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DVM S2 R32

Smart climate control. Built for what's next.

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DVM S2 R32

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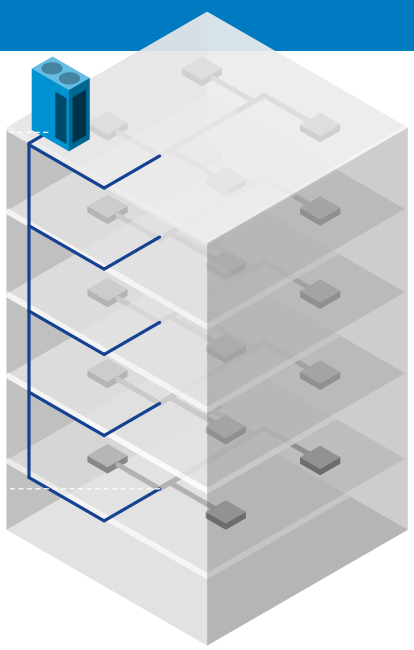
BMS Integration Ready

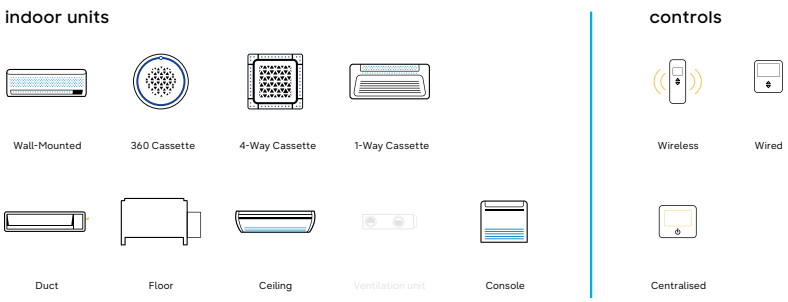
R32 refrigerant

Smart climate control. Built for what's next.

Meet the Samsung DVM S2 R32 a commercial outdoor unit designed to support heating and cooling requirements across a wide range of buildings. It operates using R32 refrigerant, which has a lower Global Warming Potential (GWP) than R410A[1].

The Samsung DVM S2 R32 is available as a heat pump for heating or cooling, and as a heat recovery system for simultaneous heating and cooling. With an optional AI Booster Kit[2], the unit enables on-device data processing, supporting adaptive control optimisation, intelligent pre-heating and cooling, and managing energy planning.

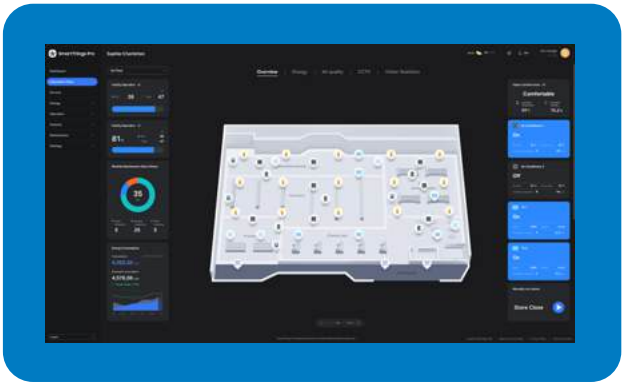




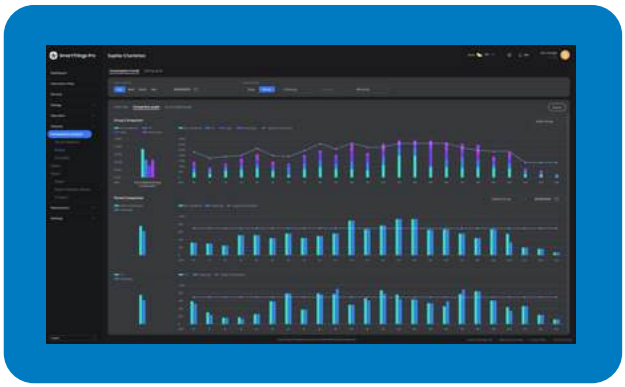

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Features explanation

Connected control with SmartThings (Pro) and b.IoT Lite



The DVM S2 R32 is SmartThings ready, with a factory-integrated Wi-Fi kit. This enables seamless management of indoor units directly through the intuitive SmartThings app[9]. This integrated feature eliminates the need for additional purchases, streamlining installation, and enhancing user experience.



In addition, when connecting the Samsung DVM S2 R32 with SmartThings Pro and b.IoT, users can expect improved system management and operational efficiency. The integration enables real-time monitoring and energy optimisation, helping to reduce costs and ensure consistent performance. With support for both cloud and non-cloud building management systems, the DVM S2 R32 offers flexibility for various environments. Its compatibility with these platforms simplifies automation and maintenance, making it a practical choice for managing HVAC systems in complex commercial buildings.



Active AI for controlled, stable performance

Active AI integrates multiple functions to support stable system operation. The system learns usage patterns and operating conditions to optimise heating and cooling performance. Features include AI Refrigerant Analysis, which uses deep learning to monitor system data and proactively alerts users in case of refrigerant leak detection, supporting system stability.

Another feature is AI High- and Low-Pressure Control, which adjusts operation based on learned patterns to maintain optimal performance under varying conditions. Additionally, Active AI Defrost analyses factors such as air resistance and operating cycles to perform defrosting more precisely, reducing unnecessary operation and increasing continuous heating time by up to 40%[5].



Built-in safety with installation requirements

The Samsung DVM S2 R32 incorporates safety measures in line with IEC 60335-2-40, including two required safety provisions within the system design. This reduces the need for additional measures during installation.

