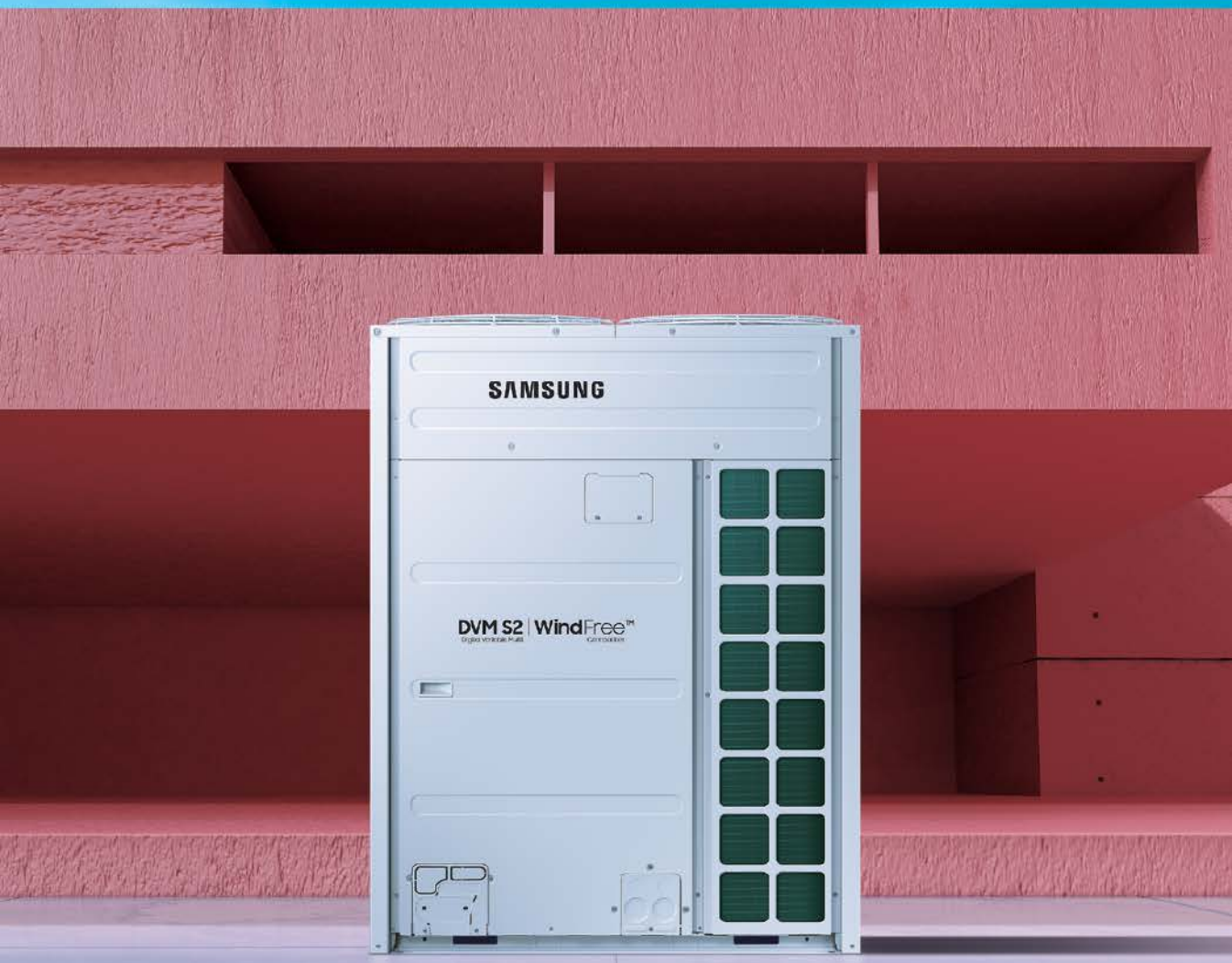
SAMSUNG

Rebuilt on all new innovations



DVM S2 | **WindFree™**

Digital Variable Multi

Compatible

SAMSUNG Air Conditioner

DVM S2 Overview

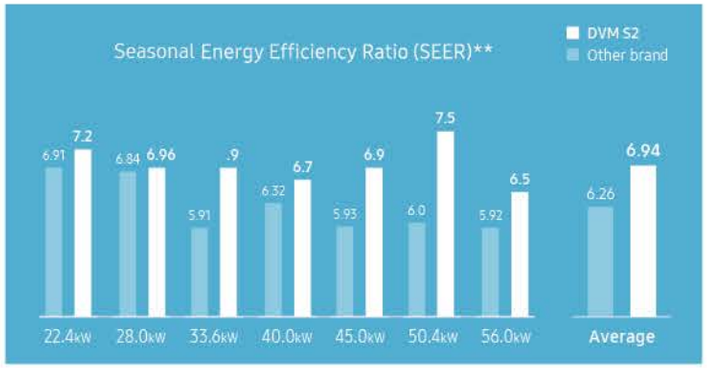
Rebuilt on all new innovations. The ultimate in efficiency and reliability.

True innovation is a rare thing – so the multiple new technologies in the Samsung DVM S2 outdoor air conditioning unit make it truly unique. It has been totally redesigned to deliver outstandingly consistent comfort in a wide range of locations, as well exceptional energy efficiency. Its flexibility is equally matched by its reliability, as it can operate effectively in many different environmental conditions, including the most extreme temperatures. And it also includes a host of new and intelligent management features that make its installation and maintenance much simpler and more cost-effective. Quite simply it redefines the art of comfort.

Cost Saving

Relentless innovation for the ultimate in energy efficiency

Air conditioning systems are a major consumer of energy, and account for about 30%* of the total energy used in a building. So, energy efficiency is usually the most important factor that consultants and designers consider when deciding which air conditioning system to purchase and install in a building.



The Samsung VRF systems already lead the industry in energy efficiency. And now the new DVM S2 outdoor unit is pushing back the boundaries even further. It incorporates many new and unique technologies that deliver the next level of energy efficiency, along with a superior performance.

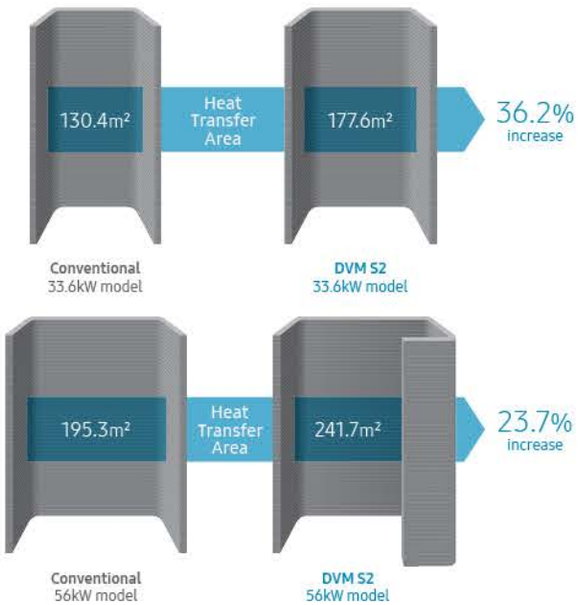
On average, the Samsung DVM S2 is proven to be around 11% more energy efficient across a range of capacities**.

* Varies by building, location, operating patterns and various other factors.
** Based on testing in accordance with the Eurovent testing rule, at the end of December 2020. Tested on 22.4~56kW models of the Samsung DVM S2.

Transfers more energy with an enlarged contact area

Enlarged Heat Exchanger

The Samsung DVM S2 has an enlarged heat exchanger that is capable of transferring much more heat at once. Its heat transfer area is up to 36.2% larger* to quickly exchange heat. As a result, it consumes less energy to achieve the same cooling and heating performance.

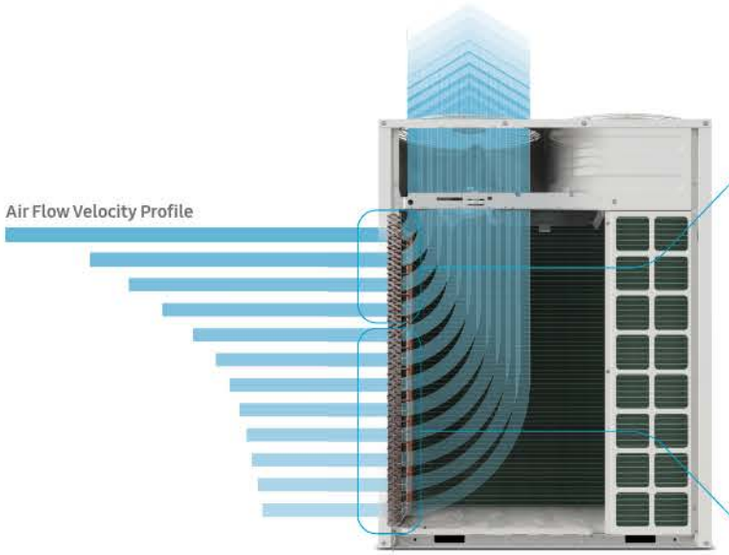


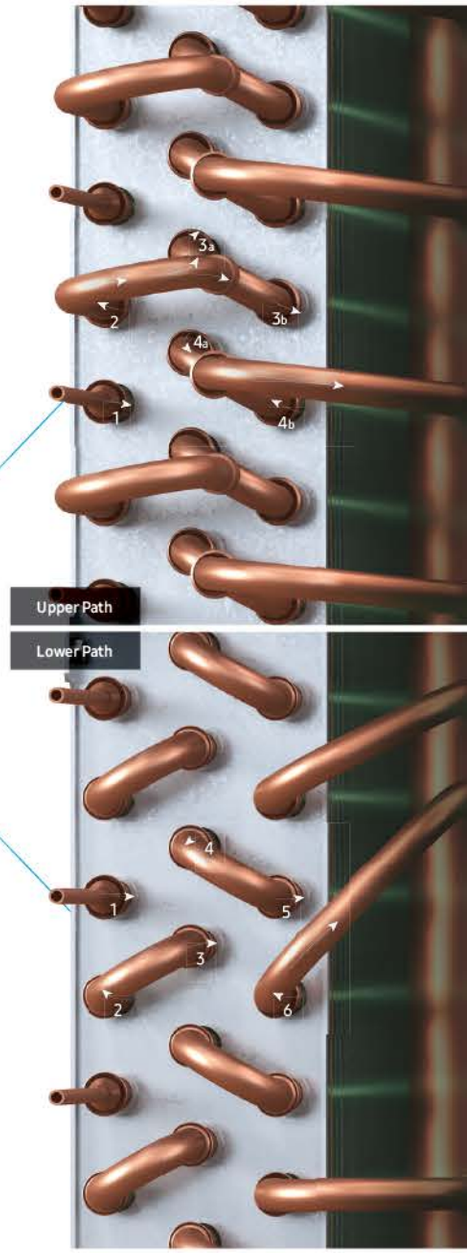
* Based on Samsung's measurements, comparing 33.6kW models of a DVM S2 and a conventional outdoor unit.

Optimized refrigerant flow matches the air flow velocity

Optimized Refrigerant Path

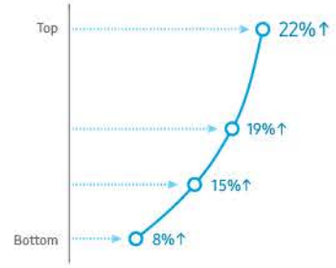
The air flow speed inside the outdoor unit varies depending on how far it is from the top fan - the closer the faster and the farther the slower - which normally results in the uneven exchange of heat from top to bottom. The Samsung DVM S2 has any an optimized refrigerant path* that ensures that the flow of the refrigerant matches the air flow speed, which optimizes the transference of heat. So, it performs more effectively and efficiently by balancing the exchange of energy.





Rate of Improvement in Pressure Loss Reduction**

The refrigerant flow rate is adjusted by increasing the mass flow rate in order to increase the amount of heat exchanged in the upper part.



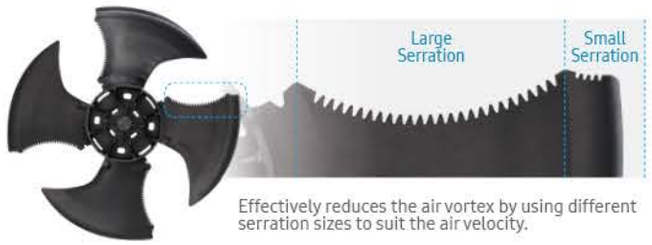
* The shape of the refrigerant path differs by model.
** Based on an internal module evaluation. Results may vary depending on the individual test or usage conditions.

Cost Saving

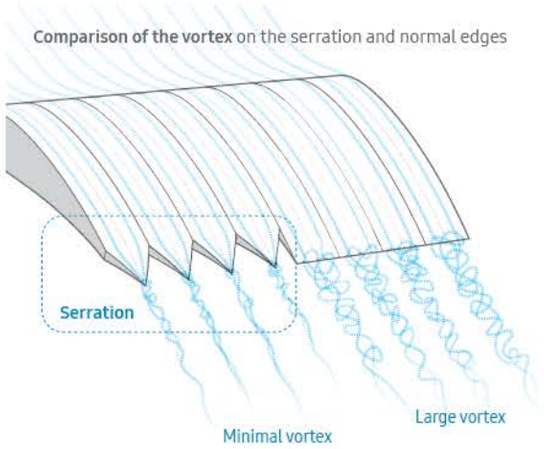
Efficiently increases the air flow

Multi-serration Fan*

The DVM S2 has a brand-new, aerodynamic Multi-serration Fan* that creates more air flow while consuming less energy. Its multi-serration wing tip design, inspired by an Eagle owl's wing, minimizes the turbulence of the air vortex, which reduces the air resistance and ensures more stable fan movement.



Effectively reduces the air vortex by using different serration sizes to suit the air velocity.

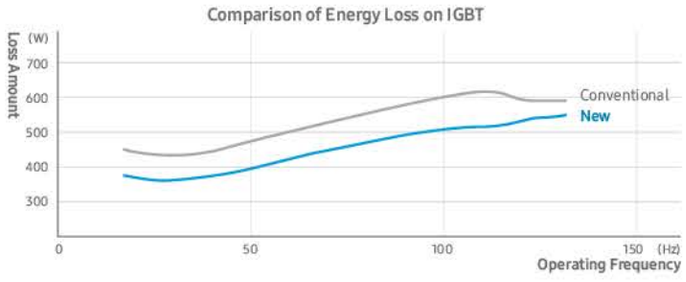


* Only available on certain models that have one fan. The shape of the fan may vary by model and region.

Reduces the loss of conducted electricity

High-efficiency IGBT (Insulated Gate Bipolar Transistor)

An IGBT has a key role in inverter systems. It switches direct current (DC) to alternating current (AC) and maintains a frequency (Hz) that is suited to the system. So, the efficiency of an IGBT affects the efficiency of the whole air conditioning system. The Samsung DVM S2 uses the 7th generation of IGBT, which reduces the loss of conducted electricity by 20%*, while being 36% smaller in size. As a result, the Inverter Controller's energy efficiency is improved by up to 3.6%*, depending on the operating frequency (Hz).

