



**SAMSUNG DVM S
SYSTEM AIR CONDITIONER**

SAMSUNG

INTRODUCING SAMSUNG

SAMSUNG IS MOVING AHEAD AND WITH OUR CUSTOMERS

“Put simply, our differentiation is centered on producing innovative technology that brings genuine change to people’s lives. We do this by bringing a relentless focus on consumer experience and product innovation in everything we do.”

- Sue Shim CMO (Chief Marketing Officer), SAMSUNG

BRAND VALUE

Samsung ranked 7th among global companies in 2015

2013 Rank

- 1 Apple
- 2 Google
- 3 Coca - cola

8 Samsung Electronics

- 18 Oracle
- 19 Amazon
- 24 Nike
- 28 ebay

2014 Rank

- 1 Apple
- 2 Google
- 3 Coca Cola
- 4 IBM

7 Samsung Electronics

- 8 Toyota
- 9 Mcdonalds
- 10 Mercedes Benz

2015 Rank

- 1 Apple
- 2 Google
- 3 Coca Cola
- 4 Microsoft

7 Samsung Electronics

- 18 HP
- 19 Honda
- 20 Louis vuitton

Source: Best Global Brand, 2015. Interbrand

GLOBAL REFERENCE SITES SAMSUNG SYSTEM AIR CONDITIONER

Samsung system air conditioners are chosen by various groups from different countries all around the world for their proven performance.





GLOBAL REFERENCE SITES



Location_Hungary
Project_Shopping Mall



Location_Germany
Project_Soccer Stadium



Location_Greece
Project_Restaurant



Location_France
Project_Hotel



Location_Turkey
Project_University



Location_Czech Republic
Project_Apartment Building



Location_Turkey
Project_Hotel



Location_Turkey
Project_Office building



Location_Turkey
Project_Office Building



Location_Germany
Project_Business Park



Location_Slovenia
Project_Utility Company



Location_South Africa
Project_Hotel



Location_Croatia
Project_Office & Residential Building



Location_Vietnam
Project_Hotel



Location_Turkey
Project_Princess Resort



Location_China
Project_Business Park



Location_Korea
Project_Residential Building



Location_Vietnam
Project_Hotel



Location_China(Tianjin)
Project_Apartment, Office



Location_India
Project_Fathe Prakash Palace



Location_China
Project_International Airport



Location_Korea
Project_Soccer Stadium



Location_Saudi Arabia
Project_Medical Clinic



Location_Qatar
Project_Office Building



Location_U.A.E
Project_Residential Building



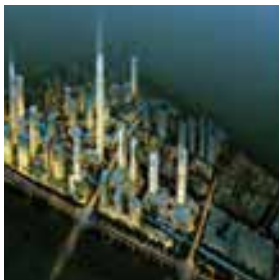
Location_Austria
Project_Cityhall Traiskirchen



Location_China(Nanjing)
Project_Office



Location_China(Qingdao)
Project_Office



Location_China(Beijing)
Project_Industry & Technology Park



Location_Vietnam(Hanoi)
Project_Viet Han Tower



Location_Korea(Songdo)
Project_World Mark



Location_Turkey(Istanbul)
Project_Mall of Istanbul



Location_Australia(Sydney)
Project_St. Joseph School



Location_U.K(Edinburgh)
Project_Sheraton Hotel



Location_Kenya(Mombasa)
Project_English Point Marina



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OUTDOOR UNIT

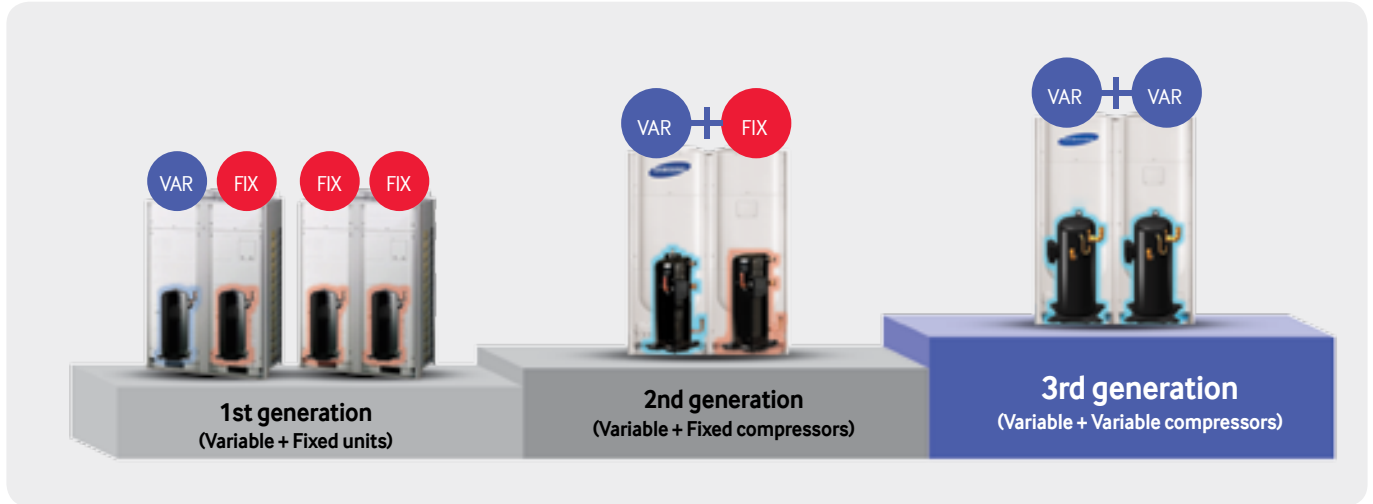
DVMS

DIGITAL VARIABLE MULTI



3RD GENERATION TECHNOLOGY

Samsung DVM S adopts 3rd generation SSC (Samsung Scroll Compressor) technology, Dual Smart Inverter (DSI), and 3rd generation Vapor Injection System.



DUAL DIGITAL INVERTER (DDI)

Enables both compressors operating simultaneously, and providing balanced oil distribution, quick cooling and heating.

Dual Digital Inverter

Inverter + Inverter

- Simultaneous operation
- Balanced oil distribution
- Quick cooling & heating
- High efficiency

VAPOR INJECTION SYSTEM

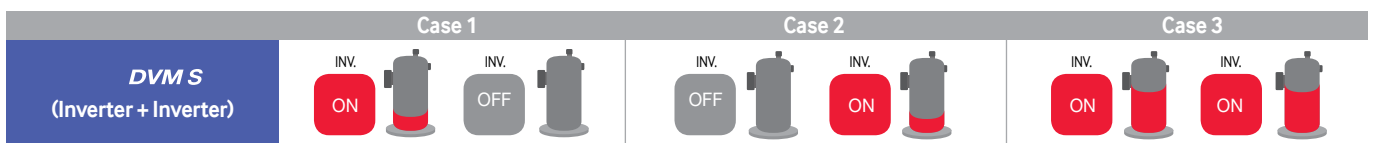
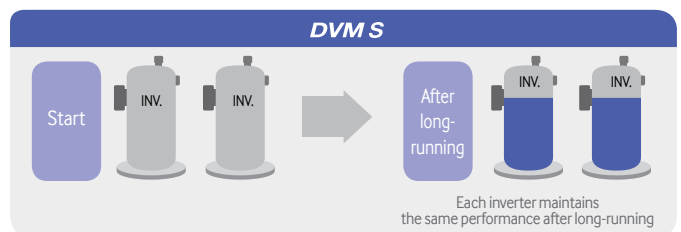
The vapor injection system within the compressor helps to increase the refrigerant flow rate compared to previous Samsung DVM generation.



COMPRESSOR DURABILITY

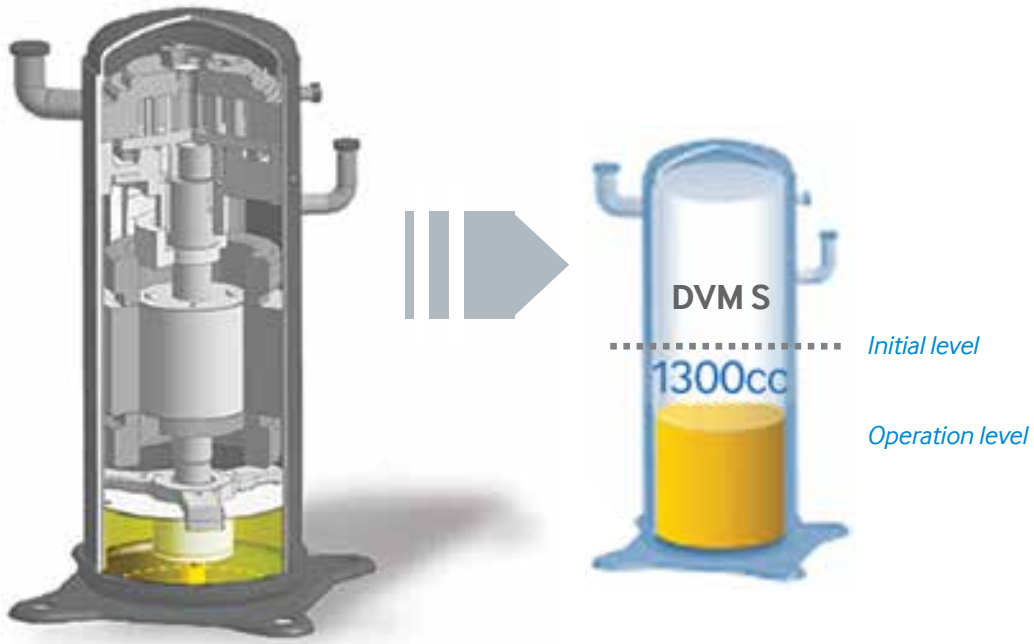
In DVM S Dual Smart Inverter (DSI) system, each compressor operates in unison with the other, contributing to overall compressor durability.

Samsung DDI responds to subtle indoor load changes and deliver fine capacity control.



LARGE OIL STORAGE CAPACITY

With large oil storage and low OCR, DVM S can help reliability even in case of installation with long piping and high elevation.



AUTO OIL BALANCING

Stable and equal oil balancing without requiring an extra oil balancing pipe.

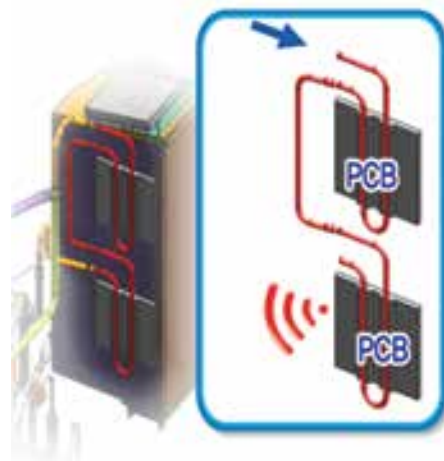
DVM S

- Inverter + Inverter Compressor
- No oil balance pipe

2Pipe

REFRIGERANT COOLING SYSTEM

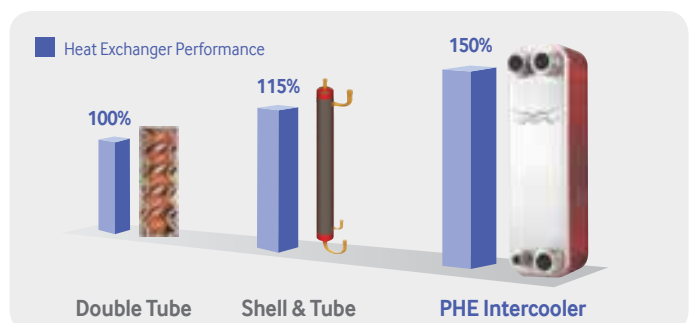
Using refrigerant cooling system, DVM S delivers outstanding heating and cooling.



Refrigerant cooling method

PHE (PLATE HEAT EXCHANGER)

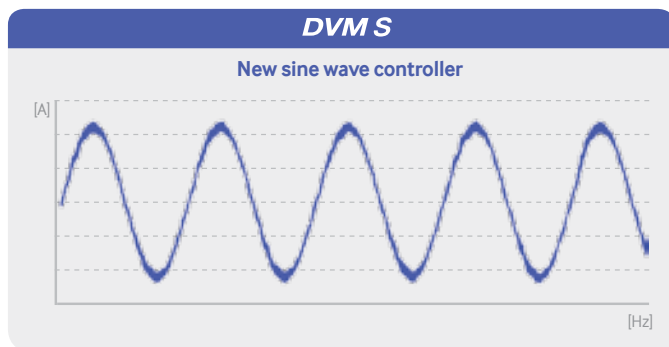
Plate Heat Exchanger type intercooler is adopted to DVM S to deliver outstanding heating and cooling.



Note: comparisons made of Samsung heat exchanger types

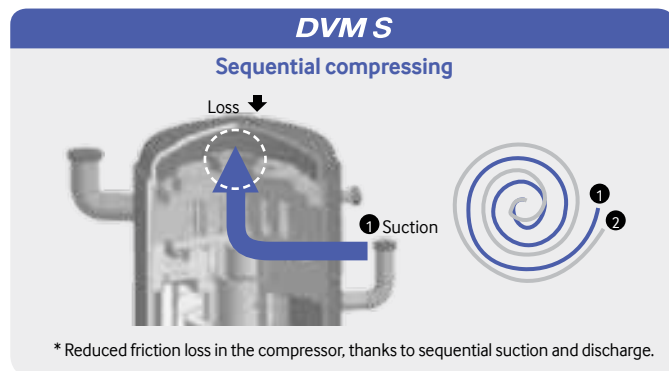
ADAPTIVE SINE WAVE CONTROL

Adaptive sine wave control can reduce THP (Total Harmonic Distortion), which helps reduce compressor vibrations.



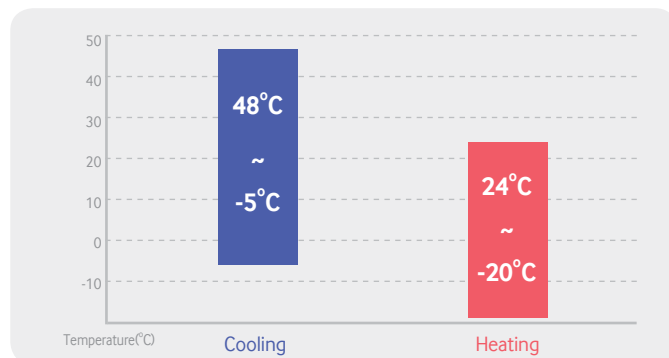
ASYMMETRIC SCROLL DESIGN

Applying fluid dynamic design, DVM S helps reduce compression loss, using sequential suction and discharge technology.



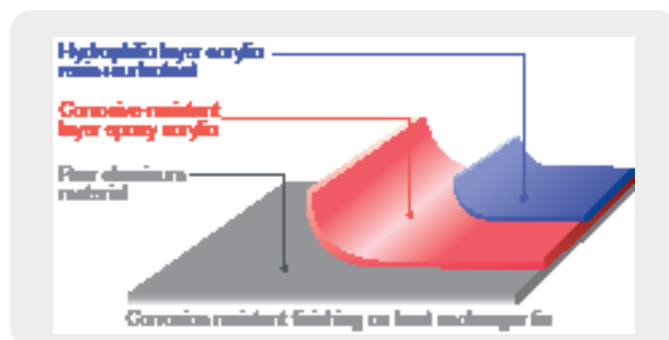
WIDE TEMPERATURE ALLOWANCE

It has a wide temperature allowance, meaning that you can have cooling at extreme high temperatures up to 48°C, or heating at extreme cold conditions down to -20°C.



HYDROPHILIC COATING

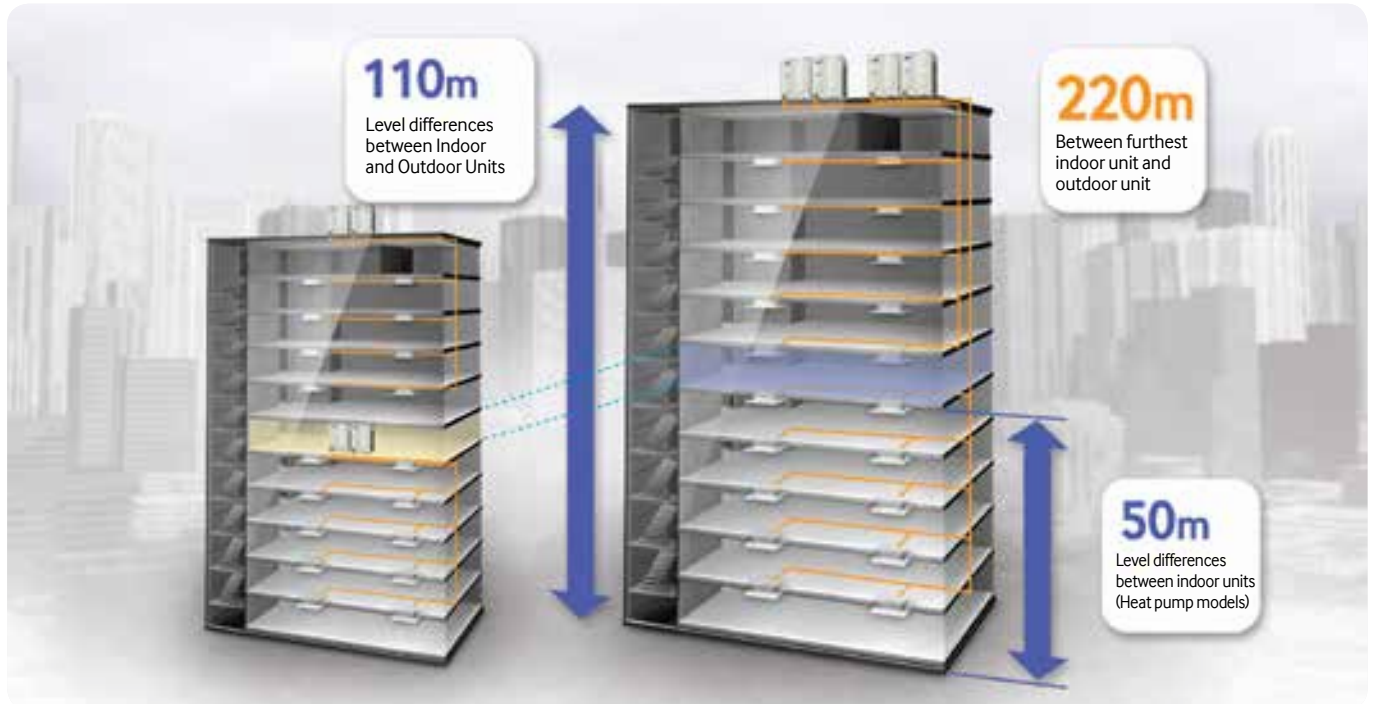
The hydrophilic coating is designed to help facilitate heat exchange and delays the onset of frost formation to provide consistent heating performance. A corrosive-resistant coating is designed to reduce corrosion from the elements.



LONG PIPING LENGTH & HIGH ELEVATION

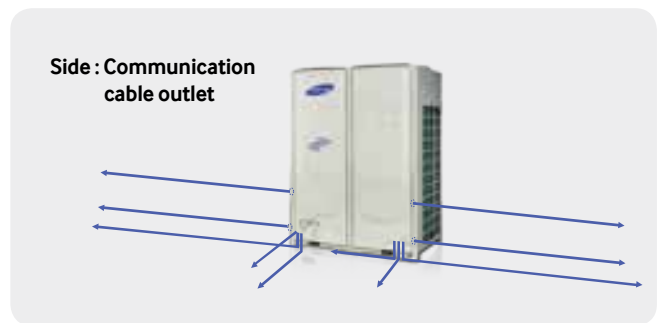
Extended piping length of up to 220m, where units can still give great performance over wide areas, and installation height difference of up to 110m between indoor and outdoor units.

Note: maximum height of installation limitation for piping connections is only allowable when using PDM kits.



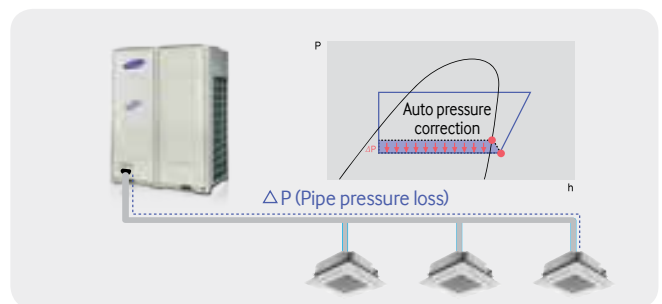
VERSATILE PIPING CONNECTION WITH VARIOUS KNOCK OUT HOLES

The knock out holes for piping, power, and communication cables are located in a variety of directions, allowing for convenient installation.



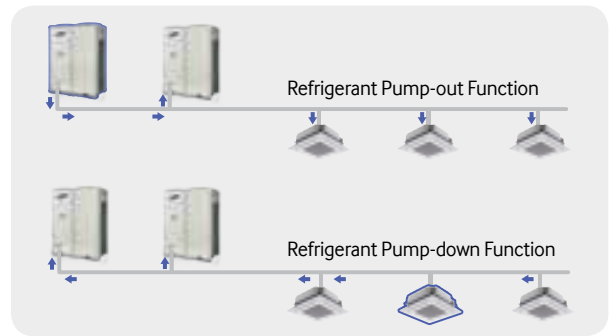
OPTIMISED REFRIGERANT DISTRIBUTION CONTROL

Due to long piping distances possible with DVM S between indoor and outdoor units, the individual indoor units perform capacity control and automatic refrigerant balancing to help provide balanced performances between the units.



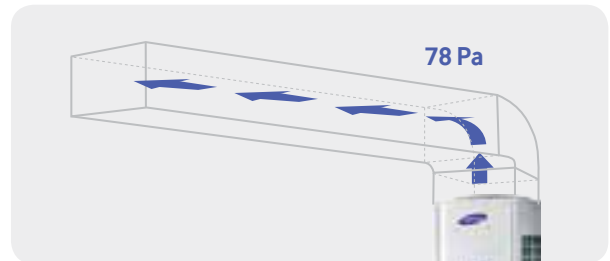
REFRIGERANT PUMP-DOWN & PUMP-OUT

Refrigerant pump-down/out functions facilitate easy and convenient replacement of the product, as well as additional installations and maintenance.



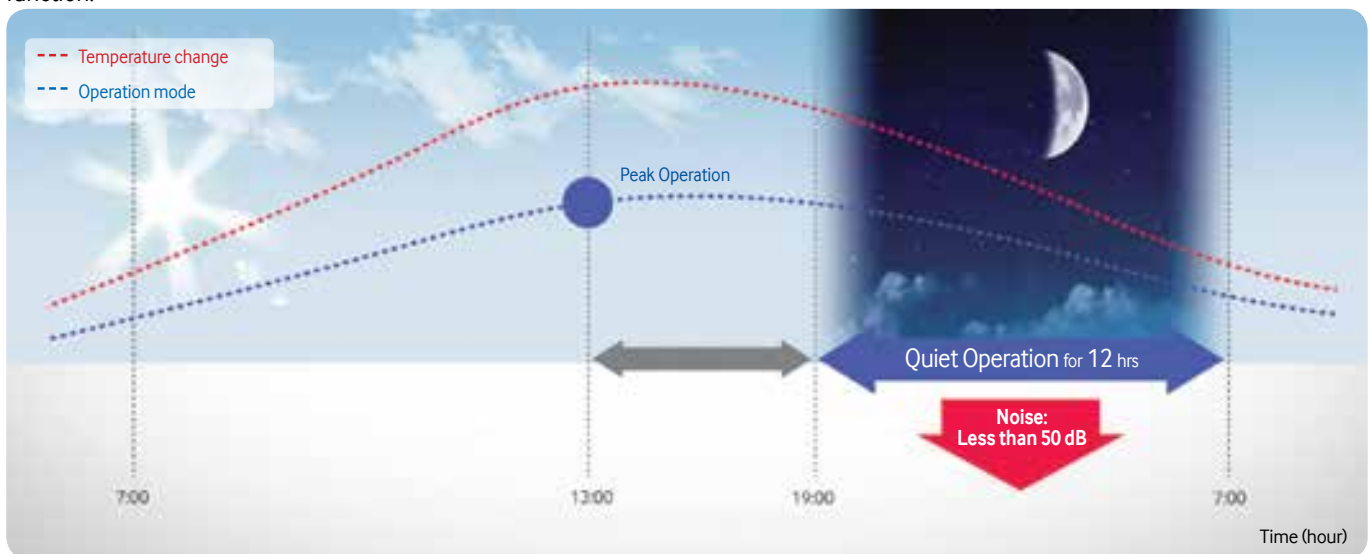
HIGH ESP CONDENSER FAN

To facilitate for plant room installations, DVM S is designed to manage high ESP up to 78Pa.



QUIET OPERATION FOR NIGHT TIME

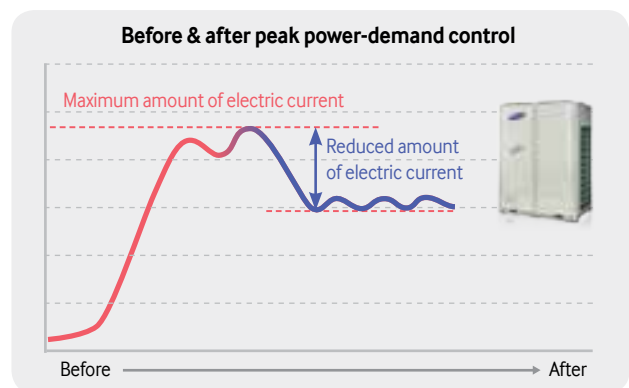
DVM S has operation control to reduce condenser noise where noise level is reduced below 50dBA sound pressure during quiet operation function.