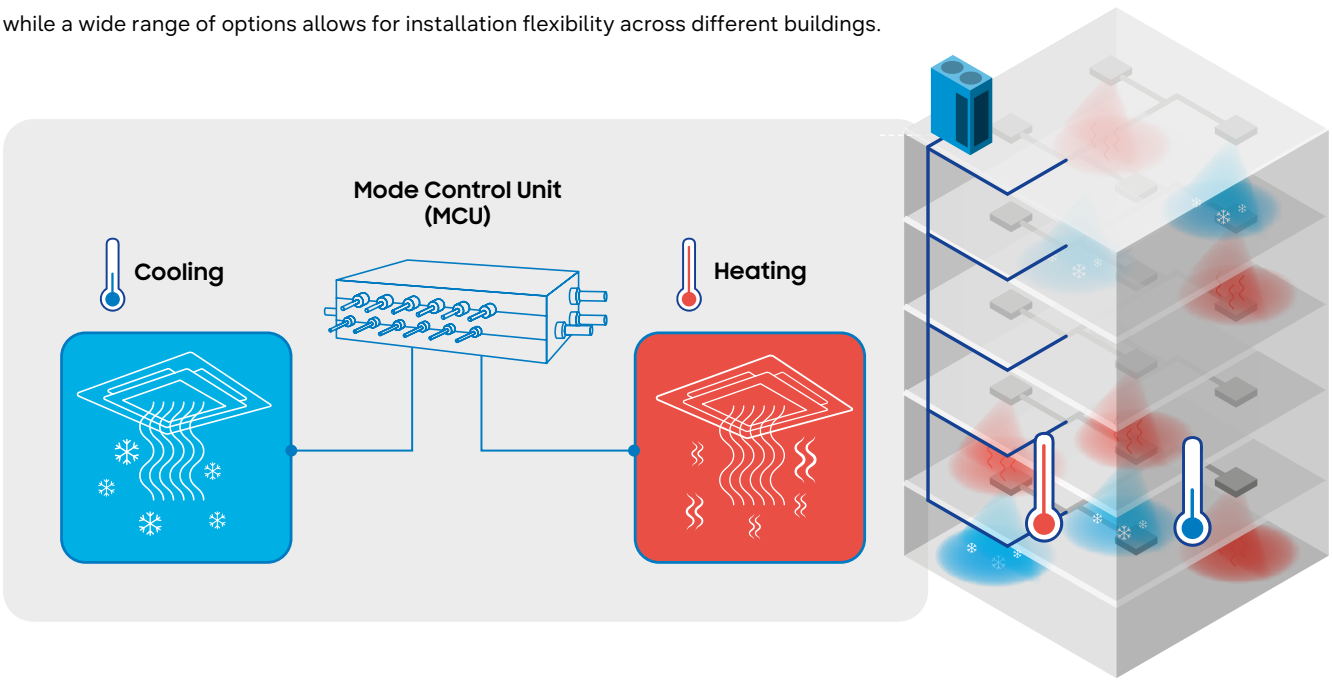
The DVM S2 R32 Heat Pump (HP) outdoor unit is designed for integration with newly designed shut-off valve boxes[6], and the DVM S2 R32 Heat Recovery (HR) outdoor unit connects to upgraded MCU boxes[6], ensuring fast installation. The universal indoor units feature built-in R32 refrigerant leak detection sensors.

The smart remote controller[7] includes both audible and visible alarm alerts to allow for a fast response to potential issues. This configuration reduces on-site calculation and measurement time, streamlining setup for installers and technicians.

Refined control with updated MCU design

The DVM S2 R32 HR outdoor unit features redesigned mandatory Model Control Unit (MCU) boxes equipped with electronic expansion valves (EEV) and additional sub-coolers. This supports precise refrigerant temperature control and contributes to quieter[8] operation.

The updated configuration enables improved system control across varying load conditions. Optional shut-off valve boxes reduce the minimum installation space needed while a wide range of options allows for installation flexibility across different buildings.



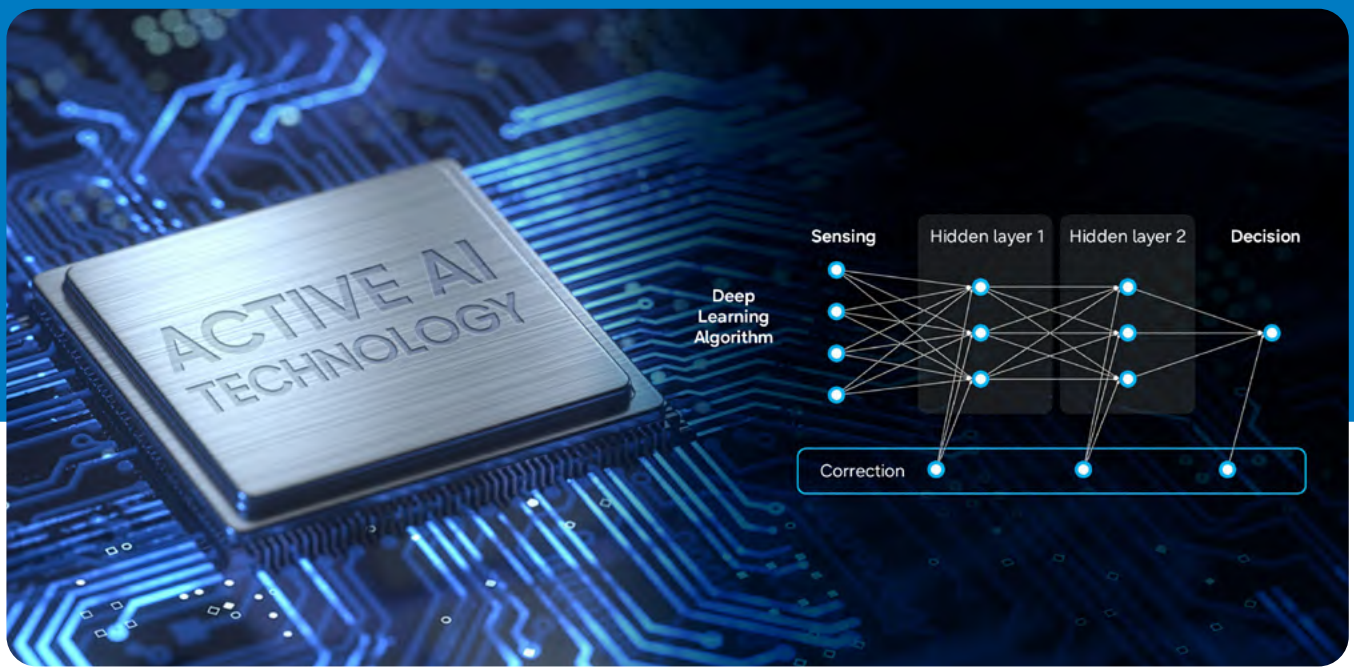
On device intelligence with the AI Booster Kit

