SAMSUNG



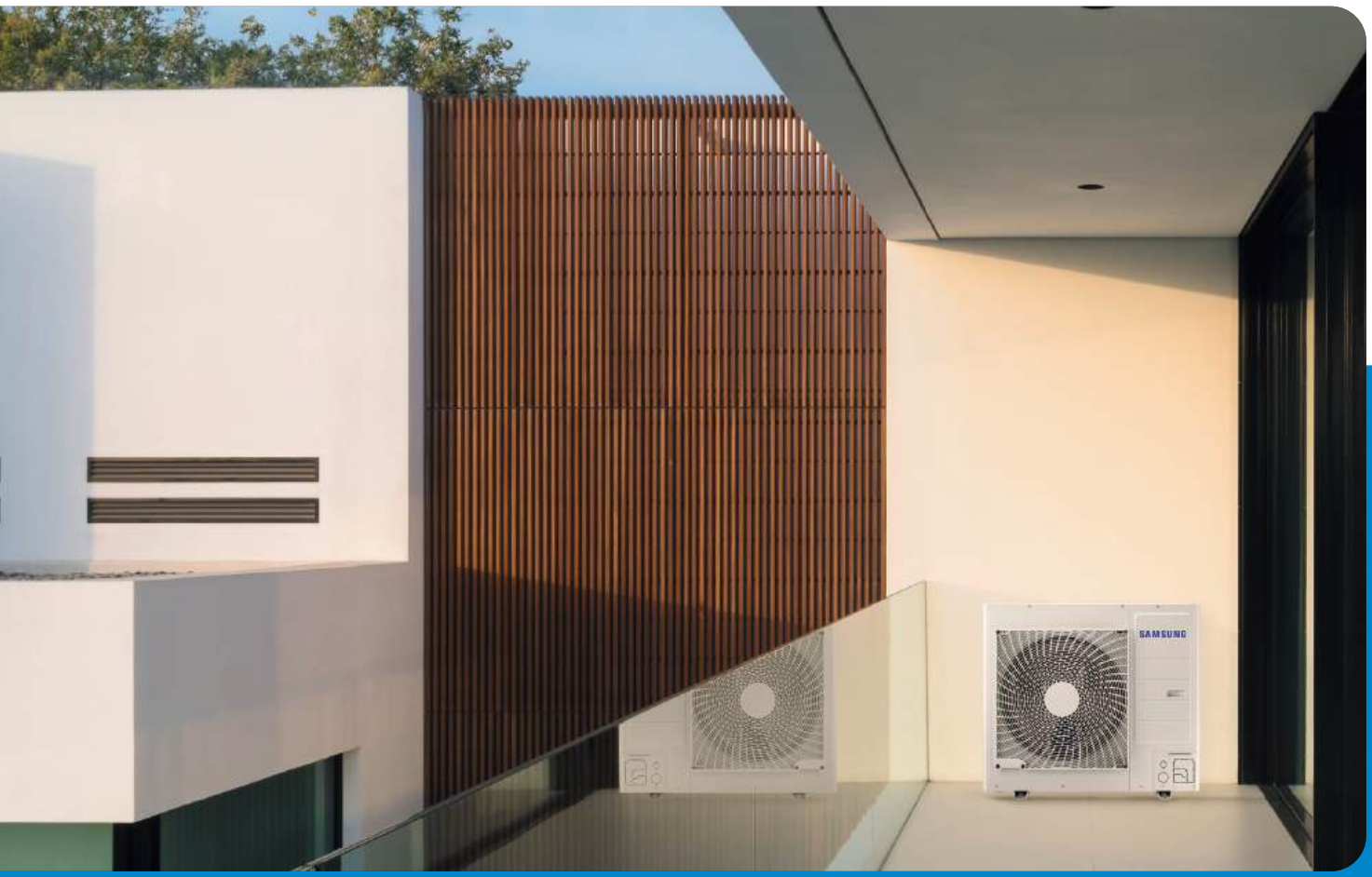
DVM S Mini R32 Series

Flexible comfort for cooling and heating

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DVM S Mini R32 Series

The DVM S Mini R321 series is designed to bring flexible comfort to residential and light commercial spaces. Available in both Heat Pump and Heat Recovery models, the system gives users more control over how different spaces are heated and cooled throughout the year.



Unlike a conventional heat pump that can only heat or cool at one time, the Heat Recovery model can do both simultaneously. For example, while one room is being cooled, the heat removed from that space can be reused to warm another area or help produce domestic hot water (DHW) instead of being wasted outdoors. The result is a smarter way to stay comfortable.