Note: sound level was acquired in an anechoic room. Actual noise level may be different depending on the installation conditions.

PEAK POWER DEMAND CONTROL

DVM S allows the administrator to control peak current and power consumption. This is useful when power supply is limited or wanting to control energy usage.



DVM S HEAT RECOVERY

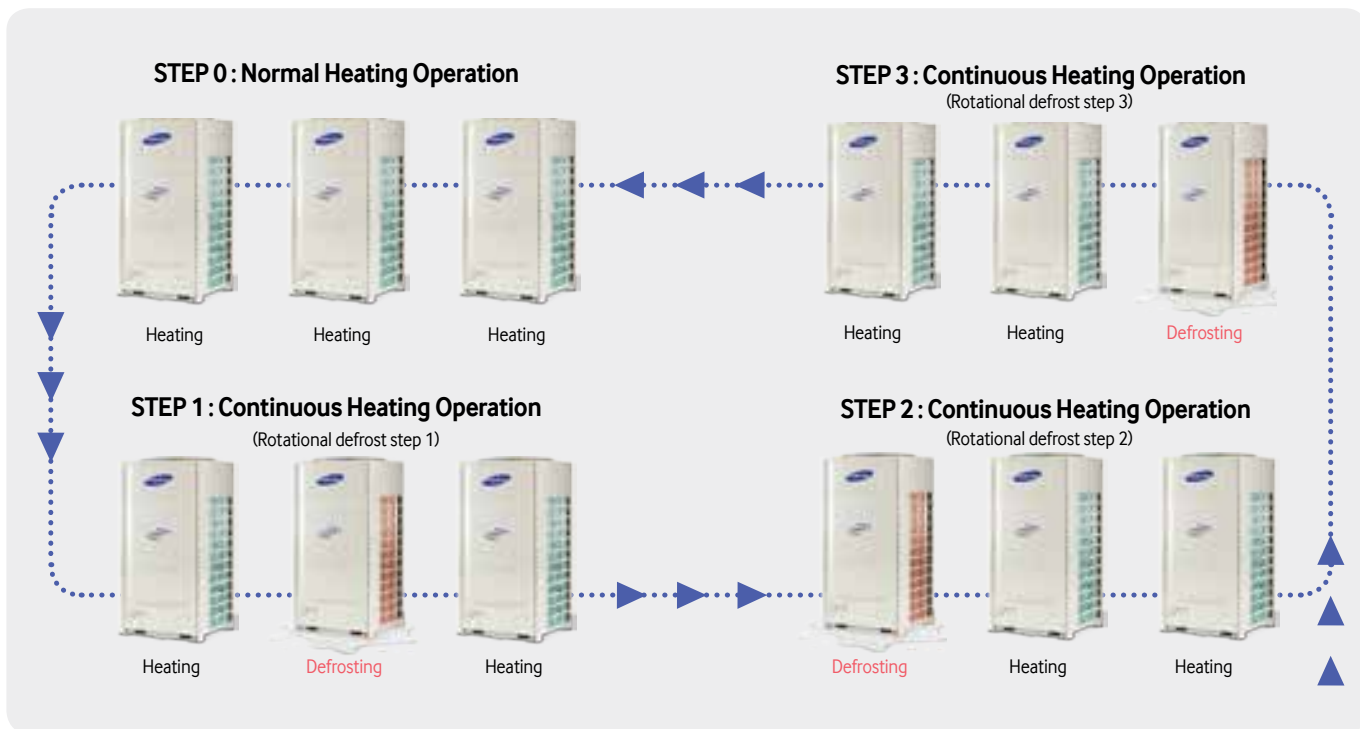
SIMULTANEOUS COOLING AND HEATING

Simultaneous heating and cooling is possible using heat recovery condensers in conjunction with Mode Control Unit (MCU).






CONTINUOUS HEATING OPERATION

In the case of modular systems defrost operation are sequential to enable continuous heating operation.



OUTDOOR UNIT – HEAT PUMP HIGH EFFICIENCY UNIT COMBINATION



High Efficiency Combination			SINGLE							
IMAGE	MODEL	CAPACITY	8	10	12	14	16	18	20	22
	AM080FXVAGH/EU	8 HP	1							
	AM100FXVAGH/EU	10 HP		1						
	AM120FXVAGH/EU	12 HP			1					
	AM140FXVAGH/EU	14 HP				1				
	AM160FXVAGH/EU	16 HP					1			
	AM180FXVAGH/EU	18 HP						1		
	AM200FXVAGH/EU	20 HP							1	
	AM220FXVAGH/EU	22 HP								1
	AM240HXVAGH/EU	24 HP								
	AM260HXVAGH/EU	26 HP								



High Efficiency Combination			MODULE							
IMAGE	MODEL	CAPACITY	54	56	58	60	62	64	66	68
	AM080FXVAGH/EU	8 HP								
	AM100FXVAGH/EU	10 HP								
	AM120FXVAGH/EU	12 HP	1	1						2
	AM140FXVAGH/EU	14 HP			1					
	AM160FXVAGH/EU	16 HP				1				
	AM180FXVAGH/EU	18 HP					1			
	AM200FXVAGH/EU	20 HP	1						1	
	AM220FXVAGH/EU	22 HP	1	2	2	2	2	2	3	2
	AM240HXVAGH/EU	24 HP								
	AM260HXVAGH/EU	26 HP								

MODULE														
24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
		1	1	1	1						2	1	1	1
						1		1				1		
	1						1						1	
			1											1
				1					1					
					1	1	1		1	2	1	1	1	1
1														
	1							1						

70	72	74	76	78	80
1	1	1	1	1	
1					1
	1				
		1			
			1		
2	2	2	2	3	3

OUTDOOR UNIT – HEAT PUMP COMPACT MODULATION UNIT COMBINATION

COMPACT Combination			SINGLE							
IMAGE	MODEL	CAPACITY	8	10	12	14	16	18	20	22
	AM080FXVAGH/EU	8 HP	1							
	AM100FXVAGH/EU	10 HP		1						
	AM120FXVAGH/EU	12 HP			1					
	AM140FXVAGH/EU	14 HP				1				
	AM160FXVAGH/EU	16 HP					1			
	AM180FXVAGH/EU	18 HP						1		
	AM200FXVAGH/EU	20 HP							1	
	AM220FXVAGH/EU	22 HP								1
	AM240HXVAGH/EU	24 HP								
	AM260HXVAGH/EU	26 HP								



COMPACT Combination			MODULE							
IMAGE	MODEL	CAPACITY	54	56	58	60	62	64	66	68
	AM080FXVAGH/EU	8 HP								
	AM100FXVAGH/EU	10 HP								
	AM120FXVAGH/EU	12 HP	1	1	1	1	1	1		
	AM140FXVAGH/EU	14 HP								
	AM160FXVAGH/EU	16 HP								
	AM180FXVAGH/EU	18 HP								
	AM200FXVAGH/EU	20 HP	1		1					
	AM220FXVAGH/EU	22 HP	1	2		1			3	2
	AM240HXVAGH/EU	24 HP					1			1
	AM260HXVAGH/EU	26 HP			1	1	1	2		

MODULE														
24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
		1	1	1	1	1	1							
								1						
	1													
			1						1		1			
				1					1	2		1		
1						1							1	
	1						1	1			1	1	1	2

70	72	74	76	78	80
					1
2	1	1			3
	1		1		
1	1	2	2	3	

OUTDOOR UNIT – HEAT RECOVERY HIGH EFFICIENCY UNIT COMBINATION

High Efficiency Combination				SINGLE							
IMAGE	MODEL	CAPACITY		8	10	12	14	16	18	20	22
	AM080FXVAGR/EU	8 HP		1							
	AM100FXVAGR/EU	10 HP			1						
	AM120FXVAGR/EU	12 HP				1					
	AM140FXVAGR/EU	14 HP					1				
	AM160FXVAGR/EU	16 HP						1			
	AM180FXVAGR/EU	18 HP							1		
	AM200FXVAGR/EU	20 HP								1	
	AM220FXVAGR/EU	22 HP									1

High Efficiency Combination				MODULE							
IMAGE	MODEL	CAPACITY		54	56	58	60	62	64	66	68
	AM080FXVAGR/EU	8 HP									
	AM100FXVAGR/EU	10 HP									
	AM120FXVAGR/EU	12 HP		1	1						2
	AM140FXVAGR/EU	14 HP				1					
	AM160FXVAGR/EU	16 HP					1				
	AM180FXVAGR/EU	18 HP									
	AM200FXVAGR/EU	20 HP		1				2	1		
	AM220FXVAGR/EU	22 HP		1	2	2	2	1	2	3	2

MODULE														
24	26	28	30	32	34	36	38	40	42	44	46	48	50	52
2	1	1	1	1	1						2	1	1	1
	1						1					1		
		1						1					1	
			1											1
				1					2	1				
						1	1	1		1	2	1	1	1

70	72	74	76	78	80
1	1	1	1	1	
1					1
	1				
		1			
			1		
2	2	2	2	3	3

DVM S Specification – Outdoor Units



DVM S

DIGITAL VARIABLE MULTI

- DSI (Dual Smart Inverter) System
- High operating efficiency at both full load and part load conditions
- Optimised Refrigerant Distribution Control
- Flexibility in installation piping
- Wide ambient temperature operating range

DVM S Heat Pump / Heat Recovery

Model Name		DVM S HP		AM080FXVAGH/EU		AM100FXVAGH/EU		
		DVM S HR		AM080FXVAGR/EU		AM100FXVAGR/EU		
Power Supply		Φ, #, V, Hz		3,4,380-415,50		3,4,380-415,50		
Mode		-		HP / HR		HP / HR		
Performance	HP	HP		8.00		10.00		
	Capacity (Nominal)	Cooling ¹	kW	22.40		28.00		
		Heating ²	kW	25.20		31.50		
Power	Power Input (Nominal)	Cooling ¹	kW	5.00		6.80		
		Heating ²	kW	5.10		6.70		
	Current Input (Nominal)	Cooling ¹	A	8.00		10.90		
		Heating ²	A	8.20		10.70		
MCA ⁴			22.50 (MCA)		29.90 (MCA)			
MFA ⁴			30.00		40.00			
COP	Nominal Cooling	-		4.48		4.12		
	Nominal Heating	-		4.94		4.70		
Compressor	Type	-		SSC Scroll x 1		SSC Scroll x 1		
	Output	kW x n		(4.96)		(6.13)		
	Model Name	-		DS-GB052FAVASG x 1		DS-GB066FAVASG x 1		
Oil	Type	-		PVE		PVE		
	Initial Charge	cc		2300		2300		
Fan	Type	-		Propeller		Propeller		
	Output x n	W		400 x 1		400 x 1		
	Air Flow Rate	CMM		145		145		
	External Static Pressure	Max.	l/s		2,416.67		2,416.67	
mmAq			8.00		8.00			
Piping Connections	Liquid Pipe	Φ, mm		9.52		9.52		
		Φ, inch		3/8"		3/8"		
	Gas Pipe	Φ, mm		19.05		22.22		
		Φ, inch		3/4"		7/8"		
	Discharge Gas Pipe (HR)	Φ, mm		15.88		19.05		
		Φ, inch		5/8"		3/4"		
	Installation Limitation ⁵	Max. Length	m		200(220)		200(220)	
		Max. Height	m		110(40)		110(40)	
Refrigerant	Type	-		R410A		R410A		
	Factory Charging	kg		5.50		5.20		
Sound ³	Sound Pressure	dB(A)		57.0		58.0		
	Sound Power	dB(A)		77.0		79.0		
External Dimension	Net Weight	DVM S HP	kg	190.0		190.0		
		DVM S HR	kg	195.0		195.0		
	Shipping Weight	DVM S HP	kg	206.0		206.0		
		DVM S HR	kg	211.0		211.0		
	Net Dimensions (WxHxD)	mm		880 x 1,695 x 765		880 x 1,695 x 765		
Shipping Dimensions (WxHxD)	mm		948 x 1,857 x 832		948 x 1,857 x 832			
Operating Temp. Range	Cooling	DVM S HP	°C	-5.0 ~ 48.0		-5.0 ~ 48.0		
		DVM S HR	°C	-15.0 ~ 48.0		-15.0 ~ 48.0		
	Heating	°C		-20.0 ~ 24.0		-20.0 ~ 24.0		

* Product Specifications in the Publication can be changed without a prior notice because there is always an ongoing improvement on our product.

1) Nominal cooling capacities are based on - Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

2) Nominal heating capacities are based on - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

4) MCA : Minimum Circuit Amps., MFA : Maximum Fuse Amps.

5) The maximum height of installation limitation for piping connections is only allowable when using PDM kits.

AM120FXVAGH/EU	AM140FXVAGH/EU	AM160FXVAGH/EU	AM180FXVAGH/EU
AM120FXVAGR/EU	AM140FXVAGR/EU	AM160FXVAGR/EU	AM180FXVAGR/EU
3,4.380-415,50	3,4.380-415,50	3,4.380-415,50	3,4.380-415,50
HP / HR	HP / HR	HP / HR	HP / HR
12.00	14.00	16.00	18.00
33.60	40.00	45.00	50.40
37.80	45.00	50.00	56.70
8.40	8.90	11.00	12.88
8.70	9.50	11.50	11.90
13.50	14.30	17.60	20.70
14.00	15.20	18.40	19.10
31.30 (MCA)	31.30 (MCA)	40.00 (MCA)	48.90 (MCA)
40.00	40.00	40.00	50.00
4.00	4.49	4.09	3.91
4.34	4.74	4.35	4.76
SSC Scroll x 1	SSC Scroll x 1	SSC Scroll x 2	SSC Scroll x 2
(6.13)	(6.13)	(4.96x2)	(6.13x2)
DS-GB066FAVASG x 1	DS-GB066FAVASG x 1	DS-GB052FAVASG x 2	DS-GB066FAVASG x 2
PVE	PVE	PVE	PVE
2300	2300	4600	4600
Propeller	Propeller	Propeller	Propeller
400 x 1	620 x 2	620 x 2	620 x 2
190	260	260	270
3,166.67	4,333.33	4,333.33	4,500.00
8.00	8.00	8.00	8.00
78.45	78.45	78.45	78.45
12.70	12.70	12.70	15.88
1/2"	1/2"	1/2"	5/8"
28.58	28.58	28.58	28.58
1 1/8"	1 1/8"	1 1/8"	1 1/8"
19.05	22.22	22.22	22.22
3/4"	7/8"	7/8"	7/8"
200(220)	200(220)	200(220)	200(220)
110(40)	110(40)	110(40)	110(40)
R410A	R410A	R410A	R410A
5.50	7.70	7.40	8.70
62.0	61.0	63.0	64.0
81.0	81.0	83.0	86.0
190.0	235.0	278.0	300.0
195.0	241.0	284.0	306.0
206.0	254.0	297.0	319.0
211.0	260.0	303.0	325.0
880 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
948 x 1,857 x 832	1,363 x 1,857 x 832	1,363 x 1,857 x 832	1,363 x 1,857 x 832
-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0
-15.0 ~ 48.0	-15.0 ~ 48.0	-15.0 ~ 48.0	-15.0 ~ 48.0
-20.0 ~ 24.0	-20.0 ~ 24.0	-20.0 ~ 24.0	-20.0 ~ 24.0

DVM S Specification – Outdoor Units



DVM S

DIGITAL VARIABLE MULTI

- DSI (Dual Smart Inverter) System
- High operating efficiency at both full load and part load conditions
- Optimised Refrigerant Distribution Control
- Flexibility in installation piping
- Wide ambient temperature operating range

DVM S Heat Pump / Heat Recovery

Model Name		DVM S HP		AM200FXVAGH/EU		AM220FXVAGH/EU		
		DVM S HR		AM200FXVAGR/EU		AM220FXVAGR/EU		
Power Supply		Φ, #, V, Hz		3,4,380-415,50		3,4,380-415,50		
Mode		-		HP / HR		HP / HR		
Performance	HP	HP		20.00		22.00		
	Capacity (Nominal)	Cooling ¹	kW	56.00		61.60		
		Heating ²	kW	63.00		69.30		
Power	Power Input (Nominal)	Cooling ¹	kW	15.19		17.35		
		Heating ²		13.90		16.70		
	Current Input (Nominal)	Cooling ¹		24.40		27.80		
		Heating ²	A	22.30		26.80		
MCA ⁴			52.50 (MCA)		55.60 (MCA)			
MFA ⁴			75.00		75.00			
COP	Nominal Cooling	-		3.69		3.55		
	Nominal Heating	-		4.53		4.15		
Compressor	Type	-		SSC Scroll x 2		SSC Scroll x 2		
	Output	kW x n		(6.13x2)		(6.13x2)		
	Model Name	-		DS-GB066FAVASG x 2		DS-GB066FAVASG x 2		
	Oil	Type	-	PVE		PVE		
	Initial Charge	cc		4600		4600		
Fan	Type	-		Propeller		Propeller		
	Output x n	W		620 x 2		620 x 2		
	Air Flow Rate	CMM		275		295		
			l/s	4,583.33		4,916.67		
External Static Pressure	Max.	mmAq		8.00		8.00		
		Pa		78.45		78.45		
Piping Connections	Liquid Pipe	Φ, mm		15.88		15.88		
		Φ, inch		5/8"		5/8"		
	Gas Pipe	Φ, mm		28.58		28.58		
		Φ, inch		1 1/8"		1 1/8"		
	Discharge Gas Pipe (HR)	Φ, mm		28.58		28.58		
		Φ, inch		1 1/8"		1 1/8"		
Installation Limitation ⁵	Max. Length	m		200(220)		200(220)		
	Max. Height	m		110(40)		110(40)		
Refrigerant	Type	-		R410A		R410A		
	Factory Charging	kg		8.40		8.40		
Sound ³	Sound Pressure	dB(A)		65.0		67.0		
	Sound Power	dB(A)		87.0		89.0		
External Dimension	Net Weight	DVM S HP	kg	300.0		300.0		
		DVM S HR		306.0		306.0		
	Shipping Weight	DVM S HP	kg	319.0		319.0		
		DVM S HR		325.0		325.0		
	Net Dimensions (WxHxD)		mm		1,295 x 1,695 x 765		1,295 x 1,695 x 765	
	Shipping Dimensions (WxHxD)		mm		1,363 x 1,857 x 832		1,363 x 1,857 x 832	
Operating Temp. Range	Cooling	DVM S HP	°C	-5.0 ~ 48.0		-5.0 ~ 48.0		
		DVM S HR	°C	-15.0 ~ 48.0		-15.0 ~ 48.0		
	Heating	°C		-20.0 ~ 24.0		-20.0 ~ 24.0		

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2) Nominal heating capacities are based on - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

4) MCA : Minimum Circuit Amps., MFA : Maximum Fuse Amps.

5) The maximum height of installation limitation for piping connections is only allowable when using PDM kits.



DVM S

DIGITAL VARIABLE MULTI

- Large capacity heat pump single module (67.2kW and 72.8kW)
- DSI (Dual Smart Inverter) System: frequency range 14 to 160Hz
- High operating efficiency at both full load and part load conditions
- Optimised Refrigerant Distribution Control
- Flexibility in installation piping
- Wide ambient temperature operating range

DVM S Heat Pump

Model Name		AM240HXVAGH/EU		AM260HXVAGH/EU	
Power Supply	Φ, #, V, Hz	3,4,380,50		3,4,380,50	
Mode		HEAT PUMP		HEAT PUMP	
Performance	HP	HP	24.00	26.00	
	Capacity (Nominal)	Cooling ¹	67.20	72.80	
		Heating ²	75.60	81.90	
Power	Power Input (Nominal)	Cooling ¹	17.10	19.30	
		Heating ²	19.80	21.80	
	Current Input (Nominal)	Cooling ¹	26.83	30.28	
		Heating ²	31.06	34.20	
	MCA ⁴		60.5	63.8	
MFA ⁴		75.00	75.00		
COP	Nominal Cooling ¹	-	3.93	3.77	
	Nominal Heating ²	-	3.82	3.76	
Compressor	Type	-	SSC Scroll x 2	SSC Scroll x 2	
	Output	kW x n	6.39 x 2	6.76 x 2	
	Model Name	-	DS-GB066FAVBSG x 2	DS-GB070FAVASG x 2	
	Oil	Type	-	PVE	PVE
Fan	Type	-	Propeller	Propeller	
	Output x n	W	620 x 2	620 x 2	
	Air Flow Rate	CMM	310	310	
		l/s	5,166.67	5,166.67	
External Static Pressure	mmAq	8.00	8.00		
	Pa	78.40	78.40		
Piping Connections	Liquid Pipe	Φ, mm	15.88	19.05	
		Φ, inch	5/8"	3/4"	
	Gas Pipe	Φ, mm	34.92	34.92	
		Φ, inch	1 3/8"	1 3/8"	
	Installation Limitation ⁵	Max. Length	m	200 (220)	200 (220)
Max. Height		m	110 (40)	110 (40)	
Refrigerant	Type	-	R410A	R410A	
	Factory Charging	kg	14.30	14.30	
Sound ³	Sound Pressure	dB(A)	66.0	66.0	
	Sound Power	dB(A)	91.0	91.0	
External Dimension	Net Weight	DVM S HP	360	360	
	Shipping Weight	DVM S HP	375	375	
	Net Dimensions (WxHxD)	mm	1,295 x 1,695 x 765	1,295 x 1,695 x 765	
		mm	1,363 x 1,857 x 832	1,363 x 1,857 x 832	
Operating Temp. Range	Cooling	DVM S HP	-5.0 ~ 48.0	-5.0 ~ 48.0	
	Heating		-20.0 ~ 24.0	-20.0 ~ 24.0	

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1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

2) Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

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5) The maximum height of installation limitation for piping connections is only allowable when using PDM kits.

DVMS Water

DIGITAL VARIABLE MULTI



DVM S Water is ideal for medium to large building application, it uses water as its heat source, with connections to a cooling tower and boiler. The system can provide outstanding and reliable performance and that has minimal effect by changes from the surrounding environment.

DSI (DUAL SMART INVERTER) SYSTEM

In DVM S Dual Smart Inverter (DSI) system, each compressor operates in unison with the other contributing to overall compressor durability.

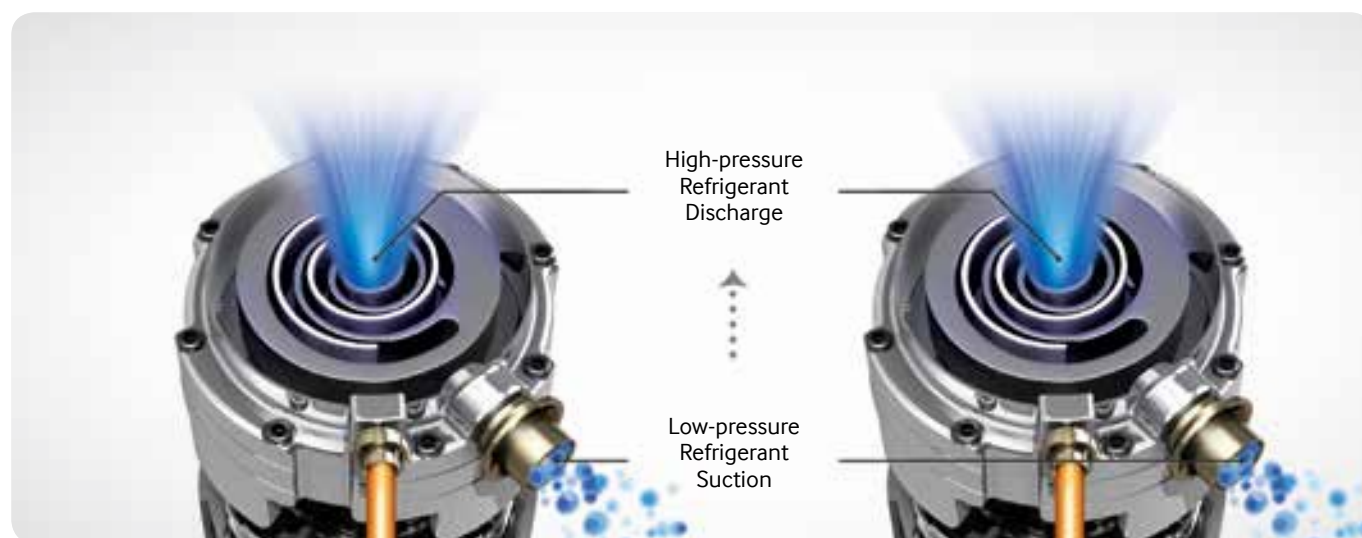
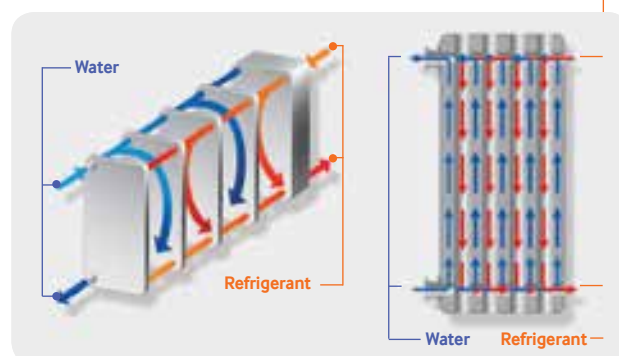


PLATE HEAT EXCHANGER

Plate heat exchanger allowing stable cooling and heating performance.