With the optional AI Booster Kit[2], the DVM S2 R32 enables on-device AI processing directly on the outdoor unit, without relying on continuous cloud connectivity. This allows the system to analyse data locally and respond in real time to changing conditions.

The integrated AI core continuously learns from operating patterns and environmental conditions to support AI Adaptive Control, optimising heating and cooling performance and energy consumption, with potential energy savings of up to 25%[3].

With AI Pre-Conditioning, the system schedules operation in advance based on predicted demand, helping to reach the desired temperature at the required time without delay or premature activation[4].

Together, these functions support reliable operation, consistent comfort and optimal system control across a range of commercial applications.



[1] GWP R32: 675, GWP R410A: 2088
[2] New AI features can be activated only after the AI Booster Kit (MVR-A01E) has been installed on the outdoor unit. One kit is required for each system.
[3] Internal testing: DVM S2 ODU 8 ton + 4Way IDU(34 kBtu/h) + 1Way(7 kBtu/h. Outdoor air temp.: 29 ℃ , Room temp.: 29 ℃, Set temp.: 24 ℃. Cooling operation (8 hours). Results may vary depending on external conditions and use.
[4] Based on internal testing of the cooling operation, with the temperature set at 22°C and using Auto mode for 4 hours, at a room temperature of 33°C and an external temperature of 35°C. The tested model was an AM06EU0DXMDKG/EU connected to AM140DN4DKG/EU indoor unit with 25m of piping. The elapsed times were measured when the room temperature reached 25°C. Tested on the DVM S Mini R32 and the same functionality is included on the DVM S2 R32.
[5] Samsung internal test result. (Condition: Heating operation at -10□, RH 40%) Comparing Active AI Defrost versus traditional Defrost.
[6] Newly designed shut-off valve boxes and MCU boxes include built-in R32 refrigerant leak detection sensors, shut-off valves for each indoor unit and ventilation hole to create an added safety measure in case of a possible R32 leakage. Shut-off valve box and MCU boxes are available in configurations ranging from 1 to 12 ports and can be piped together. This allows for up to 64 indoor unit connections to a single DVM S2 system (where specifications allow.
[7] Only available for model code MWR-WG01*N
[8] For MCU-A6NEK1N: -4 dB(A) sound pressure level compared to MCU-S6NEK3N. Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure levels may differ depending on operating conditions. dBA = A-weighted sound pressure level.
[9] Samsung SmartThings application account and an internet connection are required. Requires iOS 10.0 or later & Android 5.0 or later.