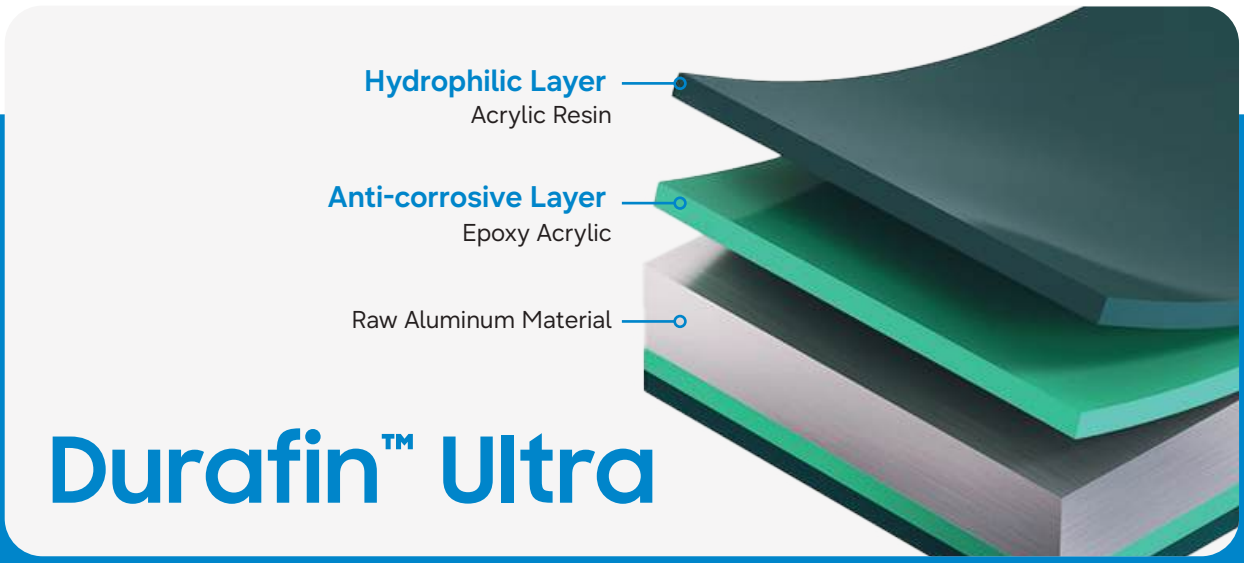
Built for reliable performance in demanding conditions, the system operates in cooling mode from -5°C to 48°C and heating mode from -25°C to 26°C[2].

Meeting Safety Requirements

The series includes integrated safety features designed to support compliance with IEC 60335-2-40 requirements while maintaining installation flexibility.

The Heat Pump outdoor unit includes a shut-off valve and battery pack, while in the Heat Recovery model, the shut-off valve is integrated into the HR changer. Connected indoor units feature a built-in R32 refrigerant leak detection sensor, and the remote controller[3] provides both audible and visible alerts in the event of an R32 refrigerant leak.





Durafin™ Ultra

Durafin™ Ultra Technology

The Durafin™ Ultra[4] technology shields the heat exchanger with a dual-layer defence: an epoxy acrylic anti-corrosive layer coupled with a hydrophilic acrylic resin layer. This repels water and prevents corrosion from forming on the heat exchanger, to maintain optimal performance and efficiency.

Silent Mode

Combined with specially shaped fans and compact, unimposing design it creates a more pleasant residential and working environment. The Silent Mode function[5] creates a restful environment with a reduced noise level.

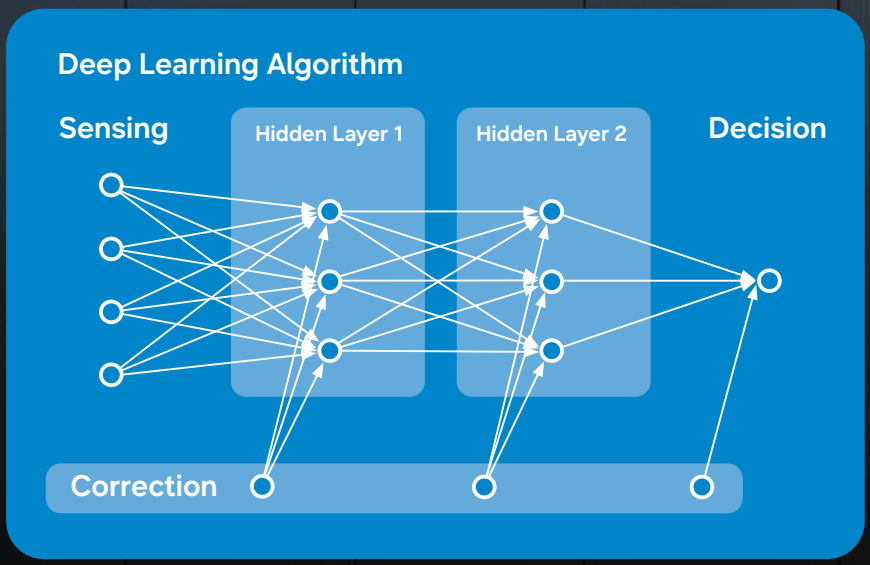
Active AI

The DVM S Mini R32 series is equipped with multiple Active AI features designed to enhance efficiency and user comfort:

