



Samsung Electronics launches a new generation of high-performance VRF: DVM S 30HP

Samsung boosts efficiency and performance capabilities with the new Super DVM

Singapore – January 22, 2016 – Samsung Electronics announced the launch of the DVM S 30HP, which combines the DVM S with exceptional innovation to provide enhanced performance, efficiency and reliability.

The new Samsung DVM S 30HP features a number of innovative features to boost performance, including a new Super Inverter Scroll Compressor with flash injection technology and an optimized bypass valve location to increase efficiency.

The further addition of a hybrid heat exchanger increases the heat exchange area while an optimized refrigerant control delivers greater efficiency (10 percent better than Samsung conventional models). A new oval-shaped diffuser application improves the airflow path and increases the airflow rate by 17 percent compared to the round-shaped diffuser in Samsung conventional DVM S.

With the launch of the DVM S 30HP, Samsung continues to deliver smart-design VRF with high performance capacity combined with low installation and maintenance costs. In view of the current trend of growing number of tall high-rise buildings, Samsung believes that the DVM S 30HP is an ideal solution for its customers.



Increased high-performance capacity

The 80cc compressor in the DVM S 30HP delivers a 14.3 percent increase in displacement compared to Samsung conventional models, while the adoption of an asymmetric algebraic scroll allows for a thicker profile in the center and provides greater suction area.

The inclusion of Flash Injection Technology increases refrigerant flow by 32 percent, extending the heating operation range to -25°C and increasing efficiency compared to Samsung conventional model. The technology involves an injection of mixed vapor with liquid refrigerant for increased refrigerant flow density at low ambient temperature.

The Samsung DVM S 30HP delivers up to 120HP with a combined four modular system, an increase of 50 percent in HP compared to Samsung conventional models with smaller modular systems. The single 30HP unit measures less than 1m² and weighs 360kg, significantly reducing installation space.

Greater efficiency

The Samsung DVM S 30HP is engineered to deliver optimized refrigerant control, through the use of individual electronic expansion valves (EEVs), enabling a 2.5 percent increase in performance and a 4 percent increase in efficiency compared to Samsung conventional model.

The new oval-shaped design of the diffuser application in the Samsung DVM S 30HP increases airflow rate by 5 percent while reducing noise levels by 3dBA compared to Samsung conventional model. It has also improved the air flow path by 17 percent, from 290 to 340 CMM (m³ per min of airflow).

Safety

The Samsung DVM S 30HP also complies with strict safety regulations via the innovative leak detection system which is available optionally. When a leak is detected, the system automatically begins an active pump down process to collect the refrigerant and close all valves to isolate it within the unit.

This new DVM S 30HP will be launched on February 16, 2016, in Singapore. For more information, please visit <http://www.samsung.com/sg/business/business-products/system-air-conditioner>

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** Based on Samsung internal testing, results may vary.*