Specifications 1/2

Heat Recovery System

Model Name			AM080HCVGNS/EU	AM100HCVGNS/EU	AM120HCVGNS/EU	AM140HCVGNS/EU
Power Supply		Φ, #, V, Hz	3,4,380~415,50	3,4,380~415,50	3,4,380~415,50	3,4,380~415,50
Performance						
HP		HP	8	10	12	14
Capacity	Rated Cooling / Heating	kW	22.40 / 22.40	28.00 / 28.00	33.60 / 33.60	40.00 / 40.00
	Heating (Max.)	kW	25.20	31.50	37.80	45.00
Maximum number of connectable indoor units		EA	14	18	21	26
Total capacity of the connected indoor units	Min. - Max.	kW	11.2 - 29.1	14.0 - 36.4	16.8 - 43.7	20.0 - 52.0
Power						
Current Input (Cooling / Heating)	Ducted	A	9.37 / 7.62	12.67 / 9.70	15.16 / 11.74	18.15 / 14.17
	Non-Ducted	A	9.35 / 7.85	12.28 / 10.42	16.71 / 12.72	18.37 / 13.98
MCA		A	18	21	25	27
MFA		A	25	32	32	32
Energy Efficiency [1]						
Ducted	SEER / SCOP	W/W	8.50 / 4.52	7.90 / 4.50	7.70 / 4.62	8.45 / 4.90
	ηs,c / ηs,h	W/W	337.00 / 177.80	313.00 / 177.00	305.00 / 181.80	335.00 / 193.00
Non-ducted	SEER / SCOP	%	8.81 / 4.85	8.17 / 4.65	7.65 / 4.60	8.65 / 5.08
	ηs,c / ηs,h	%	349.40 / 191.00	323.80 / 183.00	303.00 / 181.00	343.00 / 200.20
Heat exchanger						
Type			Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
Material	Fin / Tube		Al / Cu	Al / Cu	Al / Cu	Al / Cu
Fin Treatment			Anti-corrosion	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor						
Type		-	Inverter Scroll	Inverter Scroll	Inverter Scroll	Inverter Scroll
Output		kW x n	4.95 x 1	7.17 x 1	7.17 x 1	7.17 x 1
Fan						
Discharge direction		-	Top	Top	Top	Top
Quantity		-	1.0	1.0	1.0	2.0
Air Flow Rate		CMM	164.0	181.0	196.0	291.0
		l/s	2,733	3,017	3,267	4,850
External Static Pressure		Pa	110.0	110.0	110.0	110.0
Fan Motor						
Type		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
Output x n		W x n	630 x 1	630 x 1	630 x 1	620 x 1
Piping Connections						
Liquid Pipe		Φ, mm - inch	9.52 - 3/8	9.52 - 3/8	12.70 - 1/2	12.70 - 1/2
Gas Pipe		Φ, mm - inch	19.05 - 3/4	22.22 - 7/8	22.22 - 7/8	22.22 - 7/8
High pressure Gas pipe		Φ, mm - inch	15.88 - 5/8	19.05 - 3/4	19.05 - 3/4	19.05 - 3/4
Piping length (ODU-IDU)[3]	Max. [Equiv.]	m	200[220]	200[220]	200[220]	200[220]
Piping length (1st Branch-IDU)[3]	Max.	m	90	90	90	90
Total piping length (System)	Max.	m	1000	1000	1000	1000
Level difference (ODU in highest position)[3]	Max.	m	110	110	110	110
Level difference (IDU in highest position)[3]	Max.	m	110	110	110	110
Level difference (IDU-IDU)[3]	Max.	m	50	50	50	50
Field Wiring						
Transmission	Min.	mm^2	0.75	0.75	0.75	0.75
Cable	Remark	-	F1, F2	F1, F2	F1, F2	F1, F2
Power supply intake		-	Both IDU&ODU	Both IDU&ODU	Both IDU&ODU	Both IDU&ODU
Refrigerant						
Type (GWP)		-	R-32 (675)	R-32 (675)	R-32 (675)	R-32 (675)
Factory Charging		kg (tCO2e)	9.3 (6.28)	9.3 (6.28)	9.3 (6.28)	10.2 (6.89)
Sound Level [2]						
Sound Pressure Level	Cooling / Heating	dB(A)	53 / 56	58 / 60	75 / 78	58 / 61
Sound Power Level	Cooling	dB(A)	61.0	63.0	81.0	81.0
External Dimension						
Net Weight		kg	207.0	220.0	220.0	250.0
Net Dimensions (WxHxD)		mm	930 x 1695 x 765	930 x 1695 x 765	930 x 1695 x 765	1295 x 1695 x 765
Operating temperature range						
Cooling		°C	-5 ~ 52	-5 ~ 52	-5 ~ 52	-5 ~ 52
Heeting		°C	-30 ~ 24	-30 ~ 24	-30 ~ 24	-30 ~ 24
Recommended combinations						
Ducted			AM056DNMFKG/EU × 4	AM071DNMFKG/EU × 4	AM056DNMFKG/EU × 6	AM071DNMFKG/EU × 5 + AM056DNMFKG/EU × 1
Non-ducted			AM056DN4FKG/EU × 4	AM071DN4FKG/EU × 4	AM056DN4FKG/EU × 6	AM071DN4FKG/EU × 5 + AM056DN4FKG/EU × 1

[1] Performances are based on the following test conditions:
- Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Outdoor temperature: 35 °C DB, 24 °C WB
- Heating: Indoor temperature: 20 °C DB, 15 °C WB, Outdoor temperature: 7 °C DB, 6 °C WB
- Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

[2] Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a sound source generates.

[3] ODU: Outdoor Unit, IDU: Indoor Unit

- Erp (Ecodesign) compliant and Eurovent certified
- Safety devices integrated (standard IEC 60335-2-40):
  - Shut-off valve and battery pack (MCU)
  - R32 refrigerant leak detector sensor (indoor unit & MCU)
  - Audible & visible alarm system (wired control)
- Advanced Flash Injection™ technology
- Active AI Pressure Control
- Active AI Defrost
- Active AI Refrigerant analysis
- AI booster kit availability for more AI options.
- Durafin™ Ultra Heat Exchanger Fin
- Optional Slimmer Liquid Pipe
- On-device Inverter Checker™