AI Refrigerant Analysis uses Deep Learning technology to collect and analyse various operational data in real time, proactively alerting users if the refrigerant level is too low, ensuring optimal performance.

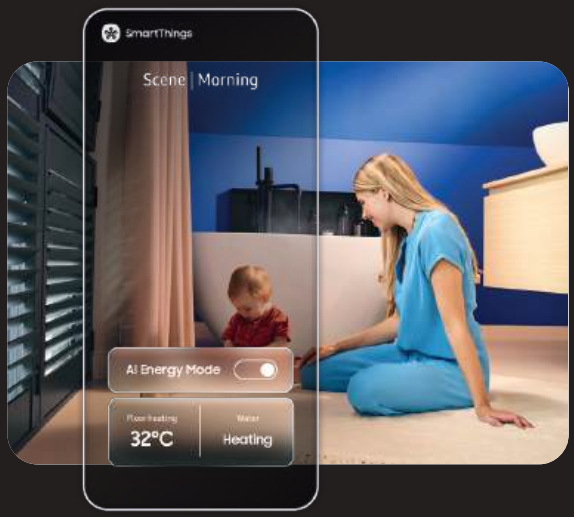
Active AI High Pressure Control adjusts high pressure based on piping length and elevation differences, using an AI learning algorithm to reduce unnecessary high pressure, thereby improving power consumption and efficiency.

Active AI Low Pressure Control[6] learns cooling operation patterns to quickly reach the target low pressure, saving energy by preventing over-cooling and enhancing comfort by speeding up the cooling process.

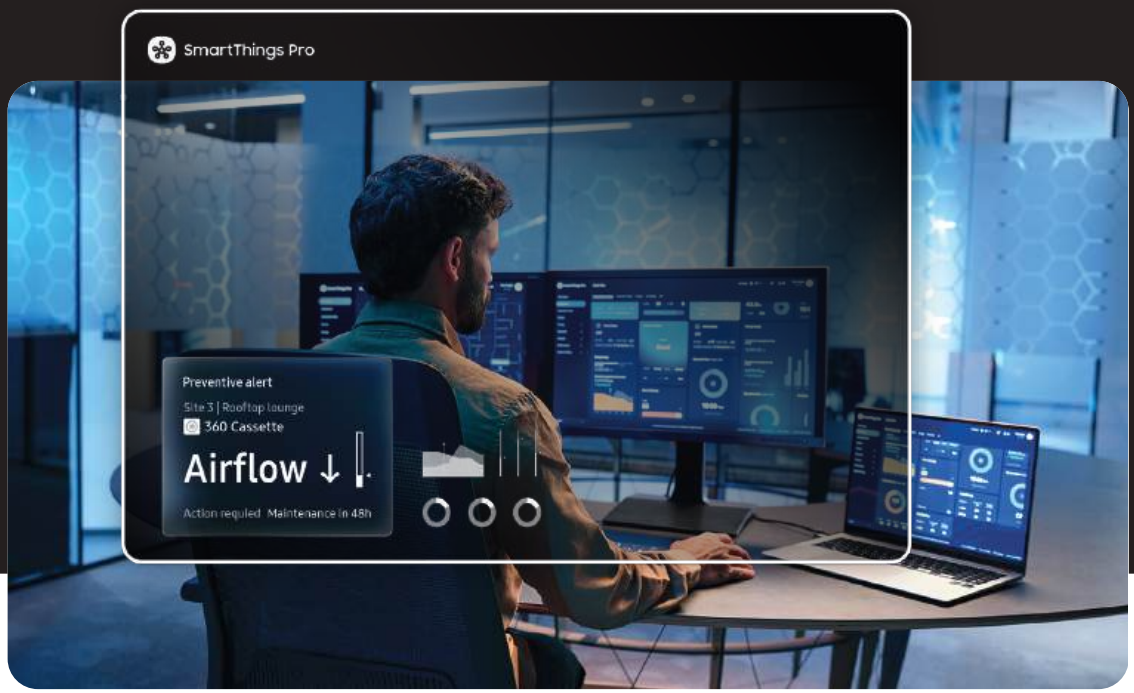


Smart Control

The DVM S Mini R32 series is SmartThings ready, with a factory-integrated Wi-Fi kit (MIM-H14EN). This enables seamless management of indoor units directly through the intuitive SmartThings app[7]. This integrated feature eliminates the need for additional purchases, streamlining installation, and enhancing user experience.