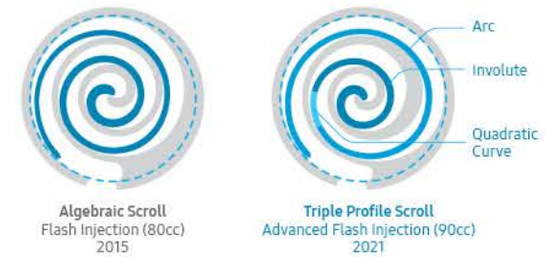


* Based on internal testing of the DVM S2 33.6kW model compared to a conventional outdoor unit, combined with 6 GD2 5.6kW indoor units. Results may vary depending on the individual test or usage conditions.

Circulates more refrigerant while using less energy

90cc Chamber with new Triple Profile Scroll

The Samsung 90cc Inverter Scroll Compressor used in the Samsung DVM S2 has the world's largest capacity and circulates up to 17% more refrigerant*. Its new Triple Profile Scroll combines are, involute and quadratic curves and also has a thicker profile towards the middle to reinforce the strength of the center part. So, it creates a larger chamber and rotates reliably at high speed. By delivering a higher level of performance at a lower frequency, it consumes less electricity and improves overall energy efficiency, especially in a high frequency domain.



Algebraic Scroll
Flash Injection (80cc)
2015

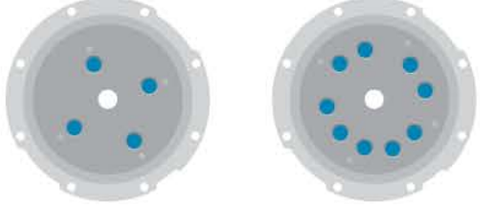
Triple Profile Scroll
Advanced Flash Injection (90cc)
2021

* Samsung circulates 14,400cc/sec refrigerant (= 90cc (displacement volume) x 160rps (revolutions per second)), while Company A circulates 12,480cc/sec (= 96cc x 130rps), Company B circulates 14,080cc/sec (= 88cc x 160rps) and Company C circulates 12,320cc/sec (=88cc x 140rps).

Reduced losses at partial loads

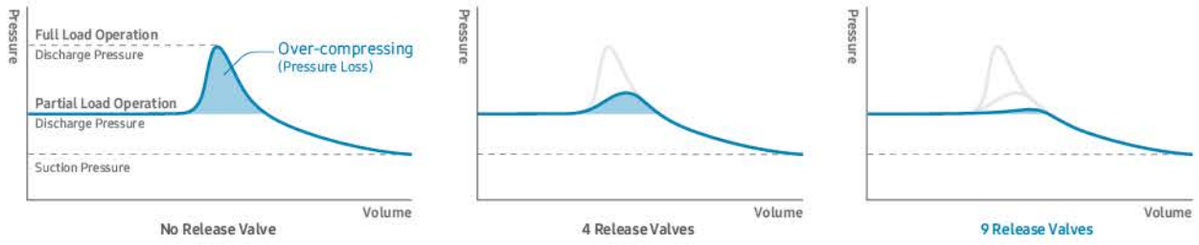
9 Release Valves

Compressors always draw in the maximum amount of refrigerant to generate the 100% pressure needed to operate at full load, as their chamber size is not variable. And, to compress more refrigerant, more electricity is required. So, it's very important to release any excessive refrigerant pressure in order to save energy when there's only a small load that doesn't need a high discharge pressure. The new Samsung 90cc Scroll Compressor has 9 Release Valves, so it accurately and immediately releases refrigerant to prevent the over-compressing that wastes electricity.



Conventional Scroll Compressor (80cc)
4 Release Valves

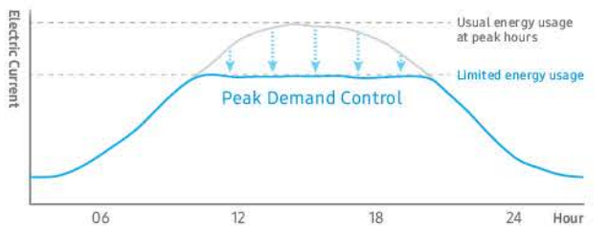
New Samsung Scroll Compressor (90cc)
9 Release Valves



Simply limits power consumption

Peak Demand Control

To help businesses manage their power consumption and related costs better, the DVM S2 offers power-demand control for peak hours and seasons. This is especially useful when the electrical supply is insufficient or when businesses want to block excessive and wasteful energy usage.



Active AI

Automatically optimizes to save energy

Active AI Pressure Control*

The optimal refrigerant condensing pressure is very important to ensure a stable cooling and heating performance. It needs to maintain a much higher pressure if the piping length is long or if there is a large difference in elevation, although the opposite is not the case. In reality, more than 90% of outdoor units are installed in a situation where the elevation is 30m or lower and the pipe length is 100m or shorter** (Figure 1). Using Active AI Pressure Control*, the DVM S2 recognizes both the piping length and the difference in elevation and learns the users' usage pattern and external temperature in real time. It then automatically adjusts the refrigerant condensing pressure accordingly, by up to 32% (Figure 2). As a result, it reduces the energy consumption by 15%*** when the condensing pressure is reduced by 12% (Figure 3).

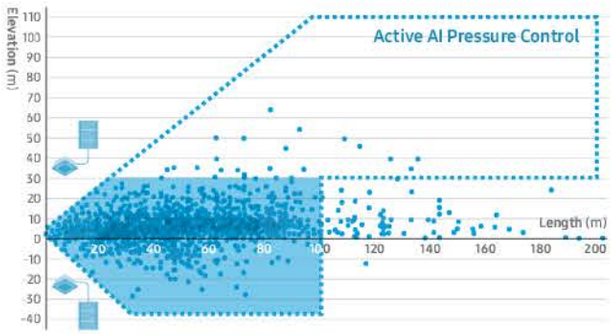


Figure 1. Installation sites by piping length and elevation*

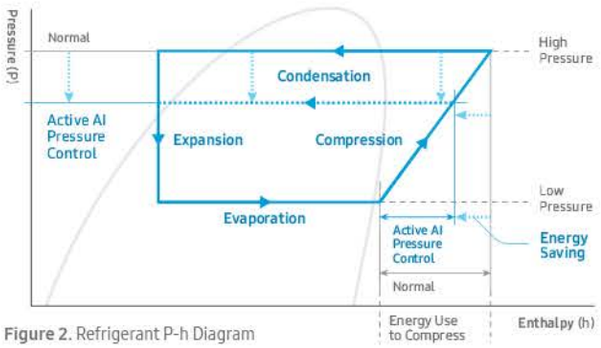


Figure 2. Refrigerant P-h Diagram

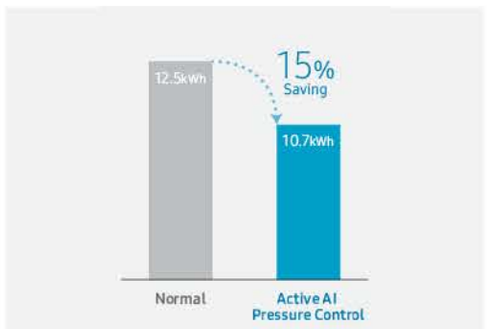


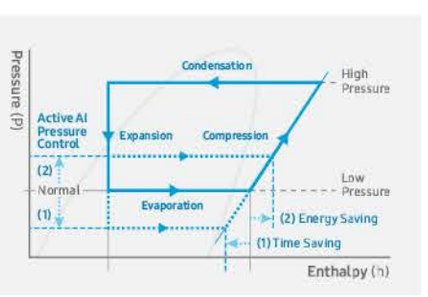
Figure 3. Cumulative energy consumption over 4 hours

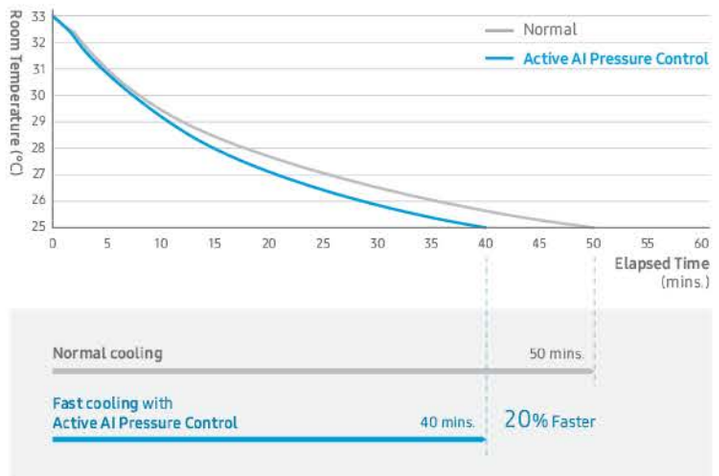
* Optionally available depending on the installation conditions. For detailed information, please refer to the installation manual.
** Based on internal analysis.
*** Based on internal testing with an AM080AXVGGH/EU outdoor unit connected to AM083NN4DBH1 and AM145NN4DBH1 indoor units with 25m of piping, using the cooling operation in Auto mode for 4 hours, with an external temperature of 30°C and a set temperature of 22°C. Results may vary depending on the actual installation and usage conditions, such as the piping length, elevation and external temperature.

Optimal cooling by learning usage patterns

Active AI Pressure Control

By learning usage patterns from recent cooling operations and the surrounding conditions, the DVM S2 proactively creates the optimal cooling environment to suit users' general requirements. For example: (1) If a user frequently lowers the room temperature when turning on the air conditioner, the Active AI Pressure Control recognizes this pattern. So, when the air conditioner is turned on again, it automatically lowers the pressure of the inflow refrigerant by up to 33% and cools up to 20% faster*. (2) However, if there's no need for fast cooling, it saves energy by adjusting the refrigerant pressure to be higher than normal.





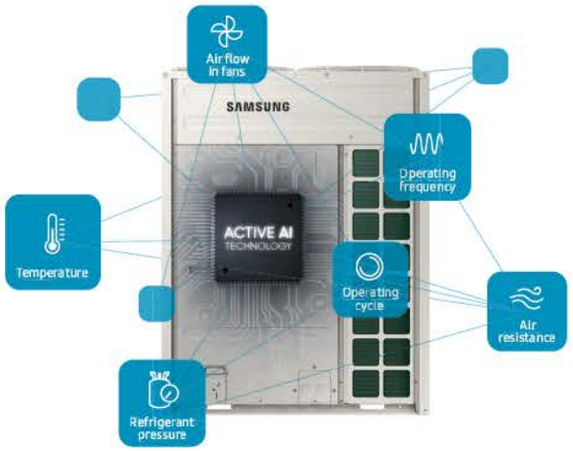
* Based on internal testing of the cooling operation, with the temperature set at 22°C and using Auto mode for 4 hours, at a room temperature of 33°C and an external temperature of 35°C. The tested model was an AM080AX-VGGH/EU connected to AM083NN4DBH1 and AM145NN4DBH1 indoor units with 25m of piping. The elapsed times were measured when the room temperature reached 25°C.

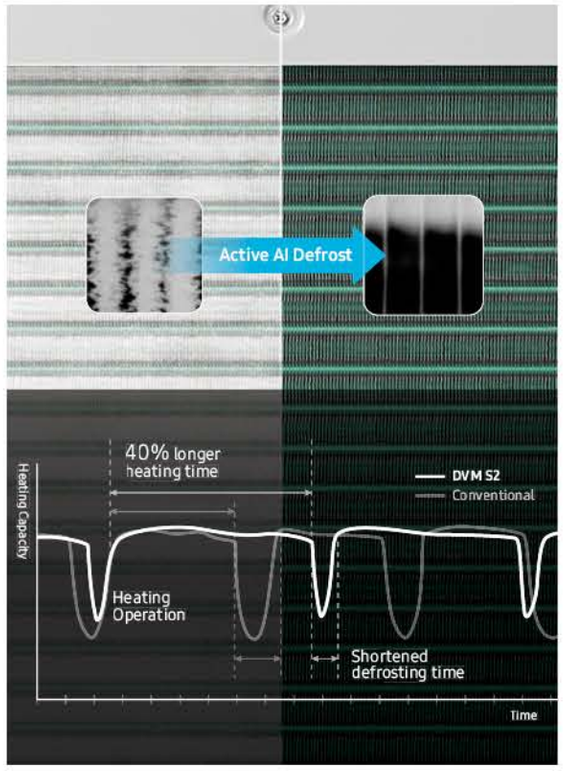
Active AI

Heats for longer with less defrosting

Active AI Defrost

The heating operation generally causes ice to build up on outdoor units, which may interfere with the heat exchange process. To remove any ice, air conditioning systems normally pause the heating and run a defrost operation, so the indoor environment feels less comfortable. Samsung's Active AI Defrost technology analyzes various operating data, including the system's air resistance, operating frequency and cycle, so it defrosts more precisely. As a result, it reduces wasted energy and increases the continuous heating time by up to 40%*.



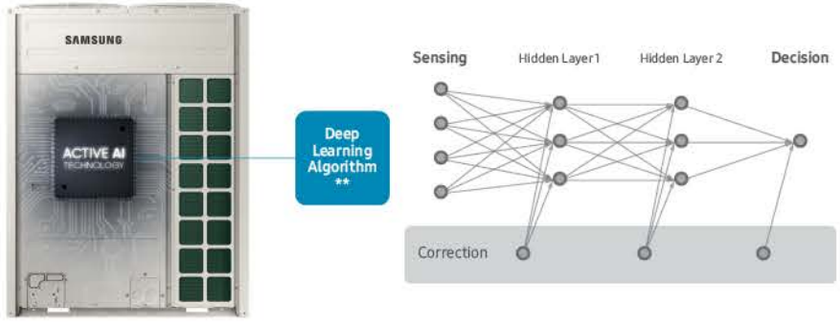


* Based on internal testing. Heating time at -10°C over a period of 6 hours: Samsung DVM S2 (AM240AXVAGH/EU) = 180 minutes vs. conventional outdoor unit = 110 minutes. Results may vary depending on environmental factors and individual use.

Maintains the optimal amount of refrigerant to ensure the best performance

Active AI Refrigerant Analysis

Shortage of refrigerant hinders the outdoor unit's cooling and heating performance as well as its energy efficiency. And, if refrigerant leaks out, due to any error in installation, operation or maintenance, it also impacts global warming and may even cause the system to stop working. Using Deep Learning technology*, the Active AI Refrigerant Analysis of the DVM S2 collects and analyzes various operational data in real time, and proactively alerts you with an error message if the amount of refrigerant is too low. So, an installer or a service engineer can maintain the optimal level of refrigerant.