EUROVENT CERTIFIED PERFORMANCE

Model Name			AM160HCVGNS/EU	AM180HCVGNS/EU	AM200HCVGNS/EU
Power Supply		**Φ, #, V, Hz**	3,4,380~415,50	3,4,380~415,50	3,4,380~415,50
Performance					
HP		**HP**	16	18	20
Capacity	**Rated Cooling / Heating**	**kW**	45.00 / 45.00	50.40 / 50.40	56.00 / 56.00
	Heating (Max.)	**kW**	50.40	56.70	63.00
Maximum number of connectable indoor units		**EA**	29	32	36
Total capacity of the connected indoor units	**Min. - Max.**	**kW**	22.5 - 58.5	25.2 - 65.5	28.0 - 72.8
Power					
Current Input (Cooling / Heating)	**Ducted**	**A**	18.98 / 15.55	22.22 / 17.78	26.42 / 20.64
	Non-Ducted	**A**	19.45 / 15.42	22.16 / 17.04	26.91 / 19.36
MCA		**A**	32	39	43
MFA		**A**	40	50	63
Energy Efficiency [1]					
Ducted	**SEER / SCOP**	**W/W**	8.45 / 5.20	8.35 / 4.83	8.20 / 4.80
	ηs,c / ηs,h	**W/W**	335.00 / 205.00	331.00 / 190.20	325.00 / 189.00
Non-ducted	**SEER / SCOP**	**%**	8.93 / 5.07	8.67 / 5.10	8.30 / 5.05
	ηs,c / ηs,h	**%**	354.20 / 199.80	343.80 / 201.00	329.00 / 199.00
Heat exchanger					
Type			Fin & Tube	Fin & Tube	Fin & Tube
Material	**Fin / Tube**		Al / Cu	Al / Cu	Al / Cu
Fin Treatment			Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor					
Type		**-**	Inverter Scroll	Inverter Scroll	Inverter Scroll
Output		**kW x n**	4.95 x 2	4.95 x 2	4.95 x 2
Fan					
Discharge direction		**-**	Top	Top	Top
Quantity		**-**	2.0	2.0	2.0
Air Flow Rate		**CMM**	292.0	313.0	313.0
		l/s	4,867	5,217	5,217
External Static Pressure		**Pa**	110.0	110.0	110.0
Fan Motor					
Type		**-**	BLDC Motor	BLDC Motor	BLDC Motor
Output x n		**W x n**	620 x 2	620 x 2	620 x 2
Piping Connections					
Liquid Pipe		**Φ, mm - inch**	12.70 - 1/2	12.70 - 1/2	12.70 - 1/2
Gas Pipe		**Φ, mm - inch**	28.58 - 1 1/8	28.58 - 1 1/8	28.58 - 1 1/8
High pressure Gas pipe		**Φ, mm - inch**	22.22 - 7/8	22.22 - 7/8	22.22 - 7/8
Piping length (ODU-IDU)[3]	**Max. [Equiv.]**	**m**	200[220]	200[220]	200[220]
Piping length (1st Branch-IDU)[3]	**Max.**	**m**	90	90	90
Total piping length (System)	**Max.**	**m**	1000	1000	1000
Level difference (ODU in highest position)[3]	**Max.**	**m**	110	110	110
Level difference (IDU in highest position)[3]	**Max.**	**m**	110	110	110
Level difference (IDU-IDU)[3]	**Max.**	**m**	50	50	50
Field Wiring					
Transmission	**Min.**	**mm²**	0.75	0.75	0.75
Cable	**Remark**	**-**	F1, F2	F1, F2	F1, F2
Power supply intake		**-**	Both IDU&ODU	Both IDU&ODU	Both IDU&ODU
Refrigerant					
Type (GWP)		**-**	R-32 (675)	R-32 (675)	R-32 (675)
Factory Charging		**kg (tCO2e)**	12.5 (8.44)	12.5 (8.44)	12.5 (8.44)
Sound Level [2]					
Sound Pressure Level	**Cooling / Heating**	**dB(A)**	58 / 61	59 / 63	61 / 63
Sound Power Level	**Cooling**	**dB(A)**	81.0	81.0	84.0
External Dimension					
Net Weight		**kg**	298.0	298.0	298.0
Net Dimensions (WxHxD)		**mm**	1295 x 1695 x 765	1295 x 1695 x 765	1295 x 1695 x 765
Operating temperature range					
Cooling		**°C**	-5 ~ 52	-5 ~ 52	-5 ~ 52
Heeting		**°C**	-30 ~ 24	-30 ~ 24	-30 ~ 24
Recommended combinations					
Ducted			AM071DNMFKG/EU × 6	AM071DNMFKG/EU × 4 + AM056DNMFKG/EU × 4	AM071DNMFKG/EU × 8
Non-ducted			AM071DN4FKG/EU × 6	AM071DN4FKG/EU × 4 + AM056DN4FKG/EU × 4	AM071DN4FKG/EU × 8

Specifications 1/2

Heat Pump System

Model Name			AM080HCVGNS/EU	AM100HCVGNS/EU	AM120HCVGNS/EU	AM140HCVGNS/EU
Power Supply		Φ, #, V, Hz	3,4,380~415,50	3,4,380~415,50	3,4,380~415,50	3,4,380~415,50
Performance						
HP		HP	8	10	12	14
Capacity	Rated Cooling / Heating	kW	22.40 / 22.40	28.00 / 28.00	33.60 / 33.60	40.00 / 40.00
	Heating (Max.)	kW	25.20	31.50	37.80	45.00
Maximum number of connectable indoor units		EA	14	18	21	26
Total capacity of the connected indoor units	Min. - Max.	kW	11.2 - 29.1	14.0 - 36.4	16.8 - 43.7	20.0 - 52.0
Power						
Current Input (Cooling / Heating)	Ducted	A	10.53 / 7.71	13.80 / 9.85	15.66 / 12.10	19.10 / 14.75
	Non-Ducted	A	10.73 / 8.26	13.50 / 10.65	17.21 / 13.10	20.76 / 14.27
MCA		A	18	23	25	29
MFA		A	25.0	32.0	32.0	32.0
Energy Efficiency [1]						
Ducted	SEER / SCOP	W/W	8.08 / 4.35	7.60 / 4.30	7.40 / 4.40	7.90 / 4.60
	ηs,c / ηs,h	W/W	320.20 / 171.00	301.00 / 169.00	293.00 / 173.00	313.00 / 181.00
Non-ducted	SEER / SCOP	%	7.90 / 4.61	7.70 / 4.42	7.60 / 4.37	7.70 / 4.40
	ηs,c / ηs,h	%	313.00 / 181.30	305.00 / 173.70	301.00 / 171.80	305.00 / 173.00
Heat exchanger						
Type			Fin & Tube	Fin & Tube	Fin & Tube	Fin & Tube
Material	Fin / Tube		Al / Cu	Al / Cu	Al / Cu	Al / Cu
Fin Treatment			Anti-corrosion	Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor						
Type		-	Inverter Scroll	Inverter Scroll	Inverter Scroll	Inverter Scroll
Output		kW x n	4.95 x 1	7.17 x 1	7.17 x 1	7.17 x 1
Fan						
Discharge direction		-	Top	Top	Top	Top
Quantity		-	1.0	1.0	1.0	1.0
Air Flow Rate		CMM	151.0	167.0	196.0	210.0
		l/s	2,517	2,783	3,267	3,500
External Static Pressure		Pa	110.0	110.0	110.0	110.0
Fan Motor						
Type		-	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
Output x n		W x n	630 x 1	630 x 1	630 x 1	630 x 1
Piping Connections						
Liquid Pipe		Φ, mm - inch	9.52 - 3/8	9.52 - 3/8	12.70 - 1/2	12.70 - 1/2
Gas Pipe		Φ, mm - inch	19.05 - 3/4	22.22 - 7/8	22.22 - 7/8	22.22 - 7/8
Piping length (ODU-IDU)[3]	Max. [Equiv.]	m	200[220]	200[220]	200[220]	200[220]
Piping length (1st Branch-IDU)[3]	Max.	m	90	90	90	90
Total piping length (System)	Max.	m	1000	1000	1000	1000
Level difference (ODU in highest position)[3]	Max.	m	110	110	110	110
Level difference (IDU in highest position)[3]	Max.	m	110	110	110	110
Level difference (IDU-IDU)[3]	Max.	m	50	50	50	50
Field Wiring						
Transmission	Min.	mm²	0.75	0.75	0.75	0.75
Cable	Remark	-	F1, F2	F1, F2	F1, F2	F1, F2
Power supply intake		-	Both IDU&ODU	Both IDU&ODU	Both IDU&ODU	Both IDU&ODU
Refrigerant						
Type (GWP)		-	R-32 (675)	R-32 (675)	R-32 (675)	R-32 (675)
Factory Charging		kg (tCO2e)	7.0 (4.73)	7.0 (4.73)	9.3 (6.28)	9.3 (6.28)
Sound Level [2]						
Sound Pressure Level	Cooling / Heating	dB(A)	53 / 58	56 / 60	61 / 63	63 / 65
Sound Power Level	Cooling	dB(A)	75.0	78.0	81.0	85.0
External Dimension						
Net Weight		kg	183.0	193.0	214.0	214.0
Net Dimensions (WxHxD)		mm	930 x 1695 x 765	930 x 1695 x 765	930 x 1695 x 765	930 x 1695 x 765
Operating temperature range						
Cooling		°C	-5 ~ 52	-5 ~ 52	-5 ~ 52	-5 ~ 52
Heeting		°C	-30 ~ 24	-30 ~ 24	-30 ~ 24	-30 ~ 24
Recommended combinations						
Ducted			AM056DNMFKG/EU × 4	AM071DNMFKG/EU × 4	AM056DNMFKG/EU × 6	AM071DNMFKG/EU × 5 + AM056DNMFKG/EU × 1
Non-ducted			AM056DN4FKG/EU × 4	AM071DN4FKG/EU × 4	AM056DN4FKG/EU × 6	AM071DN4FKG/EU × 5 + AM056DN4FKG/EU × 1

