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

True innovation is a rare thing.
So, the multiple new technologies in the Samsung DVM S2 make it truly unique.

DVM S2 Line-up

Single Unit

Capacity (index)	8	10	12	14	16	18	20	22	24	26
Heat Pump Energy Efficiency	•	•	•	•	•	•	•	•	•	•
Heat Pump Standard	•	•	•	•	•	•	•	•	•	•
Heat Pump Essential	-	•	•	•	•	•	• Multiple Units	• Multiple Units	• Multiple Units	• Multiple Units
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.

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SAMSUNG

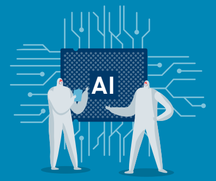
The next era is not so far away

DVM S2 | WindFree™
Digital Variable Multi Compatible

Maximized Efficiency Minimizes Wasted Energy

The DVM S2 has been radically redesigned to reduce the operating costs with unique technologies that are significantly more efficient. As a result, it is proven to be around 11% more energy efficient across a range of capacities*, on average.

Enlarged Heat Exchanger · Optimized Refrigerant Path · Multi-serration Fan · The 7th Generation of IGBT



Artificial intelligence Controls More Efficiently

The DVM S2 optimizes itself intelligently, based on machine learning about the installation conditions and usage patterns, so it always works efficiently and effectively.

Active AI Pressure Control · Active AI Defrost · Active AI Refrigerant Analysis

Less Refrigerant Reduces Environmental Risks

The DVM S2 uses less refrigerant as it has a slimmer liquid line. So, it has less Ozone Depletion Potential (ODP) and a lower Global Warming Potential (GWP), and reduces CO_2 emissions.

Slimmer Liquid Line

Superior Heating Performance Keeps You Comfortable

The DVM S2 features the AFI Compressor™, which delivers an incredible heating performance. It also performs well at even lower temperatures, providing non-stop comfort in the coldest conditions.

Flash Injection Technology · Triple Profile Scroll · Dual Magnet Motor · Optimal DSH Control

* Based on testing by Eurovent, at the end of December 2020. Tested on 8~20HP models of the Samsung DVM S2 compared to the same capacities of another brand, using ducted air conditioners.

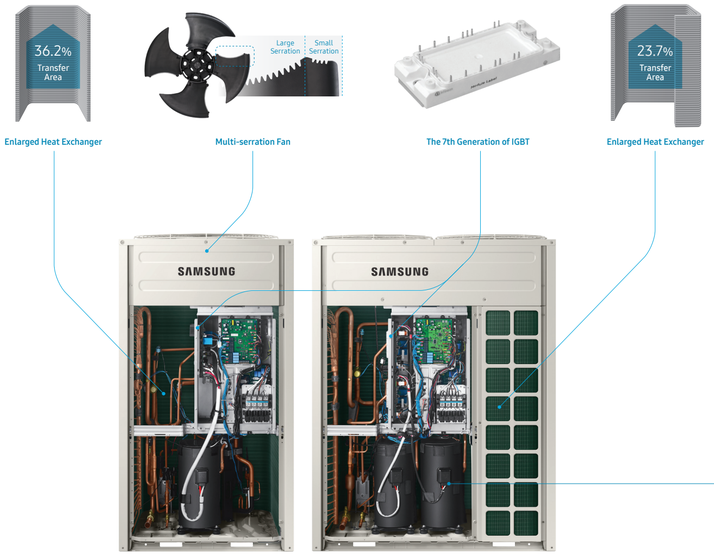
High Energy-Efficiency Features

The DVM S2 delivers more performance while consuming less. By improving the design of every single part, it delivers a surprisingly high level of efficiency like never before.

1 The **enlarged Heat Exchanger** can transfer more energy at once, and its **optimized refrigerant path** maximizes the transfer rate while minimizing any loss.

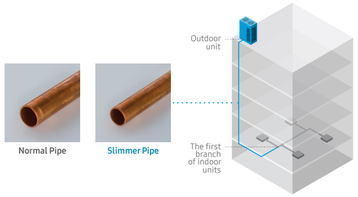
2 The aerodynamic **Multi-serration Fan** minimizes the turbulence of the air vortex, which reduces the air resistance.

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 line*. So, 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 has less Ozone Depletion Potential (ODP) and reduces CO_2 emissions.



* A 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.

Active AI Technology

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.

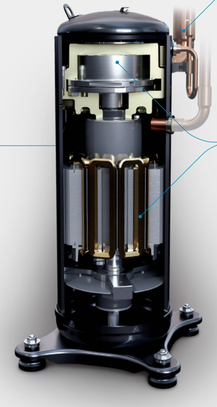
1 **Active AI Pressure Control** automatically adjusts the compression pressure to suit the conditions of each installation site and to reduce energy usage.

2 **Active AI Defrost** analyzes various operating data and defrosts more precisely. As a result, it reduces wasted energy and increases the continuous heating time.

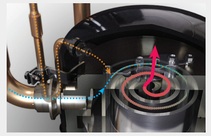
3 **Active AI Refrigerant Analysis** monitors the refrigerent level by analyzing various operating data from the outdoor unit, and helps maintain the optimal amount of refrigerant.

AFI (Advanced Flash Injection) Compressor™

The revolutionary Samsung AFI Compressor™ includes a host of brand-new innovations created by Samsung. 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.

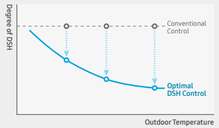


1 **Flash Injection Technology** increases the flow of refrigerant. So, the compressor continues working reliably, improving the heating performance at even lower temperatures.



2 **Triple Profile Scroll** creates a much larger chamber and can withstand higher pressure, while rotating reliably at high speed. Combining it with a **Dual Magnet Motor**, which increases the rotary power, creates the world's largest displacement volume*.

3 **Optimal Discharge Superheat (DSH) Control** automatically adjusts the degree of discharge superheat to heat more efficiently and effectively.



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