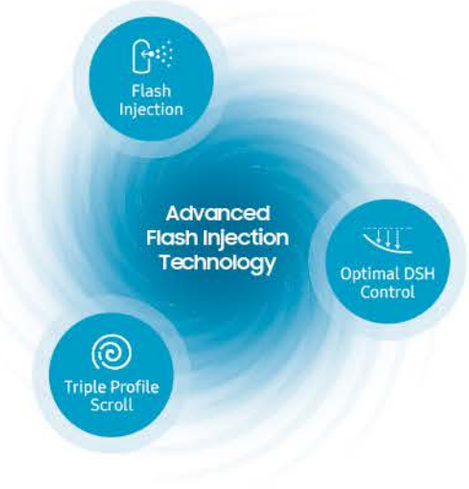
* A Machine Learning technology that uses an Artificial Neural Network (ANN) to learn like a human using various data.
** Based on a research thesis, "A novel hybrid deep neural network model to predict the refrigerant charge amount of heat pumps".

Advanced Flash Injection

Better heating performance with Advanced Flash Injection technology

Advanced Flash Injection Compressor

The compressor is the engine that makes a major contribution to the overall performance of an air conditioning system. Samsung has been developing core technologies to reinforce the power of its global-leading compressor. The result is the Samsung Advanced Flash Injection Compressor, which includes a host of brand-new innovations created by Samsung and provides the world's largest capacity*. By combining Flash Injection technology with a strengthened Triple Profile Wrap and Optimal Discharge Superheat (DSH) Control technology, the Samsung DVM S2 delivers a new level of comfort by maintaining pleasantly cool or warm conditions in every corner of a building all year round.



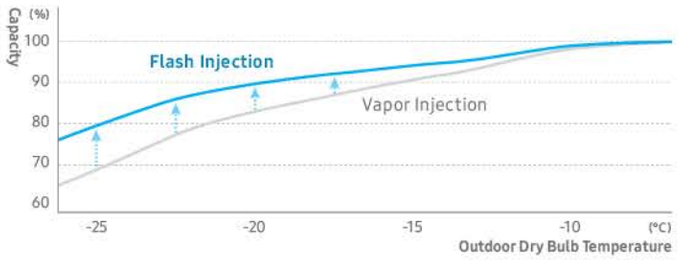
* Samsung circulates 14,400cc/sec refrigerant (= 90cc (displacement volume) x 160rps (revolutions per second)), while Company A circulates 12,480cc/sec (= 96cc x 130rps), Company B circulates 14,080cc/sec (= 88cc x 160rps) and Company C circulates 12,320cc/sec (=88cc x 140rps).

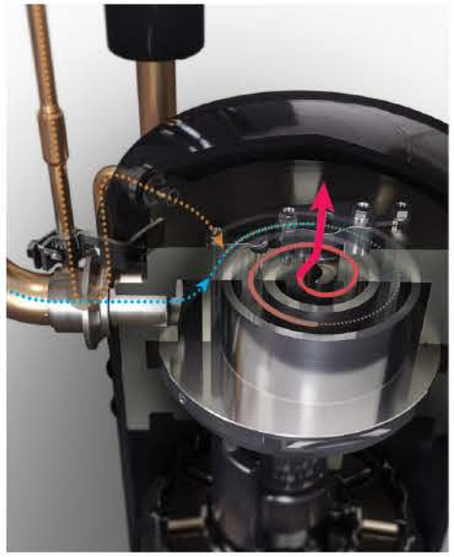
Advanced Flash Injection

Keeps on working well below freezing

Flash Injection

Stay comfortably warm when it's freezing outside. The performance of a general Heat Pump worsens in low temperatures as the refrigerant pressure decreases. The Samsung DVM S2 outdoor unit's Flash Injection Technology increases the flow of refrigerant, so the compressor continues working reliably. It also performs well at even lower temperatures, providing non-stop comfort in the coldest conditions.

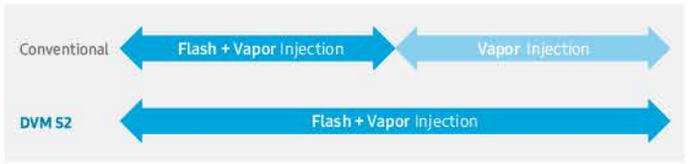




Optimally controls the degree of discharge superheat to improve both performance and efficiency

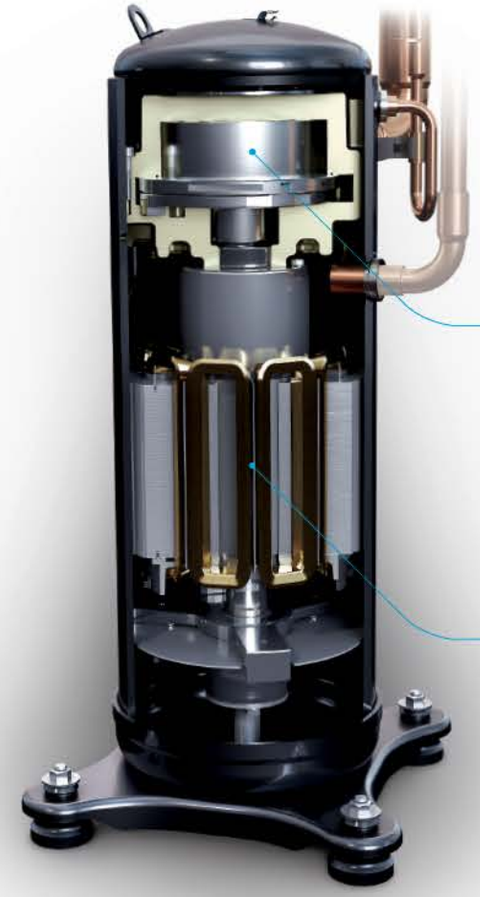
Optimal Discharge Superheat (DSH) Control

The heating load and external temperature are the two most influential factors on an outdoor unit's heating performance. So, the Samsung DVM S2 automatically adjusts the degree of discharge superheat to reflect any changes in them and heat more efficiently and effectively. This new method of control improves the heating performance by up to 15% and increases operational efficiency by 5% at -15°C*.



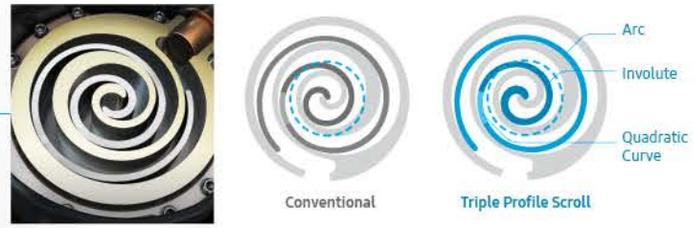
* Based on internal testing. Results may vary depending on environmental factors and individual use.

Super durability and speed create an unrivaled capacity

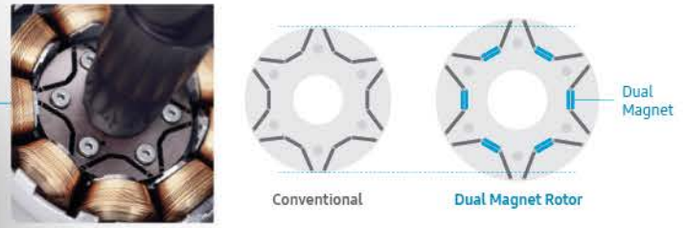


Triple Profile Scroll and Dual Magnet Rotor

In order to compress flash type ferfigerant and increase the total amount of compression, the compressor needs to have much better durability and rotaty power. The DVM S2 has a Triple Profile Scroll that combines arc, involute and quadratic curves to create a much larger chamber, and the strength of the center part is significantly reinforced with a thicker profile towards the middle.



And, its new motor also has a 11.4% enlarged rotor with many more magnets, which increases the rotary power by 10.8%*



As a result, it has an incredible 90cc compression chamber and operates at a superfast 160rps (revolutions per second), which operates at a superfast 160rps (revolutions per second), which combine to create the world's largest capacity**. So, it provides the exceptional reliability needed to keep rooms warm in severely cold weather.

* Based on internal testing, compared to a Samsung's conventional motor.
** Samsung circulates 14,400cc/sec refrigerant (= 90cc (displacement volume) x 160rps (revolutions per second)), while Company A circulates 12,480cc/sec (= 96cc x 130rps), Company B circulates 14,080cc/sec (= 88cc x 160rps) and Company C circulates 12,320cc/sec (=88cc x 140rps).

Proven Reliability of the Samsung Advanced Flash Injection Compressor

The Advanced Flash Injection Compressor of the DVM S2 has been certified with a Reliability Mark (R-Mark), organized by the Korea Reliability Certification Center, Korean Reliability Society.

[No. R-KORAS-2018-012] Inverter type (Variable Speed) scroll compressor

Certificate No. : R-KORAS-2018-012

Certificate of Reliability

Product : Inverter type(Variable Speed) scroll compressor
- Category/Purpose : Scroll/Refrigerant Compression
- Model : 65Pressed(Cooling capacity (43-80) kW, Power consumption (10-36)5 kW)
- Class : Product life 4.0×10⁴ hours (B, C1, 80%)

Company : Samsung Electronics Co., LTD.
Representative : Oh-Hyun Kwon
129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea
Assessment Standard : RS-KORAS-KIMM-FFQC018)
Assessment Institute : Korea Institute of Machinery & Materials
Expiration Date : March 29, 2018 ~ March 28, 2023 (5 Years)

This is to certify that the above mentioned product has been recognized as reliable product in accordance with the Article 24 of the operating regulation and the Article 11 of the bylaws of the Korea Reliability Certification Center.

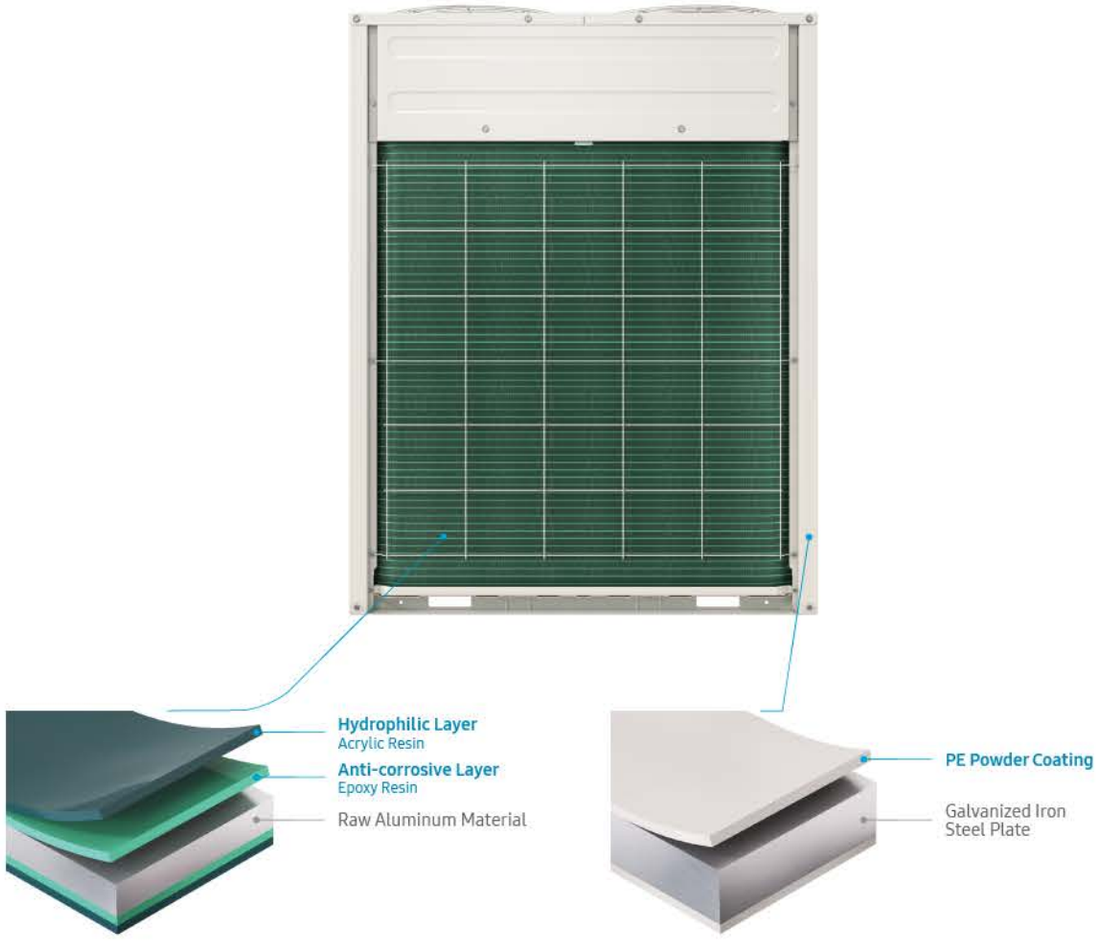
April 05, 2018

Administrator

Anti-Corrosion Technology / DuraFin Ultra

Lasting performance with enhanced resistance to corrosion

Corrosion-resistance is a very important factor in outdoor units, as they need to withstand a range of climate conditions. The Samsung DVM S2 features improved anti-corrosion capabilities on the heat exchanger and chassis to ensure maximum durability in harsh environments*.



Durafin Ultra™

The Samsung DVM S2 outdoor unit's Durafin™ Ultra has an anti-corrosive layer of epoxy acrylic and a hydrophilic layer of acrylic resin that disperses water and reinforces its corrosion-resistance. Its superb quality was proven using the Salt Spray Test (SST) over a period of 3,000 hours*.

Galvanized Iron Steel Plate (GI)

The Samsung DVM S2 uses Galvanized Iron Steel Plate as its external material, with a PE powder coating of up to 100μm thickness. This powerful combination is proven to improve corrosion-resistance by 43%, based on the Complex Cycle Test (CCT)**. So, it protects the cabinet from rusting and ensures it can endure harsh conditions.

* Based on testing by TUV Rheinland in accordance with ISO 9227, ISO 14993 and ISO 21207 using specimens from the heat exchanger and cabinet of the Samsung DVM S2. For more details, please contact Samsung's technical professionals.
** Based on internal testing using corrosion chambers, Q-FOG and CCT-1100. The Complex Cycle Test (CCT) includes cycles of spray (for 2 hours at 35°C), dry (for 4 hours at 60°C with 30% Relative Humidity) and damp (for 2 hours at 50°C with 95% Relative Humidity) conditions. As a result, the Galvanized Iron Steel Plate (GI) formed red rust after 240 hours, which is 43% slower than general Electro-Galvanized Steel Plate (EGI) which forms red rust after 168 hours.

WindFree™ Technology

Stay comfortably cool without feeling cold

WindFree™ Technology

WindFree™ Cooling efficiently maintains a comfortable level of coolness without the unpleasant feeling of direct cold wind. Cool air is gently dispersed through 23,000 micro holes, creating a comfortable environment while effectively reducing the risk of viral transmissions due to less movement and spread of droplets in the air.

Reduces energy use by 77%* to save money

WindFree™ Cooling (Energy Saving)

Save money every day with highly energy-efficient WindFree™ Cooling. When operating in WindFree™ mode, the outdoor unit consumes minimal power – using up to 77% less electricity compared to the Fast Cooling mode*. So you can stay comfortably cool without worrying about your electricity bills.