In addition, when connecting the Samsung DVM S Mini R32 series 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.



1. GWP R32: 675 GWP R410A: 2088 R32 refrigerant charge 2.2kg tCO2e=1.49 R410A refrigerant charge 2.00 & 2.5 kg tCO2e=4.18 & 5.22.
2. If the indoor temperature is between 10°C and 15°C, the warming-up mode must be completed before it can work in heating mode to make it easier to understand and have a positive twist to it.
3. Only available for model codes: MWR-WG01JN and MWR- WG01KN.
4. Only available for certain models. Based on internal testing, verified by TUV Rheinland, in accordance with ISO 9227, ISO 14993 and ISO 21207 using specimens from the heat exchanger of a DMV outdoor unit. For more details, please contact Samsung's technical professionals. Based on testing by a third-party lab, applying the actual pressure of refrigerant for 1 minute, after a Salt Spray Test (SST) of over 10,000 hours.
5. Silent mode can be activated by the installer, depending on the model code, during the installation/service stage. Reduction of sound levels could reduce heat pump capacity. Depending on the ambient temperature.
6. 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 AM060DXMDKG/EU connected to AM140DN4DKG/EU indoor unit with 25m of piping. The elapsed times were measured when the room temperature reached 25°C.
7. A 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 Pump System

Model Name			AM040DXMDKG/EU	AM050DXMDKG/EU	AM060DXMDKG/EU
Power Supply		**Φ, #, V, Hz**	1,2,220~240,50/60	1,2,220~240,50/60	1,2,220~240,50/60
Performance					
HP		**HP**	4	5	6
Capacity	**Rated Cooling / Heating**	**kW**	12.10 / 12.10	14.00 / 14.00	15.50 / 15.50
	Heating (Max.)	**kW**	14.20	16.00	18.00
Maximum number of connectable indoor units		**EA**	8	9	10
Total capacity of the connected indoor units	**Min. - Max.**	**kW**	6.00 - 15.70	7.00 - 18.20	7.80 - 20.20
Power					
Power Input	**Cooling / Heating**	**kW**	3.73 / 2.75	4.83 / 3.37	5.62 / 3.78
	Heating (Max.)	**kW**	3.55	4.10	5.00
Current Input	**Cooling / Heating**	**A**	17.1 / 12.6	22.1 / 15.4	25.7 / 17.3
	Heating (Max.)	**A**	16.2	18.8	22.9
Minimum Ssc					
MCA		**A**	22	24	32
MFA		**A**	25	32	40
Energy Efficiency [1]					
Cooling		**W/W**	3.24	2.90	2.76
Heating		**W/W**	4.40	4.15	4.10
Heating (Max.)		**W/W**	4.00	3.90	3.60
Ducted	**SEER / SCOP**	**W/W**	7.90 / 4.80	7.40 / 4.70	7.20 / 4.60
	ηs,c / ηs,h	**%**	313.0 / 189.0	293.0 / 185.0	285.0 / 181.0
Non-ducted	**SEER / SCOP**	**W/W**	8.50 / 5.10	8.20 / 5.10	8.00 / 5.10
	ηs,c / ηs,h	**%**	337.0 / 201.0	325.0 / 201.0	317.0 / 201.0
Pdesignh		**kW**	8.20	8.50	9.00
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		**-**	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
Output		**kW x n**	4.35 x 1	4.35 x 1	4.35 x 1
Fan					
Discharge direction		**-**	Horizontal	Horizontal	Horizontal
Quantity		**-**	1	1	1
Air Flow Rate		**CMM**	69	77	80
		l/s	1,150	1,283	1,333
Fan Motor					
Type		**-**	BLDC Motor	BLDC Motor	BLDC Motor
Output x n		**W x n**	122 x 1	122 x 1	122 x 1
Piping Connections					
Liquid Pipe		**Φ, mm - inch**	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
Gas Pipe		**Φ, mm - inch**	15.88 - 5/8	15.88 - 5/8	19.05 - 3/4
Piping length (ODU-IDU)[3]	**Max. [Equiv.]**	**m**	80 [100]	80 [100]	80 [100]
Piping length (1st Branch-IDU)[3]	**Max.**	**m**	40	40	40
Total piping length (System)	**Max.**	**m**	150	150	150
Level difference (ODU in highest position)[3]	**Max.**	**m**	30	30	30
Level difference (IDU in highest position)[3]	**Max.**	**m**	25	25	25
Level difference (IDU-IDU)[3]	**Max.**	**m**	15	15	15
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)		**-**	R32 (675)	R32 (675)	R32 (675)
Factory Charging		**kg (tCO2e)**	2.2 (1.49)	2.2 (1.49)	2.2 (1.49)
Sound Level [2]					
Sound Pressure Level	**Cooling / Heating**	**dB(A)**	55 / 57	57 / 59	58 / 60
Sound Power Level	**Cooling**	**dB(A)**	68	70	71
External Dimension					
Net Weight		**kg**	90	90	90
Net Dimensions (WxHxD)		**mm**	940 x 840 x 460	940 x 840 x 460	940 x 840 x 460
Operating temperature range					
Cooling		**°C**	-5 ~ 48	-5 ~ 48	-5 ~ 48
Heating		**°C**	-25 ~ 26	-25 ~ 26	-25 ~ 26
Recommended combinations					
Ducted			AM028DNMFKG/EU x 3 + AM036DNMFKG/EU x 1	AM036DNMFKG/EU x 4	AM036DNMFKG/EU x 2 + AM045DNMFKG/EU x 2
Non-ducted			AM028DN4FKG/EU x 3 + AM036DN4FKG/EU x 1	AM036DN4FKG/EU x 4	AM036DN4FKG/EU x 2 + AM045DN4FKG/EU x 2

