

# SAMSUNG

## DVM S Eco

## Small and mighty.

With multiple capacities for residential and light commercial applications, the DVM S Eco system gives you performance, efficiency and savings in a smaller footprint.



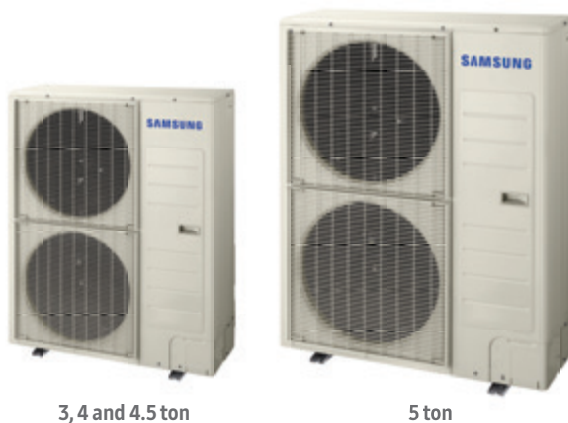
Product Registration Required  
Conditions Apply





## Small yet versatile.

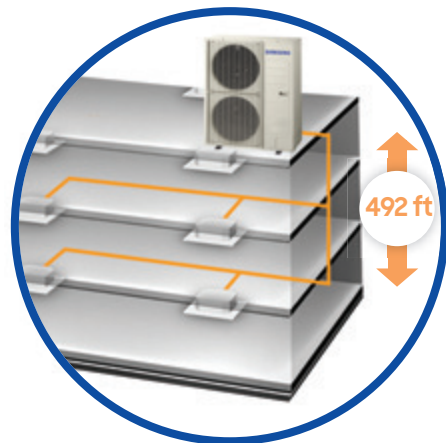
This compact system is the perfect choice for high efficiency heating and cooling of residential and light commercial needs.



- Heat Pump and Heat Recovery<sup>1</sup> models
- 208-230V / 60Hz / 1 Ø
- 3, 4, 4.5, and 5 ton single modules
- Connect up to 10 indoor units
  - 3 ton – Up to 8
  - 4 ton – Up to 9
  - 4.5 and 5 ton – Up to 10

## Cut costs and space.

DVM S Eco systems offer installation flexibility with maximum piping length up to 492 ft., vertical separation<sup>2</sup> up to 164 ft. between the outdoor unit and lowest indoor unit (when the outdoor unit is above the indoor units) and 131 ft. between the highest and lowest indoor unit (when the outdoor unit is below the indoor units).







## It's impressive. Very impressive.

- High heating performance at -13°F (-25°C)
- Wide variety of indoor units
- Nighttime Quiet Mode offers 3 levels of noise reduction from the outdoor unit
- Snow accumulation prevention of the outdoor unit when the outside temperature falls below 41°F (5°C)
- Wide variety of control options are available – from wired controllers to full control and monitoring options that can be integrated into building automation systems.
- Optional Wi-Fi adapter available
- Heat Recovery systems add the capability to heat and cool separate zones simultaneously, making it a superior choice for residential and light commercial applications. A HR Changer is required, and additional MCU's may be necessary depending on configuration of indoor units, number of indoor units and connected capacity.

# Indoor Units

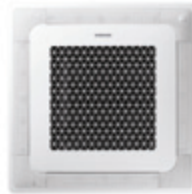
Capacities shown in Btu/h



**360 CASSETTE**  
9K-48K



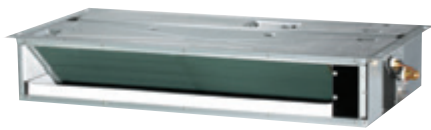
**WIND-FREE™\* 4-WAY CASSETTE**  
6K-48K



**WIND-FREE™\* MINI 4-WAY CASSETTE**  
5K-20K



**WIND-FREE™\* 1-WAY CASSETTE**  
7.5K-12K



**SLIM DUCT**  
7.5K-48K



**HSP DUCT**  
(High Static Pressure)  
54K



**DUCT S**  
6K-48K



**WIND-FREE™\* 2.0**  
5K-28K



**MAX**  
32K



**UNDER CEILING**  
18K-24K



**BIG CEILING**  
36K-48K



**FLOOR STANDING**  
(concealed type)  
6K-24K



**FLOOR STANDING**  
(exposed type)  
6K-24K



**MULTI-POSITION AIR HANDLER**  
12K-60K

\*The Wind-Free™ unit delivers an air current that is under 0.15 m/s while in Wind-Free™ mode. Air velocity that is below 0.15 m/s is considered "still air" as defined by ASHRAE 55-2013 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers).  
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# Wi-Fi Adapter



Samsung's Wi-Fi Adapter allows for remote control and monitoring of Samsung indoor units from a mobile device (Android or iOS) when using the Samsung Smart Home App\*.