VAPOUR INJECTION SYSTEM

The vapour injection system within the compressor helps to increase the refrigerant flow rate compared to previous Samsung DVM generation.



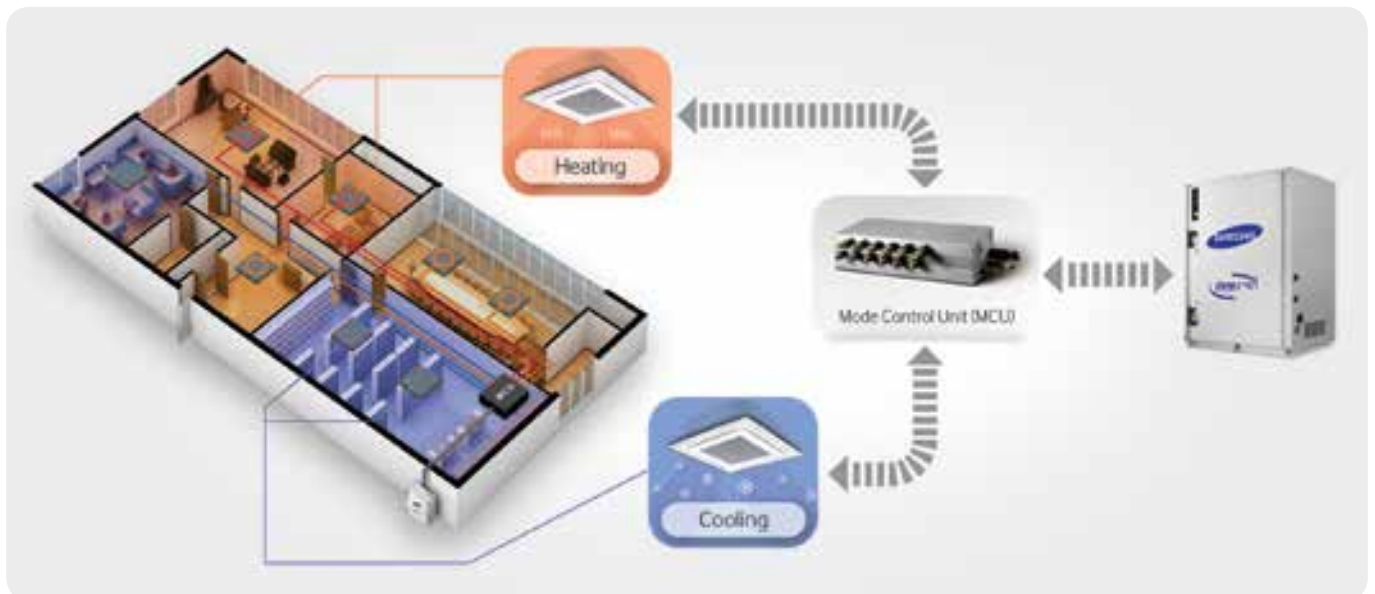
LONG PIPING LENGTH & HIGH ELEVATION

Extended piping length of up to 170m between furthest fan coil unit and condenser unit, and installation height difference of up to 50m.



SIMULTANEOUS COOLING AND HEATING

Simultaneous heating and cooling is possible when use in conjunction with Mode Control Unit (MCU).



DVM S WATER OUTDOOR UNIT LINE UP



DVM S

DIGITAL VARIABLE MULTI

- DSI (Dual Smart Inverter) system
- High efficiency plate heat exchanger
- Condensers can be located within plant room
- Low operating noise, no condenser fan noise
- Flexibility in refrigerant pipe design
- Piping distance of up to 170m between furthest fan coil to condenser

DVM S Water		8	10	12	16	18	20	22	24	26	28	30
	AM080FXWANR/EU	1			2	1				2	1	
	AM100FXWANR/EU		1			1		1		1		1
	AM120FXWANR/EU			1				1	2			
	AM200FXWANR/EU						1				1	1

DVM S Water		32	34	36	38	40	42	44	48	50	52	60
	AM080FXWANR/EU			2	1				1			
	AM100FXWANR/EU		1		1		1			1		
	AM120FXWANR/EU	1	2				1	2			1	
	AM200FXWANR/EU	1		1	1	2	1	1	2	2	2	3

DVMS Specification – Outdoor Units



DVMS WATER

DIGITAL VARIABLE MULTI

- DSI (Dual Smart Inverter) system
- High efficiency plate heat exchanger
- Condensers can be located within plant room
- Low operating noise, no condenser fan noise
- Flexibility in refrigerant pipe design
- Piping distance of up to 170m between furthest fan coil to condenser

DVMS Water

Model Name				AM080FXWANR/EU	AM100FXWANR/EU
Power Supply		Φ, #, V, Hz		3,4,380-415,50/60	3,4,380-415,50/60
Mode				HEAT PUMP & HEAT RECOVERY	HEAT PUMP & HEAT RECOVERY
Performance	HP	HP		8.00	10.00
	Capacity (Nominal)	Cooling ¹	kW	22.00	28.00
		Heating ²	kW	25.00	32.00
Power	Power Input (Nominal)	Cooling ¹	kW	3.84	5.05
		Heating ²		4.12	5.25
	Current Input (Nominal)	Cooling ¹	A	6.20	8.10
		Heating ²		6.60	8.40
	MCA ⁴			16.30 (MCA)	20.00 (MCA)
	MFA ⁴			20.00	20.00
COP	Nominal Cooling ¹			5.73	5.54
	Nominal Heating ²			6.07	6.10
Compressor	Type			SSC Scroll x 1	SSC Scroll x 1
	Output		kW x n	(4.96)	(4.96)
	Model Name			DS-GB052FAVBSG x 1	DS-GB052FAVBSG x 1
	Oil	Type		PVE	PVE
		Initial Charge	cc	2300	2300
Condenser	Type			PHE(Stainless Steel Plate)	PHE(Stainless Steel Plate)
	Pipe Size		Φ, inch	32.0	32.0
	Lost Head		kPa	22.0	30.0
	Water Flow Rate		LPM	80.0	96.0
	Max. Pressure		Mpa	1.96	1.96
Piping Connections	Liquid Pipe		Φ, mm	9.52	9.52
			Φ, inch	3/8"	3/8"
	Gas Pipe		Φ, mm	19.05	22.22
			Φ, inch	3/4"	7/8"
	Discharge Gas Pipe		Φ, mm	15.88	19.05
			Φ, inch	5/8"	3/4"
	Oil Equalizing Pipe		Φ, mm	-	-
		Φ, inch	-	-	
Installation Limitation	Max. Length		m	170(190)	170(190)
	Max. Height		m	50.0(40.0)	50.0(40.0)
Field Wiring	Power Source Wire		mm ²	2.5	2.5
	Transmission Cable		mm ²	0.75 ~ 1.25	0.75 ~ 1.25
Refrigerant	Type			R410A	R410A
	Factory Charging		kg	6.00	6.00
Sound ³	Sound Pressure		dB(A)	56.0 / 48.0	56.0 / 48.0
	Sound Power		dB(A)	-	-
External Dimension	Net Weight		kg	160.0	160.0
	Shipping Weight		kg	167.0	167.0
	Net Dimensions (WxHxD)		mm	770 x 1,000 x 545	770 x 1,000 x 545
	Shipping Dimensions (WxHxD)		mm	840 x 1,200 x 620	840 x 1,200 x 620
Operating Temp. Range	Cooling		°C	10.0 ~ 45.0	10.0 ~ 45.0
	Heating		°C	10.0 ~ 45.0	10.0 ~ 45.0

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2) Nominal heating capacities are based on - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

4) MCA : Minimum Circuit Amps., MFA : Maximum Fuse Amps.

AM120FXWANR/EU	AM200FXWANR/EU
3,4,380-415,50/60	3,4,380-415,50/60
HEAT PUMP & HEAT RECOVERY	HEAT PUMP & HEAT RECOVERY
12.00	20.00
34.00	56.00
38.00	63.00
6.46	10.77
6.51	10.86
10.30	17.30
10.40	17.40
25.00 (MCA)	39.80 (MCA)
30.00	40.00
5.26	5.20
5.84	5.80
SSC Scroll x 1	SSC Scroll x 2
(6.13)	(4.96x2)
DS-GB066FAVBSG x 1	DS-GB052FAVBSG x 2
PVE	PVE
2300	4600
PHE(Stainless Steel Plate)	PHE(Stainless Steel Plate)
32.0	32.0
43.0	54.0
114.0	190.0
1.96	1.96
12.70	15.88
1/2"	5/8"
28.58	28.58
1 1/8"	1 1/8"
19.05	28.58
3/4"	1 1/8"
-	-
-	-
170(190)	170(190)
50.0(40.0)	50.0(40.0)
4.0	4.0
0.75 ~ 1.25	0.75 ~ 1.25
R410A	R410A
6.00	10.00
57.0 / 50.0	58.0 / 51.0
-	-
160.0	240.0
167.0	250.0
770 x 1,000 x 545	1,100 x 1,000 x 545
840 x 1,200 x 620	1,170 x 1,200 x 620
10.0 ~ 45.0	10.0 ~ 45.0
10.0 ~ 45.0	10.0 ~ 45.0

DVM S Mini

DIGITAL VARIABLE MULTI



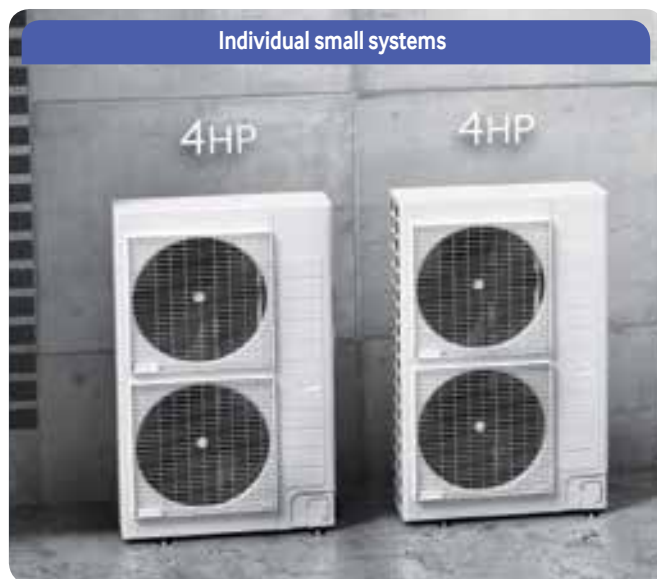
Various Indoor Units



DVM S Mini condenser range are compact units that can connect up to 9 fan coil units of various types, and are great for light commercial and residential applications.

COMPACT IN SIZE AND LIGHT WEIGHT

Up to 22kW in one side discharge condenser module.

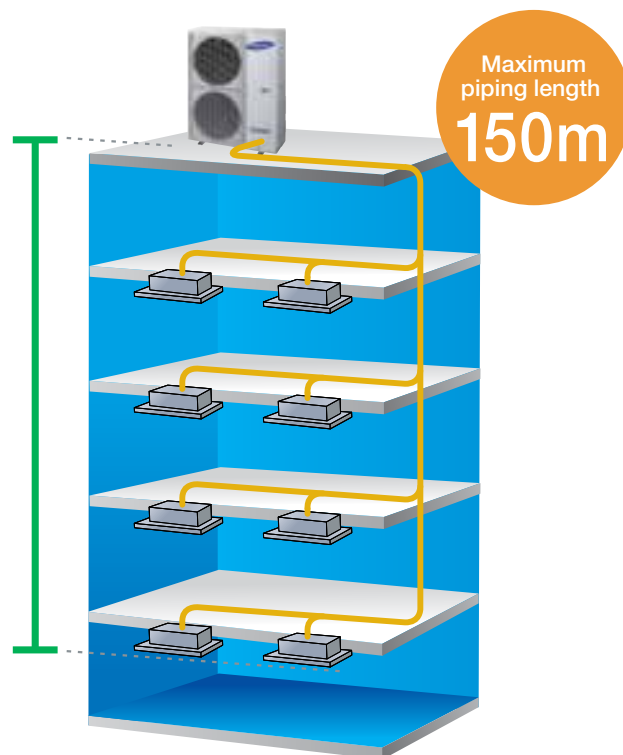


FLEXIBLE PIPING DESIGN

Allows an extended piping length of up to 150m, and maximum level difference of 50m, facilitating a variety of system designs.

Maximum difference between Indoor and Outdoor Units

50m



DVM S Specification – Outdoor Units



DVM S Mini

DIGITAL VARIABLE MULTI

- High Energy Efficiency
- Long Pipe Runs
- Low Operating Noise
- Heat Pump operation only

DVM S Mini (heat Pump)

Model Name		AM040FXMDEH/EU	AM050FXMDEH/EU	AM060FXMDEH/EU	
Power Supply	Φ, #, V, Hz	1,2.220-240,50	1,2.220-240,50	1,2.220-240,50	
Performance	HP	4	5	6	
	Capacity (Nominal)	Cooling ¹ kW Heating ² kW	12.1 13.5	14.0 16.0	15.5 18.0
Power	Power Input (Nominal)	Cooling ¹ kW Heating ² kW	2.89 3.02	3.68 3.61	4.31 4.39
	Current Input (Nominal)	Cooling ¹ A Heating ² A	14 15.1	17.80 17.20	21.00 20.20
	MCA ⁴	A	22.00 (Max.)	24.00 (Max.)	32.00 (Max.)
	MFA ⁴	A	30.00	30.00	40.00
COP	Nominal Cooling	-	4.19	3.80	3.60
	Nominal Heating	-	4.47	4.43	4.10
Compressor	Type	-	Twin BLDC Rotary x 1	Twin BLDC Rotary x 1	Twin BLDC Rotary x 1
	Output	kW x n	(4.12)	(4.12)	(4.12)
	Model Name	-	UGST450FUEJXSG x 1	UGST450FUEJXSG x 1	UGST450FUEJXSG x 1
	Oil	Type Initial Charge	- cc	POE 1700	POE 1700
Fan	Type	-	Propeller / BLDC	Propeller / BLDC	Propeller / BLDC
	Output x n	W	125 x 2	125 x 2	125 x 2
	Air Flow Rate	CMM l/s	100 1667	100 1667	100 1667
	External Static Pressure	Max. mmAq Pa	- -	- -	- -
Piping Connections	Liquid Pipe	Φ, mm	9.52	9.52	9.52
		Φ, inch	3/8"	3/8"	3/8"
	Gas Pipe	Φ, mm	15.88	15.88	19.05
		Φ, inch	5/8"	5/8"	3/4"
	Discharge Gas Pipe (HR)	Φ, mm	-	-	-
		Φ, inch	-	-	-
	Oil Equalizing Pipe	Φ, mm Φ, inch	- -	- -	- -
	Installation Limitation	Max. Length	m	150(175)	150(175)
Max. Height		m	50(40)	50(40)	50(40)
Field Wiring	Power Source Wire	mm ²	2.5 ~ 4.0	2.5 ~ 4.0	4.0 ~ 6.0
	Transmission Cable	mm ²	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5
Refrigerant	Type	-	R410A	R410A	R410A
	Factory Charging	kg	3.20	3.20	3.30
Sound ³	Sound Pressure	dB(A)	50.0	51.0	53.0
	Sound Power	dB(A)	66.0	67.0	69.0
External Dimension	Net Weight	kg	100.0	100.0	103.0
	Shipping Weight	kg	105.0	105.0	108.0
	Net Dimensions (WxHxD)	mm	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330
	Shipping Dimensions (WxHxD)	mm	995 x 1,368 x 426	995 x 1,368 x 426	995 x 1,368 x 426
Operating Temp. Range	Cooling	°C	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0
	Heating	°C	-20.0 ~ 26.0	-20.0 ~ 26.0	-20.0 ~ 26.0

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2) Nominal heating capacities are based on - Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

4) MCA : Minimum Circuit Amps., MFA : Maximum Fuse Amps.

AM040FXMDGH/EU	AM050FXMDGH/EU	AM060FXMDGH/EU	AM080FXMDGH/EU
3,4.380-415,50	3,4.380-415,50	3,4.380-415,50	3,4.380-415,50
4	5	6	8
12.1	14.0	15.5	22.4
13.5	16.0	18.0	25.0
2.89	3.68	4.31	5.7
3.02	3.61	4.39	4.9
4.8	6.20	7.30	9.7
5	6.00	6.90	8.2
12.00 (Max.)	13.00 (Max.)	14.00 (Max.)	18.0
20.00	20.00	20.00	25.0
4.19	3.80	3.60	3.92
4.47	4.43	4.10	5.12
Twin BLDC Rotary x 1	Twin BLDC Rotary x 1	Twin BLDC Rotary x 1	SSC Scroll x 1
(4.12)	(4.12)	(4.12)	(4.96)
UGST450FUFXSG x 1	UGST450FUFXSG x 1	UGST450FUFXSG x 1	DS-GB052FAVADO x 1
POE	POE	POE	PVE
1700	1700	1700	2300
Propeller / BLDC	Propeller / BLDC	Propeller / BLDC	Propeller
125 x 2	125 x 2	125 x 2	180.0 x 2
100	100	100	135
1667	1667	1667	2,250
-	-	-	-
-	-	-	-
9.52	9.52	9.52	9.52
3/8"	3/8"	3/8"	3/8"
15.88	15.88	19.05	19.05
5/8"	5/8"	3/4"	3/4"
-	-	-	-
-	-	-	-
-	-	-	-
150(175)	150(175)	150(175)	100(100)
50(40)	50(40)	50(40)	30 (30)
1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5	-
0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5
R410A	R410A	R410A	R410A
3.20	3.20	3.30	3.7
50.0	51.0	53.0	56.0
66.0	67.0	69.0	74.0
100.0	100.0	103.0	135.0
105.0	105.0	108.0	145.0
940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,420 x 330
995 x 1,368 x 426	995 x 1,368 x 426	995 x 1,368 x 426	995 x 1,578 x 426
-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0	-5.0 ~ 48.0
-20.0 ~ 26.0	-20.0 ~ 26.0	-20.0 ~ 26.0	-20.0 ~ 24.0

INDOOR UNIT

Ducted Type

From large capacity and large air flow ducted units to slim line low profile units for various applications.

Cassette Type

Samsung cassette range from 1-way discharge, 2-way, and 4-way discharge types; ideal for various interior design installations.

Wall-Mounted Type

A wide range of wall mounted type fan coils, with the option of built-in expansion valve, or the option with external expansion valves.










Console & Ceiling Type





Compact unit and stylish panel design to meet your aesthetic design requirements.














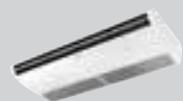






DVMS Lineup & Features – Indoor Units

DUCT					
MODEL					
	Slim	Duct S	Duct S (Split Fan Coil)	HSP Duct	OAP Duct
2.2	●				
2.8	●				
3.6	●	●			
4.5	●	●			
5.6	●	●			
7.1	●	●			
9.0	●	●			
11.2	●	●			
12.8	●	●			
14.0	●	●			●
18.0			●		
20.0					
22.0			●		●
28.0				●	●
 Pre Filter	●	●	●	●	●
 Easy Filter Cleaning	●	●	●	●	●
 Optional drain pump	●	●	●	●	●
 Configure fan static from wall controller	●	●	●	●	●

WALL-MOUNTED		
MODEL		
	Neo Forte	Neo Forte-E
2.2	●	●
2.8	●	●
3.6	●	●
4.5		●
5.6	●	●
7.1	●	●
 Deodorizing Filter	●	●
 good sleep	●	●

CASSETTE				
MODEL				
	4 Way (Standard)	4 Way (600 x 600)	1 Way	2 Way
2.2		●	●	
2.8		●	●	
3.6		●	●	
4.5	●	●		
5.6	●	●		●
6.0		●		
7.1	●			●
9.0	●			
11.2	●			
12.8	●			
14.0	●			
 Powerful Airflow	●	●	●	
 Low dust louver design	●	●	●	
 Outside air intake knockout	●	●		
 Built in drain pump	●	●	●	●
 Knockout for subducting	●	●		

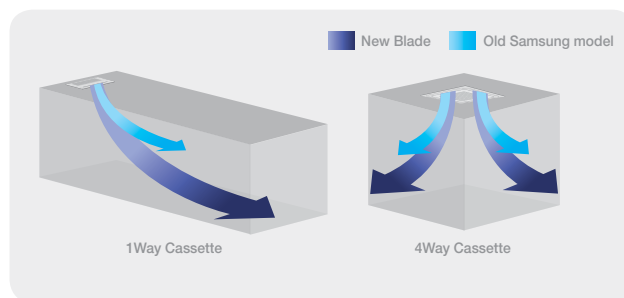
CONSOLE & CEILING			
MODEL			
	Console	Ceiling / Floor mounted	Ceiling / Large Capacity
2.8	●		
3.6	●		
5.6	●	●	
7.1		●	
11.2			●
14.0		●	●
 Slim and aesthetic design	●	●	●
 2 Way installation		●	
 Lightweight Unit	●	●	
 Flexible Pipe Installation	●	●	●

4 WAY CASSETTE TYPE (STANDARD)



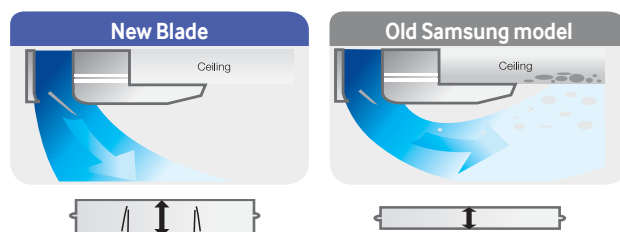
POWERFUL AIRFLOW

Wide blade design and powerful fan motor delivers high air volume at a great distance throw.



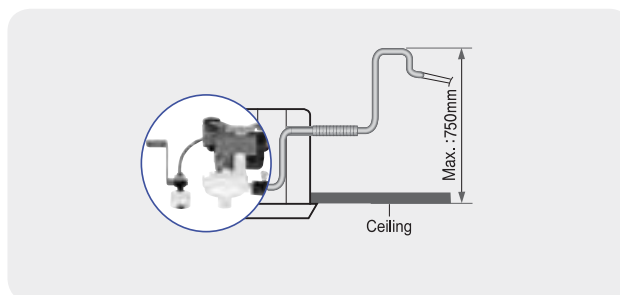
MINIMISE DUST LOUVER DESIGN

The new designed panel helps reduce air flow dust from contacting the ceiling during operation, thus helps to reduce dust marks from forming on the ceiling around the unit.



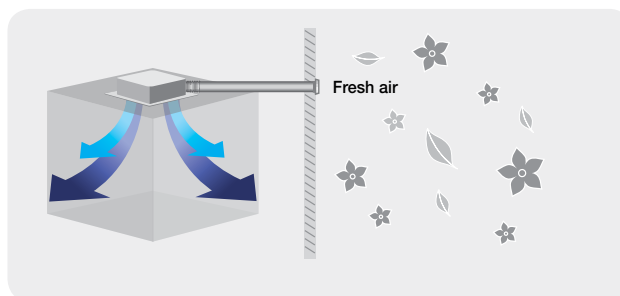
BUILT IN DRAIN PUMP

Built-in drain pump can lift fan coil condensing water up to 750mm from the drain pan, allowing installation flexibility.



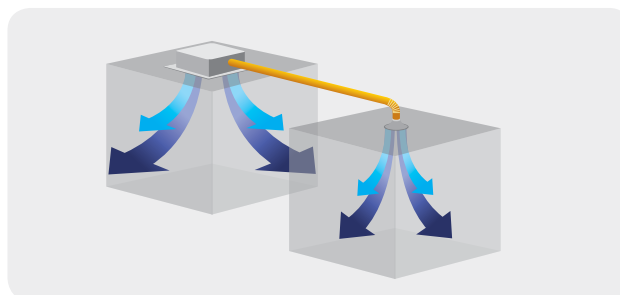
OUTSIDE AIR INTAKE KNOCKOUT

Cassette unit body has knockout available for outside air intake duct connection.



KNOCKOUT FOR SUB-DUCTING

Cassette unit body has knockout to duct conditioned air into a separate space, allowing installation flexibility.



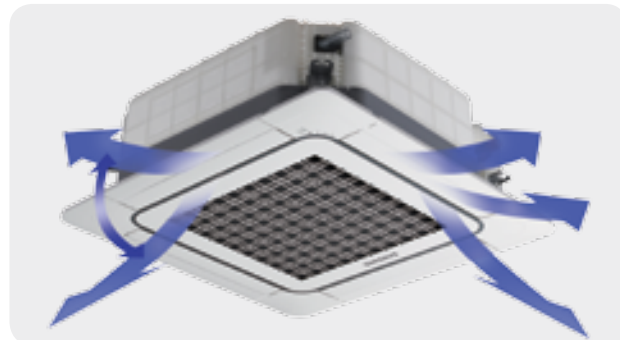
4 WAY CASSETTE TYPE (STANDARD)



Aesthetic Panel Design with Waffle Pattern

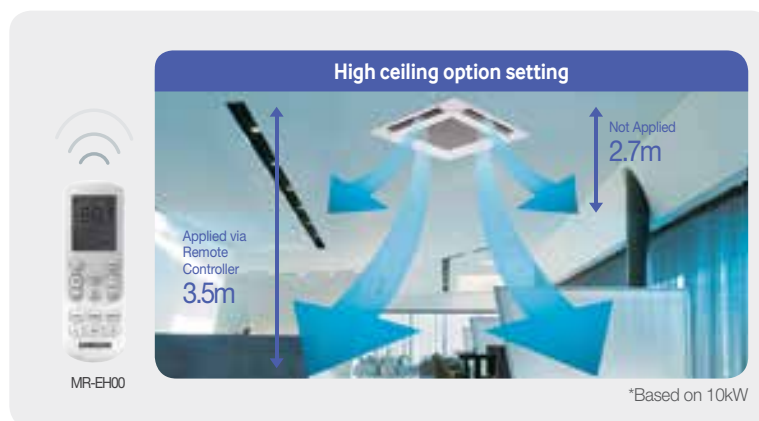
INDIVIDUAL BLADE CONTROL

With Individual discharge louver blade control, the user can control each of the 4 blades individually, set at the required angle to provide comfort control.



