



# Samsung's innovative VRF systems

COP as high as 4.94



## Samsung DVM S Smart products for smarter businesses.



- **30HP LARGE CAPACITY** - Largest and most compact VRF system, it provides reliable coverage across larger areas while also saving up to 40% space\*.
- **YEAR-ROUND CLIMATE CONTROL** - Able to cool in heat of up to 48°C and provide warmth in cold conditions of -25°C. Works quietly- noise control system lowers noise to below 50Db(a)\*.
- **FLASH INJECTION TECHNOLOGY** - Increases refrigerant flow by 32% and can produce high heating capacities at -25°C.
- **INTELLIGENT DEFROST** - Defrosts more accurately and minimising energy waste. It increases continuous heating time by up to 40%\*\*.
- **TOP-CLASS EFFICIENCY** - Includes a host of innovative technologies that merge to deliver top-class energy efficiency and a much better EER to save energy, costs, and valuable space.
- **HYBRID HEAT EXCHANGER** - Combines two different types of fins to create a uniform air flow and generate a total air volume that's 17% more than conventional systems\*\*. (\*Only available in certain models).
- **DIGITAL INVERTER COMPRESSOR** - Rapidly reaches set temperature and operates quietly and smoothly. Its Vapour Injection System increases refrigerant flow by 20% compared to conventional products\*.
- **FLEXIBILITY & MAINTENANCE** - Maximum piping length of up to 220m (721 feet) between the outdoor and indoor units. It's also able to work efficiently at an elevation of up to 110m, which is equivalent to 22 stories\*\*.
- **SMART MANAGEMENT** - Simpler to monitor and control, anytime anywhere with smart management capabilities. Optional Wi-Fi kit lets you remotely control indoor units using an App\*.
- **DURABILITY & RELIABILITY** - Delivers long-lasting and consistent performance in a wide range of locations. Samsung's Digital Inverter system balances the compressors operation to manage lifespan and reduce maintenance and parts replacement costs.

DVM S systems offer a wide array of sizes, system combinations and control options, providing flexible designs and applications.

## Outdoor Units

### DVM S

DVM S systems offer a wide array of sizes, system combinations and control options, providing flexible designs and applications for large commercial and industrial needs.



- Heat Pump and Heat Recovery
- 208-230V / 60Hz / 3 Ø or 460V / 60Hz / 3 Ø
- 6, 8, 10, 12, 14, 16, and 18\* ton single modules
- BMS connectable
- Connect up to 3 units for system capacities up to 44 tons
- Connect up to 64 indoor units
- 3-pipe HR (enhanced HR performance)

### DVM S Eco

This compact system is the perfect choice for high efficiency heating and cooling of residential and light commercial needs. With a height of just 1210mm and a small footprint of only 0.318m<sup>2</sup>, the DVM S Eco's overall volume is 5% less than competing models with the same capacity\*, as well as top-discharge models.



- Heat Pump and Heat Recovery
- 4, 5, 6, 8, 10, 12 and 14HP capacities/models.
- Installs up to 9 indoor units
- 208/230V, 1 Ph, 60Hz?
- Connectable control w/DVMS
- BMS connectable
- **4-Way Piping** - gives you more flexibility and can be discretely concealed.
- **High Elevation with Long Piping** - it has a maximum piping length of up to 160m between outdoor and indoor units. It also works efficiently at an elevation of up to 50m, which is equivalent to 10 stories\*\*.

## Indoor Units

### CASSETTE



360 Cassette



WindFree 4-Way



WindFree 4-Way Mini (600x600)



WindFree 1-Way

### DUCTED



MSP Duct

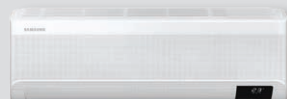


HSP Duct



Slim Duct

### WALL-MOUNTED



WindFree Wall-Mounted



Boracay

### CEILING & FLOOR



Big Ceiling



Convertible



Console

### CONTROLS

There are many different ways to control a Samsung system. Based on desired level of control and user interface preference, Samsung offers a variety of wired controllers suitable for any application.

#### Individual Controls

##### Wireless / Wired Controllers



AR-EH03E



AR-KH03E



MWR-WE13N



MWR-WG00\*N



MWR-SH00N



MWR-SH11N



MWR-VH12N



MCM-A00N

#### Centralized Controls



MWR-SH00N



MWR-SH11N

#### Wi-Fi Kit 2.0



MWR-VH12N

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

Discover the entire line of Samsung's innovative VRF systems, contact Fourways Group today.

