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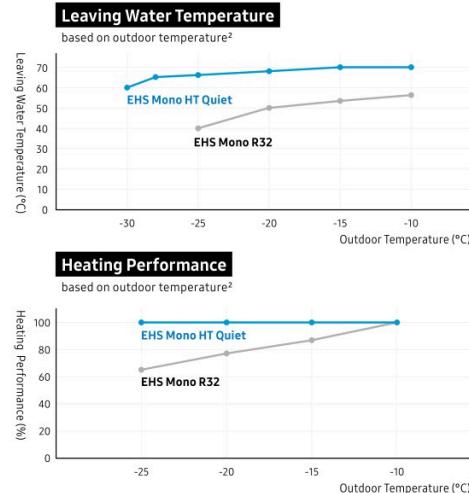
EHS Mono HT Quiet

Hot Water Temperature

The EHS Mono HT Quiet combines advanced features to achieve hot water temperature of 70°C¹ and ensures that it is provided reliably. It combines various advanced features to achieve an incredibly hot water temperature and ensure that it provides a 100% heating performance even in extremely cold weather as low as -25°C².

¹ Leaving water temperature, when the outdoor temperature is between -15°C ~ -30°C. Results may vary depending on actual usage conditions.

² Based on internal testing on an EHS Mono HT Quiet (AE120BXDGG) outdoor unit, compared to a conventional EHS outdoor unit (AE120RXYDGG). Results may vary depending on the actual usage conditions.



Key features to achieve Hot Water Temperature are Enlarged heat transfer area, Flash injection technology and Strengthened compression parts.

Enlarged Heat Transfer Area

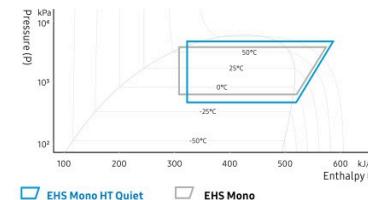
The EHS Mono HT Quiet has an enlarged heat exchanger that is capable of transferring much more heat at once. Its heat transfer area is approximately 11.9% larger¹ to help exchange heat quickly.



¹ Based on Samsung's measurements on an EHS Mono HT Quiet (AE120BXDGG/EU) model compared to a conventional outdoor unit (AE120RXYDGG/EU) with the same capacity.

Samsung's EHS Mono High Temperature (HT) Quiet has been certified by Quiet Mark for its low noise. The Quiet Mark is applicable for UK & EU territories only.

Document



Flash Injection Technology

The EHS Mono HT Quiet outdoor unit has a new Scroll Compressor that can compress refrigerant at much higher pressure, while its Flash Injection Technology increases the flow of refrigerant, so the compressor continues working reliably. Even at -30°C it can supply hot water of up to 60°C for non-stop comfort in the coldest conditions!

¹ Based on internal testing. Results may vary depending on the actual usage conditions.

Strengthened Compression Parts

To endure the higher pressure created by a new Scroll Compressor, the EHS Mono HT Quiet uses high impact Reed Valves, which are thicker and stronger, and an extended Oil Groove, which provides sufficient lubricant to ensure the performance and reliability of the compressor. As a result, the compression ratio has increased by approximately 31%¹.

¹ Compression ratio = Discharge pressure/Suction pressure. Based on internal testing on an EHS Mono HT Quiet outdoor unit, compared to a conventional EHS outdoor unit. As a result, the discharge pressure has increased from 45 to 52kgf/cm²G, and the compression ratio has increased from 18 to 77.



With enhanced durability and response rate, the Reed Valves endure much higher discharge pressure, which has increased by approximately 27%.

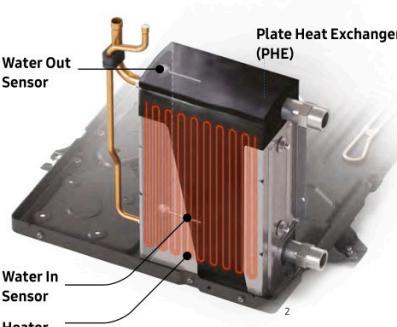


With a 58° extended Oil Groove on the thrust bearing, the lubrication area has increased by about 24%. So, the compression part keeps working stably even under an increased discharge pressure.



Operates across a wider temperature range

The EHS Mono HT Quiet supplies hot water regardless of the external conditions. Flash Injection Technology ensures that it can maintain its heating performance in cold weather, while a Heat Sink radiates the heat of the inverter circuit more effectively to extend the operating temperature range.



When an outdoor unit turns off or is malfunctioning in cold weather, water inside it may freeze and burst vital parts. The EHS Mono HT Quiet has a heater on the Plate Heat Exchanger (PHE) that senses the temperature of the water in the PHE and keeps it above zero. So, it prevents the PHE from becoming frozen and bursting when it is not operating, even if the outdoor temperature reaches -30°C.¹

¹ Based on internal testing using an EHS Mono HT Quiet AE140BYXDGG model. Operated in an outdoor temperature of -30°C for 20 hours.
² Only illustrative. The heater is not seen from the outside of insulation.

Heating Performance in cold climates

The EHS Mono HT Quiet's heating performance has been increased by 13%,¹ enabling it to deliver a 100% heating performance in temperatures as low as -25°C². The heat pump has an enlarged heat exchanger that can transfer more heat at once compared to a conventional outdoor unit. The heat transfer area is up to 13% larger.³ As a result, it can consume less energy to achieve the same cooling and heating performance.