## App Features

- Daily, weekly, and monthly energy consumption monitoring†
- Basic control and monitoring of power, mode, set temperature, room temperature, fan speed, and supply air louver position
- 7-day scheduling for single or multiple units

One MIM-H04UN Wi-Fi Adapter can control all indoor units connected to a DVM S Eco system. Group configuration allows for simple control of multiple units connected to the same Wi-Fi Adapter.



**WI-FI ADAPTER**  
MIM-H04UN

## Individual Control

There are many different ways to control a Samsung system. For applications where a wireless controller is not acceptable (i.e. public facilities), the Touchscreen and Advanced wired controllers are available to purchase as an option. Additionally, a Thermostat Adapter can be applied to control up to two indoor units on the same system simultaneously with a 24VAC thermostat. Visit [SamsungHVAC.com](http://SamsungHVAC.com) to learn more.



**WIRELESS REMOTE CONTROLLER‡**  
AR-EH04U



**TOUCHSCREEN WIRED CONTROLLER**  
MWR-SH11UN



**ADVANCED WIRED CONTROLLER**  
MWR-WG00UN



**THERMOSTAT ADAPTER**  
MIM-A60UN

## Central Controls

Samsung's Data Management Server (DMS) lets you monitor and control your on-site air conditioning needs remotely. It's the easiest and most convenient way to manage a large number of air conditioning units at once.

### DMS 2.5

- 24-hour standalone web-server
- No special software required
- All management functions integrated
- Heat Pump auto changeover logic
- DMS 2.5 + BACnet and LonWorks available
- BACnet and LonWorks gateways will connect and setup the same as DMS 2.5



**DMS 2.5**  
MIM-D01AUN

Additional control options available. Please refer to [SamsungHVAC.com](http://SamsungHVAC.com) for all control options, features and specification.

\*Available for download on the Google™ Play store and App Store®. A network connection is required. Samsung application account is necessary.  
†Energy consumption data is used for general reference only and should not be used for billing purposes. Data provided will not necessarily match your utility bill.  
‡360 Cassette models require the AR-KH03U wireless controller.  
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# DVM S Eco

