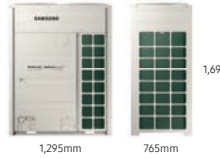


Equipped with
four innovative technology
components that result
delivering greater
energy efficiency.



DVM S2 Line-up

Single Unit

												
Capacity (Index)	8	10	12	14	14	16	18	20	22	24	26	
Heat Pump Energy Efficiency	•	•	•	–	•	•	•	•	•	•	•	
Heat Pump Standard	•	•	•	•	–	•	•	•	•	•	•	
Heat Pump Essential	–	•	•	•	–	•	•	•	•	•	•	
Heat Recovery Energy Efficiency	•	•	•	–	•	•	•	•	•	•	•	

Multiple Units

Capacity (Index)	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62
Heat Pump Energy Efficiency	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Heat Pump Standard	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Heat Pump Essential	•	•	•	•	•	•	•	–	–	–	–	–	–	–	–	–	–	–
Heat Recovery Energy Efficiency	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

Capacity (Index)	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98
Heat Pump Energy Efficiency	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Heat Pump Standard	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Heat Pump Essential	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Heat Recovery Energy Efficiency	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

* The available line-up, including capacities and models, may vary by region.

SAMSUNG

The next generation
Digital Variable Multi



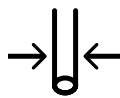
Energy Efficiency

Redesigned to reduce the
operating costs



Active AI

Optimizes itself intelligently,
based on machine learning



Refrigerant Reduction

Uses less refrigerant as it has a
slimmer liquid line.



Advanced Flash Injection

Features the AFI (Advanced
Flash Injection) Compressor™,
which delivers an incredible
heating performance.

Learn more about Samsung Climate Solutions at:
www.samsung.com/climate

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SAMSUNG

DVM S2 | WindFree™
Digital Variable Multi Compatible



Redesigned to reduce operating costs

The enlarged Heat Exchanger can transfer more energy at once, and its Optimised refrigerant path maximises the transfer rate while minimising any loss. These heat exchanger allow for 36.2 % greater heat transfer area on a smaller platform¹ and 23.7 % greater heat transfer on a larger platform². The power module which is an integral part of the inverter system is improved as it lowers heat dissipation and saves energy.

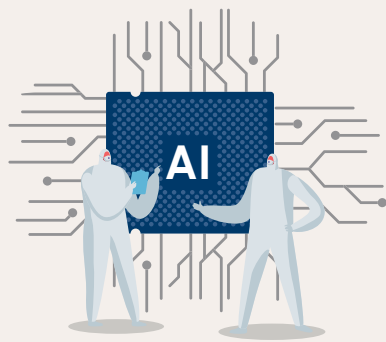


Uses less refrigerant due to slimmer liquid line

The DVM S2 requires less refrigerant as it uses a slimmer liquid line³. As a result, it saves costs on the installation and maintenance of refrigerant and piping materials.



¹DVM S2 equipped with larger heat exchanger than conventional model AM100JXVAGH/ET. HX Length: 1,700 mm → 1,910 mm. Platform Width : 880 → 930 [mm]. ²DVM S2 equipped with larger heat exchanger than conventional model AM200KXVAGH/ET. HX Length: 2,100 mm → 2,600 mm. ³A slimmer liquid line can be used between an outdoor unit and the first branch of indoor units. The diameter of the slimmer pipe will vary depending on the diameter of the pipe that is normally used. It may not be available in certain installation conditions, and is not compatible with certain AI functions of outdoor units. Please contact Samsung's technical professionals regarding its availability and for more detailed information.



AI technology innovations to reduce energy consumption

By learning usage patterns from recent operations and the surrounding conditions, the DVM S2 proactively creates, optimizes and maintains the most comfortable environment, while reducing energy consumption.