[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 (outdoor unit)
  - R32 refrigerant leak detector sensor (indoor unit)
  - Audible & visible alarm system (wired control)
- Horizontal discharge and rear suction one propeller BLDC Inverter fan (4~6 HP)
- Active AI Pressure Control
- Active AI Defrost
- Active AI Refrigerant analysis
- Durafin™ Ultra Heat Exchanger Fin
- Night Silent Mode available.
- Four-way direction piping connection.
- On-device Inverter Checker™

EUROVENT CERTIFIED PERFORMANCE

Model Name			AM040DXMDNG/EU	AM050DXMDNG/EU	AM060DXMDNG/EU
Power Supply		**Φ, #, V, Hz**	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60
Performance					
HP		**HP**	4	5	6
Capacity	**Rated Cooling / Heating**	**kW**	12.10 / 12.10	14.00 / 14.00	15.50 / 15.50
	Heating (Max.)	**kW**	14.20	16.00	18.00
Maximum number of connectable indoor units		**EA**	8	9	10
Total capacity of the connected indoor units	**Min. - Max.**	**kW**	6.00 - 15.70	7.00 - 18.20	7.80 - 20.20
Power					
Power Input	**Cooling / Heating**	**kW**	3.73 / 2.75	4.83 / 3.37	5.62 / 3.78
	Heating (Max.)	**kW**	3.55	4.10	5.00
Current Input	**Cooling / Heating**	**A**	5.9 / 4.3	7.6 / 5.3	8.8 / 5.9
	Heating (Max.)	**A**	5.6	6.4	7.8
Minimum Ssc					
MCA		**A**	16	16	16
MFA		**A**	20	20	20
Energy Efficiency [1]					
Cooling		**W/W**	3.24	2.90	2.76
Heating		**W/W**	4.40	4.15	4.10
Heating (Max.)		**W/W**	4.00	3.90	3.60
Ducted	**SEER / SCOP**	**W/W**	7.90 / 4.80	7.40 / 4.70	7.20 / 4.60
	ηs,c / ηs,h	**%**	313.0 / 189.0	293.0 / 185.0	285.0 / 181.0
Non-ducted	**SEER / SCOP**	**W/W**	8.50 / 5.10	8.20 / 5.10	8.00 / 5.10
	ηs,c / ηs,h	**%**	337.0 / 201.0	325.0 / 201.0	317.0 / 201.0
Pdesignh		**kW**	8.20	8.50	9.00
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		**-**	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
Output		**kW x n**	4.35 x 1	4.35 x 1	4.35 x 1
Fan					
Discharge direction		**-**	Horizontal	Horizontal	Horizontal
Quantity		**-**	1	1	1
Air Flow Rate		**CMM**	69	77	80
		l/s	1,150	1,283	1,333
Fan Motor					
Type		**-**	BLDC Motor	BLDC Motor	BLDC Motor
Output x n		**W x n**	122 x 1	122 x 1	122 x 1
Piping Connections					
Liquid Pipe		**Φ, mm - inch**	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
Gas Pipe		**Φ, mm - inch**	15.88 - 5/8	15.88 - 5/8	19.05 - 3/4
Piping length (ODU-IDU)[3]	**Max. [Equiv.]**	**m**	80 [100]	80 [100]	80 [100]
Piping length (1st Branch-IDU)[3]	**Max.**	**m**	40	40	40
Total piping length (System)	**Max.**	**m**	150	150	150
Level difference (ODU in highest position)[3]	**Max.**	**m**	30	30	30
Level difference (IDU in highest position)[3]	**Max.**	**m**	25	25	25
Level difference (IDU-IDU)[3]	**Max.**	**m**	15	15	15
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)		**-**	R32 (675)	R32 (675)	R32 (675)
Factory Charging		**kg (tCO2e)**	2.2 (1.49)	2.2 (1.49)	2.2 (1.49)
Sound Level [2]					
Sound Pressure Level	**Cooling / Heating**	**dB(A)**	55 / 57	57 / 59	58 / 60
Sound Power Level	**Cooling**	**dB(A)**	68	70	71
External Dimension					
Net Weight		**kg**	90	90	90
Net Dimensions (WxHxD)		**mm**	940 x 840 x 460	940 x 840 x 460	940 x 840 x 460
Operating temperature range					
Cooling		**°C**	-5 ~ 48	-5 ~ 48	-5 ~ 48
Heating		**°C**	-25 ~ 26	-25 ~ 26	-25 ~ 26
Recommended combinations					
Ducted			AM028DNMFKG/EU x 3 + AM036DNMFKG/EU x 1	AM036DNMFKG/EU x 4	AM036DNMFKG/EU x 2 + AM045DNMFKG/EU x 2
Non-ducted			AM028DN4FKG/EU x 3 + AM036DN4FKG/EU x 1	AM036DN4FKG/EU x 4	AM036DN4FKG/EU x 2 + AM045DN4FKG/EU x 2