SPECIFICATIONS - 36,000 | 48,000

| MODEL                       | MODEL NUMBER                |                          | AM036TXMDCH/AA       | AM036NXMDCR/AA       | AM048TXMDCH/AA       | AM048NXMDCR/AA       |
|-----------------------------|-----------------------------|--------------------------|----------------------|----------------------|----------------------|----------------------|
|                             | TYPE                        |                          | HEAT PUMP            | HEAT RECOVERY        | HEAT PUMP            | HEAT RECOVERY        |
| TONS                        | NOMINAL                     |                          | 3                    | 3                    | 4                    | 4                    |
| MAX. INDOOR UNIT CONNECTION | QUANTITY                    |                          | 8                    | 8                    | 9                    | 9                    |
| PERFORMANCE                 | CAPACITY                    | COOLING                  | 38,000 Btu/h         | 38,000 Btu/h         | 48,000 Btu/h         | 48,000 Btu/h         |
|                             |                             | HEATING                  | 42,000 Btu/h         | 42,000 Btu/h         | 54,000 Btu/h         | 54,000 Btu/h         |
|                             | EER (DUCTED / NON-DUCTED)   |                          | 11.20 / 12.50        | 11.20 / 11.50        | 10.20 / 11.50        | 10.20 / 11.50        |
|                             | SEER (DUCTED / NON-DUCTED)  |                          | 17.20 / 22.00        | 17.20 / 22.00        | 17.20 / 21.00        | 17.20 / 21.00        |
|                             | HSPF (DUCTED / NON-DUCTED)  |                          | 9.50 / 10.00         | 9.50 / 10.00         | 10.40 / 10.70        | 10.40 / 10.70        |
| POWER                       | VOLTAGE                     | Ø, V, Hz                 | 1 / 208-230 / 60     | 1 / 208-230 / 60     | 1 / 208-230 / 60     | 1 / 208-230 / 60     |
|                             | MAX. BREAKER                |                          | 40.0 A               | 40.0 A               | 50.0 A               | 50.0 A               |
|                             | MIN. CIRCUIT AMPACITY       |                          | 23.0 A               | 23.0 A               | 29.0 A               | 29.0 A               |
| DIMENSIONS                  | W X H X D                   |                          | 37 X 47 5/8 X 13 in. | 37 X 47 5/8 X 13 in. | 37 X 47 5/8 X 13 in. | 37 X 47 5/8 X 13 in. |
|                             | WEIGHT                      |                          | 216.1 lbs.           | 213.8 lbs.           | 216.1 lbs.           | 213.8 lbs.           |
| SOUND PRESSURE LEVEL        | OUTDOOR (COOLING / HEATING) |                          | 50 dB(A) / 52 dB(A)  | 50 dB(A) / 52 dB(A)  | 51 dB(A) / 53 dB(A)  | 51 dB(A) / 53 dB(A)  |
| OPERATING TEMPERATURE °F    | OUTDOOR                     | COOLING                  | 0.0 - 118.0°F        | 0.0 - 118.0°F        | 0.0 - 118.0°F        | 0.0 - 118.0°F        |
|                             |                             | HEATING                  | -13.0 - 75.0°F       | -13.0 - 75.0°F       | -13.0 - 75.0°F       | -13.0 - 75.0°F       |
| OPERATING TEMPERATURE °C    | OUTDOOR                     | COOLING                  | -18.0 - 48.0°C       | -18.0 - 48.0°C       | -18.0 - 48.0°C       | -18.0 - 48.0°C       |
|                             |                             | HEATING                  | -25.0 - 24.0°C       | -25.0 - 24.0°C       | -25.0 - 24.0°C       | -25.0 - 24.0°C       |
| PIPE CONNECTIONS            | LIQUID PIPE                 |                          | 3/8 in.              | 3/8 in.              | 3/8 in.              | 3/8 in.              |
|                             | GAS PIPE                    |                          | 5/8 in.              | 3/4 in.              | 5/8 in.              | 3/4 in.              |
|                             | HIGH PRESSURE GAS PIPE      |                          | -                    | 5/8 in.              | -                    | 5/8 in.              |
|                             | INSTALLATION LIMITATIONS    | MAX. VERTICAL SEPARATION | 164 ft.              | 164 ft.              | 164 ft.              | 164 ft.              |
|                             |                             | MAX. LENGTH (ODU - IDU)  | 492 ft.              | 492 ft.              | 492 ft.              | 492 ft.              |
| REFRIGERANT                 | TYPE                        |                          | R410A                | R410A                | R410A                | R410A                |
|                             | FACTORY CHARGE              |                          | 71 lbs.              | 71 lbs.              | 71 lbs.              | 71 lbs.              |
| COMPRESSOR                  | TYPE                        |                          | Twin BLDC Rotary     | Twin BLDC Rotary     | Twin BLDC Rotary     | Twin BLDC Rotary     |
| CONDENSER FAN               | FAN                         | TYPE                     | Propeller (2)        | Propeller (2)        | Propeller (2)        | Propeller (2)        |
|                             |                             | CFM (MAX.)               | 3,885                | 3,885                | 3,885                | 3,885                |
|                             | MOTOR                       | TYPE                     | BLDC                 | BLDC                 | BLDC                 | BLDC                 |
|                             |                             | OUTPUT                   | 125 X 2 W            | 125 X 2 W            | 125 X 2 W            | 125 X 2 W            |
| ACCESSORIES                 | WIND BAFFLE/GUARD           | FRONT                    | WBF-1M2              | WBF-1M2              | WBF-1M2              | WBF-1M2              |
|                             |                             | BACK                     | WBB-2M               | WBB-2M               | WBB-2M               | WBB-2M               |