FAN SPEED ADJUSTMENT FOR HIGH CEILING

Using either a wall controller or wireless controller, cassette fan speed can be configured to high ceiling application to compensate for high ceiling air flow requirements.



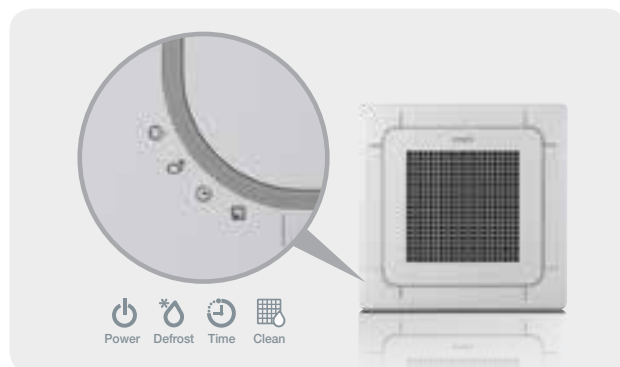
EASY BLADE CLEANING

Cassette blades are designed to be easily removed when required for cleaning, without the need to remove the whole panel.



SIMPLE DISPLAY

Simple display minimises aesthetic interference to your interior design.



NEAT AND CLEAN DESIGN

Simple and neat design easily blends the unit into most interior decor.





4 Way Cassette Type (Standard)

- Individual louver blade control
- Outside air intake knockout
- Fan speed configuration for high ceiling application
- Built-in drain pump

4Way Cassette S

Model				AM045FN4DEH/EU	AM056FN4DEH/EU	AM071FN4DEH/EU
Power Supply			Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Mode			-	HP/HR	HP/HR	HP/HR
Performance	Capacity ¹ (Nominal)	Cooling	kW	4.50	5.60	7.10
		Heating	kW	5.00	6.30	8.00
Power	Power Input (Nominal)	Cooling	W	32.00	32.00	45.00
		Heating	W	32.00	32.00	45.00
	Current Input (Nominal)	Cooling	A	0.22	0.22	0.31
		Heating	A	0.22	0.22	0.31
Fan	Motor	Type	-	Turbo Fan	Turbo Fan	Turbo Fan
		Output x n	W	-	-	-
	Air Flow Rate	High / Mid / Low (UL)	CMM	14.50/13.50/12.50	15.00/14.00/13.00	17.00/15.50/14.50
			I/s	241.67/225.00/208.33	250.00/233.33/216.67	283.33/258.33/241.67
External Static Pressure	Min. / Std. / Max.	mmAq	-	-	-	
		Pa	-	-	-	
Piping Connections	Liquid Pipe	Φ, mm	6.35	6.35	9.52	
		Φ, inch	1/4"	1/4"	3/8"	
	Gas Pipe	Φ, mm	12.70	12.70	15.88	
		Φ, inch	1/2"	1/2"	5/8"	
Drain Pipe	Φ, mm	VP25 (OD 32.ID 25)	VP25 (OD 32.ID 25)	VP25 (OD 32.ID 25)		
Field Wiring	Power Source Wire	mm ²	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5	
	Transmission Cable	mm ²	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50	
Refrigerant	Type	-	R410A	R410A	R410A	
	Control Method	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	
Sound	Sound Pressure ²	High / Mid / Low	dB(A)	33.0/32.0/30.0	33.0/32.0/30.0	35.0/34.0/33.0
	Sound Power	Cooling	dB(A)	51.0	51.0	53.0
Dimensions	Net Weight	kg	15.50	15.50	15.50	
	Shipping Weight	kg	19.50	19.50	19.50	
	Net Dimensions (WxHxD)	mm	840 x 204 x 840	840 x 204 x 840	840 x 204 x 840	
	Shipping Dimensions (WxHxD)	mm	898 x 275 x 898	898 x 275 x 898	898 x 275 x 898	
Panel Size	Panel Model	-	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN	
	Panel Net Weight	kg	5.80	5.80	5.80	
	Shipping Weight	kg	8.40	8.40	8.40	
	Net Dimensions (WxHxD)	mm	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	
	Shipping Dimensions (WxHxD)	mm	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005	
Additional Accessories	Drain Pump	Drain Pump	-	Built-in	Built-in	Built-in
		Max. Lifting Height / Displacement	mm / liter/h	750/24	750/24	750/24

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Optional accessories (sold separately)

Individual Controllers



MWR-WE10N



MWR-SH10N



MR-EH00

AM090FN4DEH/EU	AM112FN4DEH/EU	AM128FN4DEH/EU	AM140FN4DEH/EU
1,2.220-240.50	1,2.220-240.50	1,2.220-240.50	1,2.220-240.50
HP/HR	HP/HR	HP/HR	HP/HR
9.00	11.20	12.80	14.00
10.00	12.50	13.80	16.00
62.00	78.00	73.00	89.00
62.00	78.00	73.00	89.00
0.43	0.55	0.51	0.62
0.43	0.55	0.51	0.62
Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
-	-	-	-
19.50/18.00/16.50	26.00/24.00/22.00	28.00/26.00/23.00	30.00/28.00/26.00
325.00/300.00/275.00	433.33/400.00/366.67	466.67/433.33/383.33	500.00/466.67/433.33
-	-	-	-
-	-	-	-
9.52	9.52	9.52	9.52
3/8"	3/8"	3/8"	3/8"
15.88	15.88	15.88	15.88
5/8"	5/8"	5/8"	5/8"
VP25 (OD 32.ID 25)	VP25 (OD 32.ID 25)	VP25 (OD 32.ID 25)	VP25 (OD 32.ID 25)
1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50
R410A	R410A	R410A	R410A
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
39.0/36.0/33.0	40.0/38.0/35.0	42.0/40.0/35.0	44.0/41.0/35.0
57.0	57.0	59.0	60.0
15.50	17.00	19.00	19.00
19.50	20.00	22.50	22.50
840 x 204 x 840	840 x 246 x 840	840 x 288 x 840	840 x 288 x 840
898 x 275 x 898	898 x 316 x 898	898 x 357 x 898	898 x 357 x 898
PC4NUSKAN	PC4NUSKAN	PC4NUSKAN	PC4NUSKAN
5.80	5.80	5.80	5.80
8.40	8.40	8.40	8.40
950 x 45 x 950	950 x 45 x 950	950 x 45 x 950	950 x 45 x 950
1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005	1005 x 100 x 1005
Built-in	Built-in	Built-in	Built-in
750/24	750/24	750/24	750/24

Panel



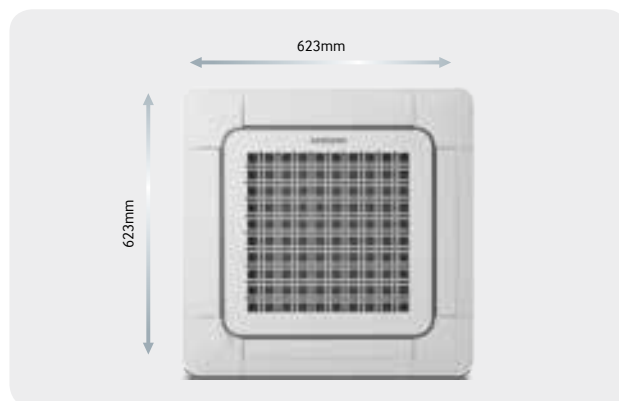
PC4NUSKAN

4 WAY COMPACT CASSETTE TYPE (600X600)



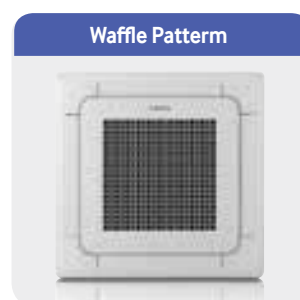
COMPACT UNIT

Mini 4 Way Cassette S can be easily installed on one standard ceiling tile (600W x 600D).



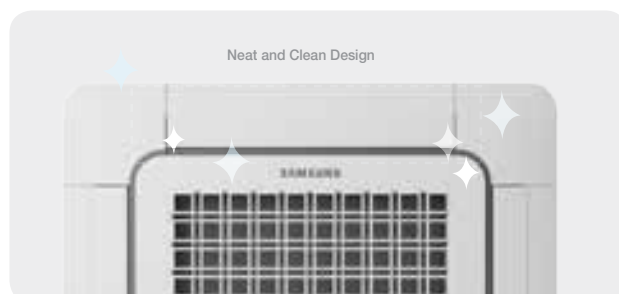
STYLISH AND AESTHETIC PANEL

Stylish waffle designed pattern fascia panel.



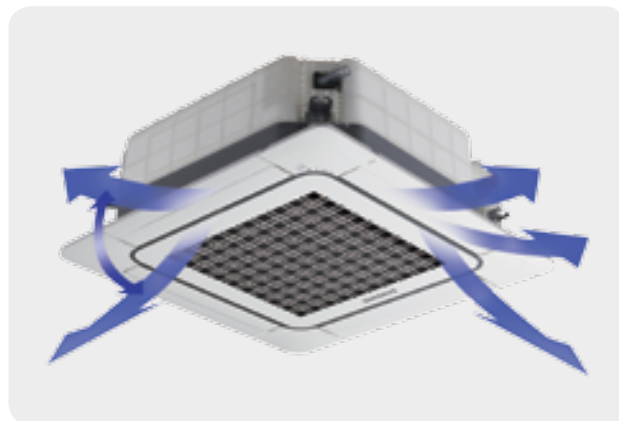
NEAT AND CLEAN DESIGN

Simple and neat design easily blends the unit into most interior decor.



INDIVIDUAL BLADE CONTROL

By using remote controller, the opening angles of the 4 blades can be individually set at the same or different angles within a 32°~65° range. With the technology, each user now can choose whether to feel the fresh wind directly or not.



BUILT IN DRAIN PUMP

Built-in drain pump can lift fan coil condensing water up to 750mm from the drain pan, allowing installation flexibility.



4 Way Compact Cassette Type (600 x 600)

- Individual louver blade control
- Outside air intake knockout
- Built-in drain pump

4Way Cassette S (600x600)

Model				AM022FNNDH/EU	AM028FNNDH/EU
Power Supply	Φ, #, V, Hz			1,2.220-240,50	1,2.220-240,50
Mode				HP/HR	HP/HR
Performance	Capacity ¹ (Nominal)	Cooling	kW	2.20	2.80
		Heating	kW	2.50	3.20
Power	Power Input (Nominal)	Cooling	W	18.00	18.00
		Heating	W	18.00	18.00
	Current Input (Nominal)	Cooling	A	0.17	0.17
		Heating	A	0.17	0.17
Fan	Motor	Type	-	Turbo Fan	Turbo Fan
		Output x n	W	65 x 1	65 x 1
	Air Flow Rate	High / Mid / Low (UL)	CMM	9.00/7.70/6.50	10.00/8.50/7.50
			I/s	150.00/128.33/108.33	166.67/141.67/125.00
External Static Pressure	Min. / Std. / Max.	mmAq	-	-	
		Pa	-	-	
Piping Connections	Liquid Pipe	Φ, mm	6.35	6.35	
		Φ, inch	1/4"	1/4"	
	Gas Pipe	Φ, mm	12.70	12.70	
		Φ, inch	1/2"	1/2"	
Drain Pipe	Φ, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)		
Field Wiring	Power Source Wire	mm ²	1.5 ~ 2.5	1.5 ~ 2.5	
	Transmission Cable	mm ²	0.75 ~ 1.50	0.75 ~ 1.50	
Refrigerant	Type	-	R410A	R410A	
	Control Method	-	EEV INCLUDED	EEV INCLUDED	
Sound	Sound Pressure ²	High / Mid / Low	dBA	32.0/29.0/25.0	33.0/30.0/26.0
		Cooling	dBA	47.0	50.0
Dimensions	Net Weight	kg	12.00	12.00	
	Shipping Weight	kg	14.00	14.00	
	Net Dimensions (WxHxD)	mm	575 x 250 x 575	575 x 250 x 575	
	Shipping Dimensions (WxHxD)	mm	623 x 298 x 653	623 x 298 x 653	
Panel Size	Panel Model	-	PC4SUSMAN	PC4SUSMAN	
	Panel Net Weight	kg	2.70	2.70	
	Shipping Weight	kg	4.20	4.20	
	Net Dimensions (WxHxD)	mm	670 x 45 x 670	670 x 45 x 670	
	Shipping Dimensions (WxHxD)	mm	714 x 106 x 724	714 x 106 x 724	
Additional Accessories	Drain Pump	Drain Pump	-	Built-in	Built-in
		Max. Lifting Height / Displacement	mm / liter/h	750/24	750/24

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Optional accessories (sold separately)

Individual Controllers



MWR-WE10N



MWR-SH10N



MR-EH00

AM036FNNDH/EU	AM045FNNDH/EU	AM056FNNDH/EU	AM060FNNDH/EU
1,2.220-240,50	1,2.220-240,50	1,2.220-240,50	1,2.220-240,50
HP/HR	HP/HR	HP/HR	HP/HR
3.60	4.50	5.60	6.00
4.00	5.00	6.30	6.80
20.00	23.00	28.00	31.00
20.00	23.00	28.00	31.00
0.19	0.22	0.27	0.30
0.19	0.22	0.27	0.30
Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
65 x 1	65 x 1	65 x 1	65 x 1
10.50/9.50/8.00	11.50/10.20/9.00	13.00/11.00/9.50	13.50/12.00/10.20
175.00/158.33/133.33	191.67/170.00/150.00	216.67/183.33/158.33	225.00/200.00/170.00
-	-	-	-
-	-	-	-
6.35	6.35	6.35	6.35
1/4"	1/4"	1/4"	1/4"
12.70	12.70	12.70	12.70
1/2"	1/2"	1/2"	1/2"
VP25 (OD 32.ID 25)	VP25 (OD 32.ID 25)	VP25 (OD 32.ID 25)	VP25 (OD 32.ID 25)
1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50
R410A	R410A	R410A	R410A
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
34.0/30.0/26.0	36.0/34.0/32.0	39.0/36.0/33.0	40.0/38.0/35.0
51.0	53.0	56.0	57.0
12.00	12.00	12.00	12.00
14.00	14.00	14.00	14.00
575 x 250 x 575	575 x 250 x 575	575 x 250 x 575	575 x 250 x 575
623 x 298 x 653	623 x 298 x 653	623 x 298 x 653	623 x 298 x 653
PC4SUSMAN	PC4SUSMAN	PC4SUSMAN	PC4SUSMAN
2.70	2.70	2.70	2.70
4.20	4.20	4.20	4.20
670 x 45 x 670	670 x 45 x 670	670 x 45 x 670	670 x 45 x 670
714 x 106 x 724	714 x 106 x 724	714 x 106 x 724	714 x 106 x 724
Built-in	Built-in	Built-in	Built-in
750/24	750/24	750/24	750/24

Panel



PC4SUSMAN

SLIM 1 WAY CASSETTE TYPE



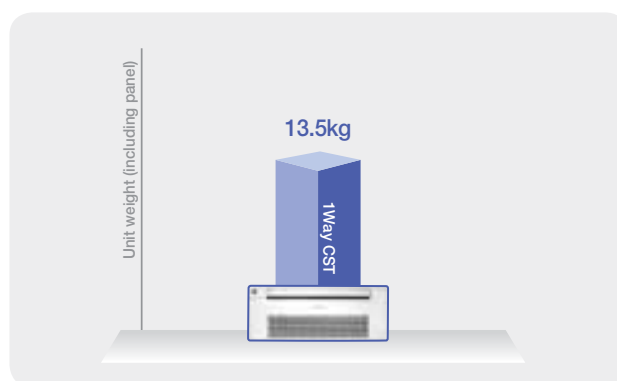
STYLISH AND AESTHETIC PANEL

The clean lines and simple display design make this a modern classic, that looks great with almost any interior.



LIGHT INDOOR UNIT

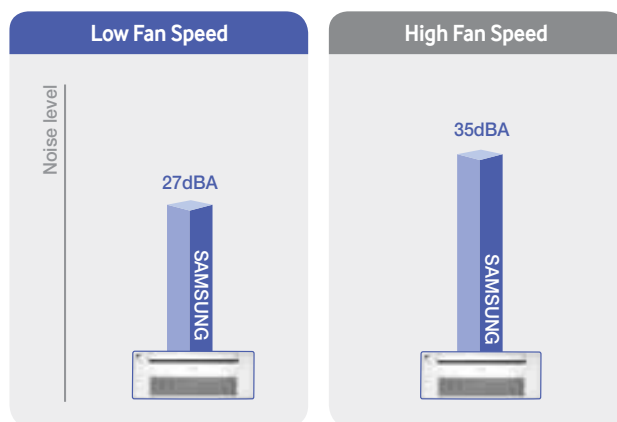
Samsung uses ABS cabinets in its indoor units making them slim and lightweight for easy installation and maintenance.



* 10.5kg (excluding panel)

QUIET OPERATION

Samsung louver design helps to deliver low noise levels so that you can relax in peace and quiet.



* 3.6kW model sound pressure level

Sound level was acquired in an anechoic room.

Actual noise level may be different depending on the installation conditions

NO OVERFLOWING DRAIN WATER

The check valve in the drain pump helps prevent drained water from overflowing backward into the drain pan, minimising the drain pan water level.



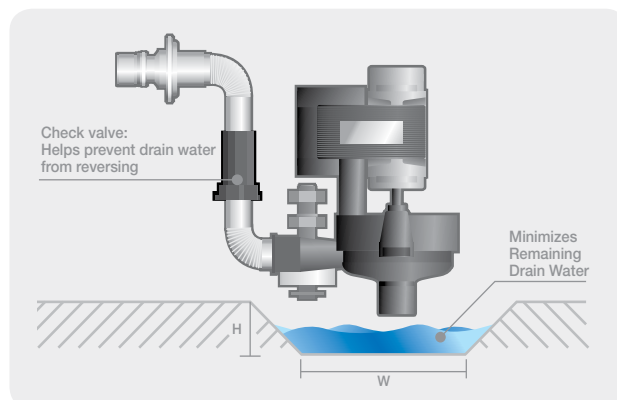
ONE-WAY FLOW



CLEAN CEILING



NO OVERFLOW

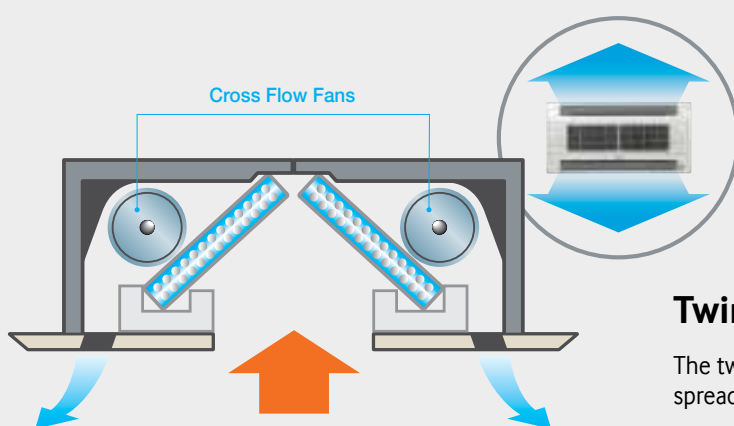


2 WAY CASSETTE TYPE



Ideal for Long and Narrow Places

With its slim and compact body, 2 way cassette unit is the ideal fan coil solution for long and narrow places such as corridors and classrooms.



Twin Cross Flow Fan

The twin Cross Flow Fan inside 2 Way Cassette will spread cool or warm air throughout the space.

DVMS Specification – Indoor Units



1 Way Cassette

- Slim and light weight
- No overflowing drain pump system
- Built-in high lift drain pump

Slim 1Way Cassette

Model				AM022FN1DEH/EU	AM028FN1DEH/EU	AM036FN1DEH/EU
Power Supply	Φ, #, V, Hz			1,2.220-240,50	1,2.220-240,50	1,2.220-240,50
Mode				HP/HR	HP/HR	HP/HR
Performance	Capacity ¹ (Nominal)	Cooling	kW	2.20	2.80	3.60
		Heating	kW	2.50	3.20	4.00
Power	Power Input (Nominal)	Cooling	W	50.00	50.00	50.00
		Heating	W	50.00	50.00	50.00
	Current Input (Nominal)	Cooling	A	0.20	0.23	0.25
		Heating	A	0.20	0.23	0.25
Fan	Motor	Type	-	Crossflow Fan	Crossflow Fan	Crossflow Fan
		Output x n	W	17 x 1	17 x 1	17 x 1
	Air Flow Rate	High / Mid / Low (UL)	CMM	6.00/5.00/4.00	7.00/6.00/5.00	8.00/7.00/6.00
			l/s	100.00/83.33/66.67	116.67/100.00/83.33	133.33/116.67/100.00
External Static Pressure	Min. / Std. / Max.	mmAq	-	-	-	
		Pa	-	-	-	
Piping Connections	Liquid Pipe	Φ, mm	6.35	6.35	6.35	
		Φ, inch	1/4"	1/4"	1/4"	
	Gas Pipe	Φ, mm	12.70	12.70	12.70	
		Φ, inch	1/2"	1/2"	1/2"	
Drain Pipe	Φ, mm	VP20 (OD 26, ID 20)	VP20 (OD 26, ID 20)	VP20 (OD 26, ID 20)		
Field Wiring	Power Source Wire	mm ²	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5	
	Transmission Cable	mm ²	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50	
Refrigerant	Type	-	R410A	R410A	R410A	
	Control Method	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	
Sound	Sound Pressure ²	High / Mid / Low	dBA	27.0/25.0/23.0	29.0/27.0/24.0	35.0/31.0/27.0
Dimensions	Net Weight		kg	10.50	10.50	10.50
	Shipping Weight		kg	13.00	13.00	13.00
	Net Dimensions (WxHxD)		mm	970 x 135 x 410	970 x 135 x 410	970 x 135 x 410
	Shipping Dimensions (WxHxD)		mm	1164 x 212 x 478	1164 x 212 x 478	1164 x 212 x 478
Panel Size	Panel Model		-	PC1NUSMAN	PC1NUSMAN	PC1NUSMAN
	Panel Net Weight		kg	3.00	3.00	3.00
	Shipping Weight		kg	5.00	5.00	5.00
	Net Dimensions (WxHxD)		mm	1180 x 25 x 460	1180 x 25 x 460	1180 x 25 x 460
Additional Accessories	Drain Pump	Drain Pump	-	Built-in	Built-in	Built-in
		Max. Lifting Height / Displacement	mm / liter/h	750/24	750/24	750/24

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.
Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Optional accessories (sold separately)

Individual Controllers



MWR-WE10N



MWR-SH10N



MR-EH00

Panel



PC1NUSMAN



2 Way Cassette

- Twin cross flow fan
- No overflowing drain pump system
- Built-in high lift drain pump

2Way Cassette

Model		AM056FN2DEH/EU		AM071FN2DEH/EU	
Power Supply	Φ, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Mode		HP/HR		HP/HR	
Performance	Capacity ¹ (Nominal)	Cooling	kW	5.60	7.10
		Heating	kW	6.30	8.00
Power	Power Input (Nominal)	Cooling	W	70.00	75.00
		Heating	W	70.00	75.00
	Current Input (Nominal)	Cooling	A	0.38	0.40
		Heating	A	0.38	0.40
Fan	Motor	Type	-	Crossflow Fan	Crossflow Fan
	Air Flow Rate	High / Mid / Low (UL)	CMM	14.00/13.00/12.00	15.00/14.00/13.00
			l/s	233.33/216.67/200.00	250.00/233.33/216.67
	External Static Pressure	Min. / Std. / Max.	mmAq	-	-
Pa			-	-	
Piping Connections	Liquid Pipe	Φ, mm	6.35	9.52	
		Φ, inch	1/4"	3/8"	
	Gas Pipe	Φ, mm	12.70	15.88	
		Φ, inch	1/2"	5/8"	
Drain Pipe	Φ, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)		
Field Wiring	Power Source Wire	mm ²	1.5 ~ 2.5	1.5 ~ 2.5	
	Transmission Cable	mm ²	0.75 ~ 1.50	0.75 ~ 1.50	
Refrigerant	Type	-	R410A	R410A	
	Control Method	-	EEV INCLUDED	EEV INCLUDED	
Sound	Sound Pressure ²	High / Mid / Low	dB(A)	38.0/37.0/35.0	41.0/39.0/37.0
Dimensions	Net Weight	kg	21.00	22.00	
	Shipping Weight	kg	25.00	26.00	
	Net Dimensions (WxHxD)	mm	890 x 230 x 575	890 x 230 x 575	
	Shipping Dimensions (WxHxD)	mm	1077 x 299 x 642	1077 x 299 x 642	
Panel Size	Panel Model	-	PC2NUSMEN	PC2NUSMEN	
	Panel Net Weight	kg	4.00	4.00	
	Shipping Weight	kg	8.00	8.00	
	Net Dimensions (WxHxD)	mm	1030 x 25 x 650	1030 x 25 x 650	
	Shipping Dimensions (WxHxD)	mm	1103 x 151 x 727	1103 x 151 x 727	
Additional Accessories	Drain Pump	Drain Pump	-	Built-in	Built-in
		Max. Lifting Height / Displacement	mm / liter/h	750/24	750/24

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Optional accessories (sold separately)

Individual Controllers



MWR-WE10N



MWR-SH10N



MR-EH00

Panel



PC2NUSMEN

SLIM DUCT S

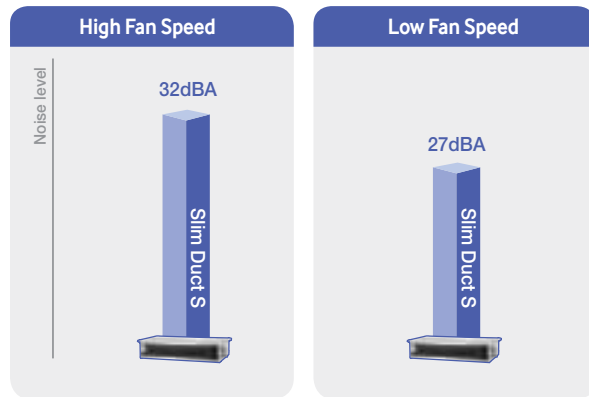


Samsung Slim Duct S is compact and lightweight, can easily be concealed into ceiling space, while providing the required air conditioning.