Specifications 1/2

Heat Recovery System

Model Name			AM040HCMDKS/EU	AM050HCMDKS/EU	AM060HCMDKS/EU
Power Supply		Φ, #, V, Hz	1,2,220~240,50/60	1,2,220~240,50/60	1,2,220~240,50/60
Performance					
HP		HP	4	5	6
Capacity	Rated Cooling / Heating	kW	12.10 / 12.10	14.00 / 14.00	15.50 / 15.50
	Heating (Max.)	kW	14.20	16.00	18.00
Maximum number of connectable indoor units		EA	8	9	10
Total capacity of the connected indoor units	Min. - Max.	kW	6.00 - 15.70	7.00 - 18.20	7.80 - 20.20
Power					
Power Input	Cooling / Heating	kW	3.73 / 2.75	4.83 / 3.37	5.62 / 3.78
	Heating (Max.)	kW	3.55	4.10	5.00
Current Input	Cooling / Heating	A	17.1 / 12.6	22.1 / 15.4	25.7 / 17.3
	Heating (Max.)	A	16.2	18.8	22.9
Minimum Ssc					
MCA		A	22	24	32
MFA		A	25	32	40
Energy Efficiency [1]					
Cooling		W/W	3.24	2.90	2.76
Heating		W/W	4.40	4.15	4.10
Heating (Max.)		W/W	4.00	3.90	3.60
Ducted	SEER / SCOP	W/W	7.90 / 4.80	7.40 / 4.70	7.20 / 4.60
	ηs,c / ηs,h	%	313.0 / 189.0	293.0 / 185.0	285.0 / 181.0
Non-ducted	SEER / SCOP	W/W	8.50 / 5.10	8.20 / 5.10	8.00 / 5.10
	ηs,c / ηs,h	%	337.0 / 201.0	325.0 / 201.0	317.0 / 201.0
Pdesignh		kW	8.20	8.50	9.00
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		-	Rotary Inverter	Rotary Inverter	Rotary Inverter
Output		kW x n	4.26 x 1	4.26 x 1	4.26 x 1
Fan					
Discharge direction		-	Horizontal	Horizontal	Horizontal
Quantity		-	1	1	1
Air Flow Rate		CMM	69	77	80
		l/s	1,150	1,283	1,333
External Static Pressure		Pa	29	29	29
Fan Motor					
Type		-	BLDC Motor	BLDC Motor	BLDC Motor
Output x n		W x n	122 x 1	122 x 1	122 x 1
Piping Connections					
Liquid Pipe		Φ, mm - inch	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
Gas Pipe		Φ, mm - inch	15.88 - 5/8	15.88 - 5/8	19.05 - 3/4
High pressure Gas pipe		Φ, mm - inch	15.88 - 5/8	15.88 - 5/8	19.05 - 3/4
Piping length (ODU-IDU)[3]	Max. [Equiv.]	m	80 [100]	80 [100]	80 [100]
Piping length (1st Branch-IDU)[3]	Max.	m	40	40	40
Total piping length (System)	Max.	m	150	150	150
Level difference (ODU in highest position)[3]	Max.	m	30	30	30
Level difference (IDU in highest position)[3]	Max.	m	25	25	25
Level difference (IDU-IDU)[3]	Max.	m	15	15	15
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)		-	R32 (675)	R32 (675)	R32 (675)
Factory Charging		kg (tCO2e)	2.2 (1.49)	2.2 (1.49)	2.2 (1.49)
Sound Level [2]					
Sound Pressure Level	Cooling / Heating	dB(A)	55 / 57	57 / 59	58 / 60
Sound Power Level	Cooling	dB(A)	68	70	71
External Dimension					
Net Weight		kg	90	90	90
Net Dimensions (WxHxD)		mm	940 x 840 x 460	940 x 840 x 460	940 x 840 x 460
Operating temperature range					
Cooling		°C	-5 ~ 48	-5 ~ 48	-5 ~ 48
Heating		°C	-25 ~ 26	-25 ~ 26	-25 ~ 26
Recommended combinations					
Ducted			AM028DNMFKG/EU x 3 + AM036DNMFKG/EU x 1	AM036DNMFKG/EU x 4	AM036DNMFKG/EU x 2 + AM045DNMFKG/EU x 2
Non-ducted			AM028DN4FKG/EU x 3 + AM036DN4FKG/EU x 1	AM036DN4FKG/EU x 4	AM036DN4FKG/EU x 2 + AM045DN4FKG/EU x 2