* Tested on the AR07T9170HA3 model, based on the power consumption of Fast Cooling mode vs. WindFree™ Cooling mode.

Product Line-Up at a Glance

Indoor units

Model	Product Image	Capacity (kW)																								
		1.5	1.7	2.2	2.8	3.2	3.6	4.5	5.0	5.6	6.0	7.1	8.2	9.0	9.3	10.0	11.2	12.8	14.0	16.0	18.0	20.0	22.4	25.0	28.0	44.8
360 Bladeless Cassette								●		●		●		●			●	●	●							
WindFree™ 4Way CST								●		●		●		●			●	●	●	●						
WindFree™ 4Way CST (600x600)		●		●	●		●	●		●	●															
WindFree™ 1Way CST			●	●	●		●			●		●														
2Way CST										●		●														
Duct							●	●		●		●		●			●	●	●							
Slim Duct			●	●	●		●	●		●		●		●			●	●	●							
Home Duct								●		●		●														
MSP Duct				●	●		●	●		●		●		●			●	●	●	●						
HSP Duct																	●	●	●				●		●	
OAP Duct																			●				●		●	
Big Duct																					●		●			
Ceiling										●		●					●		●							
Concealed Floor Standing				●	●		●	●		●																
Console							●			●		●														
Floor Standing																							●		●	
WindFree™ Wall Mounted		●		●	●		●	●		●		●	●													
Wall Mounted				●	●		●	●		●		●	●													
Wall Mounted Max															●											
Hydro Unit HE																			●						●	●
Hydro Unit HT																				●				●		
ERV Plus									●							●										

DVM S2 - High EER

Type / Combination	Capacity (HP)	Model Code
Unit		AM■■■AXVGNH/EA
	28	280
	26	260
	24	240
	22	220
	20	200
	18	180
	16	160
	14	140
	12	120
	10	100
	8	080

DVM S2 - Space Saving

Type / Combination	Capacity (HP)	Model Code
Unit		AM■■■AXVANC/EA
	34	340
	32	320
	30	300
	28	280
	26	260
	24	240
	22	220
	20	200
	18	180
	16	160
	14	140
	12	120
	10	100
	8	080

DVM S2 - High EER

Model Name				AM080AXVGNH/EA	AM100AXVGNH/EA	AM120AXVGNH/EA	AM140AXVGNH/EA
Power Supply			Φ, #, V, Hz	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60
Performance	HP		HP	8	10	12	14
	Capacity	Cooling	kW	22.4	28.0	33.6	40.0
Maximum number of connectable indoor units			EA	14	18	21	26
Total capacity of the connected Indoor Units		Min.	kW	11.2	14.0	16.8	20.0
		Max.	kW	29.1	36.4	43.7	52.0
Power	Power Input	Cooling	kW	4.84	6.29	8.77	10.68
	Current Input	Cooling	A	7.60	9.90	13.80	16.80
	MCA		A	19.0	23.0	26.0	29.0
	MFA		A	25	32	32	32
Efficiency | EER	Cooling		W/W	4.63	4.45	3.83	3.75
Compressor	Type		-	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1
	Output		kW × n	4.60 x 1	6.67 x 1	6.67 x 1	6.67 x 1
	Model Name		-	DS2GR7046FV* x 1	DS4GR7066FV* x 1	DS4GR7066FV* x 1	DS4GR7066FV* x 1
	Oil	Type	-	PVE	PVE	PVE	PVE
		Initial Charge	cc x n	900 x 1	1,100 x 1	1,100 x 1	1,100 x 1
Fan	Type		-	Propeller	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top	Top
	Quantity		EA	1	1	1	1
	Air Flow Rate		m³/min	174	188	205	201
	External Static Pressure	Max.	mmAq	11	11	8	8
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	630 x 1	630 x 1	630 x 1	630 x 1
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection	Braze connection
			Φ, mm (in)	9.52 (3/8)	9.52 (3/8)	12.70 (1/2)	12.70 (1/2)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection	Braze connection
			Φ, mm (in)	19.05 (3/4)	22.22 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	50	50	50
Refrigerant | R410A	Factory Charging		kg	5.5	5.5	6.2	7.0
Sound	Sound Pressure	Cooling	dB(A)	55	56	60	63
	Sound Power		dB(A)	75	78	81	85
External Dimensions	Net Weight		kg	171	183	187	200
	Net Dimensions (WxHxD)		mm	930 x 1,695 x 765	930 x 1,695 x 765	930 x 1,695 x 765	930 x 1,695 x 765
Operating Temp. Range	Cooling		℃	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50

AM160AXVGNH/EA	AM180AXVGNH/EA	AM200AXVGNH/EA	AM220AXVGNH/EA	AM240AXVGNH/EA	AM260AXVGNH/EA	AM280AXVGNH/EA
3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60
16	18	20	22	24	26	28
45.0	50.4	56.0	61.6	67.2	72.8	78.6
29	32	36	40	43	47	51
22.5	25.2	28.0	30.8	33.6	36.4	39.3
58.5	65.5	72.8	80.1	87.4	94.6	102.2
11.50	13.94	12.18	16.20	16.80	18.86	23.93
18.00	21.70	19.60	26.20	26.40	30.00	17.61
34.0	39.2	43.0	44.6	55.0	60.0	61.0
40	50	50	50	63	75	75
3.91	3.62	4.60	3.80	4.00	3.86	3.28
Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 2
8.93 x 1	8.93 x 1	8.93 x 1	6.67 x 2	6.67 x 2	6.67 x 2	6.67 x 2
DS4GM7090FV* x 1	DS4GM7090FV* x 1	DS4GM7090FV* x 1	DS4GR7066FV* x 2	DS4GR7066FV* x 2	DS4GR7066FV* x 2	DS4GR7066FV* x 2
PVE	PVE	PVE	PVE	PVE	PVE	PVE
1,400 x 1	1,400 x 1	1,400 x 1	1,100 x 2	1,100 x 2	1,100 x 2	1,100 x 2
Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
Top	Top	Top	Top	Top	Top	Top
2	2	2	2	2	2	2
293	313	330	330	344	353	353
11	11	11	11	8	8	8
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2
Braze connection	Braze connection	Braze connection	Braze connection	Braze connection	Braze connection	Braze connection
12.70 (1/2)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)
Braze connection	Braze connection	Braze connection	Braze connection	Braze connection	Braze connection	Braze connection
28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)
200[220]	200[220]	200[220]	200[220]	200[220]	200[220]	200[220]
90	90	90	90	90	90	90
1,000	1,000	1,000	1,000	1,000	1,000	1,000
110	110	110	110	110	110	110
110	110	110	110	110	110	110
50	50	50	50	50	50	50
8.0	8.0	10.5	10.5	14.0	14.0	14.0
59	59	61	64	65	65	65
81	81	84	86	87	87	87
234	234	259	292	317	317	317
1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765
-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50

DVM S2 - Space Saving

Model Name				AM080AXVANC/EA	AM100AXVANC/EA	AM120AXVANC/EA	AM140AXVANC/EA	AM160AXVANC/EA
Power Supply			Φ, #, V, Hz	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60
Performance	HP		HP	8	10	12	14	16
	Capacity	Cooling	kW	22.4	28.0	33.6	40.0	45.0
Maximum number of connectable indoor units			EA	14	18	21	26	29
Total capacity of the connected Indoor Units		Min.	kW	11.2	14.0	16.8	20.0	22.5
		Max.	kW	29.1	36.4	43.7	52.0	58.5
Power	Power Input	Cooling	kW	4.84	6.29	8.77	10.68	11.50
	Current Input	Cooling	A	7.60	9.90	13.80	16.80	18.00
	MCA		A	19.0	23.0	26.0	29.0	34.0
	MFA		A	25	32	32	32	40
Efficiency | EER	Cooling		W/W	4.63	4.45	3.83	3.75	3.91
Compressor	Type		-	Inverter Scroll x1	Inverter Scroll x1	Inverter Scroll x1	Inverter Scroll x1	Inverter Scroll x1
	Output		kW × n	4.39 x1	6.67 x1	6.67 x1	6.67 x1	8.93 x1
	Model Name		-	DS2GR7046FV* x1	DS4GR7066FV* x1	DS4GR7066FV* x1	DS4GR7066FV* x1	DS4GM7090FV* x1
	Oil	Type	-	PVE	PVE	PVE	PVE	PVE
		Initial Charge	cc x n	900 x1	1,100 x1	1,100 x1	1,100 x1	1,400 x1
Fan	Type		-	Propeller	Propeller	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top	Top	Top
	Quantity		EA	1	1	1	1	2
	Air Flow Rate		m³/min	174	188	205	201	293
	External Static Pressure	Max.	mmAq	11	11	8	8	11
Fan Motor	Type		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
	Output		W x n	630 x1	630 x1	630 x1	630 x1	620 x 2
Piping Connections	Liquid Pipe		Type	Braze connection	Braze connection	Braze connection	Braze connection	Braze connection
			Φ, mm (in)	9.52 (3/8)	9.52 (3/8)	12.70 (1/2)	12.70 (1/2)	12.70 (1/2)
	Gas Pipe		Type	Braze connection	Braze connection	Braze connection	Braze connection	Braze connection
			Φ, mm (in)	19.05 (3/4)	22.22 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
	Piping length (ODU-IDU)	Max. [Equiv.]	m	200[220]	200[220]	200[220]	200[220]	200[220]
	Piping length (1st Branch-IDU)	Max.	m	90	90	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000	1,000	1,000
	Level difference (ODU in highest position)	Max.	m	110	110	110	110	110
	Level difference (IDU in highest position)	Max.	m	110	110	110	110	110
	Level difference (IDU-IDU)	Max.	m	50	50	50	50	50
Refrigerant | R410A	Factory Charging		kg	5.5	5.5	6.2	7.0	8.0
Sound	Sound Pressure	Cooling	dB(A)	55	56	60	63	59
	Sound Power		dB(A)	75	78	81	85	81
External Dimensions	Net Weight		kg	173	183	186	202	237
	Net Dimensions (WxHxD)		mm	930 x1,695 x765	930 x1,695 x765	930 x1,695 x765	930 x1,695 x765	1,295 x1,695 x765
Operating Temp. Range	Cooling		℃	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50

AM180AXVANC/EA	AM200AXVANC/EA	AM220AXVANC/EA	AM240AXVANC/EA	AM260AXVANC/EA	AM280AXVANC/EA	AM300AXVANC/EA	AM320AXVANC/EA	AM340AXVANC/EA
3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60
18	20	22	24	26	28	30	32	34
50.4	56.0	61.6	67.2	72.8	78.6	84.0	89.6	95.2
32	36	40	43	47	51	54	58	61
25.2	28.0	30.8	33.6	36.4	39.3	42.0	44.8	47.6
65.5	72.8	80.1	87.4	94.6	102.2	109.2	116.5	123.8
13.94	12.18	16.20	16.80	18.86	23.93	26.84	27.57	31.73
21.70	19.60	26.20	26.40	30.00	38.00	42.10	43.40	49.90
39.2	43.0	44.6	55.0	60.0	61.0	68.6	68.6	73.0
50	50	50	63	75	75	75	75	80
3.62	4.60	3.80	4.00	3.86	3.28	3.13	3.25	3.00
Inverter Scroll x1	Inverter Scroll x1	Inverter Scroll x2	Inverter Scroll x2	Inverter Scroll x2	Inverter Scroll x2	Inverter Scroll x2	Inverter Scroll x2	Inverter Scroll x2
8.93 x1	8.93 x1	6.67 x2	6.67 x2	6.67 x2	6.67 x2	8.93 x2	8.93 x2	8.93 x2
DS4GM7090FV* x1	DS4GM7090FV* x1	DS4GR7066FV* x2	DS4GR7066FV* x2	DS4GR7066FV* x2	DS4GR7066FV* x2	DS4GM7090FV* x2	DS4GM7090FV* x2	DS4GM7090FV* x2
PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE	PVE
1,400 x1	1,400 x1	1,100 x2	1,100 x2	1,100 x2	1,100 x2	1,400 x2	1,400 x2	1,400 x2
Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
Top	Top	Top	Top	Top	Top	Top	Top	Top
2	2	2	2	2	2	2	2	2
313	342	330	344	353	353	353	412	412
11	11	11	8	8	8	8	8	8
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	630 x 2	630 x 2
Braze connection	Braze connection	Braze connection	Braze connection	Braze connection	Braze connection	Braze connection	Braze connection	Braze connection
15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)	19.05 (3/4)
Braze connection	Braze connection	Braze connection	Braze connection	Braze connection	Braze connection	Braze connection	Braze connection	Braze connection
28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)	34.92 (1-3/8)
200[220]	200[220]	200[220]	200[220]	200[220]	200[220]	200[220]	200[220]	200[220]
90	90	90	90	90	90	90	90	90
1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000
110	110	110	110	110	110	110	110	110
110	110	110	110	110	110	110	110	110
50	50	50	50	50	50	50	50	50
8.0	10.5	10.5	11.0	11.0	11.0	11.0	12.5	12.5
59	61	64	65	65	65	65	65	66
81	84	86	87	87	87	87	87	88
237	264	298	310	310	310	322	375	375
1,295 x1,695 x765	1,295 x1,695 x765	1,295 x1,695 x765	1,295 x1,695 x765	1,295 x1,695 x765	1,295 x1,695 x765	1,295 x1,695 x765	1,860 x1,695 x765	1,860 x1,695 x765
-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50

SAMSUNG

Moving ahead and with our customers

At Samsung Electronics, we're committed to helping our customers, partners and employees discover new experiences and possibilities. Across all our businesses, we're inspired by the changing world around us to create new technologies for consumers. From products that are designed to keep pace with how we live our lives to the core components that make it all possible.

Samsung Air Conditioning

DVM S ECO

The **DVM S Eco** air conditioning system is a compact, lightweight and efficient outdoor unit that is suitable for a wide range of homes and small businesses. It is available in capacities of 3HP to 14HP, option of Single Phase for 3HP to 6HP.

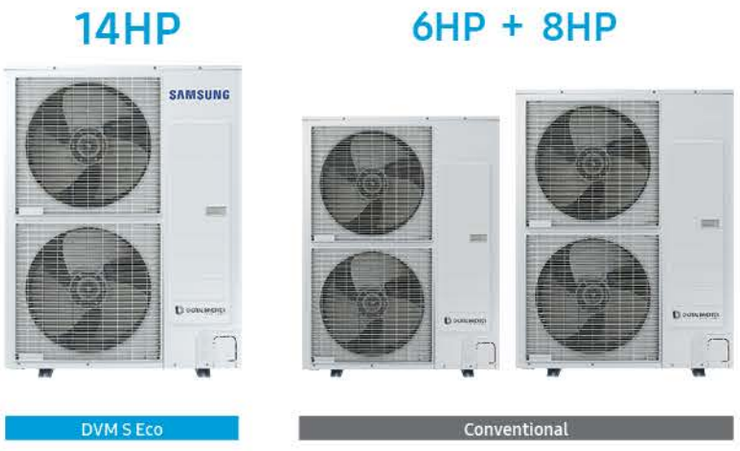
The most compact air conditioner in its class, making it very easy and economical to install and operate without compromising on performance. It also leaves plenty of extra space that can be used for other purposes.