SLIM DUCT TYPE

QUIET OPERATION

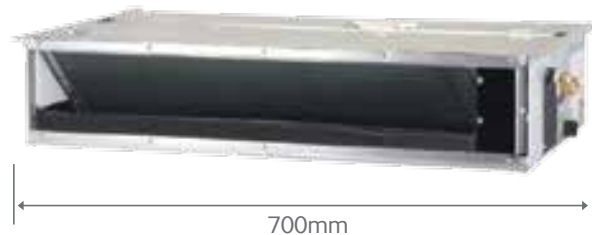
Samsung Slim Duct S operates at a remarkably low sound level, so that you can enjoy comfort in a quiet and peaceful environment.



* 3.6kW model sound pressure level
Sound level was acquired in an anechoic room. Actual noise level may be different depending on the installation conditions.

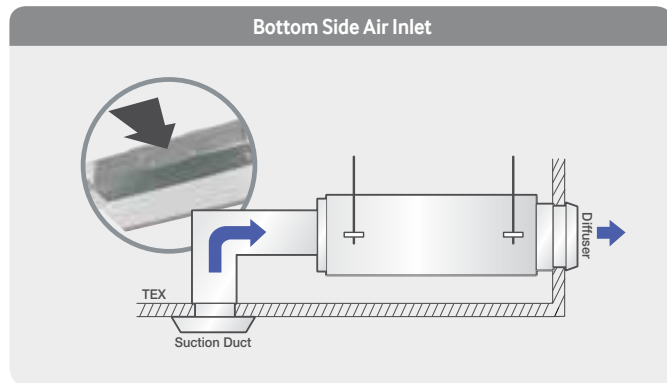
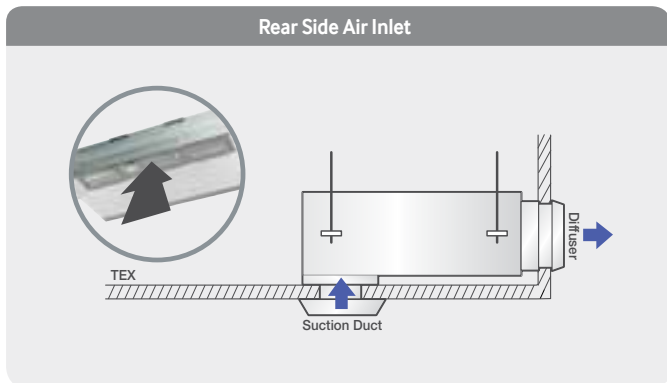
COMPACT SIZE

Slim Duct S 2.2kW, 2.8kW, and 3.6kW units are compact and low profile with a width of 700mm, depth of 600mm, and unit height of 199mm.



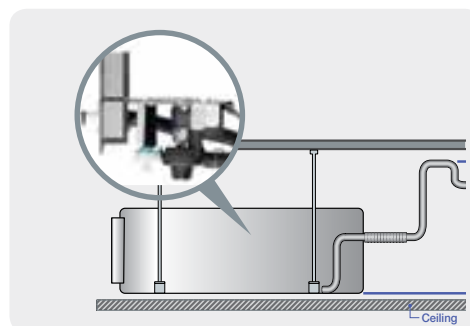
FLEXIBLE INSTALLATION

The air inlet can be set up either on the bottom or rear of the unit, giving you flexibility in installation.



HIGH LIFT DRAIN PUMP (SOLD SEPARATELY)

Maximum pump lift of 750mm.



DVMS Specification – Indoor Units



Slim Duct S

- Slim and light weight
- Quiet operation
- Flexible installation
- Drain pump kit, sold separately

Slim Duct

Model		AM022FNLDEH/ EU		AM028FNLDEH/ EU	
Power Supply	Φ, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Performance	Capacity ¹ (Nominal)	Cooling	kW	2.20	2.80
		Heating	kW	2.50	3.20
Power	Power Input (Nominal)	Cooling	W	55.00	60.00
		Heating	W	55.00	60.00
	Current Input (Nominal)	Cooling	A	0.30	0.32
		Heating	A	0.30	0.32
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan
		Output x n	W	69 x 1	-
	Air Flow Rate	High / Mid / Low (UL)	CMM	7.00/6.10/5.30	7.50/6.60/5.60
			l/s	116.67/101.67/88.33	125.00/110.00/93.33
External Static Pressure	Min. / Std. / Max.	mmAq	0.00/1.00/3.00	0.00/1.00/3.00	
		Pa	0.00/9.81/29.42	0.00/9.81/29.42	
Piping Connections	Liquid Pipe	Φ, mm	6.35	6.35	
		Φ, inch	1/4"	1/4"	
	Gas Pipe	Φ, mm	12.70	12.70	
		Φ, inch	1/2"	1/2"	
Drain Pipe	Φ, mm	VP25 (OD 32.ID 25)	VP25 (OD 32.ID 25)		
Field Wiring	Power Source Wire	mm ²	1.5 ~ 2.5	1.5 ~ 2.5	
	Transmission Cable	mm ²	0.75 ~ 1.50	0.75 ~ 1.50	
Refrigerant	Type	-	R410A	R410A	
	Control Method	-	EEV INCLUDED	EEV INCLUDED	
Sound	Sound Pressure ²	High / Mid / Low	dB(A)	26.0/24.0/21.0	28.0/26.0/23.0
Dimensions	Net Weight	kg	19.00	19.00	
	Shipping Weight	kg	23.00	23.00	
	Net Dimensions (WxHxD)	mm	700 x 199 x 600	700 x 199 x 600	
	Shipping Dimensions (WxHxD)	mm	950 x 270 x 710	950 x 270 x 710	
Panel Size	Panel Model	-	-	-	
	Panel Net Weight	kg	-	-	
	Shipping Weight	kg	-	-	
	Net Dimensions (WxHxD)	mm	-	-	
Additional Accessories	Drain Pump	Drain Pump	-	MDP-E075SEE3D	MDP-E075SEE3D
		Max. Lifting Height / Displacement	mm / liter/h	750/24	750/24

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Optional Accessories (sold separately)

Individual Controllers



MWR-WE10N



MWR-SH10N



MR-EH00



MRK-A10N



AM036FNLDEH/ EU	AM045FNLDEH/ EU	AM056FNLDEH/ EU
1,2.220-240,50	1,2.220-240,50	1,2.220-240,50
3.60	4.50	5.60
4.00	5.00	6.30
65.00	90.00	95.00
65.00	90.00	95.00
0.33	0.52	0.53
0.33	0.52	0.53
Sirocco Fan	Sirocco Fan	Sirocco Fan
-	-	-
7.50/6.60/5.60	11.00/9.60/8.30	12.00/10.50/9.00
125.00/110.00/93.33	183.33/160.00/138.33	200.00/175.00/150.00
0.00/1.00/3.00	0.00/2.00/4.00	0.00/2.00/4.00
0.00/9.81/29.42	0.00/19.61/39.23	0.00/19.61/39.23
6.35	6.35	6.35
1/4"	1/4"	1/4"
12.70	12.70	12.70
1/2"	1/2"	1/2"
VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50
R410A	R410A	R410A
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
32.0/30.0/27.0	35.0/31.0/26.0	36.0/34.0/31.0
19.50	23.50	23.50
23.50	28.00	28.00
700 x 199 x 600	900 x 199 x 600	900 x 199 x 600
950 x 270 x 710	1150 x 280 x 710	1150 x 280 x 710
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
MDP-E07SSEE3D	MDP-E07SSEE3D	MDP-E07SSEE3D
750/24	750/24	750/24

Drain
PumpMDP-E07SSEE3D
(internal type)



Slim Duct S

- Slim and light weight
- Quiet operation
- Flexible installation
- Drain pump kit, sold separately

Slim Duct

Model		AM071FNLDEH/EU		AM090FNLDEH/EU	
Power Supply	Φ, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Performance	Capacity ¹ (Nominal)	Cooling	kW	7.10	9.00
		Heating	kW	8.00	10.00
Power	Power Input (Nominal)	Cooling	W	120.00	170.00
		Heating	W	120.00	170.00
	Current Input (Nominal)	Cooling	A	0.60	0.96
		Heating	A	0.60	0.96
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan
		Output x n	W	-	-
	Air Flow Rate	High / Mid / Low (UL)	CMM	16.50/15.00/13.50	29.00/27.00/25.00
			l/s	275.00/250.00/225.00	483.33/450.00/416.67
External Static Pressure	Min. / Std. / Max.	mmAq	0.00/2.00/4.00	0.00/3.00/6.00	
		Pa	0.00/19.61/39.23	0.00/29.42/58.84	
Piping Connections	Liquid Pipe	Φ, mm	9.52	9.52	
		Φ, inch	3/8"	3/8"	
	Gas Pipe	Φ, mm	15.88	15.88	
		Φ, inch	5/8"	5/8"	
Drain Pipe	Φ, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)		
Field Wiring	Power Source Wire	mm ²	1.5 ~ 2.5	1.5 ~ 2.5	
	Transmission Cable	mm ²	0.75 ~ 1.50	0.75 ~ 1.50	
Refrigerant	Type	-	R410A	R410A	
	Control Method	-	EEV INCLUDED	EEV INCLUDED	
Sound	Sound Pressure ²	High / Mid / Low	dB(A)	38.0/36.0/33.0	37.0/36.0/33.0
Dimensions	Net Weight	kg	30.00	44.00	
	Shipping Weight	kg	35.00	52.00	
	Net Dimensions (WxHxD)	mm	1100 x 199 x 600	1300 x 295 x 690	
	Shipping Dimensions (WxHxD)	mm	1350 x 280 x 710	1575 x 370 x 835	
Panel Size	Panel Model	-	-	-	
	Panel Net Weight	kg	-	-	
	Shipping Weight	kg	-	-	
	Net Dimensions (WxHxD)	mm	-	-	
Additional Accessories	Drain Pump	Drain Pump	-	MDP-E075SEE3D	MDP-E075SEE3D
		Max. Lifting Height / Displacement	mm / liter/h	750/24	750/24

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Optional Accessories (sold separately)

Individual Controllers



MWR-WE10N



MWR-SH10N



MR-EH00



MRK-A10N



AM112FNLDEH/EU	AM128FNLDEH/EU	AM140FNLDEH/EU
1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
11.20	12.80	14.00
12.50	13.80	16.00
170.00	200.00	220.00
170.00	200.00	220.00
0.96	1.28	1.43
0.96	1.28	1.43
Sirocco Fan	Sirocco Fan	Sirocco Fan
-	-	-
31.20/29.00/27.00	34.00/32.00/30.00	36.00/34.00/32.00
520.00/483.33/450.00	566.67/533.33/500.00	600.00/566.67/533.33
0.00/3.00/6.00	0.00/3.00/6.00	0.00/3.00/6.00
0.00/29.42/58.84	0.00/29.42/58.84	0.00/29.42/58.84
9.52	9.52	9.52
3/8"	3/8"	3/8"
15.88	15.88	15.88
5/8"	5/8"	5/8"
VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50
R410A	R410A	R410A
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
37.0/36.0/34.0	37.0/36.0/34.0	39.0/38.0/36.0
44.00	46.00	46.00
52.00	54.00	54.00
1300 x 295 x 690	1300 x 295 x 690	1300 x 295 x 690
1575 x 370 x 835	1575 x 370 x 835	1575 x 370 x 835
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
MDP-E07SSEE3D	MDP-E07SSEE3D	MDP-E07SSEE3D
750/24	750/24	750/24

Drain
PumpMDP-E07SSEE3D
(internal type)

MID-STATIC DUCT S



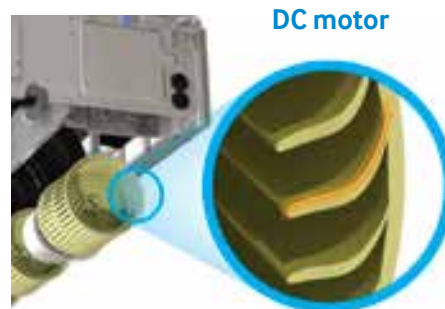
POWERFUL AIRFLOW

Sirocco fan design delivering high air volume.



QUIET OPERATION

Duct S is designed to operate very quietly helping to maintain a peaceful environment. Using aero-dynamic blade design to reduce operating noise, and increase air volume output.



LOW-PROFILE

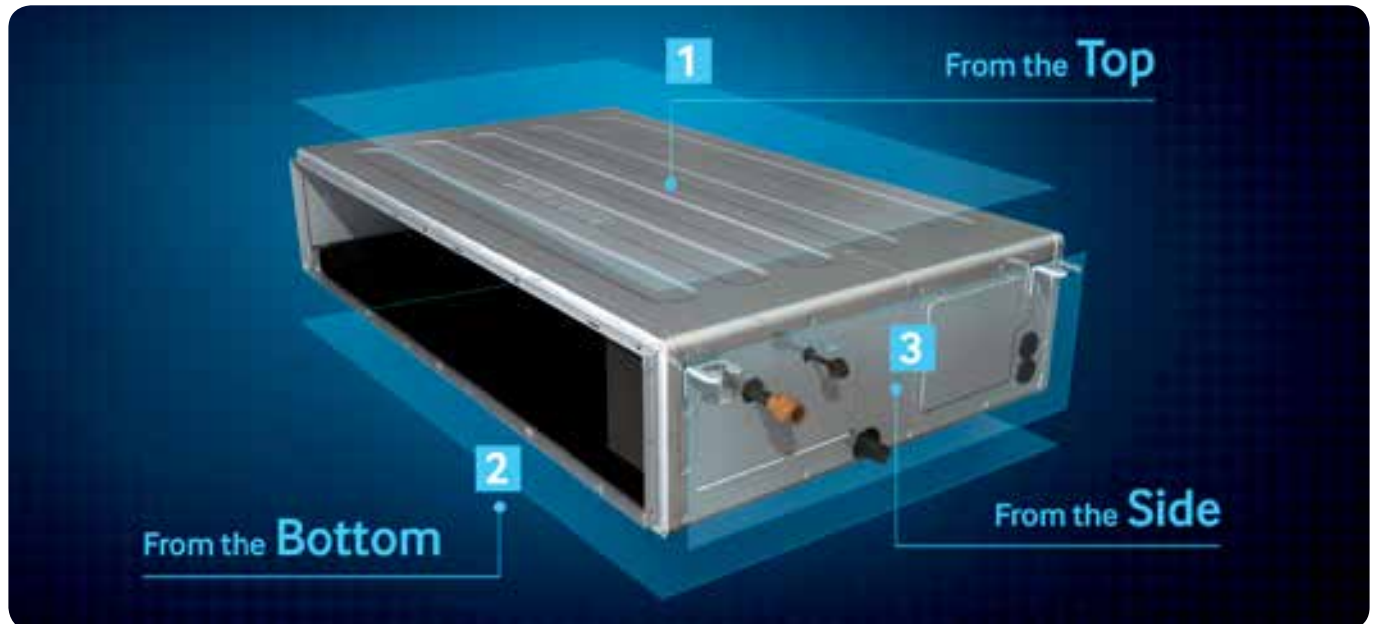
Duct S indoor units are low profile: only 250mm in height for 3.6 to 9kW models, and 300mm in height for 11.2 to 14kW models. This helps enable Duct S to be installed in narrow roof spaces.

250~300mm



3-WAY SERVICE ACCESS

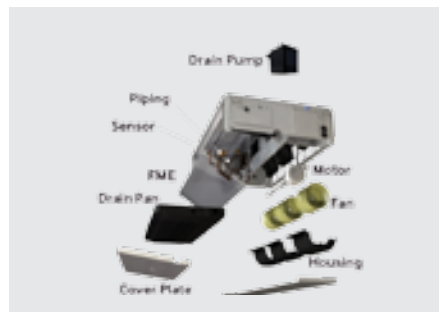
Duct S mid-static ducted units feature removable panels on three sides for ease of maintenance.



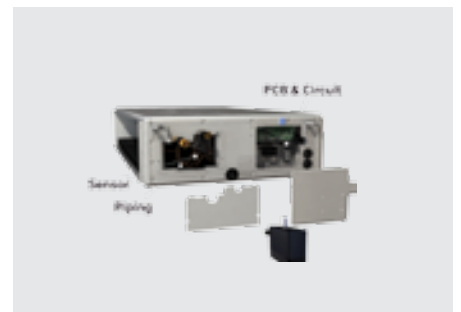
From the Top



From the Bottom



From the Side



Mid-static Duct S



- Powerful airflow, up to 147 Pa static range
- Low profile height, 250mm for models below 9kW
- Quiet operation
- 3-Way service access

Duct S				AM036HNMPKH/EU	AM045HNMPKH/EU	AM056HNMPKH/EU
Model Name						
Power Supply		Φ, #, V, Hz		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Performance	Capacity ¹ (Nominal)	Cooling	kW	3.60	4.50	5.60
		Heating	kW	4.00	5.00	6.30
Power	Power Input (Nominal)	Cooling	W	50.00	60.00	70.00
		Heating	W	50.00	60.00	70.00
	Current Input (Nominal)	Cooling	A	0.50	0.60	0.70
		Heating	A	0.50	0.60	0.70
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output x n	W	153 x 1	153 x 1	153 x 1
	Air Flow Rate		CMM	12.00/9.50/8.00	14.00/11.00/8.00	16.00/13.50/11.00
			l/s	200.00/158.33/133.33	233.33/183.33/133.33	266.67/225.00/183.33
	External Pressure	Min / Std / Max	mmAq	0.00/2.50/15.00	0.00/3.00/15.00	0.00/3.00/15.00
Pa			0.00/24.52/147.10	0.00/29.42/147.10	0.00/29.42/147.10	
Piping Connections	Liquid Pipe	Φ, mm	6.35	6.35	6.35	
		Φ, inch	1/4"	1/4"	1/4"	
	Gas Pipe	Φ, mm	12.70	12.70	12.70	
		Φ, inch	1/2"	1/2"	1/2"	
	Drain Pipe		Φ, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)
Field Wiring	Power Source Wire	mm ²	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5	
	Transmission Cable	mm ²	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5	
Refrigerant	Type	-	R410A	R410A	R410A	
	Control Method	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	
Sound	Sound Pressure ²	High / Mid / Low	dB(A)	29.0/26.0/23.0	31.0/28.0/24.0	32.0/29.0/25.0
Dimensions	Net Weight		kg	25.50	25.50	25.50
	Shipping Weight		kg	30.00	30.00	30.00
	Net Dimensions (W×H×D)		mm	850 x 250 x 700	850 x 250 x 700	850 x 250 x 700
	Shipping Dimensions (W×H×D)		mm	1064 x 320 x 784	1064 x 320 x 784	1064 x 320 x 784
	Panel Size	Panel model		-	-	-
Panel Net Weight			kg	-	-	
Shipping Weight			kg	-	-	
Net Dimensions (W×H×D)			mm	-	-	
Shipping Dimensions (W×H×D)			mm	-	-	
Additional Accessories	Drain pump	Model (External type)		MDP-G075SP	MDP-G075SP	MDP-G075SP
		Max. lifting Height / Displacement	mm / liter/h	750/24	750/24	750/24

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Optional Accessories (sold separately)

Individual Controllers



MWR-WE10N



MWR-SH10N



MR-EH00



MRK-A10N

Drain Pump



MDP-G075SP
(External Type)



Mid-static Duct S

- Powerful airflow, up to 147 Pa static range
- Low profile height, 250mm for models below 9kW
- Quiet operation
- 3-Way service access

Duct S

Model Name			AM071HNMPKH/EU	AM090HNMPKH/EU	
Power Supply		Φ, #, V, Hz	1,2,220-240,50	1,2,220-240,50	
Performance	Capacity ¹ (Nominal)	Cooling	kW	7.10	9.00
		Heating	kW	8.00	10.00
Power	Power Input (Nominal)	Cooling	W	120.00	145.00
		Heating	W	120.00	145.00
	Current Input (Nominal)	Cooling	A	1.00	1.20
		Heating	A	1.00	1.20
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan
		Output x n	W	153 x 1	153 x 1
	Air Flow Rate	H/M/L (UL)	CMM	22.00/19.00/16.00	29.00/25.00/22.00
			l/s	366.67/316.67/266.67	483.33/416.67/366.67
External Pressure	Min / Std / Max	mmAq	0.00/3.00/15.00	0.00/4.00/15.00	
		Pa	0.00/29.42/147.10	0.00/39.23/147.10	
Piping Connections	Liquid Pipe	Φ, mm	9.52	9.52	
		Φ, inch	3/8"	3/8"	
	Gas Pipe	Φ, mm	15.88	15.88	
		Φ, inch	5/8"	5/8"	
Drain Pipe		Φ, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	
Field Wiring	Power Source Wire	mm ²	1.5 ~ 2.5	1.5 ~ 2.5	
	Transmission Cable	mm ²	0.75 ~ 1.5	0.75 ~ 1.5	
Refrigerant	Type	-	R410A	R410A	
	Control Method	-	EEV INCLUDED	EEV INCLUDED	
Sound	Sound Pressure ²	High / Mid / Low	dB(A)	37.0/33.0/29.0	38.0/35.0/32.0
Dimensions	Net Weight		kg	25.50	32.50
	Shipping Weight		kg	30.00	38.00
	Net Dimensions (W×H×D)		mm	850 x 250 x 700	1200 x 250 x 700
	Shipping Dimensions (W×H×D)		mm	1064 x 320 x 784	1429 x 320 x 779
Panel Size	Panel model		-	-	-
	Panel Net Weight		kg	-	-
	Shipping Weight		kg	-	-
	Net Dimensions (W×H×D)		mm	-	-
	Shipping Dimensions (W×H×D)		mm	-	-
Additional Accessories	Drain pump	Model (External type)		MDP-G075SP	MDP-G075SP
		Max. lifting Height / Displacement	mm / liter/h	750/24	750/24

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Optional Accessories (sold separately)

Individual Controllers



MWR-WE10N

MWR-SH10N

MR-EH00

MRK-A10N

AM112HNMPKH/EU	AM128HNMPKH/EU	AM140HNMPKH/EU
1,2.220-240,50	1,2.220-240,50	1,2.220-240,50
11.20	12.80	14.00
12.50	13.80	16.00
165.00	175.00	215.00
165.00	175.00	215.00
1.40	1.50	1.70
1.40	1.50	1.70
Sirocco Fan	Sirocco Fan	Sirocco Fan
244 x 1	244 x 1	244 x 1
35.00/29.00/22.00	38.00/32.00/25.00	42.00/34.00/25.00
583.33/483.33/366.67	633.33/533.33/416.67	700.00/566.67/416.67
0.00/5.20/15.00	0.00/5.20/15.00	0.00/5.20/15.00
0.00/50.99/147.10	0.00/50.99/147.10	0.00/50.99/147.10
9.52	9.52	9.52
3/8"	3/8"	3/8"
15.88	15.88	15.88
5/8"	5/8"	5/8"
VP25 (OD 32.ID 25)	VP25 (OD 32.ID 25)	VP25 (OD 32.ID 25)
1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5
R410A	R410A	R410A
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
38.0/35.0/32.0	39.0/36.0/32.0	40.0/37.0/32.0
38.50	38.50	38.50
44.50	44.50	44.50
1300 x 300 x 700	1300 x 300 x 700	1300 x 300 x 700
1529 x 370 x 779	1529 x 370 x 779	1529 x 370 x 779
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
MDP-G075SP	MDP-G075SP	MDP-G075SP
750/24	750/24	750/24

Drain
Pump



MDP-G075SP
(External Type)



High-static Duct S: 11 to 14kW models

- Powerful airflow, up to 196 Pa static range
- Low profile unit, height of 300mm
- Quiet operation
- 3-Way Service access