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# DVM S Eco

SPECIFICATIONS - 53,000 | 60,000

| MODEL                       | MODEL NUMBER                |                          | AM053TXMDCH/AA       | AM053NXMDCR/AA       | AM060MXMDCH/AA                 | AM060NXMDCR/AA                 |
|-----------------------------|-----------------------------|--------------------------|----------------------|----------------------|--------------------------------|--------------------------------|
|                             | TYPE                        |                          | HEAT PUMP            | HEAT RECOVERY        | HEAT PUMP                      | HEAT RECOVERY                  |
| TONS                        | NOMINAL                     |                          | 4.5                  | 4.5                  | 5                              | 5                              |
| MAX. INDOOR UNIT CONNECTION | QUANTITY                    |                          | 10                   | 10                   | 10                             | 10                             |
| PERFORMANCE                 | CAPACITY                    | COOLING                  | 53,000 Btu/h         | 53,000 Btu/h         | 60,000 Btu/h                   | 60,000 Btu/h                   |
|                             |                             | HEATING                  | 61,000 Btu/h         | 61,000 Btu/h         | 66,000 Btu/h                   | 66,000 Btu/h                   |
|                             | EER (DUCTED / NON-DUCTED)   |                          | 9.45 / 11.50         | 9.45 / 11.50         | 10.90 / 11.20                  | 10.90 / 11.20                  |
|                             | SEER (DUCTED / NON-DUCTED)  |                          | 17.50 / 20.00        | 17.50 / 20.00        | 17.10 / 20.60                  | 17.10 / 20.60                  |
|                             | HSPF (DUCTED / NON-DUCTED)  |                          | 10.00 / 11.00        | 10.00 / 11.00        | 10.90 / 11.50                  | 10.90 / 11.50                  |
| POWER                       | VOLTAGE                     | Ø, V, Hz                 | 1 / 208-230 / 60     | 1 / 208-230 / 60     | 1 / 208-230 / 60               | 1 / 208-230 / 60               |
|                             | MAX. BREAKER                |                          | 50.0 A               | 50.0 A               | 50.0 A                         | 50.0 A                         |
|                             | MIN. CIRCUIT AMPACITY       |                          | 34.0 A               | 34.0 A               | 32.0 A                         | 32.0 A                         |
| DIMENSIONS                  | W X H X D                   |                          | 37 X 47 5/8 X 13 in. | 37 X 47 5/8 X 13 in. | 37 X 55 15/16 X 13 in.         | 37 X 55 15/16 X 13 in.         |
|                             | WEIGHT                      |                          | 227.0 lbs.           | 220.5 lbs.           | 275.6 lbs.                     | 275.6 lbs.                     |
| SOUND PRESSURE LEVEL        | OUTDOOR (COOLING / HEATING) |                          | 53 dB(A) / 55 dB(A)  | 53 dB(A) / 55 dB(A)  | 50 dB(A) / 60 dB(A)            | 58 dB(A) / 59 dB(A)            |
| OPERATING TEMPERATURE °F    | OUTDOOR                     | COOLING                  | 0.0 - 118.0°F        | 0.0 - 118.0°F        | 0.0 - 118.0°F                  | 0.0 - 118.0°F                  |
|                             |                             | HEATING                  | -13.0 - 75.0°F       | -13.0 - 75.0°F       | -13.0 - 75.0°F                 | -13.0 - 75.0°F                 |
| OPERATING TEMPERATURE °C    | OUTDOOR                     | COOLING                  | -18.0 - 48.0°C       | -18.0 - 48.0°C       | -18.0 - 48.0°C                 | -18.0 - 48.0°C                 |
|                             |                             | HEATING                  | -25.0 - 24.0°C       | -25.0 - 24.0°C       | -25.0 - 24.0°C                 | -25.0 - 24.0°C                 |
| PIPE CONNECTIONS            | LIQUID PIPE                 |                          | 3/8 in.              | 3/8 in.              | 3/8 in.                        | 3/8 in.                        |
|                             | GAS PIPE                    |                          | 5/8 in.              | 3/4 in.              | 3/4 in.                        | 3/4 in.                        |
|                             | HIGH PRESSURE GAS PIPE      |                          | -                    | 5/8 in.              | -                              | 5/8 in.                        |
|                             | INSTALLATION LIMITATIONS    | MAX. VERTICAL SEPARATION | 164 ft.              | 164 ft.              | 164 ft.                        | 164 ft.                        |
|                             |                             | MAX. LENGTH (ODU - IDU)  | 492 ft.              | 492 ft.              | 492 ft.                        | 492 ft.                        |
| REFRIGERANT                 | TYPE                        |                          | R410A                | R410A                | R410A                          | R410A                          |
|                             | FACTORY CHARGE              |                          | 7.3 lbs.             | 7.3 lbs.             | 8.2 lbs.                       | 8.2 lbs.                       |
| COMPRESSOR                  | TYPE                        |                          | Twin BLDC Rotary     | Twin BLDC Rotary     | Flash Injected Inverter Scroll | Flash Injected Inverter Scroll |
| CONDENSER FAN               | FAN                         | TYPE                     | Propeller (2)        | Propeller (2)        | Propeller (2)                  | Propeller (2)                  |
|                             |                             | CFM (MAX.)               | 3,885                | 3,885                | 4,767                          | 4,767                          |
|                             | MOTOR                       | TYPE                     | BLDC                 | BLDC                 | BLDC                           | BLDC                           |
|                             |                             | OUTPUT                   | 125 X 2 W            | 125 X 2 W            | 139 X 2 W                      | 139 X 2 W                      |
| ACCESSORIES                 | WIND BAFFLE/GUARD           | FRONT                    | WBF-1M2              | WBF-1M2              | WBF-6M                         | WBF-6M                         |
|                             |                             | BACK                     | WBB-2M               | WBB-2M               | WBB-8M                         | WBB-8M                         |



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