GWP rating: R32 refrigerant = 675 vs. R410A refrigerant = 2,088.
**The Samsung CAC Single (R32) only requires 83% of the refrigerant used in a conventional system (R410A) of the same capacity. So the level of CO₂ emissions of the CAC Single (R32) is 540 (675 x 0.8), which is 73% less than the 2,088 produced by a conventional system.



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, less energy usage and more savings.

Specifications

Outdoor Units



Model	AC026FCADKF/EA	AC035FCADKF/EA	AC052FCADKF/EA	AC071FCADKF/EA	AC100FCADKF/EA (Ø1)	AC100FCADNF/EA (Ø3)
Power Supply	1,2,220-240,50/60		1,2,220-240,50/60		1,2,220-240,50/60	
Pipe Connections	1,2,220-240,50/60		1,2,220-240,50/60		1,2,220-240,50/60	
Liquid Pipe	Flare connection		Flare connection		Flare connection	
Type	Flare connection		Flare connection		Flare connection	
Φ, mm(inch)	6.35(1/4)		6.35(1/4)		9.52(3/8)	
Gas Pipe	Flare connection		Flare connection		Flare connection	
Type	Flare connection		Flare connection		Flare connection	
Φ, mm(inch)	9.52(3/8)		9.52(3/8)		15.88(5/8)	
Heat Insulation	Both liquid and gas pipes		Both liquid and gas pipes		Both liquid and gas pipes	
Pipe Length (ODU-IDU)	Both liquid and gas pipes		Both liquid and gas pipes		Both liquid and gas pipes	
Standard	5		5		5	
Max	30		30		50	
Elevation	15		15		30	
Chargeless	20		20		30	
Refrigerant	R32		R32		R32	
Type	R32		R32		R32	
Factory Charging	0.9		1.1		2.3	
Heat Exchanger	F&T		F&T		F&T	
Type	F&T		F&T		F&T	
Material	Al		Al		Al	
Fin	Al		Al		Al	
Tube	Cu		Cu		Cu	
Fin Treatment	Hydrophile		Hydrophile		Anti-corrosion	
Compressor	Twin BLDC Rotary		Twin BLDC Rotary		Twin BLDC Rotary	
Type	Twin BLDC Rotary		Twin BLDC Rotary		Twin BLDC Rotary	
Output	1.00		1.00		2.91	
Fan	Propeller		Propeller		Propeller	
Type	Propeller		Propeller		Propeller	
Discharge direction	Front		Front		Front	
Quantity	1		1		1	
Air Flow Rate	30.0		30.0		72.0	
m ³ /min	30.0		30.0		40.0	
l/s	500		500		667	
Fan Motor	BLDC		BLDC		BLDC	
Type	BLDC		BLDC		BLDC	
Output	45 x 1		45 x 1		125 x 1	
Sound	46		48		53	
Sound Pressure Level¹	46		48		53	
External Dimension	790x548x285		790x548x285		940x998x330	
Net Weight	27.5		27.5		69	
Net Dimensions (W x H x D)	790x548x285		790x548x285		880x638x310	
Operating Temp / Range	-15-50		-15-50		-15-50	
Cooling	-15-50		-15-50		-15-50	

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.

Specifications

Outdoor Units



Model	AC120FCADKF/EA (Φ1)	AC120FCADNF/EA (Φ3)	AC140FCADKF/EA (Φ1)	AC140FCADNF/EA (Φ3)	AC160FCADKF/EA (Φ1)	AC160FCADNF/EA (Φ3)
Power Supply	Φ, #, V, Hz		1,2,220-240,50/60		3,4,380-415,50/60	
Pipe Connections						
Liquid Pipe	Type	Flare connection	Flare connection	Flare connection	Flare connection	Flare connection
	Φ, mm(inch)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)	9.52(3/8)
Gas Pipe	Type	Flare connection	Flare connection	Flare connection	Flare connection	Flare connection
	Φ, mm(inch)	15.88(5/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)	15.88(5/8)
Heat Insulation		Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes	Both liquid and gas pipes
Pipe Length (ODU-IDU)	Standard	m	5	5	5	5
	Max	m	75	75	75	75
	Elevation	m	30	30	30	30
	Chargeless	m	30	30	30	30
Refrigerant						
Type	-	R32	R32	R32	R32	R32
Factory Charging	kg	2.6	2.6	2.6	3.1	3.1
Heat Exchanger						
Type	-	F&T	F&T	F&T	F&T	F&T
Material	Fin	-	Al	Al	Al	Al
	Tube	-	Cu	Cu	Cu	Cu
Fin Treatment	-	Anti-corrosion	Anti-corrosion	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor						
Type	-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
Output	kW	4.25	4.25	4.25	4.25	4.25
Fan						
Type	-	Propeller	Propeller	Propeller	Propeller	Propeller
Discharge direction	-	Front	Front	Front	Front	Front
Quantity	ea	1	1	1	2	2
Air Flow Rate	m ³ /min	72.0	72.0	72.0	110.0	110.0
	l/s	1200	1200	1200	1833	1833
Fan Motor						
Type	-	BLDC	BLDC	BLDC	BLDC	BLDC
Output	W x n	125 x 1	125 x 1	125 x 1	125 x 2	125 x 2
Sound						
Sound Pressure Level	dB(A)	53	53	53	58	58
External Dimension						
Net Weight	kg	75.5	75.5	75.5	91.5	91.5
Net Dimensions (W x H x D)	mm	940x998x330	940x998x330	940x998x330	940x1,420x330	940x1,420x330
Operating Temp / Range						
Cooling	°C	-15-50	-15-50	-15-50	-15-50	-15-50

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.