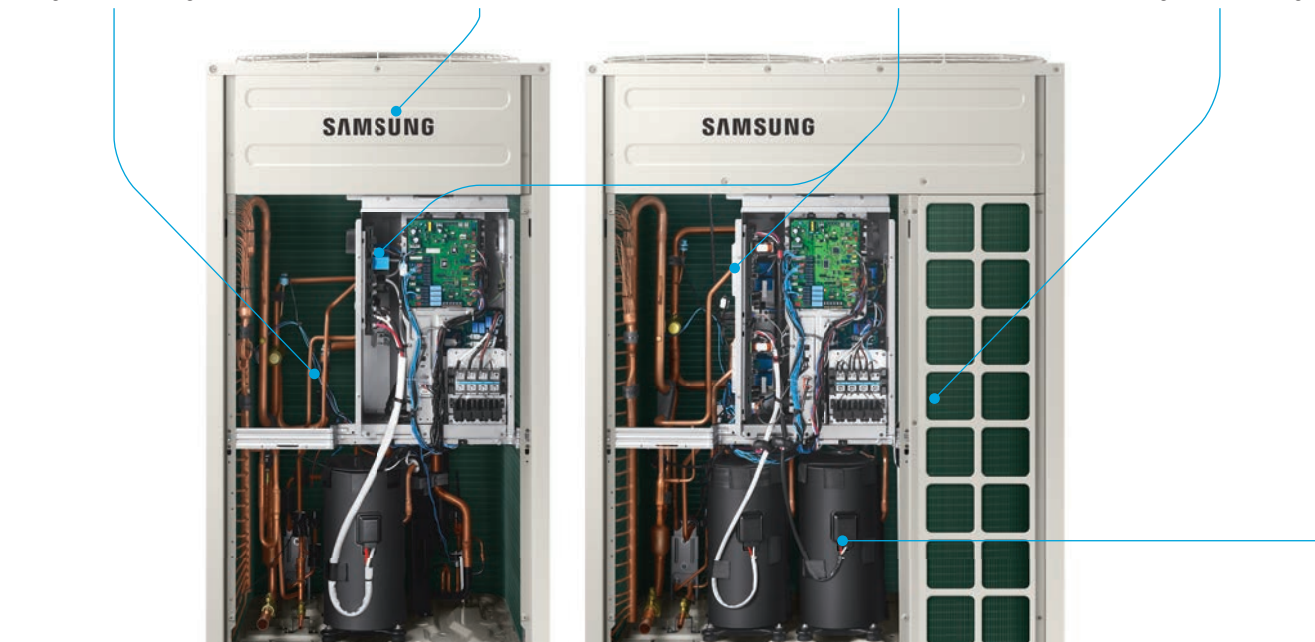
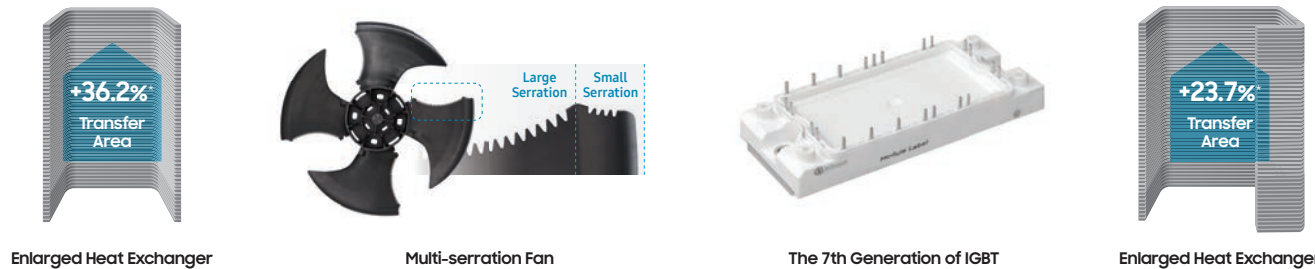
Quieter and enhanced heating performance

The DVM S2 features the AFI Compressor™, which delivers a new level of comfort by maintaining pleasantly cool or warm conditions in every corner of a building all year round.



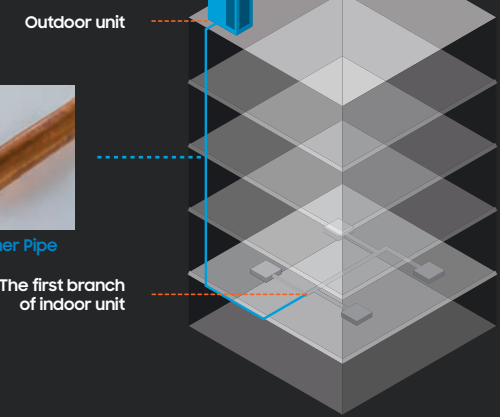
High Energy-Efficiency Features

- 1** The **enlarged Heat Exchanger** can transfer more energy at once, and its **optimised refrigerant path** maximises the transfer rate while minimising any loss.
- 2** The aerodynamic **Multi-serration Fan** minimises the turbulence of the air vortex, which reduces the air resistance.
- 3** The **High-efficiency IGBT (Insulated Gate Bipolar Transistor)** reduces the loss of conducted electricity.