Best in Class Capacity

Provides more coverage, but takes up less space. It has the largest capacity in its class of 14 HP, enabling you to create a small footprint VRF solution. So it's ideal for installation in places with limited space.

Efficient Space Use

Optimising space is always a key business consideration. The DVM S Eco has a small compact design with a significantly reduced footprint. With a Single DVM S Eco 14 HP outdoor unit, users can experience the same cooling performance as that of the two 6 HP + 8 HP outdoor units, making it even more of a convenient space-saving option for offices or homes. This not only makes installation easier, but also frees up valuable space while continuing to produce superior quality cooling performance.

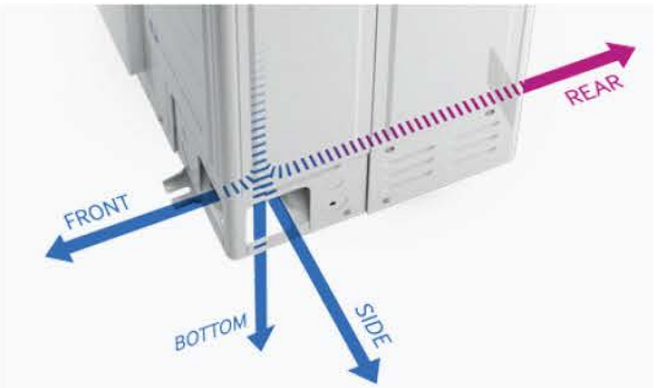


Easy Installation

Samsung's DVM S Eco offers flexible installation and easy maintenance for any space.

Connects more, fits more

The DVM S Eco has a 4-Way piping system, with connections at the front, side, bottom, rear, and a 160m piping length, so it fits into many more places, including small and narrow spaces, and is easier to install and maintain.



Compact Size

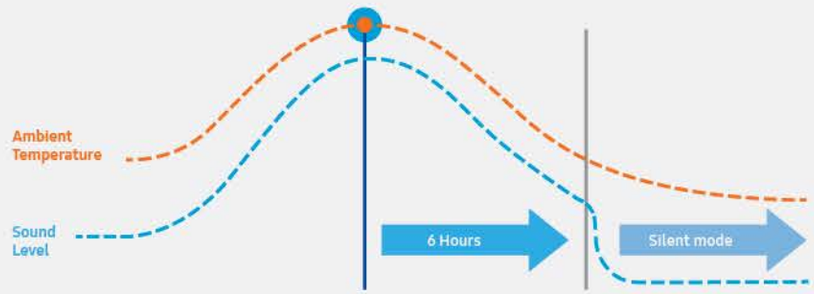
At less than 1m in height and with 30% less weight, space utilization and installation options are maximised.

Flexible Piping Design

Thanks to its extended piping length, the DVM S Eco offers maximum flexibility when it comes to deployment. It allows for a level difference of up to 50m between indoor and outdoor units, and a pipe length up to 160m. This generous variation lets businesses customise systems to operate efficiently in a wide range of situations.

Ultra-Quiet Operation

By producing less noise than conventional models, the DVM S ECO imposes fewer distractions on residential and working environments. Its compact, unimposing design and specially shaped fan blades help reduce sound levels by up to 5 decibels. Plus, its quiet operation during the night time creates a



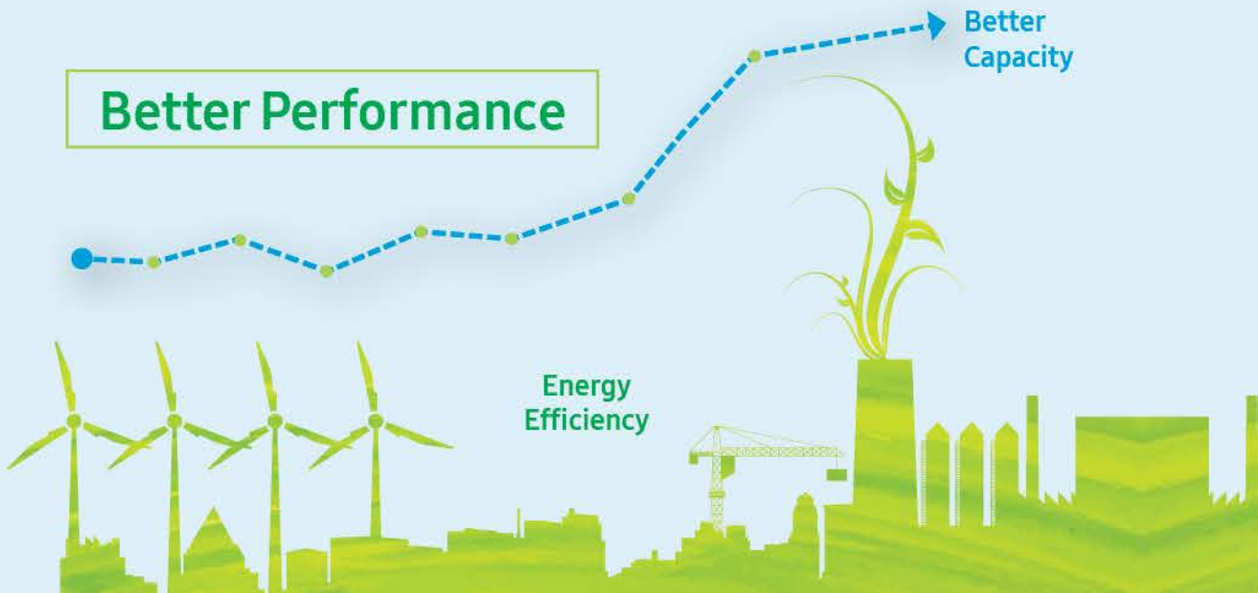
Corrugated Fin

Inverter Scroll
Compressor
(8HP ~ 14HP)

Twin BLDC Rotary
Compressor
(3HP ~ 6HP)

High Energy Efficiency Performance

Samsung DVM S Eco includes an innovative Digital Inverter Compressor, an optimised heat exchanger with corrugated fins and highly efficient fans that delivers world-class energy efficiency for today's eco and budget-conscious business.



Economical Twin BLDC Rotary compressor

3HP ~ 6HP

The use of robust materials for the DVM S Eco ensures reliability at high speed operation, while ensuring optimal oil supply and control, maximising efficiency and value.

Inverter Scroll Compressor

8HP ~ 14HP

Typical heat pumps work poorly at low ambient temperatures, because decreased refrigerant flow results in refrigerant pressure drop, thereby reducing heating capacity. When reduced heating capacity is insufficient to match building load, COP degrades significantly. The Inverter Scroll Compressor features an innovative Intercooler to ensure compression stays high, even at low outdoor temperatures.

Compact design for extra flexibility

The most compact air conditioner in its class, making it very easy and economical to install and operate without compromising on performance. It also leaves plenty of extra space that can be used for other purposes.

Control your cooling anywhere

An optional Wi-Fi Kit lets you remotely control indoor units using a smartphone App. Anytime and anywhere you can turn them on and off, select the operating mode and temperature, and utilize their other functions.

* sold separately.

Product Line-Up at a Glance

Outdoor units

Capacity (HP)		4, 5, 6
Product		 Space Saving Single Fan Standard
Model	1 phase	AM040HXMDBC/TC AM050HXMDBC/TC AM060TXMDKC/TC

Outdoor units

Capacity (HP)		8	10, 12, 14
Product		High Efficiency 	High Efficiency 
Model	3 phase	AM080MXMDGC/TL	AM100TXMDNC/TL AM120TXMDNC/TL AM140TXMDNC/TL

DVM S Eco - Single Phase

Heat Pump 60Hz

Model Name				AM040HXMDBC/TC	AM050HXMDBC/TC	AM060TXMDKC/TC
Power Supply			Φ, #, V, Hz	1,2,220,60	1,2,220,60	1,2,220-240,50/60
Performance	HP		HP	4	5	6
	Capacity	Cooling	kW	11.0	14.5	15.5
Power	Power Input	Cooling	kW	2.8	3.9	4.65
	Current Input	Cooling	A	13.5	19.0	23.1
	MCA		A	22.0 (Max)	24.0 (Max)	30.0
	MFA		A	30	30	40
COP	Cooling		W/W	3.93	3.72	3.33
Compressor	Output		kW × n	4.12	4.12	4.04 x1
	Oil	Type	-	PVE	PVE	PVE
		Initial Charge	cc	1700	1700	1700
Fan	Output x n		W	125 x1	125 x1	139 x1
	Air Flow Rate		CMM	60	60	75
Piping Connections	Liquid Pipe		Φ, mm (inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
	Gas Pipe		Φ, mm (inch)	15.88 (5/8")	15.88 (5/8")	19.05 (3/4")
	Installation	Max. Length	m	70	70	50(65)
		Max. Height	m	30	30	40
Refrigerant | R410A	Factory Charging		kg	2.0	2.0	2.5
Sound	Sound Pressure	Cooling/Heating	dB(A)	- / -	- / -	55 / -
External Dimensions	Net Weight		kg	76	76	84
	Net Dimensions (WxHxD)		mm	940 x 998 x 330	940 x 998 x 330	940 x 998 x 330
Operating Temp. Range	Cooling		℃	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0

DVM S Eco - Three Phase

Heat Pump 60Hz

AM100TXMDNC/TL	AM120TXMDNC/TL	AM140TXMDNC/TL	AM080MXMDGC/TL
3, 4, 380-415, 50/60	3, 4, 380-415, 50/60	3, 4, 380-415, 50/60	3,4,380-415,50
10	12	14	8
29	33.6	40	22.4
7.3	8.77	10.59	6.9
11.7	13.74	16.48	11.7
21.50 (Max.)	23.50 (Max.)	32.00 (Max.)	18.4
30	30	40	25
3.97	3.83	3.78	3.25
(5.18) x1	(6.39) x1	(6.76) x1	4.78
PVE	PVE	PVE	PVE
1200	1200	1200	1700
244 x 2	244 x 2	244 x 2	139 x 2
190	201	201	135
9.52 (3/8")	12.7 (1/2")	12.7 (1/2")	9.52 (3/8")
22.22 (7/8")	28.58 (1 1/8")	28.58 (1 1/8")	19.05 (3/4")
160	160	160	100
50	50	50	30
3.7	4.3	4.8	3.7
58	61	62	59
143	153	160	115
940 x 1,630 x 460	940 x 1,630 x 460	940 x 1,630 x 460	940 x 1,420 x 330
-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0

Air Purifying Panel

Even more comfort with even cleaner air

Integrated air purifier in air conditioner unit - Air conditioning and air purifying all at once. With this new air purifying panel you can assure that indoor air quality is safe even in high foot traffic establishments such as retail outlets, restaurants, cafés, and offices.

*Purifying panels are certified by the Korea Air Cleaning Association

Fresher & Cleaner Indoor Air

Pure air, always there

Enjoy fresher & cleaner indoor air with the purification panel that comes with two types of filters : Pre-Filter & PM1.0 Filter
The PM1.0 Filter sterilizes up to 99% of microorganisms that are collected in the filter, as verified by Intertek.*

* Tested at test lab in Korea for sterilization performance. Data has been measured under specific testing conditions and may vary depending on environmental factors and individual use.

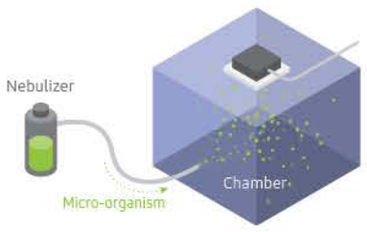
High Cleaning Performance

Fast cleaning in large areas

With large cleaning area of up to 157 sqm, and high CADR of up to 19.9m3/min, it cleans air fast and powerfully, even in large spaces like offices & restaurants.

Based on 14kW models.
CADR : Clean Air Delivery Rate , Cleaning area : The area with height 2.4m & air purifier can reduce air pollution ratio by 50% in 10mins.

Thorough Purification



Removes up to 91% ultra-fine dust

As a result of the Purification Test* that was conducted in a classroom, 58% of ultra-fine dust were removed after Purification operation for 10 minutes, and up to 91% of ultra-fine dust were removed after Purification operation of 30 minutes.

PC6EUCMAN (Purifying Panel)

360 Cassette

PC4NUCEAN (Purifying Panel)

4Way Cassette

PC1BWCMAN (Purifying Panel) | **PC1NWCMAN** (Purifying Panel)

1Way Cassette

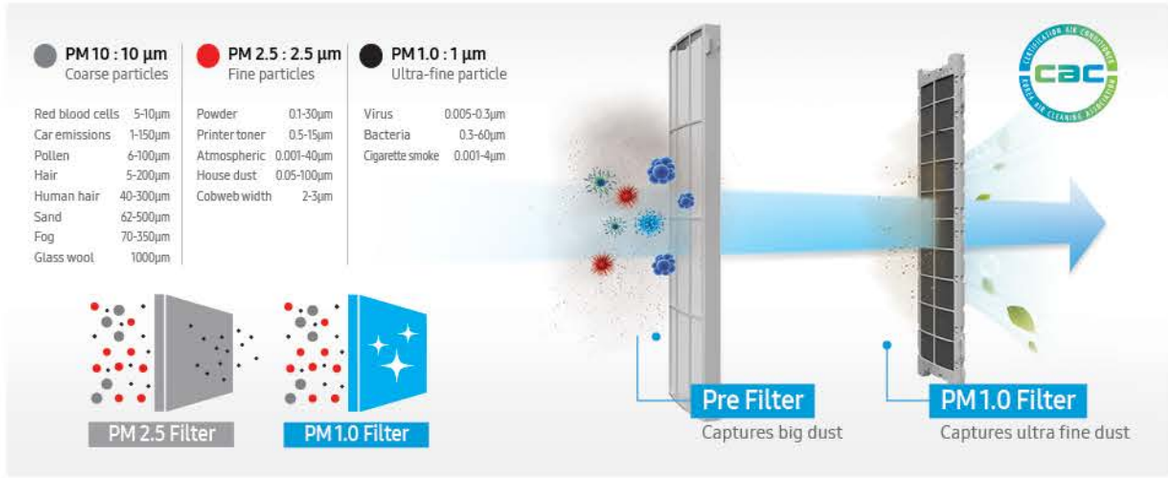
intertek
Total Quality. Assured.

More than 99% of the microorganisms, such as Escherichia coli and Staphylococcus aureus, in the PM1.0 filter were destroyed by static electricity.

Intertek is a British multinational company specializing in product assurance, inspection, testing and certification. This test was rigorously conducted by Intertek, and the test result was reported officially.