Duct S				AM112HNHPKH/EU	AM128HNHPKH/EU	AM140HNHPKH/EU
Model Name						
Power Supply		Φ, #, V, Hz		1.2,220-240,50	1.2,220-240,50	1.2,220-240,50
Performance	Capacity ¹ (Nominal)	Cooling	kW	11.20	12.80	14.00
		Heating	kW	12.50	13.80	16.00
Power	Power Input (Nominal)	Cooling	W	205.00	230.00	260.00
		Heating	W	205.00	230.00	260.00
	Current Input (Nominal)	Cooling	A	1.20	1.40	1.50
		Heating	A	1.20	1.40	1.50
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output x n	W	350 x 1	350 x 1	350 x 1
	Air Flow Rate	H/M/L (UL)	CMM	35.00/29.00/22.00	38.00/32.00/25.00	42.00/34.00/25.00
			l/s	583.33/483.33/366.67	633.33/533.33/416.67	700.00/566.67/416.67
External Pressure	Min / Std / Max	mmAq	3.00/6.20/20.00	3.00/6.20/20.00	3.00/6.20/20.00	
		Pa	29.42/60.80/196.13	29.42/60.80/196.13	29.42/60.80/196.13	
Piping Connections	Liquid Pipe	Φ, mm	9.52	9.52	9.52	
		Φ, inch	3/8"	3/8"	3/8"	
	Gas Pipe	Φ, mm	15.88	15.88	15.88	
		Φ, inch	5/8"	5/8"	5/8"	
Drain Pipe	Φ, mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)		
Field Wiring	Power Source Wire	mm ²	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5	
	Transmission Cable	mm ²	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5	
Refrigerant	Type	-	R410A	R410A	R410A	
	Control Method	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	
Sound	Sound Pressure ²	High / Mid / Low	dB(A)	38.0/35.0/32.0	39.0/36.0/32.0	40.0/37.0/32.0
Dimensions	Net Weight		kg	46.50	46.50	46.50
	Shipping Weight		kg	52.50	52.50	52.50
	Net Dimensions (W×H×D)		mm	1300 x 300 x 700	1300 x 300 x 700	1300 x 300 x 700
	Shipping Dimensions (W×H×D)		mm	1529 x 370 x 779	1529 x 370 x 779	1529 x 370 x 779
Panel Size	Panel model		-	-	-	
	Panel Net Weight		kg	-	-	
	Shipping Weight		kg	-	-	
	Net Dimensions (W×H×D)		mm	-	-	
	Shipping Dimensions (W×H×D)		mm	-	-	
Additional Accessories	Drain pump	Model (External type)		MDP-G075SP	MDP-G075SP	MDP-G075SP
		Max. lifting Height / Displacement	mm / liter/h	750/24	750/24	750/24

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Optional Accessories (sold separately)

Individual Controllers



MWR-WE10N

MWR-SH10N

MR-EH00

MRK-A10N



High-static Duct S: 18 to 22kW models

- Powerful airflow, and up to 196 Pa static range
- Fan and coil section can be separate for ease of installation
- 3-Way Service access

Duct S				AM180JNHFKH/EU	AM224JNHFKH/EU
Model Name					
Power Supply		Φ, #, V, Hz		1,2.220-240,50	1,2.220-240,50
Performance	Capacity ¹ (Nominal)	Cooling	kW	18.0	22.4
		Heating	kW	20.0	25.0
Power	Power Input (Nominal)	Cooling	W	340	530
		Heating	W	340	530
	Current Input (Nominal)	Cooling	A	1.9	2.9
		Heating	A	1.9	2.9
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan
		Output x n	W	630 x 1	630 x 1
	Air Flow Rate	H/M/L (UL)	CMM	58.00/50.00/43.00	72.00/61.00/50.00
			l/s	966.86/833.5/716.81	1200.24/1016.87/833.5
External Pressure	Min / Std / Max	mmAq	5.0/7.34/20	5.0/7.34/20	
		Pa	49/72/196	49/72/196	
Piping Connections	Liquid Pipe	Φ, mm	9.52	9.52	
		Φ, inch	3/8"	3/8"	
	Gas Pipe	Φ, mm	19.05	19.05	
		Φ, inch	3/4"	3/4"	
Drain Pipe	Φ, mm	VP25 (OD25,ID 20)	VP25 (OD25,ID 20)		
Field Wiring	Power Source Wire	mm ²	1.5 ~ 2.5	1.5 ~ 2.5	
	Transmission Cable	mm ²	0.75 ~ 1.5	0.75 ~ 1.5	
Refrigerant	Type	-	R410A	R410A	
	Control Method	-	EEV INCLUDED	EEV INCLUDED	
Sound	Sound Pressure ²	High / Mid / Low	dB(A)	43/39/35	44/40/36
Dimensions	Net Weight		kg	82.5	82.5
	Shipping Weight		kg	92	92
	Net Dimensions (W×H×D)		mm	1350 x 450 x 910	1350 x 450 x 910
	Shipping Dimensions (W×H×D)		mm	1612 x 519 x 984	1612 x 519 x 984
Panel Size	Panel model		-	-	
	Panel Net Weight		kg	-	
	Shipping Weight		kg	-	
	Net Dimensions (W×H×D)		mm	-	
	Shipping Dimensions (W×H×D)		mm	-	
Additional Accessories	Drain pump	Model (External type)		MDP-G075SP	MDP-G075SP
		Max. lifting Height / Displacement		mm / liter/h	750/24

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Drain
Pump



MDP-G075SP
(External Type)



High-static (HSP) Duct: 28kW model

- Powerful airflow
- High static capability: up to 275 Pa

HSP Duct				AM280FNHDEH/EU
Model				
Power Supply		Φ, #, V, Hz		1,2.220-240.50
Performance	Capacity ¹ (Nominal)	Cooling	kW	28.00
		Heating	kW	31.50
Power	Power Input (Nominal)	Cooling	W	790.00
		Heating	W	790.00
	Current Input (Nominal)	Cooling	A	5.90
		Heating	A	5.90
Fan	Motor	Type	-	Sirocco Fan
		Output x n	W	400 x 1
	Air Flow Rate	High / Mid / Low (UL)	CMM	72.00/65.00/58.00
				l/s
External Static Pressure	Min. / Std. / Max.	mmAq	5.00/15.00/28.00	
		Pa	49/147/275	
Piping Connections	Liquid Pipe	Φ, mm	9.52	
		Φ, inch	3/8"	
	Gas Pipe	Φ, mm	22.22	
		Φ, inch	7/8"	
Drain Pipe	Φ, mm	VP25 (OD 32, ID 25)		
Field Wiring	Power Source Wire	mm ²	1.5 ~ 2.5	
	Transmission Cable	mm ²	0.75 ~ 1.50	
Refrigerant	Type	-	R410A	
	Control Method	-	EEV INCLUDED	
Sound	Sound Pressure ²	High / Mid / Low	dBA	48.0/46.0/43.0
Dimensions	Net Weight		kg	89.00
	Shipping Weight		kg	99.00
	Net Dimensions (WxHxD)		mm	1240 x 470 x 1040
	Shipping Dimensions (WxHxD)		mm	1507 x 558 x 1155
Panel Size	Panel Model		-	-
	Panel Net Weight		kg	-
	Shipping Weight		kg	-
	Net Dimensions (WxHxD)		mm	-
	Shipping Dimensions (WxHxD)		mm	-
Additional Accessories	Drain Pump	Drain Pump (internal type)	-	MDP-N047SNC1D
		Max. Lifting Height / Displacement	mm / liter/h	750/24

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Optional Accessories (sold separately)

Individual Controllers



MWR-WE10N



MWR-SH10N



MR-EH00



MRK-A10N



Drain Pump (internal type)



OUTDOOR AIR PROCESSING (OAP) DUCT



DVM S Specification – Indoor Units

1. Compatible with DVM S, Mini, DVM S Water, Heat Pump only.
2. Combination ratio for OAP Duct only systems: 50% to 100%.
3. Combination ratio where system consists of combination of OAP Duct and standard fan coils:
OAP duct capacity to be less than 30% of condenser capacity.



- Direct outside air processing units
- High capacity and high static capability
- Connectable to DVM S heat pump condensers
- Can be used in conjunction with standard fan coils on the one refrigerant circuit

OAP Duct

Model Name				AM140JNEPEH/EU	AM220JNEPEH/EU	AM280JNEPEH/EU
Power Supply		Φ, #, V, Hz		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Performance	Capacity ¹ (Nominal)	Cooling	kW	14.00	22.40	28.00
		Heating	kW	8.90	13.90	17.40
Power	Power Input (Nominal)	Cooling	W	220	300	370
		Heating	W	220	300	370
	Current Input (Nominal)	Cooling	A	1.60	2.20	3.00
		Heating	A	1.60	2.20	3.00
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan	Sirocco Fan
		Output x n	W	183 x 1	400 x 1	400 x 1
	Air Flow Rate	H /M/L (UL)	l/s	300	467	583
	External Pressure	Min/Std/Max	Pa	49/200/245	98/230/245	98/250/270
Piping Connections	Liquid Pipe	Φ, mm	mm ²	9.52	9.52	9.52
		Φ, inch	mm ²	3/8"	3/8"	3/8"
	Gas Pipe	Φ, mm	mm ²	15.88	19.05	22.22
		Φ, inch	mm ²	5/8"	3/4"	7/8"
Drain Pipe	Φ, mm	mm ²	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
Field Wiring	Power Source Wire	mm ²	mm ²	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
	Transmission Cable	mm ²	mm ²	0.75 ~ 1.5	0.75 ~ 1.5	0.75 ~ 1.5
Refrigerant	Type	-	-	R410A	R410A	R410A
	Control Method	-	-	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
Sound	Sound Pressure ²	High	dB(A)	42	46	47
Dimensions	Net Weight	kg	kg	51	85	85
	Shipping Weight	kg	kg	61	95	95
	Net Dimensions (W×H×D)	mm	mm	1110 x 390 x 650	1240 x 470 x 1040	1240 x 470 x 1040
	Shipping Dimensions (W×H×D)	mm	mm	1335 x 512 x 829	1507 x 558 x 1155	1507 x 558 x 1155
Panel Size	Panel model	-	-	-	-	-
	Panel Net Weight	kg	kg	-	-	-
	Shipping Weight	kg	kg	-	-	-
	Net Dimensions (W×H×D)	mm	mm	-	-	-
	Shipping Dimensions (W×H×D)	mm	mm	-	-	-
Additional Accessories	Drain pump	Model	Model	MDP-N047SNC0D	MDP-N047SNC1D	MDP-N047SNC1D
		Max. lifting Height / Displacement	mm / liter/h	750/24	750/24	750/24

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

- 1) Nominal cooling capacities are based on: Outdoor temperature : 35°C DB, 28°C WB, Refrigerant pipe length : 7.5m, Level differences : 0m, Factory setting temperature for cooling mode: 18°C
Nominal heating capacities are based on: Outdoor temperature : 0°C DB, -2.9°C WB, Refrigerant pipe length : 7.5m, Level differences : 0m, Factory setting temperature for heating mode: 25°C
- 2) Sound pressure was acquired in an anechoic room. Thus actual noise level may be different depending on the installation conditions.



Wall Mounted Neo Forte – without EEV

- Clean and simple panel design
- Compact unit
- Wireless remote included
- External EEV available as an option, sold separately, ideal for noise sensitive environment.

Neo Forte

Model		AM022FNTDEH/EU		AM028FNTDEH/EU	
Power Supply	Φ, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Performance	Capacity ¹ (Nominal)	Cooling	kW	2.20	2.80
		Heating	kW	2.50	3.20
Power	Power Input (Nominal)	Cooling	W	25.00	25.00
		Heating	W	25.00	25.00
	Current Input (Nominal)	Cooling	A	0.16	0.16
		Heating	A	0.16	0.16
Fan	Motor	Type	-	Crossflow Fan	Crossflow Fan
		Output x n	W	23 x 1	23 x 1
	Air Flow Rate	High / Mid / Low (UL)	CMM	7.80/6.80/5.80	7.80/6.80/5.80
			l/s	130/113/97	130/113/97
External Static Pressure	Min. / Std. / Max.	mmAq	-	-	
		Pa	-	-	
Piping Connections	Liquid Pipe	Φ, mm	6.35	6.35	
		Φ, inch	1/4"	1/4"	
	Gas Pipe	Φ, mm	12.70	12.70	
		Φ, inch	1/2"	1/2"	
Drain Pipe	Φ, mm	ID 18 HOSE	ID 18 HOSE		
Field Wiring	Power Source Wire	mm ²	1.5 ~ 2.5	1.5 ~ 2.5	
	Transmission Cable	mm ²	0.75 ~ 1.50	0.75 ~ 1.50	
Refrigerant	Type	-	R410A	R410A	
	Control Method	-	EEV NOT INCLUDED	EEV NOT INCLUDED	
Sound	Sound Pressure ²	High / Mid / Low	dBa	30.0/28.0/26.0	30.0/28.0/26.0
Dimensions	Net Weight	kg	8.00	8.00	
	Shipping Weight	kg	11.00	11.00	
	Net Dimensions (WxHxD)	mm	825 x 285 x 189	825 x 285 x 189	
	Shipping Dimensions (WxHxD)	mm	904 x 353 x 263	904 x 353 x 263	
Panel Size	Panel Model	-	-	-	
	Panel Net Weight	kg	-	-	
	Shipping Weight	kg	-	-	
	Net Dimensions (WxHxD)	mm	-	-	
	Shipping Dimensions (WxHxD)	mm	-	-	
Additional Accessories	Drain Pump	Drain Pump	-	-	
		Max. Lifting Height / Displacement	mm / liter/h	-	

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Optional Accessories (sold separately)

Individual Controllers



MWR-WE10N



MWR-SH10N

AM036FNTDEH/EU	AM056FNTDEH/EU	AM071FNTDEH/EU
1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
3.60	5.60	6.80
4.00	6.30	7.00
30.00	45.00	50.00
30.00	45.00	50.00
0.18	0.27	0.30
0.18	0.27	0.30
Crossflow Fan	Crossflow Fan	Crossflow Fan
23 x 1	40 x 1	40 x 1
9.30/8.30/7.30	12.00/10.50/9.00	14.00/12.50/11.00
15 5/138/122	200/175/150	233/208/183
-	-	-
-	-	-
6.35	6.35	9.52
1/4"	1/4"	3/8"
12.70	12.70	15.88
1/2"	1/2"	5/8"
ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50
R410A	R410A	R410A
EEV NOT INCLUDED	EEV NOT INCLUDED	EEV NOT INCLUDED
36.0/32.0/28.0	43.0/40.0/37.0	44.0/41.0/37.0
8.00	13.00	13.00
11.00	16.00	16.00
825 x 285 x 189	1065 x 298 x 218	1065 x 298 x 218
904 x 353 x 263	1137 x 377 x 299	1137 x 377 x 299
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Standard Accessories

Wireless
Remote
Controller

MR-EH00



Wall Mounted Neo Forte – E, with inbuilt EEV

- Clean and simple panel design
- Compact unit
- Wireless remote included
- Inbuilt EEV included

Neo Forte - E

Model		AM022FNQDE/EUH		AM028FNQDEH/EU	
Power Supply	Φ, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Performance	Capacity ¹ (Nominal)	Cooling	kW	2.20	2.80
		Heating	kW	2.50	3.20
Power	Power Input (Nominal)	Cooling	W	25.00	25.00
		Heating	W	25.00	25.00
	Current Input (Nominal)	Cooling	A	0.16	0.16
		Heating	A	0.16	0.16
Fan	Motor	Type	-	Crossflow Fan	Crossflow Fan
		Output x n	W	23 x 1	23 x 1
	Air Flow Rate	High / Mid / Low (UL)	CMM	7.80/6.80/5.80	7.80/6.80/5.80
			l/s	130/113/97	130/113/97
External Static Pressure	Min. / Std. / Max.	mmAq	-	-	
		Pa	-	-	
Piping Connections	Liquid Pipe	Φ, mm	6.35	6.35	
		Φ, inch	1/4"	1/4"	
	Gas Pipe	Φ, mm	12.70	12.70	
		Φ, inch	1/2"	1/2"	
Drain Pipe	Φ, mm	ID 18 HOSE	ID 18 HOSE		
Field Wiring	Power Source Wire	mm ²	1.5 ~ 2.5	1.5 ~ 2.5	
	Transmission Cable	mm ²	0.75 ~ 1.50	0.75 ~ 1.50	
Refrigerant	Type	-	R410A	R410A	
	Control Method	-	EEV INCLUDED	EEV INCLUDED	
Sound	Sound Pressure ²	High / Mid / Low	dBa	31/29/27	31/29/27
Dimensions	Net Weight		kg	8.30	8.30
	Shipping Weight		kg	11.30	11.30
	Net Dimensions (WxHxD)		mm	825 x 285 x 189	825 x 285 x 189
	Shipping Dimensions (WxHxD)		mm	904 x 353 x 263	904 x 353 x 263
Panel Size	Panel Model		-	-	
	Panel Net Weight		kg	-	
	Shipping Weight		kg	-	
	Net Dimensions (WxHxD)		mm	-	
	Shipping Dimensions (WxHxD)		mm	-	
Additional Accessories	Drain Pump	Drain Pump	-	-	
		Max. Lifting Height / Displacement	mm / liter/h	-	

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Optional Accessories (sold separately)

Individual Controllers



MWR-WE10N



MWR-SH10N

AM036FNQDEH/EU	AM045FNQDEH/EU	AM056FNQDEH/EU	AM071FNQDEH/EU
1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
3.60	4.50	5.60	6.80
4.00	5.00	6.30	7.00
30.00	40.00	45.00	50.00
30.00	40.00	45.00	50.00
0.18	0.24	0.27	0.30
0.18	0.24	0.27	0.30
Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
23 x 1	40 x 1	40 x 1	40 x 1
9.30/8.30/7.30	11.70/10.20/8.70	13.00/10.50/9.00	14.00/12.50/11.00
155/138/122	195/170/145	217 6/175/150	233/208/183
-	-	-	-
-	-	-	-
6.35	6.35	6.35	9.52
1/4"	1/4"	1/4"	3/8"
12.70	12.70	12.70	15.88
1/2"	1/2"	1/2"	5/8"
ID 18 HOSE	ID 18 HOSE	ID 18 HOSE	ID 18 HOSE
1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5	1.5 ~ 2.5
0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50	0.75 ~ 1.50
R410A	R410A	R410A	R410A
EEV INCLUDED	EEV INCLUDED	EEV INCLUDED	EEV INCLUDED
37/33/29	41/40/38	44/41/38	45/42/38
8.30	13.50	13.50	13.50
11.30	16.50	16.50	16.50
825 x 285 x 189	1065 x 298 x 218	1065 x 298 x 218	1065 x 298 x 218
904 x 353 x 263	1137 x 377 x 299	1137 x 377 x 299	1137 x 377 x 299
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Standard Accessories

Wireless
Remote
Controller

MR-EH00

CONSOLE



DVMS Specification – Indoor Units



- Clean and simple panel design
- Slim Compact unit, 199mm depth
- 2 Way discharge air outlet
- Low operating sound
- Wireless remote included

Console

Model		AM028FNJDEH/EU		AM036FNJDEH/EU	
Power Supply	Φ, #, V, Hz	1,2,220-240,50		1,2,220-240,50	
Performance	Capacity ¹ (Nominal)	Cooling	kW	2.80	3.60
		Heating	kW	3.20	4.00
Power	Power Input (Nominal)	Cooling	W	30.00	35.00
		Heating	W	30.00	35.00
	Current Input (Nominal)	Cooling	A	0.25	0.29
		Heating	A	0.25	0.29
Fan	Motor	Type	-	Turbo Fan	Turbo Fan
		Output x n	W	37 x 1	37 x 1
	Air Flow Rate	High / Mid / Low (UL)	CMM	7.00/6.00/5.00	8.50/7.50/6.50
			l/s	116.67/100.00/83.33	141.67/125.00/108.33
External Static Pressure	Min. / Std. / Max.	mmAq	-	-	
		Pa	-	-	
Piping Connections	Liquid Pipe	Φ, mm	6.35	6.35	
		Φ, inch	1/4"	1/4"	
	Gas Pipe	Φ, mm	12.70	12.70	
		Φ, inch	1/2"	1/2"	
Drain Pipe	Φ, mm	ID 18 HOSE	ID 18 HOSE		
Field Wiring	Power Source Wire	mm ²	1.5 ~ 2.5	1.5 ~ 2.5	
	Transmission Cable	mm ²	0.75 ~ 1.50	0.75 ~ 1.50	
Refrigerant	Type	-	R410A	R410A	
	Control Method	-	EEV INCLUDED	EEV INCLUDED	
Sound	Sound Pressure ²	High / Mid / Low	dBa	38.0/36.0/34.0	39.0/37.0/34.0
Dimensions	Net Weight		kg	16.00	16.00
	Shipping Weight		kg	21.00	21.00
	Net Dimensions (WxHxD)		mm	720 x 620 x 199	720 x 620 x 199
	Shipping Dimensions (WxHxD)		mm	810 x 710 x 295	810 x 710 x 295
Panel Size	Panel Model		-	-	
	Panel Net Weight		kg	-	
	Shipping Weight		kg	-	
	Net Dimensions (WxHxD)		mm	-	
Additional Accessories	Drain Pump	Drain Pump	-	-	
		Max. Lifting Height / Displacement	mm / liter/h	-	

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Optional Accessories (sold separately)

Standard Accessories

Individual Controllers



MWR-WE10N



MWR-SH10N

Wireless Remote Controller



MR-EH00

CEILING/FLOOR STANDING UNIT

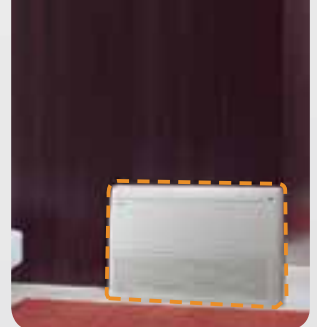
2 WAYS OF INSTALLATION

Depending on the available space and the application of the air conditioning, the unit can be installed as an under ceiling unit, or as a floor standing unit.

Under Ceiling



Floor Standing



DVMS Specification – Indoor Units



- Can be install as an under ceiling or as a floor standing unit
- High air flow volume
- Low profile unit, 200mm deep
- Low operating sound

Ceiling				AM056FNCDEH/EU	AM071FNCDEH/EU
Power Supply			Φ, #, V, Hz	1,2.220-240,50	1,2.220-240,50
Performance	Capacity ¹ (Nominal)	Cooling	kW	5.60	7.10
		Heating	kW	6.30	8.00
Power	Power Input (Nominal)	Cooling	W	72.00	80.00
		Heating	W	72.00	77.00
	Current Input (Nominal)	Cooling	A	0.33	0.35
		Heating	A	0.28	0.29
Fan	Motor	Type	-	Sirocco Fan	Sirocco Fan
		Output x n	W	60 x 1	120 x 1
	Air Flow Rate	High / Mid / Low (UL)	CMM	14.00/13.00/12.00	18.00/16.50/15.00
			l/s	233.33/216.67/200.00	300.00/275.00/250.00
External Static Pressure	Min. / Std. / Max.	mmAq	-	-	
		Pa	-	-	
Piping Connections	Liquid Pipe	Φ, mm	6.35	9.52	
		Φ, inch	1/4"	3/8"	
	Gas Pipe	Φ, mm	12.70	15.88	
		Φ, inch	1/2"	5/8"	
Drain Pipe		Φ, mm	ID 18 HOSE	ID 18 HOSE	
Field Wiring	Power Source Wire		mm ²	1.5 ~ 2.5	1.5 ~ 2.5
	Transmission Cable		mm ²	0.75 ~ 1.50	0.75 ~ 1.50
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV NOT INCLUDED	EEV NOT INCLUDED
Sound	Sound Pressure ²	High / Mid / Low	dBA	40.0/37.0/34.0	44.0/42.0/40.0
Dimensions	Net Weight		kg	21.00	21.00
	Shipping Weight		kg	25.50	25.50
	Net Dimensions (WxHxD)		mm	1000 x 650 x 200	1000 x 650 x 200
	Shipping Dimensions (WxHxD)		mm	1080 x 730 x 300	1080 x 730 x 300
Panel Size	Panel Model		-	-	-
	Panel Net Weight		kg	-	-
	Shipping Weight		kg	-	-
	Net Dimensions (WxHxD)		mm	-	-
	Shipping Dimensions (WxHxD)		mm	-	-
Additional Accessories	Drain Pump	Drain Pump		-	-
		Max. Lifting Height / Displacement	mm / liter/h	-	-

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Optional Accessories (sold separately)

Individual Controllers



MWR-WE10N



MWR-SH10N



MR-EH00

CEILING UNIT, LARGE CAPACITY



DVMS Specification – Indoor Units



- High air flow volume
- Low profile unit, 235mm height
- Low operating sound
- Long distance air throw

Ceiling

Model Name				AM112JNCDKH/EU	AM140JNCDKH/EU
Power Supply		Φ, #, V, Hz		1,2,220-240,50/60	1,2,220-240,50/60
Performance	Capacity ¹ (Nominal)	Cooling	kW	11.2	14.0
		Heating	kW	12.5	16.0
Power	Power Input (Nominal)	Cooling	W	92	160
		Heating	W	80	160
	Current Input (Nominal)	Cooling	A	0.94	1.45
		Heating	A	0.83	1.45
Fan	Motor	Type	-	Sirocco, Φ168*3EA	Sirocco, Φ168*4EA
		Output x n	W	-	-
	Air Flow Rate	H/M/L (UL)	CMM	29.3/23.9/18.5	36.4/30.8/26.0
			l/s	488/398/308	607/513/433
	External Pressure	Min / Std / Max	mmAq	-	-
Pa			-	-	
Piping Connections	Liquid Pipe	Φ, mm	9.52	9.52	
		Φ, inch	3/8"	3/8"	
	Gas Pipe	Φ, mm	15.88	15.88	
		Φ, inch	5/8"	5/8"	
Field Wiring	Drain Pipe	Φ, mm	Φ20/Φ25	Φ20/Φ25	
	Power Source Wire	mm ²	2.5	2.5	
Refrigerant	Transmission Cable	mm ²	0.75 ~ 1.5	0.75 ~ 1.5	
	Type	-	R410A	R410A	
Sound	Control Method	-	EEV INCLUDED	EEV INCLUDED	
	Sound Pressure ²	High / Mid / Low	dB(A)	45 / 41 / 37	46 / 43 / 38
Dimensions	Net Weight	kg	33.5	42.5	
	Shipping Weight	kg	39.5	48.5	
	Net Dimensions (W×H×D)	mm	1350*235*675	1650*235*675	
	Shipping Dimensions (W×H×D)	mm	1439*321*758	1739*321*758	
Panel Size	Panel model	-	-	-	
	Panel Net Weight	kg	-	-	
	Shipping Weight	kg	-	-	
	Net Dimensions (W×H×D)	mm	-	-	
	Shipping Dimensions (W×H×D)	mm	-	-	
Additional Accessories	Drain pump	Drain pump	- / Model name	-	
		Max. lifting Height / Displacement	mm / liter/h	-	
	Air Filter	-	Pre Filter	Pre Filter	

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Optional Accessories (sold separately)

Individual Controllers



MWR-WE10N



MWR-SH10N



MR-EH00

ERV / ERV PLUS

ERV



ERV PLUS



ERV PLUS SYSTEM STRUCTURE

Supply/Exhaust Fan

The fan is used to intake outdoor air or exhaust indoor air.