[1] Performances are based on the following test conditions:
- Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Outdoor temperature: 35 °C DB, 24 °C WB
- Heating: Indoor temperature: 20 °C DB, 15 °C WB, Outdoor temperature: 7 °C DB, 6 °C WB
- Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

[2] Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a sound source generates.

[3] ODU: Outdoor Unit, IDU: Indoor Unit

- Erp (Ecodesign) compliant and Eurovent certified
- Safety devices integrated (standard IEC 60335-2-40):
  - Shut-off valve and battery pack (SVB)
  - R32 refrigerant leak detector sensor (indoor unit & shut off valves boxe)
  - Audible & visible alarm system (wired control)
- Advanced Flash Injection™ technology
- Active AI Pressure Control
- Active AI Defrost
- Active AI Refrigerant analysis
- AI booster kit availability for more AI options.
- Durafin™ Ultra Heat Exchanger Fin
- Optional Slimmer Liquid Pipe
- On-device Inverter Checker™

EUROVENT CERTIFIED PERFORMANCE

Model Name			AM160HCVGNS/EU	AM180HCVGNS/EU	AM200HCVGNS/EU
Power Supply		Φ, #, V, Hz	3,4,380~415,50	3,4,380~415,50	3,4,380~415,50
Performance					
HP		HP	16	18	20
Capacity	Rated Cooling / Heating	kW	45.00 / 45.00	50.40 / 50.40	56.00 / 56.00
	Heating (Max.)	kW	50.40	56.70	63.00
Maximum number of connectable indoor units		EA	29	32	36
Total capacity of the connected indoor units	Min. - Max.	kW	22.5 - 58.5	25.2 - 65.5	28.0 - 72.8
Power					
Current Input (Cooling / Heating)	Ducted	A	23.59 / 16.91	25.15 / 19.51	26.42 / 20.64
	Non-Ducted	A	24.68 / 16.39	24.68 / 17.70	26.91 / 19.36
MCA		A	32	39	43
MFA		A	40.0	50.0	63.0
Energy Efficiency [1]					
Ducted	SEER / SCOP	W/W	8.03 / 4.71	7.73 / 4.43	8.20 / 4.80
	ηs,c / ηs,h	W/W	318.20 / 185.40	306.20 / 174.20	325.00 / 189.00
Non-ducted	SEER / SCOP	%	8.45 / 4.90	7.90 / 4.70	8.30 / 5.05
	ηs,c / ηs,h	%	335.00 / 193.00	313.00 / 185.00	329.00 / 199.00
Heat exchanger					
Type			Fin & Tube	Fin & Tube	Fin & Tube
Material	Fin / Tube		Al / Cu	Al / Cu	Al / Cu
Fin Treatment			Anti-corrosion	Anti-corrosion	Anti-corrosion
Compressor					
Type		-	Inverter Scroll	Inverter Scroll	Inverter Scroll
Output		kW x n	4.95 x 2	4.95 x 2	4.95 x 2
Fan					
Discharge direction		-	Top	Top	Top
Quantity		-	2.0	2.0	2.0
Air Flow Rate		CMM	303.0		
		l/s	5,050		
External Static Pressure		Pa	110.0	110.0	110.0
Fan Motor					
Type		-	BLDC Motor	BLDC Motor	BLDC Motor
Output x n		W x n	620 x 2	620 x 2	620 x 2
Piping Connections					
Liquid Pipe		Φ, mm - inch	12.70 - 1/2	12.70 - 1/2	12.70 - 1/2
Gas Pipe		Φ, mm - inch	28.58 - 1 1/8	28.58 - 1 1/8	28.58 - 1 1/8
Piping length (ODU-IDU)[3]	Max. [Equiv.]	m	200[220]	200[220]	200[220]
Piping length (1st Branch-IDU)[3]	Max.	m	90	90	90
Total piping length (System)	Max.	m	1000	1000	1000
Level difference (ODU in highest position)[3]	Max.	m	110	110	110
Level difference (IDU in highest position)[3]	Max.	m	110	110	110
Level difference (IDU-IDU)[3]	Max.	m	50	50	50
Field Wiring					
Transmission	Min.	mm²	0.75	0.75	0.75
Cable	Remark	-	F1, F2	F1, F2	F1, F2
Power supply intake		-	Both IDU&ODU	Both IDU&ODU	Both IDU&ODU
Refrigerant					
Type (GWP)		-	R-32 (675)	R-32 (675)	R-32 (675)
Factory Charging		kg (tCO2e)	10.2 (6.89)	10.2 (6.89)	12.5 (8.44)
Sound Level [2]					
Sound Pressure Level	Cooling / Heating	dB(A)	60 / 62	61 / 64	61 / 63
Sound Power Level	Cooling	dB(A)	81.0	83.0	84.0
External Dimension					
Net Weight		kg	271.0	271.0	293.0
Net Dimensions (WxHxD)		mm	1295 x 1695 x 765	1295 x 1695 x 765	1295 x 1695 x 765
Operating temperature range					
Cooling		°C	-5 ~ 52	-5 ~ 52	-5 ~ 52
Heeting		°C	-30 ~ 24	-30 ~ 24	-30 ~ 24
Recommended combinations					
Ducted			AM071DNMFKG/EU × 6	AM071DNMFKG/EU × 4 + AM056DNMFKG/EU × 4	AM071DNMFKG/EU × 8
Non-ducted			AM071DN4FKG/EU × 6	AM071DN4FKG/EU × 4 + AM056DN4FKG/EU × 4	AM071DN4FKG/EU × 8