Slimmer Liquid Line

The DVM S2 requires less refrigerant as it uses a slimmer liquid pipe¹. Therefore, it saves costs on the installation and maintenance of refrigerant and piping materials. In addition, by using less refrigerant it is more environmentally friendly, as it reduces CO₂ emissions. The decreasing of pipes has resulted in refrigerant reduction by 28 %².



¹Optional. Based on internal testing in Samsung's Test Lab. A slimmer pipe can be used for the Main Liquid Pipe, between an outdoor unit and the first branch of indoor units. The diameter of the slimmer pipe will vary depending on the diameter of the pipe that is normally used. Not available on the 22.4 kW and 28 kW models. It may not be available in certain installation conditions, and is not compatible with the AI functions of outdoor units. When a slimmer pipe, instead of a normal pipe, is used for the Main Liquid Pipe on the same capacity of air conditioning system, the amount of refrigerant to be charged can be reduced by 28 % on average. Please contact Samsung's technical professionals regarding its availability and for more detailed information. ²Based on Samsung's measurements, comparing 33.6 kW and 56 kW models of a DVM S2 and DVM S.

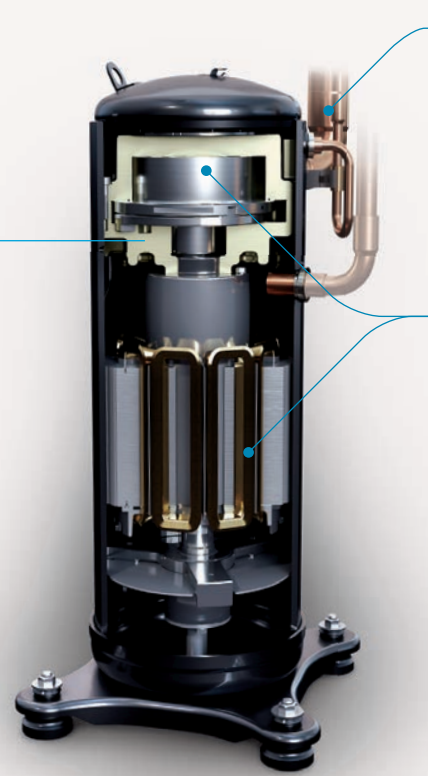
Active AI Technology

By learning usage patterns from recent operations and the conditions of the installed environment, the DVM S2 proactively creates, optimizes and maintains the most comfortable environment, while reducing energy consumption.

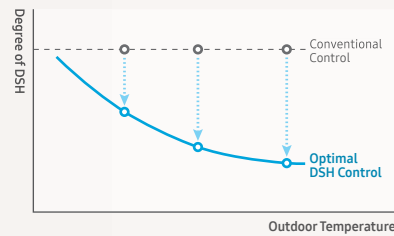
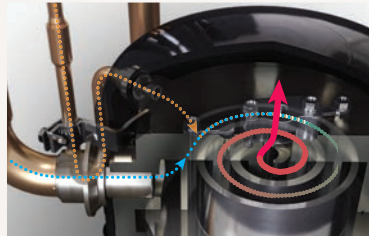
- 1** **Active AI Pressure Control** automatically adjusts the compression pressure to suit the conditions of each installation site and to reduce energy usage.
- 2** **Active AI Defrost** analyses various operating data and defrosts more precisely. As a result, it reduces wasted energy and increases the continuous heating time.
- 3** **Active AI Refrigerant Analysis** monitors the refrigerant level by analysing various operating data from the outdoor unit, and helps to maintain the optimal amount of refrigerant.

AFI (Advanced Flash Injection) Compressor™

By combining Flash Injection technology with a strengthened Triple Profile Wrap and Optimal Discharge Superheat Control technology, it delivers a new level of comfort by maintaining pleasantly cool or warm conditions in every corner of a building all year round.



- 1** **Flash Injection Technology** increases the flow of refrigerant. So, the compressor continues working reliably, improving the heating performance at even lower temperatures.
- 2** **Triple Profile Scroll** creates a much larger chamber and can withstand higher pressure, while rotating reliably at high speed. By combining it with a **Dual Magnet Motor**, which increases the rotary power, creates the world's largest displacement volume¹.
- 3** **Optimal Discharge Superheat (DSH) Control** automatically adjusts the degree of discharge superheat to heat more efficiently and effectively.



¹ Samsung circulates 14,400cc/sec refrigerant (= 90cc (displacement volume) x 160rps (revolutions per second)).