Air Purifier PM 1.0 Filter

PM 1.0 Filter works just like a stand-alone air purifier. Equipped with Electrostatic Chargers, this filter captures and destroys ultra fine particles with its 99% cleaning efficiency. Be assured that the air you breathe is free from dusts, bacteria, viruses, and other harmful substances suspended invisibly in the air.



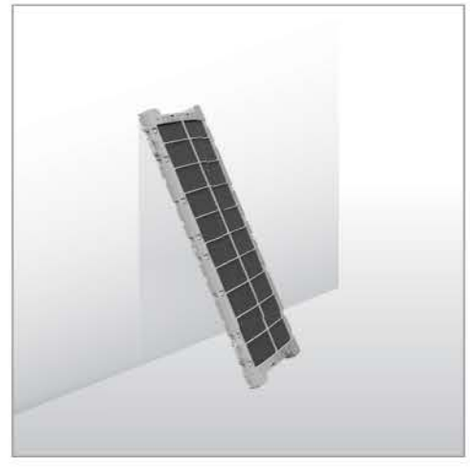
99% Anti-bacteria

99% Anti-virus

98% Anti-allergy

PM 1.0 Filter is washable and reusable. It is the great advantage of enjoying fresh and clean air with saving extra maintenance cost to replace a new filter.

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



360 Cassette

Samsung's 360 Bladeless Cassette's elegant design integrates into any space. This unique cassette features a stylish panel, an intuitive display so users can monitor their airflow settings, and Samsung's Patented Booster Fan technology.

Circular to Fit Perfectly Everywhere

Users have a choice of either black or white, square or round panel, to fit the air conditioner within the ceiling or exposed, and with any finishing such as wood, concrete, wallpaper and paint, offering ultimate flexibility to suit the style of any room.

Comfortable Cooling, Cold Draft Free

A bladeless design softly disperses cool air across the room, making you comfortably cool without feeling a cold draft**. With no blades to block the airflow, it also expels 25% more air* and spreads it farther.

*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.

Model			AM009KN4DCH/AA	AM012KN4DCH/AA	AM018KN4DCH/AA	AM024KN4DCH/AA	AM030KN4DCH/AA	AM036KN4DCH/AA	AM048KN4DCH/AA
Power Supply		Φ, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60
Capacity	Cooling	kW	2.6	3.5	5.3	7.0	8.8	10.5	14.0
	Heating	kW	2.9	3.9	5.8	7.9	9.9	11.6	15.8
Power Input	Cooling	W	26.0	26.0	26.0	38.0	54.0	71.0	91.0
	Heating	W	26.0	26.0	26.0	38.0	54.0	71.0	91.0
Current Input	Cooling	A	0.18	0.18	0.18	0.28	0.42	0.57	0.75
	Heating	A	0.18	0.18	0.18	0.28	0.42	0.57	0.75
Air Flow Rate	H/M/L (UL)	CMM	16.0 / 15.0 / 14.0	16.0 / 15.0 / 14.0	16.0 / 15.0 / 14.0	19.0 / 16.5 / 14.5	25.5 / 22.5 / 20.0	28.0 / 25.0 / 22.0	31.5 / 27.0 / 24.0
Liquid Pipe		Φ,mm (inch)	6.35 (1/4")	6.35 (1/4"	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
Gas Pipe		Φ,mm (inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Pressure	H/M/L	dB(A)	33 / 31 / 29	33 / 31 /29	33 / 31 / 29	38 / 35 / 32	40 /38 / 36	43 / 40 / 38	44 / 42 / 39
Unit Net Weight		kg	21.0	21.0	21.0	21.0	24.0	24.0	24.0
Unit Net Dimensions (WxHxD)		mm	947 x 281 x 947	947 x 281 x 947	947 x 281 x 947	947 x 281 x 947	947 x 365 x 947	947 x 365 x 947	947 x 365 x 947
Panel Model		-	PC6EUCMAN	PC6EUCMAN	PC6EUCMAN	PC6EUCMAN	PC6EUCMAN	PC6EUCMAN	PC6EUCMAN
Panel Net Weight		kg	3.6	3.6	3.6	3.6	3.6	3.6	3.6
Panel Net Dimensions (WxHxD)		mm	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000	1000 x 66 x 1000

Controller (Optional)

AR-KH03E
Wireless Remote Controller

MWR-WE13N
Wired Remote Controller

MWR-SH10N
Wired Remote Controller - Touch Simple Type

Panel (Optional)

PC4NUDMAN
White Square Panel

PC4NUNMAN
White Round Panel

PC4NBDMAN
Black Square Panel

PC4NBNMAN
Black Round Panel

PC6EUCMAN
Purifying Panel

WindFree™ 1-Way Cassette

WindFree™ Cooling effectively maintains a comfortable level of coolness without the unpleasant feeling of cold wind. Cool air is gently dispersed through 13,000* micro air holes, so you don't feel too hot or cold.

Wider Cooling Range

The large, optimised blades can deliver cool air up to 8m with a wider operating angle, resulting in rapid, even cooling. In this way, a room can be cooled much faster and with no dead zones.

8m, range based on 7.1kW large model.

*PC1MWFMAN: 7,534 Micro Air Holes
PC1NWFMAN: 10,454 Micro Air Holes
PC1BWFMAN: 13,961 Micro Air Holes

Model			AM009AN1PCH/AA	AM012AN1PCH/AA	AM015AN1PCH/AA	AM018AN1PCH/AA	AM024AN1PCH/AA
Power Supply		Φ, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60
Capacity	Cooling	kW	2.78	3.52	4.4	5.28	7.03
	Heating	kW	3.08	3.96	4.98	5.86	7.91
Power Input	Cooling	W	45.0	50.0	54.0	55.0	80.0
	Heating	W	45.0	50.0	54.0	55.0	80.0
Current Input	Cooling	A	0.23	0.25	0.26	0.28	0.4
	Heating	A	0.23	0.25	0.26	0.28	0.4
Air Flow Rate	H/M/L (UL)	CMM	7.00 / 6.00 / 5.00	8.00 / 7.00 / 6.00	11.10 / 10.70 / 9.70	16.00 / 14.00 / 12.50	17.00 / 15.50 / 14.00
Liquid Pipe		Φ,mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")
Gas Pipe		Φ,mm (inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")
Sound Pressure	H/M/L	dB(A)	32 / 28 / 24	35 / 32 / 28	40 / 37 / 34	41 / 38 / 35	43 / 40 / 37
Unit Net Weight		kg	9.7	9.7	13.7	13.7	13.7
Unit Net Dimensions (WxHxD)		mm	970 x 135 x 410	970 x 135 x 410	1200 x 138 x 450	1200 x 138 x 450	1200 x 138 x 450
Panel model		-	PC1NWCMAN	PC1NWCMAN	PC1BWCMAN	PC1BWCMAN	PC1BWCMAN
Panel Net Weight		kg	4.3	4.3	5.0	5.0	5.0
Panel Net Dimensions (WxHxD)		mm	1198 x 35 x 500	1198 x 35 x 500	1410 x 36 x 500	1410 x 36 x 500	1410 x 36 x 500

Controller (Optional)

AR-EH03E
Wireless Remote Controller

MWR-WE13N
Wired Remote Controller

MWR-SH10N
Wired Remote Controller - Touch Simple Type

Panel (Optional)

PC1BWFMAN
Standard Panel
For 5.6~7.1kw

PC1NWFMAN
Standard Panel
For 2.2~3.6 kw

PC1BWCMAN
Purifying Panel
For 5.6~7.1kw

PC1NWCMAN
Purifying Panel
2.2~3.6 kw

WindFree™ 4-Way Cassette*

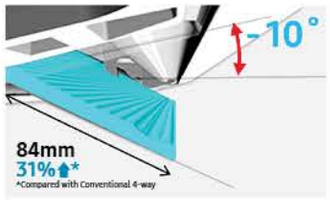
Samsung's WindFree™ 4-Way Cassette is the latest in air conditioning innovation. With its specialised blades, adjustable operation and seamless blend of style and utility, the 4-way Cassette can enact efficiency and sustain cooling comfort in a plethora of environments.

Wind-FreeTM Cooling with Micro Holes

The Wind-FreeTM 4-Way Cassette pushes air out through 15,700 micro holes in the panel, producing a dispersed and gentle flow called "still air"* which keeps a room with no cold drafts.

Wider Cooling Range

The large, optimised blades enable a far wider cooling range so a room can be cooled much faster and with no dead zones.



*ASHRAE (American Society of Heating, Refrigeration, and Air-Conditioning Engineers) defines "Still Air" as air currents at speeds below 0.15m/s which lack the presence of cold drafts.

Model			AM009NN4DCH/AA	AM012NN4DCH/AA	AM018NN4DCH/AA	AM024NN4DCH/AA	AM030NN4DCH/AA	AM036NN4DCH/AA	AM048NN4DCH/AA	AM170TN4DKH/EA
Power Supply		Φ, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,220-240,50/60
Capacity	Cooling	kW	2.64	3.52	5.28	7.03	8.79	10.55	14.07	17.0
	Heating	kW	2.93	3.96	5.86	7.91	9.96	11.72	15.83	19.0
Power Input	Cooling	W	32.0	32.0	32.0	40.0	65.0	75.0	95.0	98.0
	Heating	W	32.0	32.0	32.0	40.0	65.0	75.0	95.0	98.0
Current Input	Cooling	A	0.25	0.25	0.25	0.30	0.50	0.56	0.75	0.83
	Heating	A	0.25	0.25	0.25	0.30	0.50	0.56	0.75	0.83
Air Flow Rate	H/M/L (UL)	CMM	15.5 / 14.0 / 12.0	15.5 / 14.0 / 12.0	15.5 / 14.0 / 12.0	17.5 / 16.0 / 14.0	22 / 19.5 / 17.0	24.0 / 22.0 / 20.0	29.0 / 27.0 / 24.0	34.0 / 29.0 / 26.0
Liquid Pipe		Φ,mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
Gas Pipe		Φ,mm (inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	19.05 (3/4")
Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Pressure	H/M/L	dB(A)	32 / 30 / 28	32 / 30 / 28	32 / 30 / 28	35 / 32 / 28	41 / 37 / 31	40 / 39 / 36	45 / 42 / 39	45 / 43 / 40
Unit Net Weight		kg	15.0	15.0	15.0	18.5	18.5	18.5	18.5	25.0
Unit Net Dimensions (WxHxD)		mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	840 x 288 x 840	840 x 288 x 840	840 x 288 x 840	840 x 372x 840
Panel model		-	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUFMAN	PC4NUSKAN / PC4NUCEAN
Panel Net Weight		kg	6.3	6.3	6.3	6.3	6.3	6.3	6.3	5.8
Panel Net Dimensions (WxHxD)		mm	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 64 x 950	950 x 45x 950

*Available in Standard 4-Way Cassette, Panel Model: PC4NUSKAN / PC4NUSKEN / PC4NBSKAN

Controller (Optional) | Panel (Optional)

AR-EH03E Wireless Remote Controller
MWR-WE13N Wired Remote Controller
MWR-SH10N Wired Remote Controller - Touch Simple Type
PC4NUFMAN Wind-Free™ Panel
PC4NUSKAN 4-way Cassette S (Waffle)
PC4NUSKEN 4-way Cassette S (Classic)
PC4NBSKAN 4-way Cassette S (Waffle, Black)
PC4NUCEAN Purifying Panel

WindFree™ 4-Way Cassette (600x600)*

Hands-free Comfort

A 2-Step Cooling system cools air fast in Fast Cooling mode, before automatically switching to WindFree™ Cooling to maintain the desired temperature. This way you stay comfortable without a need to change settings.

Smart Comfort Cooling

The smart comfort operation is able to maintain an optimal room condition automatically, by detecting not only the temperature but also the relative humidity in the room.

*Samsung testing compared to a general 4-Way cassette type air conditioner.

Model			AM005NNNDCH/AA	AM007NNNDCH/AA	AM009NNNDCH/AA	AM012NNNDCH/AA	AM018NNNDCH/AA	AM020NNNDCH/AA
Power Supply		Φ, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60
Capacity	Cooling	kW	1.47	2.20	2.78	3.52	5.28	5.86
	Heating	kW	1.76	2.55	3.08	3.96	5.86	6.74
Power Input	Cooling	W	18.0	18.0	24.0	28.0	36.0	38.0
	Heating	W	28.1	18.0	24.0	28.0	36.0	38.0
Current Input	Cooling	A	0.17	0.17	0.17	0.19	0.27	0.30
	Heating	A	0.17	0.17	0.17	0.19	0.27	0.30
Air Flow Rate	H/M/L (UL)	CMM	8.5 / 7.2 / 6.5	9.0 / 7.7 / 6.5	10.0 / 8.5 / 7.5	10.5 / 9.5 / 8.0	13.0 / 11.0 / 9.5	13.5 / 12.0 / 10.0
Liquid Pipe		Φ,mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
Gas Pipe		Φ,mm (inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")
Sound Pressure	H/M/L	dB(A)	30 / 28 / 23	32 / 29 / 25	33 / 30 / 26	34 / 30 / 26	39 / 36 / 33	40 / 38 / 35
Unit Net Weight		kg	11.7	12.0	12.0	12.0	12.0	12.0
Unit Net Dimensions (WxHxD)		mm	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575
Panel model		-	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN	PC4SUFMAN
Panel Net Weight		kg	2.7	2.7	2.7	2.7	2.7	2.7
Panel Net Dimensions (WxHxD)		mm	620 x 57 x 620	620 x 57 x 620	620 x 57 x 620	620 x 57 x 620	620 x 57 x 620	620 x 57 x 620

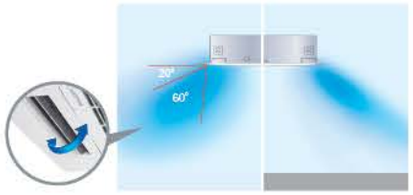
*Available in Standard 4-Way Cassette (600x600), Panel Model: PC4SUSMBN / PC4SUSMFN

Controller (Optional) | Panel (Optional)

AR-EH03E Wireless Remote Controller
MWR-WE13N Wired Remote Controller
MWR-SH10N Wired Remote Controller - Touch Simple Type
PC4SUFMAN Wind-Free™ Panel
PC4SUSMBN 4-way Cassette (Waffle)
PC4SUSMFN 4-way Cassette (Classic)
PC4NUCEAN Purifying Panel

2-Way Cassette

Samsung 2-Way Cassette is a perfect fit for long and narrow places with limited installation space, thanks to its compact and slim size. The unit operates with 2 air outlets, providing powerful and fast cooling performance to create a pleasant environment for you.cooling comfort in a plethora of environments.

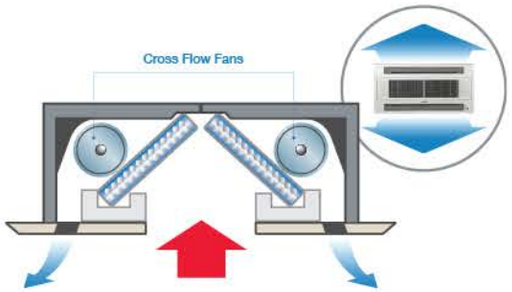


Auto Surround Swing

The 2-way outlet blades swing right and left to evenly distribute cool air to every corner of the room, keeping your environment pleasant and comfortable.