[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 (HR Changer)
  - R32 refrigerant leak detector sensor (indoor unit & HR Changer & SVB)
  - Audible & visible alarm system (wired control)
- Horizontal discharge and rear suction one propeller BLDC Inverter fan
- Active AI Pressure Control
- Active AI Defrost
- Active AI Refrigerant analysis
- Durafin™ Ultra Heat Exchanger Fin
- Night Silent Mode available.
- Four-way direction piping connection.
- On-device Inverter Checker™

EUROVENT CERTIFIED PERFORMANCE

Model Name			AM040HCMDNS/EU	AM050HCMDNS/EU	AM060HCMDNS/EU
Power Supply		**Φ, #, V, Hz**	3,4,380~415,50/60	3,4,380~415,50/60	3,4,380~415,50/60
Performance					
HP		**HP**	4	5	6
Capacity	**Rated Cooling / Heating**	**kW**	12.10 / 12.10	14.00 / 14.00	15.50 / 15.50
	Heating (Max.)	**kW**	14.20	16.00	18.00
Maximum number of connectable indoor units		**EA**	8	9	10
Total capacity of the connected indoor units	**Min. - Max.**	**kW**	6.00 - 15.70	7.00 - 18.20	7.80 - 20.20
Power					
Power Input	**Cooling / Heating**	**kW**	3.73 / 2.75	4.83 / 3.37	5.62 / 3.78
	Heating (Max.)	**kW**	3.55	4.10	5.00
Current Input	**Cooling / Heating**	**A**	5.9 / 4.3	7.6 / 5.3	8.8 / 5.9
	Heating (Max.)	**A**	5.6	6.4	7.8
Minimum Ssc			3.9	3.9	3.9
MCA		**A**	16	16	16
MFA		**A**	20	20	20
Energy Efficiency [1]					
Cooling		**W/W**	3.24	2.90	2.76
Heating		**W/W**	4.40	4.15	4.10
Heating (Max.)		**W/W**	4.00	3.90	3.60
Ducted	**SEER / SCOP**	**W/W**	7.90 / 4.80	7.40 / 4.70	7.20 / 4.60
	ηs,c / ηs,h	**%**	313.0 / 189.0	293.0 / 185.0	285.0 / 181.0
Non-ducted	**SEER / SCOP**	**W/W**	8.50 / 5.10	8.20 / 5.10	8.00 / 5.10
	ηs,c / ηs,h	**%**	337.0 / 201.0	325.0 / 201.0	317.0 / 201.0
Pdesignh		**kW**	8.20	8.50	9.00
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		**-**	Rotary Inverter	Rotary Inverter	Rotary Inverter
Output		**kW x n**	4.26 x 1	4.26 x 1	4.26 x 1
Fan					
Discharge direction		**-**	Horizontal	Horizontal	Horizontal
Quantity		**-**	1	1	1
Air Flow Rate		**CMM**	69	77	80
		l/s	1,150	1,283	1,333
External Static Pressure		**Pa**	29	29	29
Fan Motor					
Type		**-**	BLDC Motor	BLDC Motor	BLDC Motor
Output x n		**W x n**	122 x 1	122 x 1	122 x 1
Piping Connections					
Liquid Pipe		**Φ, mm - inch**	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
Gas Pipe		**Φ, mm - inch**	15.88 - 5/8	15.88 - 5/8	19.05 - 3/4
High pressure Gas pipe		**Φ, mm - inch**	19.05 - 3/4	19.05 - 3/4	19.05 - 3/4
Piping length (ODU-IDU)[3]	**Max. [Equiv.]**	**m**	80 [100]	80 [100]	80 [100]
Piping length (1st Branch-IDU)[3]	**Max.**	**m**	40	40	40
Total piping length (System)	**Max.**	**m**	150	150	150
Level difference (ODU in highest position)[3]	**Max.**	**m**	30	30	30
Level difference (IDU in highest position)[3]	**Max.**	**m**	25	25	25
Level difference (IDU-IDU)[3]	**Max.**	**m**	15	15	15
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)		**-**	R32 (675)	R32 (675)	R32 (675)
Factory Charging		**kg (tCO2e)**	2.2 (1.49)	2.2 (1.49)	2.2 (1.49)
Sound Level [2]					
Sound Pressure Level	**Cooling / Heating**	**dB(A)**	55 / 57	57 / 59	58 / 60
Sound Power Level	**Cooling**	**dB(A)**	68	70	71
External Dimension					
Net Weight		**kg**	90	90	90
Net Dimensions (WxHxD)		**mm**	940 x 840 x 460	940 x 840 x 460	940 x 840 x 460
Operating temperature range					
Cooling		**°C**	-5 ~ 48	-5 ~ 48	-5 ~ 48
Heating		**°C**	-25 ~ 26	-25 ~ 26	-25 ~ 26
Recommended combinations					
Ducted			AM028DNMFKG/EU x 3 + AM036DNMFKG/EU x 1	AM036DNMFKG/EU x 4	AM036DNMFKG/EU x 2 + AM045DNMFKG/EU x 2
Non-ducted			AM028DN4FKG/EU x 3 + AM036DN4FKG/EU x 1	AM036DN4FKG/EU x 4	AM036DN4FKG/EU x 2 + AM045DN4FKG/EU x 2