- JHB: (011) 704 6320 · PTA: (012) 643 0445
- CT: (021) 556 8292 · KZN: (031) 579 1895
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Smart Airconditioning Solutions

# DVM S

## Specification



Model Code		AM080FXVAGH/EU	AM100FXVAGH/EU	AM120FXVAGH/EU	AM140FXVAGH/EU	AM160FXVAGH/EU
Power Supply (Outdoor Unit) [Φ, #, V, Hz]		3,4,380-415,50	3,4,380-415,50	3,4,380-415,50	3,4,380-415,50	3,4,380-415,50
Performance (Nominal)	HP	8.00	10.00	12.00	14.00	16.00
Capacity	Cooling [kW]	22.40	28.00	33.60	40.00	45.00
	Cooling [Btu/h]	76,400	95,500	114,600	136,500	153,500
	Heating [kW]	25.20	31.50	37.80	45.00	50.40
	Heating [Btu/h]	86,000	107,500	129,000	153,500	172,000
Power Input (Nominal)	Cooling 1) [kW]	5.00	6.80	8.40	8.90	11.00
	Heating 2) [kW]	5.10	6.70	8.70	9.50	11.50
Energy Efficiency	EER (Nominal Cooling)	4.48	4.12	4.00	4.49	4.09
	COP (Nominal Heating)	4.94	4.70	4.34	4.74	4.38
	ESEER	7.85	7.25	7.03	7.02	6.78
Fan	Air Flow Rate (High / Mid / Low) [CMM]	170	170	220	255	255
Piping Connections	Installation Max. Length [m]	200	200	200	200	200
	Installation Max. Height [m]	110.0	110.0	110.0	110.0	110.0
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A
Sound	Sound Pressure [dB(A)]	57.0	58.0	62.0	61.0	63.0
	Sound Power [dB(A)]	77.0	79.0	81.0	81.0	83.0
External Dimension (Outdoor Unit)	Net Weight [kg]	190.0	190.0	190.0	235.0	278.0
	Net Dimensions (WxHxD) [mm]	880 x 1,695 x 765	880 x 1,695 x 765	880 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765

Model Code		AM180FXVAGH/EU	AM200FXVAGH/EU	AM220FXVAGH/EU	AM240HXVAGH/EU	AM260HXVAGH/EU	AM300KXVAGH/TK
Power Supply (Outdoor Unit) [Φ, #, V, Hz]		3,4,380-415,50	3,4,380-415,50	3,4,380-415,50	3,4,380-415,50	3,4,380-415,50	3,4,380-415,50
Performance (Nominal)	HP	18.00	20.00	22.00	24.00	26.00	30.00
Capacity	Cooling [kW]	50.40	56.00	61.60	67.20	72.80	84.00
	Cooling [Btu/h]	172,000	191,100	210,200	229,300	248,400	286,600
	Heating [kW]	56.70	63.00	69.31	75.60	81.90	94.50
	Heating [Btu/h]	193,500	215,000	236,500	258,000	279,500	322,400
Power Input (Nominal)	Cooling 1) [kW]	12.88	15.19	17.35	17.10	19.30	22.70
	Heating 2) [kW]	11.90	13.90	16.70	19.80	21.80	20.59
Energy Efficiency	EER (Nominal Cooling)	3.91	3.69	3.55	3.93	3.77	3.70
	COP (Nominal Heating)	4.76	4.53	4.15	3.82	3.76	4.59
	ESEER	6.59	6.56	6.25	6.48	6.26	6.65
Fan	Air Flow Rate (High / Mid / Low) [CMM]	290	290	290	310	310	340
Piping Connections	Installation Max. Length [m]	200	200	200	200	200	200
	Installation Max. Height [m]	110.0	110.0	110.0	110.0	110.0	110.0
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A	R410A
Sound	Sound Pressure [dB(A)]	64.0	65.0	66.0	67.0	67.0	69.0
	Sound Power [dB(A)]	86.0	87.0	89.0	91.0	91.0	90.0
External Dimension (Outdoor Unit)	Net Weight [kg]	300.0	300.0	300.0	360.0	360.0	350.0
	Net Dimensions (WxHxD) [mm]	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,795 x 765

\* Product Specifications in the publication can be changed without prior notice, because there is always ongoing improvement in our products.

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.