Twin Cross Flow Fan

The innovative Twin Cross Flow Fan distributes cool air further with minimal noise. This efficient system suits rooms of any dimension so no corner is overlooked.



Model			AM018FN2DCH/TC	AM024FN2DCH/TC
Power Supply		Φ, #, V, Hz	1,2,208-230,60	1,2,208-230,60
Capacity	Cooling	kW	5.28	7.03
	Heating	kW	5.86	7.91
Power Input	Cooling	W	70	75
	Heating	W	70	75
Current Input	Cooling	A	0.38	0.4
	Heating	A	0.38	0.4
Air Flow Rate	H/M/L (UL)	CMM	14.00/13.00/12.00	15.00/14.00/13.00
Liquid Pipe		Φ, mm (inch)	6.35 (1/4")	9.52 (3/8")
Gas Pipe		Φ, mm (inch)	12.7 (1/2")	15.88 (5/8")
Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound Pressure	H/M/L	dB(A)	38.0/37.0/35.0	41.0/39.0/37.0
Unit Net Weight		kg	21	22
Unit Net Dimensions (WxHxD)		mm	890 x 230 x 575	890 x 230 x 575
Panel model		-	PC2NUSMEN	PC2NUSMEN
Panel Net Weight		kg	4	4
Net Dimensions (WxHxD)		mm	1030 x 25 x 650	1030 x 25 x 650

Controller (Optional)

AR-EH03E
Wireless Remote Controller

MWR-WE13N
Wired Remote Controller

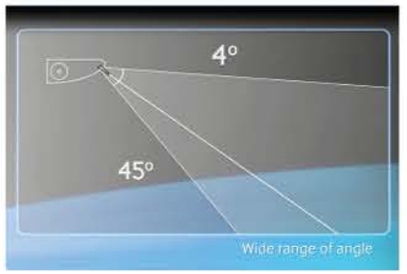
MWR-SH10N
Wired Remote Controller - Touch Simple Type

Panel (Optional)

PC2NUSMEN

Ceiling

Samsung's Ceiling Type indoor unit has 2-way installation options for both floor and ceiling, enabling more efficient use of available space. Users can enjoy crisp and powerful air throughout their space from either direction.



Model			AM018JNCDCH/AA	AM024JNCDCH/AA	AM036JNCDCH/AA	AM048JNCDCH/AA
Power Supply		Φ, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60
Capacity	Cooling	kW	5.28	7.03	11.2	14
	Heating	kW	5.86	7.91	12.5	16
Power Input	Cooling	W	72	80	92	160
	Heating	W	72	80	80	160
Current Input	Cooling	A	0.42	0.48	0.94	1.45
	Heating	A	0.42	0.48	0.83	1.45
Air Flow Rate	H/M/L (UL)	CMM	14.00 / 13.00 / 12.00	18.00 / 16.50 / 15.00	29.30 / 23.90 / 18.50	36.40 / 30.80 / 26.00
Liquid Pipe		Φ,mm (inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	6.35 (1/4")
Gas Pipe		Φ,mm (inch)	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	12.7 (1/2")
Control Method		-	EEV NOT INCLUDED	EEV NOT INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Pressure	H/M/L	dB(A)	40 / 37 / 34	44 /42 / 40	45 / 41 / 37	46 / 43 / 38
Unit Net Weight		kg	21.0	21.0	21.0	21.0
Unit Net Dimensions (WxHxD)		mm	1000 x 650 x 200	1000 x 650 x 200	1000 x 650 x 200	1000 x 650 x 200

Controller (Optional)

AR-EH03E
Wireless Remote Controller

MWR-WE13N
Wired Remote Controller

MWR-SH10N
Wired Remote Controller - Touch Simple Type

Fast Cooling Mode cools the room 15%* faster than general mode by running at maximum level with the fastest fan speed.

Keeps Comfortably Cool

Unlike conventional filters, Samsung's Easy Filter is located on the top side of the unit. It can easily be taken out, cleaned and then placed back. Its anti-bacterial coating filter also reduces dust, airborne contaminants and allergens**.

*Based on Samsung's internal test data.
**Based on test results by Korea Test Lab (FITI/ KEMTI) and Japan Test Lab (ITEA). Data has been measured under specific testing conditions and may differ based on environmental factors.

WindFree™ Wall Mounted - With EEV

Model			AM015TNVDKH/EU	AM022TNVDKH/EU	AM028TNVDKH/EU	AM036TNVDKH/EU
Power Supply		Φ, #, V, Hz	1, 220~240, 50/60	1, 220~240, 50/60	1,220-240,50/60	1,220-240,50/60
Capacity	Cooling	kW	1.5	2.2	2.8	3.6
	Heating	kW	1.7	2.5	3.2	4
Power Input	Cooling	kW	0.02	0.024	0.03	0.037
	Heating	kW	0.02	0.024	0.03	0.037
Current Input	Cooling	A	0.13	0.16	0.2	0.25
	Heating	A	0.13	0.16	0.2	0.25
Air Flow Rate	H/M/L (UL)	CMM	4.9/4.5/4.1	5.7/5.0/4.5	8.5 / 7.7 / 6.9	10.3 / 9.1 / 8.3
Liquid Pipe		Φ,mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
Gas Pipe		Φ,mm (inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")
Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Pressure	H/M/L	dB(A)	31/30/27/26(Wind free)	34/32/30/27(Wind free)	34/33/32/26 (Wind free)	40/36/34/26 (WindFree)
Net Weight		kg	9.0	9.0	9.5	9.5
Net Dimensions (WxHxD)		mm	820x299x215	820x299x215	820 x 299 x 215	820 x 299 x 215

Model			AM045TNVDKH/EU	AM056TNVDKH/EU	AM071TNVDKH/EU	AM082TNVDKH/EU
Power Supply		Φ, #, V, Hz	1,220-240,50/60	1,220-240,50/60	1,220-240,50/60	1,220-240,50/60
Capacity	Cooling	kW	4.5	5.6	6.8	8.2
	Heating	kW	5	6.3	7	8.5
Power Input	Cooling	kW	0.04	0.052	0.06	0.065
	Heating	kW	0.04	0.052	0.06	0.065
Current Input	Cooling	A	0.27	0.35	0.4	0.43
	Heating	A	0.27	0.35	0.4	0.43
Air Flow Rate	H/M/L (UL)	CMM	12.5 / 11.4 / 10.5	15.7 / 13.8 / 12.0	16.8 / 15.0 / 13.2	17.5 / 15.6 / 13.8
Liquid Pipe		Φ,mm (inch)	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")	9.52 (3/8")
Gas Pipe		Φ,mm (inch)	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")	15.88 (5/8")
Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Pressure	H/M/L	dB(A)	37/34/33/29 (WindFree)	40/37/34/29 (WindFree)	43/40/37/29 (WindFree)	46/45/43/30 (WindFree)
Net Weight		kg	12	12	12	13
Net Dimensions (WxHxD)		mm	1055 x 299 x 215	1055 x 299 x 215	1055 x 299 x 215	1055 x 299 x 215

Controller (Optional)

AR-EH03E
Wireless Remote Controller

MWR-WE13N
Wired Remote Controller

MWR-SH10N
Wired Remote Controller - Touch Simple Type

Slim Duct - Drain Pump Included

Only 199mm thick, the Slim Ducted can be concealed almost anywhere. Its slender design is not only highly elegant, it makes installation, maintenance and repair work quick and easy.

- Flexible Installation with option to set up the air inlet on either the bottom or rear of the unit.
- Parts are easily accessible by simply opening the bottom panel, providing easy maintenance.

Model			AM007FNLDCH/AA	AM009FNLDCH/AA	AM012FNLDCH/AA	AM018FNLDCH/AA
Power Supply		Φ, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60
Capacity	Cooling	kW	2.2	2.78	3.52	5.28
	Heating	kW	2.49	3.08	3.96	5.86
Power Input	Cooling	W	47	60	75	140
	Heating	W	47	60	75	140
Current Input	Cooling	A	0.32	0.4	0.51	0.94
	Heating	A	0.32	0.4	0.51	0.94
Air Flow Rate	H/M/L (UL)	CMM	8.00/7.00/6.00	9.00/8.00/7.00	10.00/8.50/7.00	15.50/14.00/12.50
External Presssure	Min / Std /Max	Pa	0.00 / 9.8 / 39.23	0.00/19.61/39.23	0.00/19.61/39.23	0.00 / 9.8 / 39.23
Liquid Pipe		Φ,mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
Gas Pipe		Φ,mm (inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")
Control Method		-	EEV INCLUDED	EDM EEV 3.2C Sanhua	EEV INCLUDED	EEV INCLUDED
Sound Pressure	H/M/L	dB(A)	26.0/24.0/21.0	27.0/25.0/23.0	29.0/28.0/27.0	36.0/34.0/31.0
Unit Net Weight		kg	24.5	24.5	24.5	30
Unit Net Dimensions (WxHxD)		mm	900 x 199 x 600	900 x 199 x 600	900 x 199 x 600	1100x199x600

Model			AM024FNLDCH/AA	AM030FNLDCH/AA	AM036FNLDCH/AA	AM048FNLDCH/AA
Power Supply		Φ, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60
Capacity	Cooling	kW	7.03	8.79	10.55	14.07
	Heating	kW	7.91	9.96	11.72	15.83
Power Input	Cooling	W	145	95	120	180
	Heating	W	145	95	120	180 W
Current Input	Cooling	A	0.98	0.8	1.05	1.4
	Heating	A	0.98	0.8	1.05	1.4
Air Flow Rate	H/M/L (UL)	CMM	16.50/15.00/13.50	31.00/26.00/23.00	34.00/29.00/24.00	38.00/32.00/27.00
External Presssure	Min / Std /Max	Pa	0.00 / 9.8 / 39.23	0.00/29.42/58.84	0.00/29.42/58.84	0.00/29.42/58.84
Liquid Pipe		Φ,mm (inch)	9.52 (3/8"")	9.52 (3/8"")	9.52 (3/8"")	9.52 (3/8"")
Gas Pipe		Φ,mm (inch)	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Pressure	H/M/L	dB(A)	38.0/36.0/33.0	37.0/36.0/34.0	37.0/36.0/34.0	39.0/38.0/36.0
Unit Net Weight		kg	30	40	40	41.5
Unit Net Dimensions (WxHxD)		mm	1100 x 199 x 600	1300 x 295 x 690	1300 x 295 x 690	1300 x 295 x 690

Controller (Optional)

AR-EH03E
Wireless Remote Controller

MWR-WE13N
Wired Remote Controller

MWR-SH10N
Wired Remote Controller - Touch Simple Type

MRK-A10N
Receiver Kit

MSP Duct S - Drain Pump Included

Samsung's Ceiling Type indoor unit has 2-way installation options for both floor and ceiling, enabling more efficient use of available space. Users can enjoy crisp and powerful air throughout their space from either direction.

- Quiet Operation
- 3-way service access for easy maintenance

Model			AM012ANHPKH/AZ	AM018ANHPKH/AZ	AM024ANHPKH/AZ
Power Supply		Φ, #, V, Hz	1,220~240,50/60	1,220~240,50/60	1,220~240,50/60
Capacity	Cooling	kW	3.6	5.6	7.1
	Heating	kW	4	6.3	8
Power Input	Cooling	W	45	70	110
	Heating	W	45	70	110
Current Input	Cooling	A	0.4	0.6	1
	Heating	A	0.4	0.6	1
Air Flow Rate	H/M/L (UL)	CMM	12.00/9.50/7.50	16.00/13.50/9.00	21.00/18.00/13.00
External Presssure	Min / Std /Max	Pa	0.00/24.52/147.10	0.00/29.42/147.10	0.00/29.42/147.10
Liquid Pipe		Φ,mm (inch)	6.35 (1/4")	6.35 (1/4")	9.52 (3/8")
Gas Pipe		Φ,mm (inch)	12.7 (1/2")	12.7 (1/2")	15.88 (5/8")
Control Method		-	EDM EEV3.2c Sanhua	EDM EEV3.2c Sanhua	EDM EEV 4.0C Sanhua
Drain Pipe		Φ,mm	VP25 (OD25,ID 20)	VP25 (OD25,ID 20)	VP25 (OD25,ID 20)
Sound Pressure	H/M/L	dB(A)	30/27/24	32/29/25	36/32/27
Unit Net Weight		kg	27.5	27.5	27.5
Unit Net Dimensions (WxHxD)		mm	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700

Model			AM030ANHPKH/AZ	AM036ANHPKH/AZ	AM042ANHPKH/AZ	AM048ANHPKH/AZ
Power Supply		Φ, #, V, Hz	1,220~240,50/60	1,220~240,50/60	1,220~240,50/60	1,220~240,50/60
Capacity	Cooling	kW	9	11.2	12.8	14
	Heating	kW	10	12.5	13.8	16
Power Input	Cooling	W	135	130	160	210
	Heating	W	135	130	160	210
Current Input	Cooling	A	1.2	1.2	1.4	1.7
	Heating	A	1.2	1.2	1.4	1.7
Air Flow Rate	H/M/L (UL)	CMM	27.00/22.00/16.00	30.00/25.00/18.00	36.00/30.00/23.00	40.00/34.00/24.00
External Presssure	Min / Std /Max	Pa	0.00/39.23/147.10	0.00/50.99/147.10	0.00/50.99/147.10	0.00/50.99/147.10
Liquid Pipe		Φ,mm (inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
Gas Pipe		Φ,mm (inch)	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
Control Method		-	EDM EEV 4.0C Sanhua	EDM EEV4.0c Sanhua	EDM EEV4.0c Sanhua	EDM EEV4.0c Sanhua
Drain Pipe		Φ,mm	VP25 (OD25,ID 20)	VP25 (OD25,ID 20)	VP25 (OD25,ID 20)	VP25 (OD25,ID 20)
Sound Pressure	H/M/L	dB(A)	37/33/29	36/33/30	37/34/31	39/36/33
Unit Net Weight		kg	35	39.5	39.5	39.5
Unit Net Dimensions (WxHxD)		mm	1200 x 250 x 700	1300 x 300 x 700	1300 x 300 x 700	1300 x 300 x 700

Controller (Optional)

AR-EH03E
Wireless Remote Controller

MWR-WE13N
Wired Remote Controller

MWR-SH10N
Wired Remote Controller - Touch Simple Type

MRK-A10N
Receiver Kit

HSP Duct - Drain Pump Excluded

Managing high external static pressures of up to 25mmAq, the powerful HSP Duct provides large coverage area with outstanding cooling performance that is ideal for spaces with high ceilings.