Temperature Sensor

Damper

The mode can be switched between heat recovery ventilation and normal ventilation. (Availability varies on the type of model.)

Direct Expansion (DX) Coil

Heating and cooling mode selection is available after turning on the ventilation due to the new DX Coil that can heat and cool.

Dust Filter

Helps prevent heat exchanger element contamination or blockage caused by accumulated dust.

Heat Exchanger Element

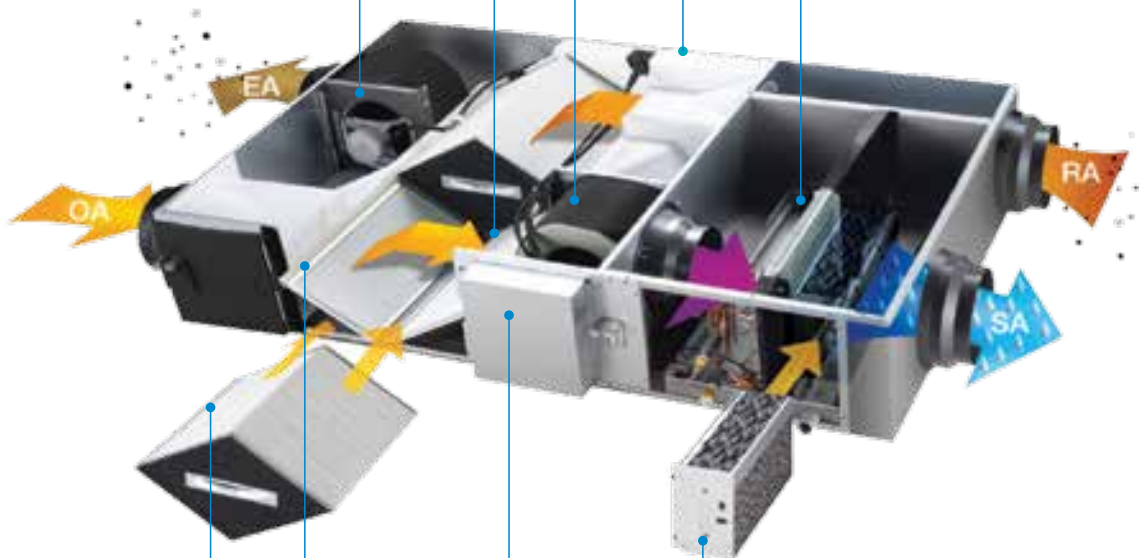
Exchange temperature and humidity between the supply and exhaust air.

Control Box

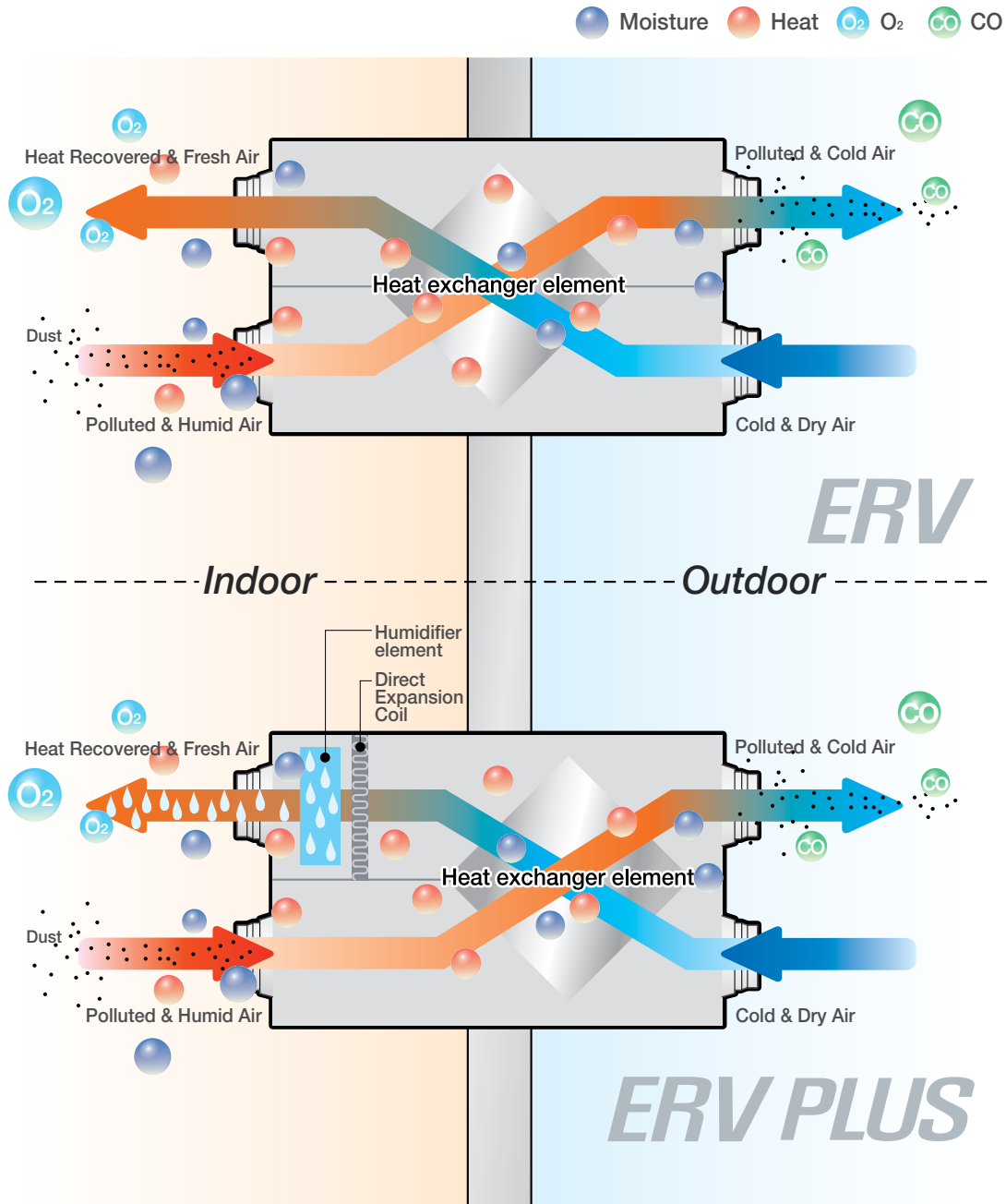
Electrical parts for product control.

Humidifier Element (sold separately)

A natural evaporating type humidifier is applied to produce refreshing indoor air.

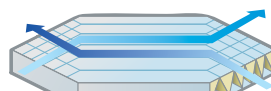


ENERGY RECOVERY VENTILATOR SYSTEMS

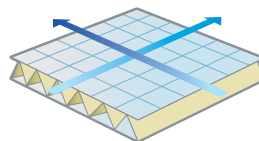


DIAMOND DESIGN HEAT EXCHANGER

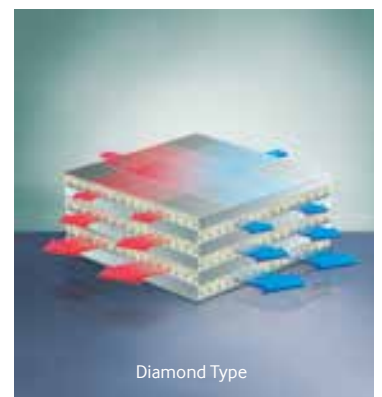
Designed to allow airflow and heat exchange.



Hexagonal Type





Rectangular Type



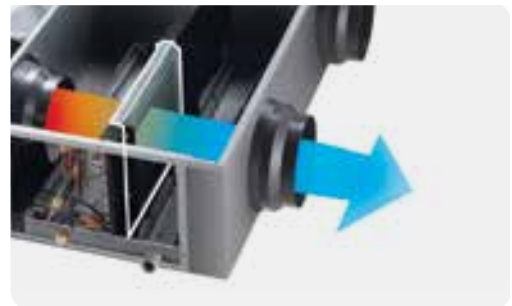
Diamond Type

FEATURES OF ERV/ERV PLUS

ERV/ERV Plus		
Model Name		
	ERV PLUS	ERV
Damper	●	●
Direction Expansion (DX) Coil	●	
Humidifier Element (Optional)	●	
Supply/Exhaust Fan	●	●
Dust Filter	●	●
Heat Exchanger Element	●	●
Control Box	●	●
Temperature Sensor	●	●

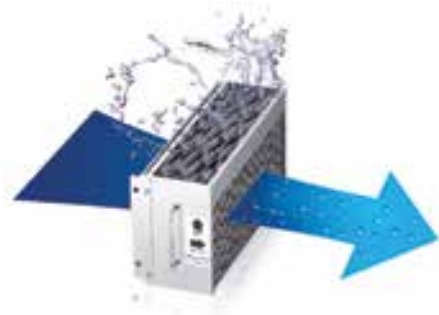
HELPS REDUCE TEMPERATURE LOSS

For ERV Plus models it is equipped with direct expansion coil, which further preconditions the heat exchanged air to meet more closely of indoor temperature set point.



HUMIDIFIER

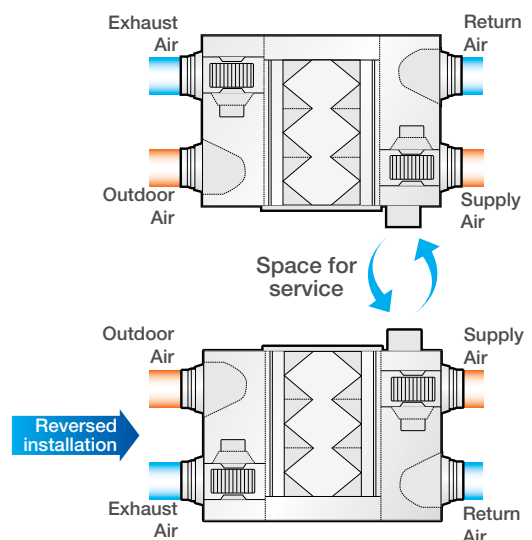
(Optional extra for ERV Plus models, sold separately.)



FLEXIBLE INSTALLATION

ERV models can be installed opposite to one another, which allows the units to be installed to utilise a common access point to the control box.

*Note applicable for ERV Plus models



DVMS Specification – Indoor Units



ERV

- Diamond design heat exchanger
- High efficiency heat exchange
- Compact, low profile unit
- Low operating noise
- Reversible installation possible

ERV				AN026JSKLN/EU	AN035JSKLN/EU	AN050JSKLN/EU	AN080JSKLN/EU	AN100JSKLN/EU
Power Supply	Φ, #, V, Hz			1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	1,2,220-240,50
Power Input	W			115	115	175	330	450
Current	A			0.70	0.70	1.10	2.10	2.90
Fan	Air Flow	Turbo	l/s	72	97	139	222	278
		High	l/s	69	97	139	222	278
		Low	l/s	50	71	100	155	192
	External Static Pressure	Turbo	Pa	100	155	165	155	155
		High	Pa	65	100	100	90	90
		Low	Pa	55	83	85	80	75
Temperature Exchange ¹	Cooling	Turbo	%	70	70	70	70	70
		High	%	70	70	70	70	70
		Low	%	74	74	74	74	74
	Heating	Turbo	%	70	70	70	70	70
		High	%	70	70	70	70	70
		Low	%	74	74	74	74	74
Enthalpy Exchange Efficiency	Cooling	Turbo	%	50	50	50	50	50
		High	%	50	50	50	50	50
		Low	%	55	55	55	55	55
	Heating	Turbo	%	70	70	70	70	70
		High	%	70	70	70	70	70
		Low	%	76	76	76	76	76
Sound Pressure ²	Turbo	dBA	31	32	35	36	37	
	High	dBA	28	29	32	33	34	
	Low	dBA	25	26	28	29	30	
	Quiet	dBA	22	23	24	25	26	
Dimensions	Net Weight	kg	28.5	42.5	42.5	67	67	
	Gross Weight	kg	32.5	53.5	53.5	75.5	75.5	
	Duct connection size	mm	150	200	200	250	250	
	Net Dimensions (WxHxD)	mm	660 x 350 x 600	1012 x 270 x 1000	1012 x 270 x 1000	1220 x 340 x 1135	1220 x 340 x 1135	
	Gross Dimensions (WxHxD)	mm	760 x 400 x 807	1308 x 355 x 1192	1308 x 355 x 1192	1475 x 440 x 1330	1475 x 440 x 1330	

* Specifications may be subject to change without prior notice.

1) Heat Exchange/Temperature Exchange Efficiency:

Cooling, Indoor temperature: 24°C DB, 17°C WB / Outdoor temperature : 35°C DB, 24°C WB

Heating, Indoor temperature: 22°C DB, 13.9°C WB / Outdoor temperature : 2°C DB, 0.44°C WB

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

Optional Accessories (sold separately)

Individual Controllers



MWR-VH12N



ERV PLUS

- Built-in Direct expansion (DX) coil
- High efficiency heat exchange
- Compact, low profile unit
- Low operating noise
- Optional humidifier kit, sold separately
- Optional CO2 sensors, sold separately

ERV PLUS				AM050FNKDEH/EU	AM100FNKDEH/EU
Model			Φ, #, V, Hz		
Power Supply				1.2.220-240.50	1.2.220-240.50
Outside Air Processing Capacity		Cooling ¹ (DX coil /Element)	kW	5.1 (3.6/1.5)	11.5 (7.1/3.4)
		Heating ² (DX coil /Element)	kW	6.5 (4.0/2.5)	13.2 (8.0/5.2)
Fan	Air Flow	Turbo	l/s	294	588
		High	l/s	294	588
		Low	l/s	211	406
	External Static Pressure	Turbo	Pa	160	150
		High	Pa	100	90
		Low	Pa	85	75
Temperature Exchange ¹	Cooling	Turbo	%	70	70
		High	%	70	70
		Low	%	74	74
	Heating	Turbo	%	75	75
		High	%	75	75
		Low	%	79	79
Enthalpy Exchange Efficiency	Cooling	Turbo	%	60	62
		High	%	60	62
		Low	%	66	68
	Heating	Turbo	%	73	75
		High	%	73	75
		Low	%	79	81
Sound Pressure ³	Turbo	dBA	36	36	
	High	dBA	32	34	
	Low	dBA	28	31	
Pipping connections	Liquid Pipe	mm	6.35	6.35	
	Liquid Pipe	mm	1/4"	1/4"	
	Gas Pipe	inch	12.7	12.7	
	Gas Pipe	inch	1/2"	1/2"	
	Drain Pipe	mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
Refrigerant	Type	-	R410A	R410A	
	Control Method	-	EEV INCLUDED	EEV INCLUDED	
Dimensions	Net Weight	kg	61	90	
	Shipping Weight	kg	75.2	107.5	
	Net Dimensions (WxHxD)	mm	1553 x 270 x 1000	1763 x 340 x 1135	
	Shipping Dimensions (WxHxD)	mm	1847 x 349 x 1300	2027 x 428 x 1424	
Ambient Conditions	Around unit	-	0~40°C DB, 80%RH or less	0~40°C DB, 80%RH or less	
	Outside air	-	-15~40°C DB, 80%RH or less	-15~40°C DB, 80%RH or less	
	Return air	-	0~40°C DB, 80%RH or less	0~40°C DB, 80%RH or less	

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

1) Nominal cooling capacities are based on: Indoor temperature : 27°C DB, 19°C WB / Outdoor temperature : 35°C DB, 24°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

2) Nominal heating capacities are based on: Indoor temperature : 20°C DB, 15°C WB / Outdoor temperature : 7°C DB, 6°C WB, Equivalent refrigerant piping : 7.5m , Level differences : 0m.

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

Individual
Controllers



MWR-WE10N

CONTROL SYSTEM

Integrated Management

Enabling convenient and optimised management, Samsung's integrated management system is an exceptional choice for managing large and middle-sized buildings with many indoor and outdoor units.

System Controller

Samsung's control system offers various control options for the indoor units. You can control the multiple units individually or simultaneously in groups to optimise your convenience.

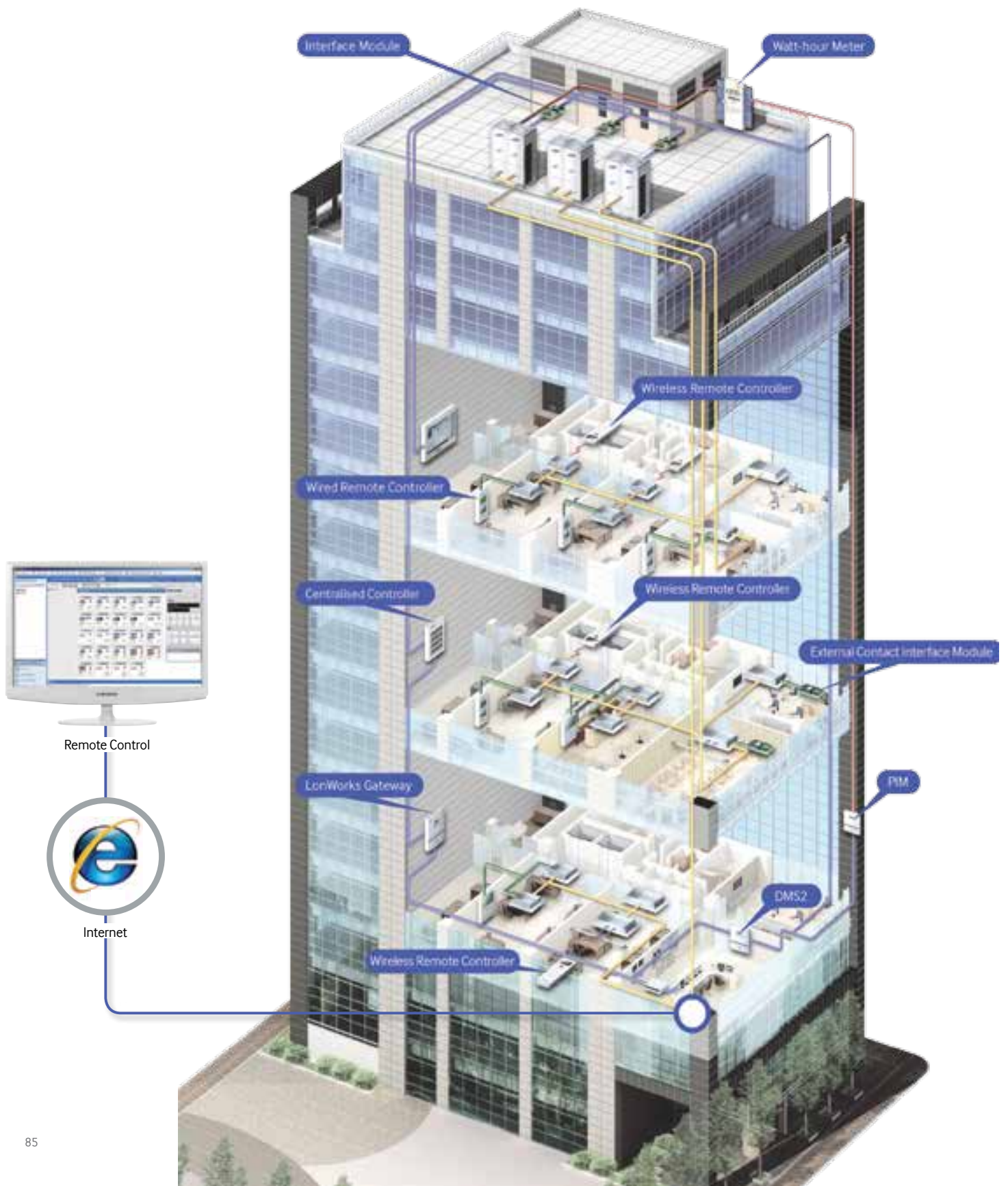
Applications

Samsung air conditioning control systems are designed so that it can deliver to you convenient and flexible air conditioning solutions.





CONTROL SYSTEM STRUCTURE



TOUCH CENTRALISED CONTROLLER

Touch centralised controller is an optimised management solution for middle size site.



WIRED R/C, WIRELESS R/C

The individual remote controllers are used to control single indoor units conveniently.



DMS 2

DMS 2 is an internet-based management device that stores and manages all the data relevant to the system air conditioner.



ON/OFF CONTROLLER

The On/Off controller controls the system air conditioners individually or in groups supporting many other functions.



S-NET 3

S-NET 3 manages up to 16 DMS 2 control modules from the one central location.



S-NET 3

Supports 16
DMS 2



BMS GATEWAY MODULE

Samsung gateway to interface to building management control systems.



S-Net 3 is a Samsung air conditioning management software, it does not include any hardware, hardware are to be procured separately.

LOCAL CONTROLS



MWR-SH10N



MWR-WE10N



MR-EH00

WIRED CONTROLLER

MWR-WE10N

- On/Off, Operation mode
- Fan Speed setting
- Temperature setting
- Louver direction control
- Upper and lower temperature limit setting
- Weekly schedule timer, with exception days
- Simple on/off timer
- Large display with backlight
- Filter cleaning alert and alert time
- Group control of up to 16 indoor units
- Child lock and button permission level setting
- Real-time clock
- Built-in room temperature sensor
- Low battery indicator



SIMPLIFIED TOUCH CONTROLLER

MWR-SH10N

- Large display with backlight
- On/Off, Operation mode
- Fan Speed setting
- Temperature setting
- Louver direction control
- Simple on/off timer
- Filter cleaning alert
- Built-in room temperature sensor
- Wireless signal receiver



WIRELESS REMOTE CONTROLLER

MR-EH00

- On/Off Operation mode
- Fan Speed setting
- Temperature setting
- Louver direction control
- Simple on/off timer
- Large display
- Low battery indicator



RECEIVER & DISPLAY UNIT

MRK-A10N

- Concealed wireless signal receiver
- On/Off operation, fan and timer and defrost operation display, filter check display



TEMPERATURE SENSOR

MRW-TA

- External room temperature sensor
- Comes with 12m wire



CENTRALISED CONTROL



MIM-H03N



MCM-A202DN



MCM-A300N



MCM-C200

The centralised control system offers easy and convenient control of individual indoor units or entire groups of multiple units. You can control and manage multiple functions for the units by using a variety of controllers.

TOUCH CENTRALISED CONTROLLER

MCM-A300N

- 7 inch Touch LCD controller
- Control up to 128 indoor units individually
- Large display with backlight
- On/Off, Operation mode
- Fan Speed setting
- Temperature setting
- Louver direction control
- Upper and lower temperature limit setting
- Weekly schedule setting
- Local control, and function lock permission setting
- Real-time clock
- Digital input terminal for fire emergency shutdown



WIFI KIT

MIM-H03N

- Remote access via your Wi-Fi network to air conditioning system and Individually control up to 16 indoor units
- Weekly schedule functionality



CENTRAL ON/OFF CONTROLLER

MCM-A202DN

- Individually On / Off control of up to 16 indoor units
- All On /All Off button
- Indoor unit operation display
- Indoor unit mode operation switch



OPERATION MODE SELECTION SWITCH

MCM-C200

- Operation mode selection (cooling, heating, auto) locks indoor unit mode operation to selection switch
- Connects to outdoor unit, with a maximum wiring length of 100m



DMS 2

- Built-in web server for PC – independent management and remote access control *
- Individual / group control of up to 256 indoor units including ERV from one central management location
- User editable control logic to tailor system operation to help meet your application requirements
- Daily/ weekly/yearly scheduling
- Accessible level and security management
- Power proportioning reporting when use in conjunction with Pulse Input Module (MIMCB16N)
- Operation and error history recording
- Digital input and output terminals for external device interlock

*Internet connection required. Data download and subscription charges may apply.