# DVM S Eco

## Specification



Model Code		AM040KXMDEH/EU	AM050KXMDEH/EU	AM040FXMDEH/EU	AM040FXMDGH/EU	AM050FXMDEH/EU	AM050FXMDGH/EU
Power Supply (Outdoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	1,2,220-240,50	1,2,220-240,50	3,4,380-415,50	1,2,220-240,50	3,4,380-415,50
Performance (Nominal)	HP	4.00	5.00	4.00	4.00	5.00	5.00
Capacity	Cooling [kW]	12.10	14.00	12.10	12.10	14.00	14.00
	Cooling [Btu/h]	41,300	47,800	41,300	41,300	47,800	47,800
	Heating [kW]	12.10	14.00	13.50	13.50	16.00	16.00
	Heating [Btu/h]	41,300	47,800	46,100	46,100	54,600	54,600
Power Input (Nominal)	Cooling 1) [kW]	3.60	4.00	2.89	2.99	3.69	3.69
	Heating 2) [kW]	2.90	3.40	3.02	3.02	3.61	3.61
Energy Efficiency	EER (Nominal Cooling)	3.36	3.50	4.19	4.05	3.79	3.79
	COP (Nominal Heating)	4.17	4.12	4.47	4.47	4.43	4.43
	ESEER	7.25	6.71	7.57	7.57	6.91	6.91
Fan	Air Flow Rate (High / Mid / Low) [CMM]	64	70	100	100	100	100
Piping Connections	Installation Max. Length [m]	50	50	150	150	150	150
	Installation Max. Height [m]	30.0	30.0	50.0	50.0	50.0	50.0
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A	R410A
Sound	Sound Pressure [dB(A)]	52.0 / 54.0	55.0 / 57.0	50.0	50.0	51.0	51.0
	Sound Power [dB(A)]	73.0	75.0	66.0	66.0	67.0	67.0
External Dimension (Outdoor Unit)	Net Weight [kg]	79.0	83.5	100.0	100.0	100.0	100.0
	Net Dimensions (WxHxD) [mm]	940 x 998 x 330	940 x 998 x 330	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330

Model Code		AM060FXMDEH/EU	AM060FXMDGH/EU	AM080FXMDGH/EU	AM080MXMDGH/EU	AM100KXMDGH/EU	AM120KXMDGH/EU	AM140KXMDGH/EU
Power Supply (Outdoor Unit) [Φ, #, V, Hz]		1,2,220-240,50	3,4,380-415,50	3,4,380-415,50	3,4,380-415,50	3,4,380-415,50	3,4,380-415,50	3,4,380-415,50
Performance (Nominal)	HP	6.00	6.00	8.00	8	10.00	12.00	14.00
Capacity	Cooling [kW]	15.50	15.50	22.40	22.4	27.99	33.50	40.00
	Cooling [Btu/h]	52,900	52,900	76,400	76,400	95,500	114,300	136,500
	Heating [kW]	18.00	18.00	25.00	22.4	31.51	37.51	44.99
	Heating [Btu/h]	61,400	61,400	85,300	76,400	107,500	128,000	153,500
Power Input (Nominal)	Cooling 1) [kW]	4.31	4.31	5.72	6.9	7.29	8.77	10.59
	Heating 2) [kW]	4.39	4.39	4.88	5.8	6.74	7.83	9.88
Energy Efficiency	EER (Nominal Cooling)	3.60	3.60	3.92	3.25	3.84	3.82	3.78
	COP (Nominal Heating)	4.10	4.10	5.12	3.86	4.68	4.79	4.55
	ESEER	6.45	6.45	9.22	7.46	7.09	6.94	6.83
Fan	Air Flow Rate (High / Mid / Low) [CMM]	100	100	135	135	165	166	180
Piping Connections	Installation Max. Length [m]	150	150	100	100	99	160	160
	Installation Max. Height [m]	50.0	50.0	30.0	30	50.0	50.0	50.0
Refrigerant	Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Sound	Sound Pressure [dB(A)]	53.0	53.0	56.0	59	58.0	59.0	62.0
	Sound Power [dB(A)]	69.0	69.0	74.0	77	74.0	76.0	79.0
External Dimension (Outdoor Unit)	Net Weight [kg]	103.0	103.0	135.0	115	145.0	155.0	162.0
	Net Dimensions (WxHxD) [mm]	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,420 x 330	940 x 1,420 x 330	940 x 1,630 x 460	940 x 1,630 x 460	940 x 1,630 x 460

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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.