- Quiet Operation with the Static Pressure Control
- 3-Way service access for easy maintenance



Model			AM030ANHDCH/AA	AM036ANHDCH/AA	AM048ANHDCH/AA
Power Supply		Φ, #, V, Hz	1,2,208~230V,60	1,2,208~230V,60	1,2,208~230V,60
Capacity	Cooling	kW	8.79	10.55	14.07
	Heating	kW	9.96	11.72	15.83
Power Input	Cooling	W	140	130	220
	Heating	W	140	130	220
Current Input	Cooling	A	1.2	1.2	1.5
	Heating	A	1.2	1.2	1.5
Air Flow Rate	H/M/L (UL)	CMM	28/23/16.5	31/26/20	43/36/25
External Pressure	Min / Std / Max	Pa	29.42/50.99/196.13	29.42/50.99/196.13	29.42/50.99/196.13
Liquid Pipe		Φ,mm (inch)	9.52 (3/8")	9.52 (3/8")	9.52 (3/8")
Gas Pipe		Φ,mm (inch)	15.88 (5/8")	15.88 (5/8")	15.88 (5/8")
Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Pressure	H/M/L	dB(A)	38/34/30	37/34/30	42/38/34
Unit Net Weight		kg	35	44.5	44.5
Unit Net Dimensions (WxHxD)		mm	1200 x 250 x 700	1300 x 300 x 700	1300 x 300 x 700


Model			AM024ANHDCH/AA	AM027ANHDCH/AA
Power Supply		Φ, #, V, Hz	1,2,208~230V,60	1,2,208~230V,60
Capacity	Cooling	kW	7.03	7.91
	Heating	kW	7.91	8.79
Power Input	Cooling	W	90	110
	Heating	W	90	110
Current Input	Cooling	A	0.7	0.8
	Heating	A	0.7	0.8
Air Flow Rate	H/M/L (UL)	CMM	23/19/14	26/21/15
External Pressure	Min / Std / Max	Pa	29.42/50.99/196.13	29.42/50.99/196.13
Liquid Pipe		Φ,mm (inch)	9.52 (3/8")	9.52 (3/8")
Gas Pipe		Φ,mm (inch)	15.88 (5/8")	15.88 (5/8")
Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound Pressure	H/M/L	dB(A)	36/32/28	37/33/29
Unit Net Weight		kg	35	35
Unit Net Dimensions (WxHxD)		mm	1200 x 250 x 700	1200 x 250 x 700

Controller (Optional)

AR-EH03E
Wireless Remote Controller

MWR-WE13N
Wired Remote Controller

MWR-SH10N
Wired Remote Controller - Touch Simple Type

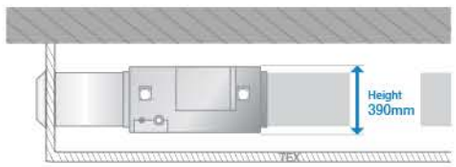
MRK-A10N
Receiver Kit

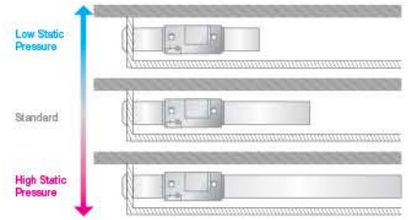
Outdoor Air Processing Duct (OAP)

Samsung's Outdoor Air Processing Duct (OAP) is an outside fresh air treatment unit with integrated ventilation, combining fresh air processing and air conditioning via a single system.

Wide operation range

Outdoor Air Processing Ceiling Ducted can supply fresh air to an interior area through cooling or heating processing from a wide range of outside temperatures, ranging from -5˚C ~ 52˚C.





Flexible installation

This light and compact unit, with its short height of 390mm, enables you to conveniently install and manage it in a variety of areas.

Flexible static pressure control

Should the static pressure in the installation area exceed the threshold, then the static pressure control system will automatically adjust fan speed to maintain optimised air volume.

Model			AM140MNEPCH/MG	AM220MNEPCH/MG	AM280MNEPCH/MG
Power Supply		Φ, #, V, Hz	1,2,208-230,60	1,2,208-230,60	1,2,208-230,60
Capacity	Cooling	kW	14	22.4	28
	Heating	kW	8.9	13.9	17.4
Power Input	Cooling	W	300	450	600
	Heating	W	300	450	600
Current Input	Cooling	A	2.2	3.5	4.6
	Heating	A	2.2	3.5	4.6
Fan Motor	Output x n	W	-	-	-
Air Flow Rate	High	CMM	18	28	35
External Pressure	Min / Std / Max	Pa	150/200/250	180/230/290	200/250/300
Liquid Pipe		Φ,mm (inch)	9.52(3/8")	9.52(3/8")	9.52(3/8")
Gas Pipe		Φ,mm (inch)	15.88 (5/8")	19.05 (3/4")	22.22 (7/8")
Control Method		-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound Pressure	High	dB(A)	47.00	46.00	42.00
Sound Power	Cooling	dB(A)	42	46	47
Unit Net Weight		kg	49	81.5	81.5
Unit Net Dimensions (W×H×D)		mm	1210 x 370 x 656	1360 x 460 x 910	1360 x 460 x 910

Controller (Optional)

AR-EH03E
Wireless Remote Controller

MWR-WE13N
Wired Remote Controller

MWR-SH10N
Wired Remote Controller - Touch Simple Type

MRK-A10N
Receiver Kit

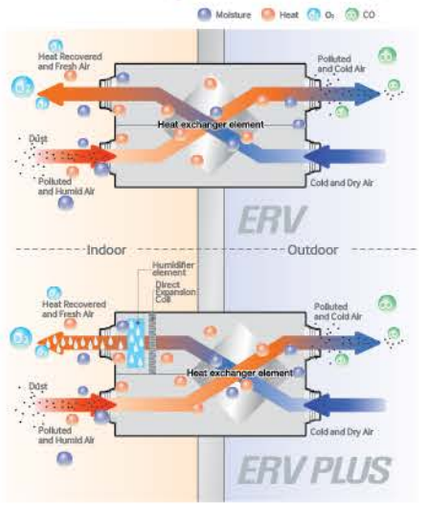
ERV Plus

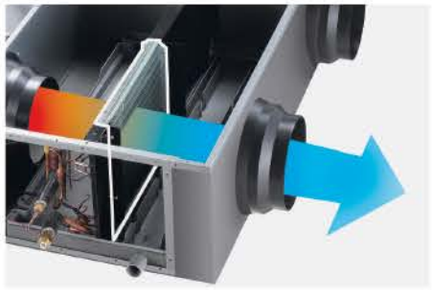
Indoor air quality is very important. Indoor air contamination is often the cause behind building-related syndromes, such as asthma, headaches and dizziness.

The Samsung ERV (Energy Recovery Ventilation) Plus system air conditioner provides fresh and healthy air from outside while minimising energy loss. Its intelligent structure incorporates features specifically designed for flawless ventilation and efficient operation.

- High efficiency heat exchange
- Low operating noise

Heat recovering method of ERV System





Fresh air without temperature loss

ERV PLUS is equipped with a direct expansion coil to pre-condition the outdoor air that enters the indoor environment. Outdoor air passes through the DX coil to produce fresh air without any temperature loss.

Model				AM050FNKDEH/EU	AM100FNKDEH/EU
Power Supply			Φ, #, V, Hz	1, 2, 220~240, 50	1, 2, 220~240, 50
Temp. Exchange Efficiency	Cooling	Turbo/High/Low	-	70 / 70 / 74	70 / 70 / 74
	Heating	Turbo/High/Low	-	75 / 75 / 79	75 / 75 / 79
Effective Enthalpy Exchange Efficiency	Cooling	Turbo/High/Low	-	62 / 62 / 68	60 / 60 / 66
	Heating	Turbo/High/Low	-	75 / 75 / 81	73 / 73 / 79
Outside Air Processing Capacity	Cooling (DX Coil/Element)			10.5 (7.1 / 3.4)	5.1 (3.6 / 1.5)
	Heating (DX Coil/Element)			13.2 (8.0 / 5.2)	6.5 (4.0 / 2.5)
Power Input	Turbo / High / Low		W	510 / 350 / 235	220 / 140 / 90
Current Input	Turbo / High / Low		A	3.70 / 2.40 / 1.60	1.70 / 1.00 / 0.60
Air Flow Rate	Turbo/High/Low(UL)		CMH	1000 / 1000 / 690	500 / 500 / 360
External Pressure	Turbo/High/Low		mmAq	15.3 / 9.2 / 7.6	16.3 / 10.2 / 8.7
Liquid Pipe			Φ,mm (inch)	6.35 (1/4")	6.35 (1/4")
Gas Pipe			Φ,mm (inch)	12.7 (1/2")	12.7 (1/2")
Water Supply			Φ,mm (inch)	12.7 (1/2")	12.7 (1/2")
Control Method			-	EEV INCLUDED	EEV INCLUDED
Sound Pressure	Turbo / High / Low		dB(A)	36.0 / 33.0 / 31.0	36.0/32.0/28.0
Unit Net Weight			kg	90	61
Unit Net Dimensions (WxHxD)			mm	1763 x 340 x 1135	1553 x 270 x 1000

Controller (Optional)

AR-EH03E
Wireless Remote Controller

MWR-WE13N
Wired Remote Controller

ERV

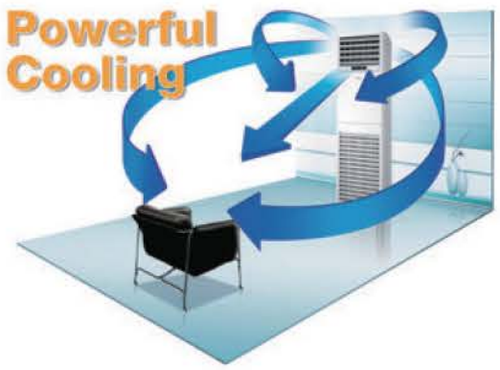
Model				AN026JSKLKN/EU	AN035JSKLKN/EU	AN050JSKLKN/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60	1,2,220-240,50/60
Temp. Exchange Efficiency		Turbo/High/Low	%	74 / 74 / 75	78 / 78 / 79	74 / 74 / 75
Effective Enthalpy Exchange Efficiency	Cooling	Turbo/High/Low	%	50 / 50 / 55	50 / 50 / 55	50 / 50 / 55
	Heating	Turbo/High/Low	%	70 / 70 /76	70 / 70 /76	70 / 70 /76
Power Input	Turbo / High / Low		W	115 / 80 / 45	115 / 80 / 50	175 / 120 / 65
Current Input	Turbo		A	0.70	0.70	1.70 / 1.00 / 0.60
Air Flow Rate	Turbo/High/ Low(UL)		CMH	260 / 250 / 180	350 / 350 / 256	500 / 500 / 360
External Pressure	Turbo/High/ Low		Pa	100 / 65 / 55	155 / 100 / 83	165 / 100 / 85
Sound Pressure	Turbo / High / Low		dB(A)	31.0 / 28.0 / 25.0	32.0 / 29.0 / 26.0	35.0 / 32.0 / 28.0
Unit Net Weight			kg	28.50	42.50	42.50
Unit Net Dimensions (WxHxD)			mm	600 x 350 x 660	1012 x 270 x 1000	1012 x 270 x 1000

Model				AN080JSKLKN/EU	AN100JSKLKN/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50/60
Temp. Exchange Efficiency		Turbo/High/Low	%	77 / 77 / 78	74 / 74 / 75
Effective Enthalpy Exchange Efficiency	Cooling	Turbo/High/Low	%	50 / 50 / 55	50 / 50 / 55
	Heating	Turbo/High/Low	%	70 / 70 / 76	70 / 70 / 76
Power Input	Turbo / High / Low		W	330 / 230 / 125	450 / 280 / 155
Current Input	Turbo		A	2.90	2.10
Air Flow Rate	Turbo/High/ Low(UL)		CMH	800 / 800 / 560	1000 / 1000 / 690
External Pressure	Turbo/High/ Low		Pa	155 / 90 / 80	155 / 90 / 75
Sound Pressure	Turbo / High / Low		dB(A)	36.0 / 33.0 / 29.0	37.0 / 34.0 / 30.0
Unit Net Weight			kg	67	67
Unit Net Dimensions (WxHxD)			mm	1220 x 340 x 1135	1220 x 340 x 1135

Floor Standing

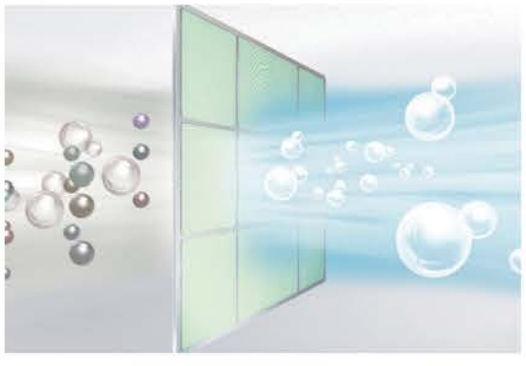
Long Distance Air Flow

As a result of the horizontal and vertical flaps that move independently of one another, a greater diversity of airflow is available depending upon your needs: direct airflow in one direction, long-range cooling, broad left-right airflow, and three-dimensional cooling.



Model			AM140JNPDKH/TK	AM280JNPDKH/TK
Power Supply		Φ, #, V, Hz	1,2,220-240,50/60	1,2,220-240,50
Capacity	Cooling	kW	14	28
	Heating	kW	16	31.5
Power Input	Cooling	W	190	955
	Heating	W	190	955
Current Input	Cooling	A	0.90	4.73
	Heating	A	0.90	4.73
Air Flow Rate	H/M/L (UL)	CMM	- / - / -	70.0 / 60.0 / 50.0
Liquid Pipe		Φ,mm (inch)	9.52 (3/8")	9.52 (3/8")
Gas Pipe		Φ,mm (inch)	15.88 (5/8")	22.22 (7/8")
Control Method		-	EEV INCLUDED	EEV INCLUDED
Sound Pressure	H/M/L	dB(A)	54 / - / 47	- / - / -
Unit Net Weight		kg	48	115
Unit Net Dimensions (WxHxD)		mm	610 x 1850 x 400	1100 x 1800 x 485

Anti-bacterial Filter.



The full high density filter collects up to 60% of dust.

Easy Control - Touch Display Panel

You need not find Remote controller anymore. It lets you control the temperature and air flow more easily.

Auto Shutter

The auto shutter opens and closes smoothly, revealing the flaps of the air conditioner only when it is turned on. The auto shutter protects the air conditioner from unwanted dust particles, making an unattractive air conditioner cover unnecessary.

SAMSUNG

Samsung Customer Contact Center:

Toll Free Hotline:

- 1-800-10-726-7864 (PLDT Subscribers)
- 1-800-8-726-7864 (Globe Subscribers)
- (02) 8-422-2111 (Standard Landline)

Available everyday 8:00 a.m to 8:00 p.m.

Samsung Electronics Philippines Corporation

9th Floor, Science Hub Tower 4, McKinley Hill Cyberpark, Fort Bonifacio, Taguig City

Contact Number: 7-214-7777

Visit www.samsung.com/ph

A-TK-900

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