DMS configuration



DATA MANAGEMENT SERVER MIM-D00AN

AIR-CONDITIONING OPERATION MONITORING

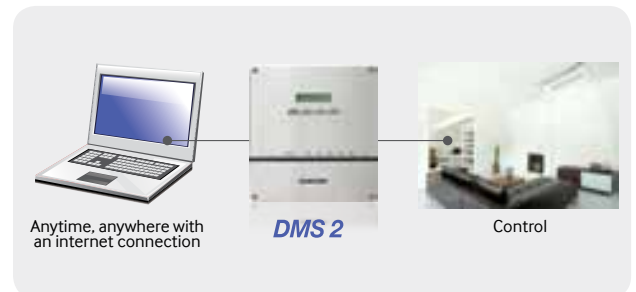
- No need to open each outdoor units
- Detailed refrigerant flow check in control room



EASY CONTROL & MONITORING

- Control and monitoring of up to 256 indoor units via internet network*.
- Operation On/Off
- Operation mode, fan speed, temperature setting
- ERV, ERV PLUS, AHU support

*Internet connection required. Data download and subscription charges may apply.

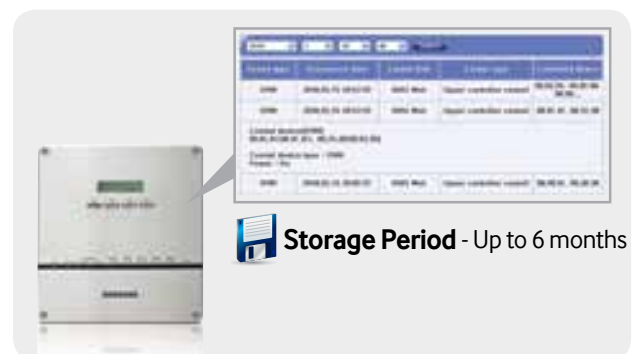


INDOOR UNIT OPERATION HISTORY MANAGEMENT

- Operation history that records data for up to 6 months

Storage parameters

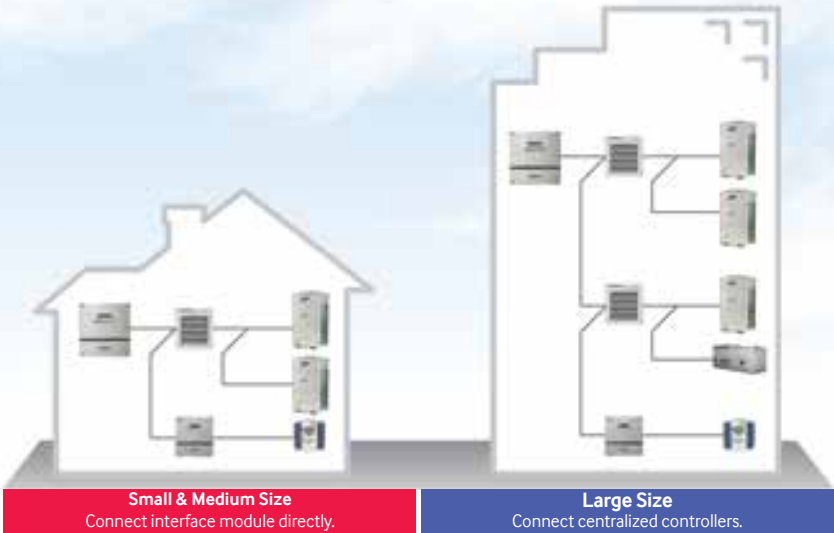
1. Indoor unit address and name
2. On/Off time (year, month, day, hour, minute)
3. Operation mode (Cool, Heat, Auto, Fan, Dry, Stop)
4. Set/Room temperatures



DMS 2, DATA MANAGEMENT SERVER MIM-D00AN

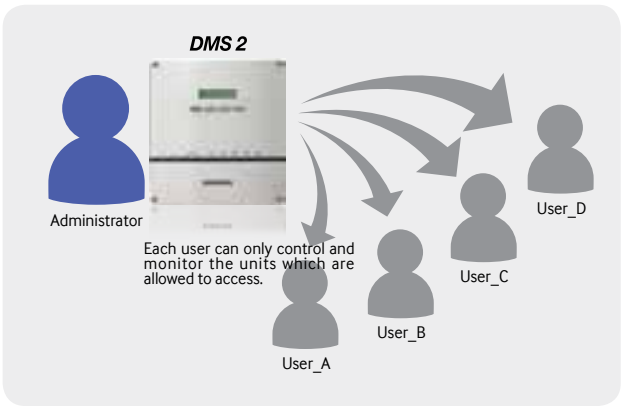
FLEXIBLE CONNECTIVITY

- Indoor unit control via centralised controllers or interface modules directly
- Select connection point according to the site



ACCESSIBLE LEVEL MANAGEMENT

- It is possible to specify the scope of control and monitoring unit by each user.



DYNAMIC USER SECURITY MANAGEMENT

General users, managers, and administrators can be registered separately by ID and password. Administrators (utility managers) have the authority to set access levels for DMS 2 functions on users.

Functions	Admin	Manager	User
	Access All	Changeable	
Control / Monitoring	0	0	0
Zone Management	0	0	X
Schedule	0	0	0
Power Distribution	0	0	X
System Configuration	0	X	X

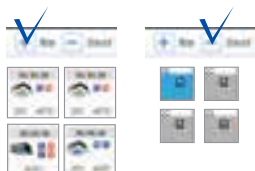
GRAPHICAL DISPLAY



User-friendly icon-based unit control



Color indication and icons make it easy to recognize indoor unit status



Zoom in & Zoom out icon display



Convenient & stylish controller



POWERFUL DATA BACKUP

- Important data is stored on SD memory card.*
- Indoor/outdoor unit name
- Power distribution data
- Operation history (On/Off by DMS)
- DMS power On/Off history
- System configuration
- Others

* memory card not included



RAPID & EASY SERVICE RESPONSE

- Remote control and monitoring through the Internet (In case public IP is used)
- E-mail notification to private internet account in case of malfunction*



Remote Service



Malfunction E-mail

Unit No.	Unit Name	Indoor Unit No.	Outdoor Unit No.	Unit No.	Status
01	Unit 1	2008-11-11 10:26	2008-11-11 09:00	011	Normal
02	Unit 2	2008-11-11 10:26	2008-11-11 09:00	012	Normal

Unit No.	Unit Name	Indoor Unit No.	Outdoor Unit No.	Unit No.	Status
01	Unit 1	2008-11-11 10:26	2008-11-11 09:00	011	Normal
02	Unit 2	2008-11-11 10:26	2008-11-11 09:00	012	Normal

*Internet connection required. Data download and subscription charges may apply.

USER EDITABLE CONTROL LOGIC

- User can edit control logic with arithmetic / conditional operators and parameters.

Logic	Outdoor temp < Room temp	Room temp < Outdoor temp	Outdoor temp < 10	Outdoor temp > 25
Control	Turn ON ERV (Cool air Intake UP)	Turn ON Air Conditioner	Heating mode	Cooling mode

EHP / ERV / AHU Parameters change

EHP / ERV / AHU Parameters + AND OR + **Arithmetic Equation Function** = **EHP / ERV / AHU Parameters change**

Temperature, Power, Mode..... <, >, =, ==, =<, Average Setting temp, Power, Mode, Fan speed.....

HISTORY MANAGEMENT

- DMS 2 records indoor unit operation and error occurrence history
- Recorded history makes it convenient to analyse air-conditioner operation and perform unit maintenance

Operation History

1. Operation On/Off execution time
2. Daily accumulated operation on time
3. Schedule operation execution time

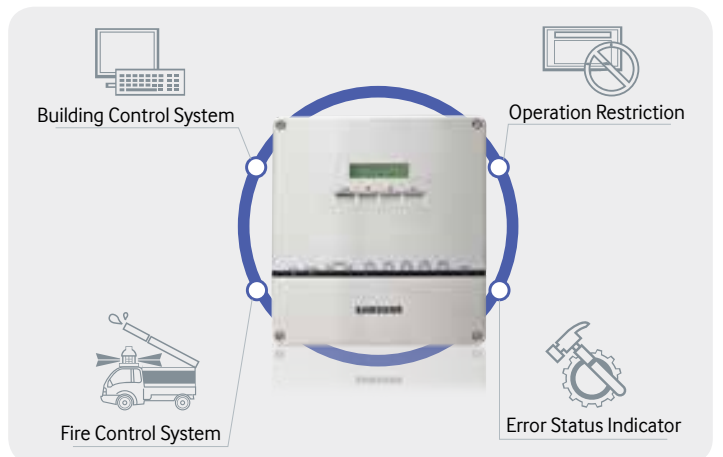
Error History

1. Error occurred unit name
2. Error details
3. Error occurrence/clear time
4. Error state (solved / unsolved)

History storage Volume dependent on memory card size

EXTERNAL CONTACT INTERFACE

DI/DO (digital input/digital output) terminals for external contact interface functionality



POWER DISTRIBUTION SYSTEM

- Power distribution to a maximum of 256 indoor units
- Data query for watt-hour, usage time and usage ratio
- Files are saved in Microsoft Excel® format.
- 1-year power distribution data is saved in storage.
- Current actual power consumption monitoring
- Current-type electricity meter support (CT ratio input)

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Data storage volume dependent on memory card size



SMART CENTRAL MANAGEMENT

- Control & monitoring zone edition
- Wireless/wired remote control restriction
- Temperature limit setting
- Operation mode restriction

A Zone Cooling only/No remote controller/ Minimum setting temperature in cooling is 20°C

B Zone Cooling only/Remote controller use



S-NET 3, MST-P3P, SYSTEM MANAGEMENT SOFTWARE

Sophisticated and Powerful

S-NET 3 is a powerful and fully integrated solution enabling remote management of up to 16 DMS 2 modules, with a total of 4,096 indoor units

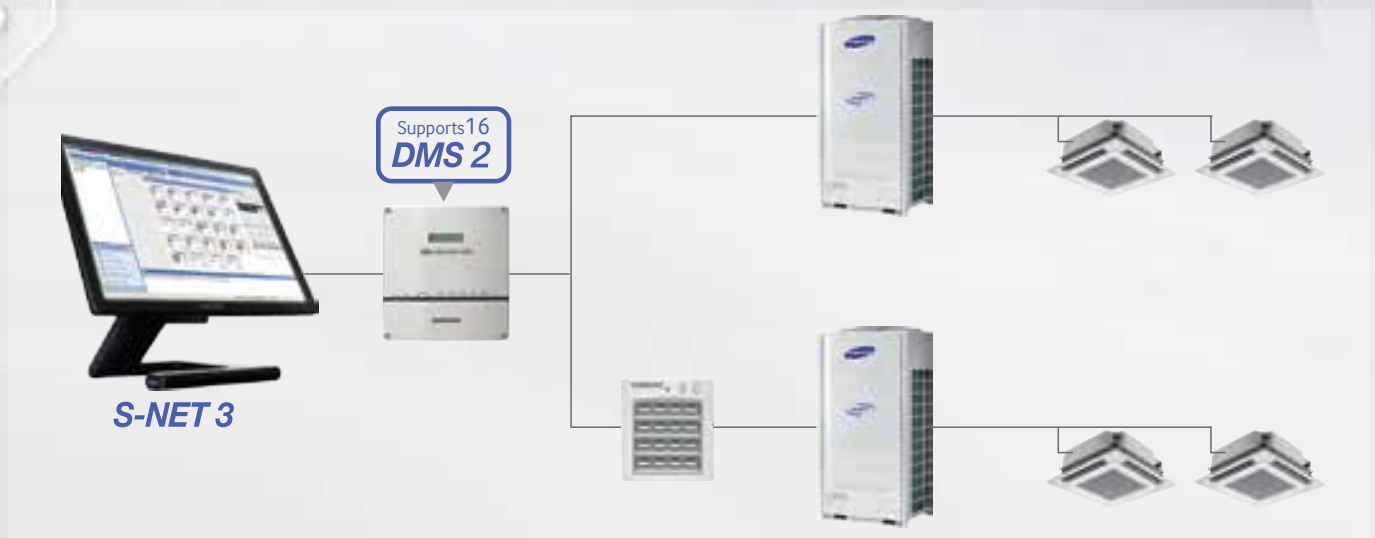
MST-P3P

- Fully integrated PC management software.
- Up to 16 DMS 2 connection through the Internet.*
- Central management of up to 4,096 indoor units including ERV, ERV PLUS and AHU
- Schedule/Zone control.
- Error/Operation history management.
- Power distribution management and analysis.

*Internet connection required. Data download and subscription charges may apply.
PC or monitor shown are not included.



S-NET 3 System configuration



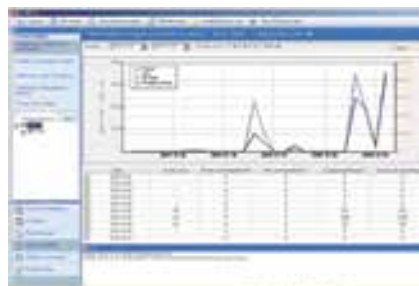
CONTROL AND MONITORING

- Control & monitoring of up to 4,096 indoor units including ERV, ERV PLUS and AHU
- Wireless/wired remote control restriction
- Temperature limit setting
- Operation mode lock
- Multiple/full indoor unit selection
- Icon-based indoor unit display mode



POWER DISTRIBUTION MANAGEMENT

- Data query for power distribution and operation time
- Power distribution report generation and printing
- Time section setting for different electricity rates
- Group setting for power distribution summary



SCHEDULE CONTROL

- Graphical schedule settings
- Weekly, Daily schedule control
- Exception date setting



HISTORY MANAGEMENT

- Error/Event history management
- Indoor unit operation history management
- Report generation and printing

 A screenshot of a software interface for history management. It displays a large table with multiple columns and rows of data. The table appears to be a log or history of events, with columns for time, location, and event details. The interface includes search and filter options on the left side.

ZONE MANAGEMENT

- Management structure customisation regardless of installation structure
- Control zone creation/edition/deletion
- Tree structure zone management control



CYCLE MONITORING

- Monitoring outdoor / indoor unit cycle data (The monitoring function is supported for DVM S range only)

 A screenshot of a software interface for cycle monitoring. It displays a table with columns for cycle data, including outdoor and indoor unit cycle information. The table contains multiple rows of data, and the interface includes search and filter options on the left side.

BMS GATEWAY MODULES



BACNet® Gateway



LONWORKS® Gateway

BACNET® GATEWAY MIM-B17N

The BMS Gateway modules helps provide integration between air conditioning system with on site Building Management Control Systems.

- Gateway to BacNet® BMS control system
- Up to 256 compatible indoor units connectable



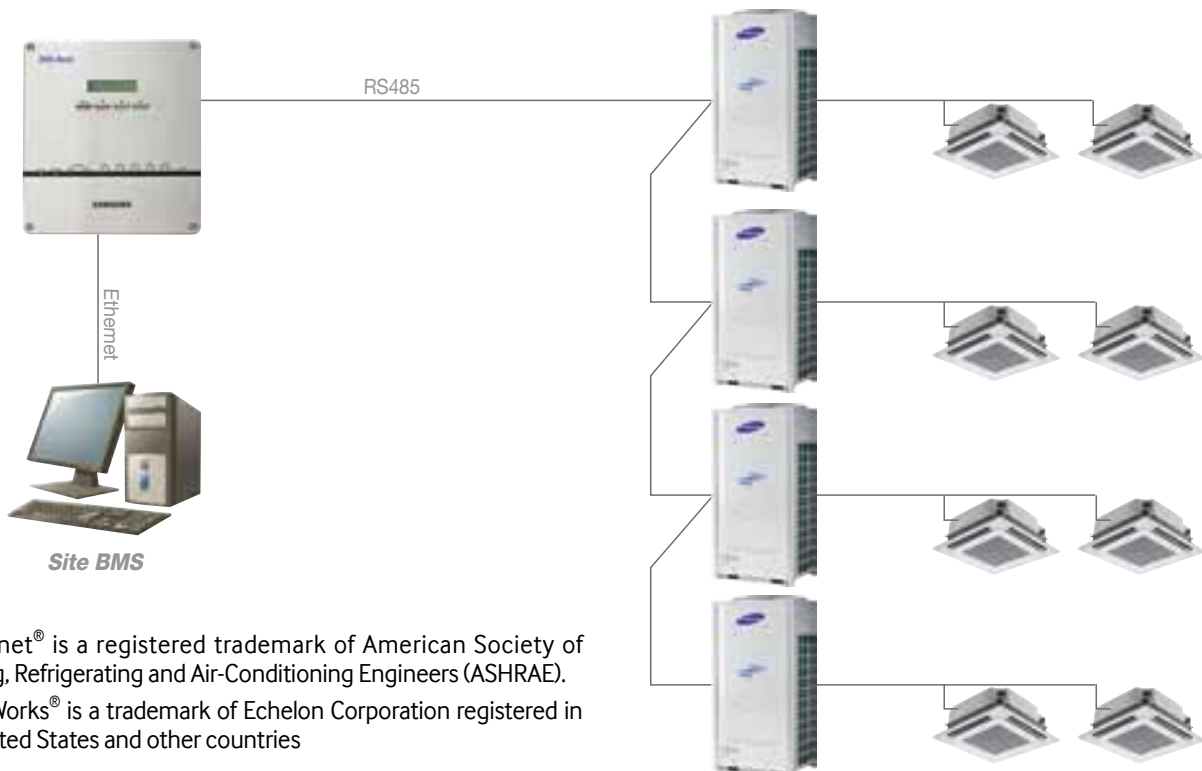
Control

- On/Off control
- Operation mode
- Temperature setting
- Fan speed/direction
- ERV operation mode
- ERV fan speed
- Filter alarm reset
- User control restriction
- Operation mode lock
- Set temperature limit
- Emergency stop
- Output contact control

Monitoring

- On/Off control
- Operation mode
- Set/Room temperature
- Fan speed/direction
- ERV operation mode
- ERV fan speed
- Filter alarm
- User control restriction
- Thermo On/Off
- Power distribution
- Operation mode lock
- Set temperature limit
- In/Out contact state
- Emergency stop
- Error code

CONNECTION



1. BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE).
2. LonWorks® is a trademark of Echelon Corporation registered in the United States and other countries

LONWORKS® GATEWAY MIM-B18N

- Gateway to LONWORKS® BMS control system
- Up to 128 compatible indoor units connectable



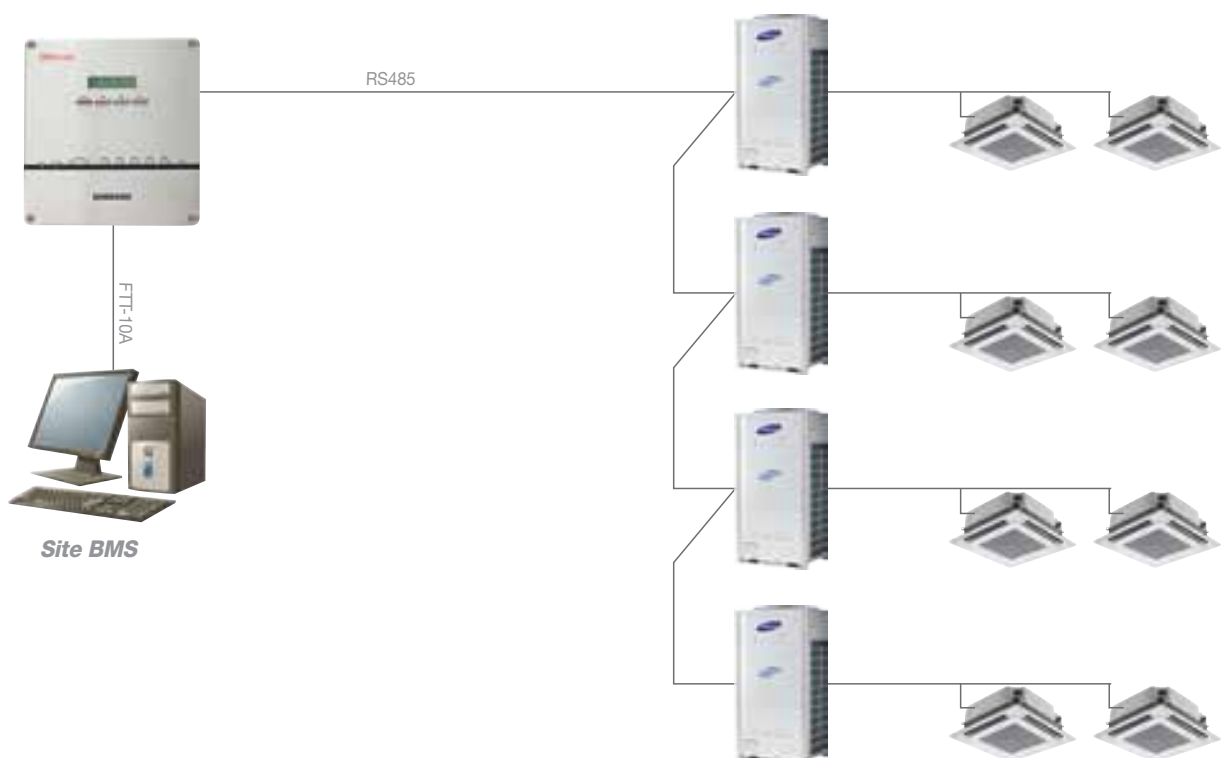
Control

- On/Off control
- Operation mode
- Temperature setting
- Fan speed/direction
- ERV operation mode
- ERV fan speed
- Filter alarm reset
- User control restriction
- Operation mode lock
- Set temperature limit
- Emergency stop
- Output contact control

Monitoring

- On/Off control
- Operation mode
- Set/Room temperature
- Fan speed/direction
- ERV operation mode
- ERV fan speed
- Filter alarm
- User control restriction
- Thermo On/Off
- Power distribution
- Operation mode lock
- Set temperature limit
- In/Out contact state
- Emergency stop
- Error code

CONNECTION



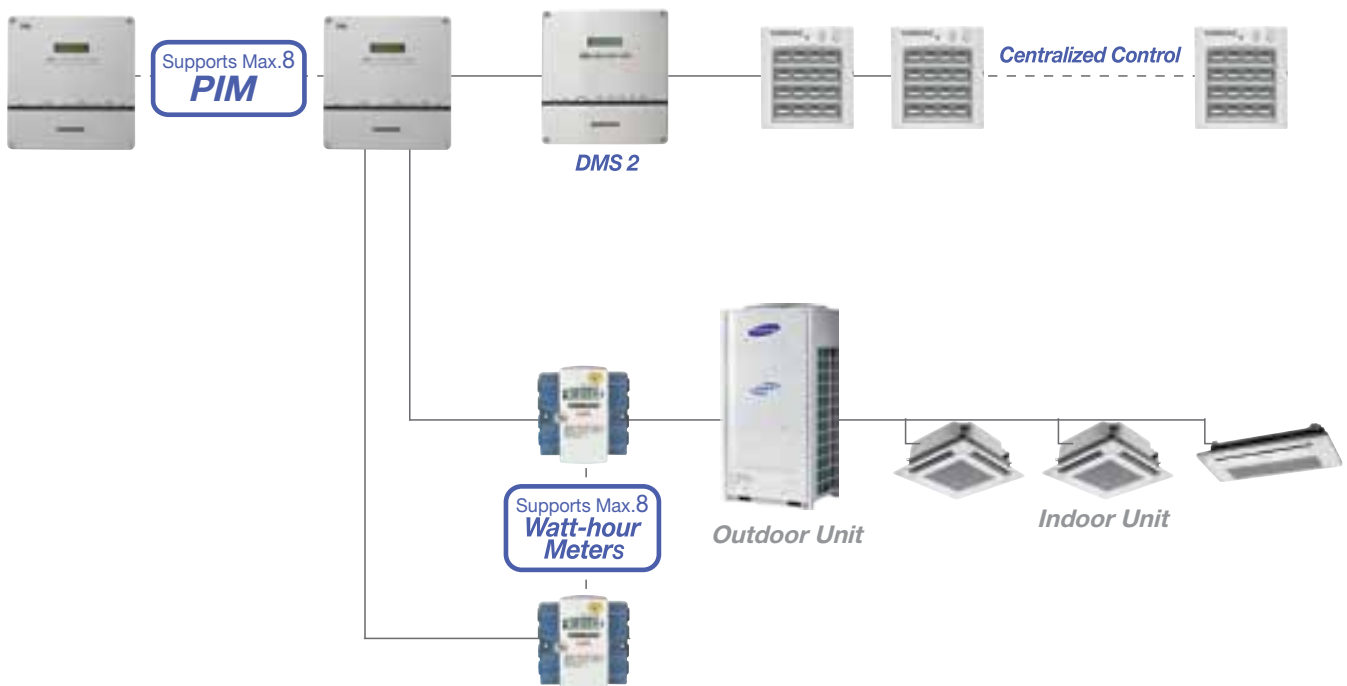
POWER INTERFACE MODULE (PIM) MIM-B16N

Power meter (Watt-hour) interface module are use in conjunction with DMS 2 control management system, or with Bacnet®/Lonworks® gateway, to site building management control systems, to display power consumption of connected air conditioning systems.

- Up to 8 compatible watt hour meters connectable per PIM
- Compatible with pulse type watt hour meters



CONNECTION



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Samsung AIR CONDITIONERS
Visit <http://www.samsung.com/au/business/>

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SAMSUNG