Specifications 2/2

Heat Recovery System

System Model			AM080HCVGNS/EU	AM120HCVGNS/EU	AM140HCVGNS/EU	AM160HCVGNS/EU	AM180HCVGNS/EU	AM200HCVGNS/EU
Capacity (HP)	Model Code	Number of Individual outdoor	8	12	14	16	18	20
8	AM080HCVGNS/EU	1	1					
10	AM100HCVGNS/EU	1						
12	AM120HCVGNS/EU	1		1				
14	AM140HCVGNS/EU	1			1			
16	AM160HCVGNS/EU	1				1		
18	AM180HCVGNS/EU	1					1	
20	AM200HCVGNS/EU	1						1
22	AM220HCVGNS/EU	2	1		1			
24	AM240HCVGNS/EU	2	1			1		
26	AM260HCVGNS/EU	2	1				1	
28	AM280HCVGNS/EU	2			2			
30	AM300HCVGNS/EU	2			1	1		
32	AM320HCVGNS/EU	2			1		1	
34	AM340HCVGNS/EU	2			1			1
36	AM360HCVGNS/EU	2					2	
38	AM380HCVGNS/EU	2					1	1
40	AM400HCVGNS/EU	2						2
42	AM420HCVGNS/EU	3			3			
44	AM440HCVGNS/EU	3	1				2	
46	AM460HCVGNS/EU	3			2		1	
48	AM480HCVGNS/EU	3			2			1
50	AM500HCVGNS/EU	3			1		2	
52	AM520HCVGNS/EU	3				1	2	
54	AM540HCVGNS/EU	3					3	
56	AM560HCVGNS/EU	3					2	1
58	AM580HCVGNS/EU	3					1	2
60	AM600HCVGNS/EU	3						3

Heat Pump System

System Model			AM080HCVANG/EU	AM120HCVANG/EU	AM140HCVANG/EU	AM160HCVANG/EU	AM180HCVANG/EU	AM200HCVANG/EU
Capacity (HP)	Model Code	Number of Individual outdoor	8	12	14	16	18	20
8	AM080HCVANG/EU	1	1					
10	AM100HCVANG/EU	1						
12	AM120HCVANG/EU	1		1				
14	AM140HCVANG/EU	1			1			
16	AM160HCVANG/EU	1				1		
18	AM180HCVANG/EU	1					1	
20	AM200HCVANG/EU	1						1
22	AM220HCVANG/EU	2		1				
24	AM240HCVANG/EU	2			1			
26	AM260HCVANG/EU	2	1				1	
28	AM280HCVANG/EU	2					1	
30	AM300HCVANG/EU	2		1			1	
32	AM320HCVANG/EU	2			1		1	
34	AM340HCVANG/EU	2				1	1	
36	AM360HCVANG/EU	2					2	
38	AM380HCVANG/EU	2					1	1
40	AM400HCVANG/EU	2						2
42	AM420HCVANG/EU	3		2			1	
44	AM440HCVANG/EU	3	1				2	
46	AM460HCVANG/EU	3					2	
48	AM480HCVANG/EU	3		1			2	
50	AM500HCVANG/EU	3			1		2	
52	AM520HCVANG/EU	3				1	2	
54	AM540HCVANG/EU	3					3	
56	AM560HCVANG/EU	3					2	1
58	AM580HCVANG/EU	3					1	2
60	AM600HCVANG/EU	3						3

Line up

Line-up Controller Universal

Model		Language Packs
Wired Remote Controller*		
MWR-WG01JN		EN/FR/ES/PT/DE/NL
MWR-WG01KN		EN/IT/EL/CS/SK/PL
(Hydro) MWR-WW11N		EN/IT/ES/FR/PL/DE
(Hydro) MWR-WW11JN		EN/PT/NL/EL/CS/SK
(Hydro) MWR-WW11KN		EN/FI/SV/NO/DA/LT
SolarCell Wireless Remote Controller		
AR-CH01E		EN
Touch Centralized Controller 2.0		
MCM-A300BN		DE/GR/EN/ES/FR/IT/HU/NL/PT/PL/SK

*It is mandatory that every unit has a wired remote control.