Specifications 2/2

HR Changer

Model Name			AM040DXMDKG/EU	AM050DXMDKG/EU	AM060DXMDKG/EU
Power Supply		Φ, #, V, Hz	1,2,220~240,50-60	1,2,220~240,50-60	1,2,220~240,50-60
Performance					
Max. number of indoor units		ea	12	18	12
Max. indoor units per port		ea	3	3	3
Number of ports		ea	4	6	4
Max. capacity of indoor units		kW	61.6	61.6	61.6
Max. capacity of indoor units per port		kW	16	16	16
Max. capacity of indoor units per port	Y-Joint	kW	32	32	32
Power					
MCA		A	0.5	0.5	0.5
MFA		A	15	15	15
Piping Connections					
Outdoor	Liquid Pipe	Φ, mm - inch	15.88 - 5/8	15.88 - 5/8	15.88 - 5/8
Outdoor	Gas Pipe	Φ, mm - inch	22.22 - 7/8	22.22 - 7/8	22.22 - 7/8
Outdoor	High pressure Gas pipe	Φ, mm - inch	22.22 - 7/8	22.22 - 7/8	22.22 - 7/8
Indoor	Liquid Pipe	Φ, mm - inch	9.52 - 3/8	9.52 - 3/8	9.52 - 3/8
Indoor	Gas Pipe	Φ, mm - inch	15.88 - 5/8	15.88 - 5/8	15.88 - 5/8
Field Wiring					
Transmission	Min.	mm^2	0.75	0.75	0.75
Power supply intake			2.5	2.5	2.5
Refrigerant					
Type (GWP)			R32 (675)	R32 (675)	R32 (675)
Additional refrigerant charging		kg/unit	0.65	0.65	0.30
Sound Level [2]					
Sound Pressure Level	Stable Cooling operation	dB(A)	32	32	32
Sound Pressure Level	Heating -to-Cooling change over	dB(A)	45	45	45
External Dimension					
Net Weight		kg	41	44	26
Net Dimensions (WxHxD)		mm	937 x 271 x 780	937 x 271 x 780	492 x 271 x 780

- Safety devices integrated (standard IEC 60335-2-40):
  - Shut-off valve and battery pack in the HR Changer
  - R32 refrigerant leak detector sensor
- Enable simultaneous heating and cooling for DVM Heat Recovery model

EUROVENT CERTIFIED PERFORMANCE

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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Notes

SAMSUNG

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samsung-climatesolutions.com

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