Line-up Panels Universal SmartThings

360 Cassette Front Panel



White Square
PC6NUSMANW



Black Square
PC6NBSMANW



White Circle Exposed Installation
PC6EUSMANW
Air Purification
PC6EUCMANW
Auto Elevation
PC6EUXMANW



Black Circle Exposed Installation
C6EBSMANW

WindFree™ 4Way Cassette Front Panel



600x600 Mini White
PC4SUFMANW



900x900 White
PC4NUFMANW
Air Purification
PC4NUCMANW
Auto Elevation
PC4NUXMANW



900x900 Black
PC4NBFMANW

WindFree™ 1Way Cassette Front Panel



1.7~2.2kW
PC1MWFMANW
Air Purification
PC1MWCMANW



2.8~3.6kW
PC1NWFMANW
Air Purification
PC1NWCMANW



5.6~7.1kW
PC1BWFMANW
Air Purification
PC1BWCMANW

Line up

Line-up Indoor Universal

Type	Model	Capacity (kW)											
		1.5	1.7	2.2	2.8	3.6	4.5	5.6	6.0	7.1	8.0	8.2	9.0
Cassette	WindFree™ 1-Way Cassette AM***DN1DKG/EU		•	•	•	•		•		•			
	WindFree™ Mini 4-Way Cassette AM***DNNDKG/EU	•		•	•	•	•	•	•				
	WindFree™ 4-Way Cassette AM***DN4DKG/EU				•	•	•	•		•			•
	Sensible WindFree™ 4-Way Cassette AM***DN4FKG/EU - AM***HE4FKG/EU			•	•	•	•	•		•			•
	360 Cassette AM***DN6DKG/EU						•	•		•			•
Ducted	LSP Duct (drain pump included) AM***DNLDKG/EU		•	•	•	•	•	•		•			
	LSP Duct (drain pump excluded) AM***HELDKG/EU		•	•	•	•	•	•		•			
	MSP Duct (drain pump included) AM***DNMDKG/EU			•	•	•	•	•		•			•
	Sensible MSP Duct (drain pump included) AM***DNMFKG/EU - AM***HEMFKG/EU			•	•	•	•	•		•			•
	HSP Duct (including drain pump) AM***DNHDKG/EU												•
	HSP Duct (excluding drain pump) AM***HEHDKG/EU												
Fresh air and conditioned air	OAP AM***HEEDKG/EU												
	AHU kit MXD-K***AN1									•			
Ceiling	Floor/Ceiling AM***DNCDKG/EU							•					
	Big Ceiling AM***DNCDKG/EU									•			
Floor	Packaged Floor-Standing AM***HEPDKG/EU												
	Console AM***HEJDKG/EU			•	•	•	•	•					
	Concealed floor standing AM***HEFDKG/EU			•	•	•		•		•			
Wall mounted	WindFree™ Deluxe (EEV included) AM***DNVDKG/EU	•		•	•	•	•	•		•		•	
	Max Wall-Mounted AM***DNQDKG/EU												•
Hydro Units	Hydro LT AM***HEBDKG/EU												
	Hydro HT AM***HEBFNJ/EU - AM***HEBFKJ/EU												
	ClimateFit AM***HEYDKG/EU										•		
	ClimateHub AM***HEXDKG/EU										•		

Type	Model		Capacity (kW)											
			11.2	12.8	14.0	16.0	18.0	21.0	22.4	25.0	28.0	32.0	50.0	56.0
Cassette	WindFree™ 1-Way Cassette AM***DN1DKG/EU													
	WindFree™ Mini 4-Way Cassette AM***DNNDKG/EU													
	WindFree™ 4-Way Cassette AM***DN4DKG/EU		•	•	•									
	Sensible WindFree™ 4-Way Cassette AM***DN4FKG/EU - AM***HE4FKG/EU		•	•	•									
	360 Cassette AM***DN6DKG/EU		•	•	•									
Ducted	LSP Duct (drain pump included) AM***DNLDKG/EU													
	LSP Duct (drain pump excluded) AM***HELDKG/EU													
	MSP Duct (drain pump included) AM***DNMDKG/EU		•	•	•	•								
	Sensible MSP Duct (drain pump included) AM***DNMFKG/EU - AM***HEMFKG/EU		•	•	•									
	HSP Duct (including drain pump) AM***DNHDKG/EU		•	•	•									
	HSP Duct (excluding drain pump) AM***HEHDKG/EU						•		•		•			
Fresh air and conditioned air	OAP AM***HEEDKG/EU				•				•		•			
	AHU kit MXD-K***AN1				•			•			•			•
Ceiling	Floor/Ceiling AM***DNCDKG/EU													
	Big Ceiling AM***DNCDKG/EU		•		•									
Floor	Packaged Floor-Standing AM***HEPDKG/EU				•						•			
	Console AM***HEJDKG/EU													
	Concealed floor standing AM***HEFDKG/EU													
Wall mounted	WindFree™ Deluxe (EEV included) AM***DNVDKG/EU													
	Max Wall-Mounted AM***DNQDKG/EU													
Hydro Units	Hydro LT AM***HEBDKG/EU						•					•	•	
	Hydro HT AM***HEBFNJ/EU - AM***HEBFKJ/EU					•				•				
	ClimateFit AM***HEYDKG/EU					•								
	ClimateHub AM***HEXDKG/EU					•								

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