¹ Based on internal testing, compared to a conventional EHS Mono. Conditions: A-10°C / W35°C, based on 8kW models based on our TDs (technical data book) published as R290 is 8kW, and R32 conventional is 7.1 so improvement is 13% increase of heating capacity.

² EHS Mono HT Quiet outdoor unit (Capacity: 14kW, Heating Capacity: 10.5kW). Internally tested under lab conditions based on EN 14511, results may vary depending on the actual usage conditions.

³ Based on Samsung's measurements on an EHS Mono HT Quiet (AE120BXDYDGG/EU model) compared to a conventional outdoor unit (AE120RXYDGG/EU) with the same capacity.

Elevated Base Design with a Base Heater

During the heating operation in cold weather (-25°C or below), the defrost cycle used to remove ice on a heat exchanger can cause water to condense on it. The EHS Mono HT Quiet has an elevated base design with deepened and slanted gutters, so it drains condensed water much faster¹ to prevent it from freezing inside the cabinet. So, a base heater is equipped as a standard, which can quickly melt ice on the base and ensure the reliability of its heating operation.

¹ Based on internal testing on the EHS Mono HT Quiet outdoor unit compared to a conventional EHS outdoor unit.



Conventional AE120RXYDGG/EU

EHS Mono HT Quiet AE120BXDYDGG/EU

Heat Sink

The inverter circuit generates a lot of heat, which affects the entire system's performance. The Insert Diecasting Heat Sink effectively radiates heat from the inverter circuit. It helps extend the heating operation temperature from 35°C to 43°C,¹ so it reliably supplies hot water even in severely hot weather.

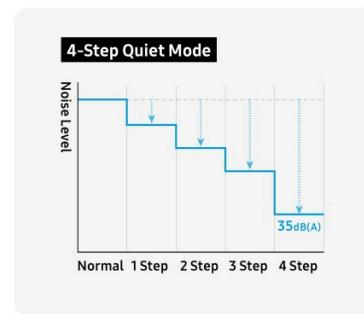
¹ Based on internal testing on the EHS Mono HT Quiet outdoor unit compared to a conventional EHS outdoor unit.



EHS Mono HT Quiet

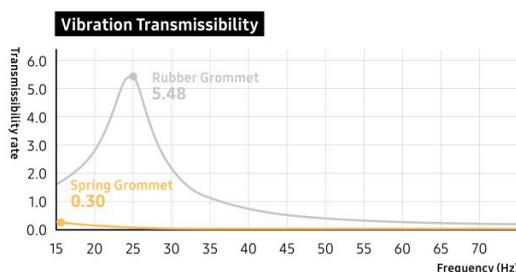
Quiet Operation

Powered by a combination of innovative noise reducing technologies, the EHS HT Quiet operate quietly with noise levels as low as 35 dB(A)¹ using a 4-step Quiet Mode.



Spring Grommet for the Compressor Mounting

Spring Grommets (instead of rubber grommets) are used for the compressor mounting, thus reducing the vibration transfer rate by 95%.² The compressor utilizes a reinforced crankshaft, which decreases low frequency resonant noise, while the outdoor unit employs a multi-serration fan which significantly reduces the noise it generates by minimizing the air vortex.

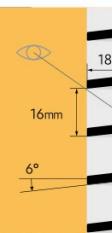


¹ Based on internal testing of the EHS Mono HT Quiet outdoor unit. The noise level is measured 3m away from the front of the outdoor unit, in an anechoic room with an outside temperature of 7°C. Results may vary depending on environmental factors and individual use.
² Based on a computational simulation in accordance with the theoretical formula of the spring grommet (EHS R290 Mono unit), compared to the rubber grommet (EHS R32 Mono unit). Results may vary depending on the actual usage conditions.

Slanted Grille

A new grille design has a 6° slope and is 18mm deep. The angled slats screen the inside from sight when you pass by it, even from only 1m away.*

* Based on a viewing height of 1,700mm.



Low Height

The EHS Mono HT Quiet outdoor unit is approximately 1m in height. So, it can be installed under a balcony window, which enhances your home interior as it does not affect the view out of the window.



Specifications 1/2

EHS Mono High Temperature (HT) Quiet

- Production of hot water to a maximum temperature of 70 °C
- SmartThings compatible with optional Wi-Fi kit
- New Climatehub Mono, Hydro Unit and Control kit with embedded Wi-Fi module

- Generates a low noise level (35 dB)
- 100% Heating Capacity at -25 °C
- Premium Design
- Low Ambient temperature operation
- Easy installation and maintenance
- Ideal for renovation applications



	Indoor Unit	Outdoor Unit	Controller	AE200DN*MPK/EU AE080XY0EG/EU MIM-E03FN	AE200DN*MPK/EU AE120BX0EG/EU MIM-E03FN	AE200DN*MPK/EU AE140BX0EG/EU MIM-E03FN
System						
Operation	Nominal Capacity	Heating A7/W55 ¹ / A7/W55 ²	kW	8.0/8.0	12.0/12.0	14.0/14.0
	Cooling A35/W18 ¹	kW	8.0	12.0	14.0	
Power Input (Nominal)	Heating A7/W55 ¹ / A7/W55 ²	kW	1.600	2.353	2.772	
	Cooling A35/W18 ¹	kW	1.702	2.637	3.146	
COP (Nominal Heating) A7/W55 ¹	W/W		5.00/3.20	5.11/3.40	5.05/3.35	
EER (Nominal Cooling) A35/W18 ¹	W/W		4.71	4.55	4.46	
SCOP LWT 35°C/ 55°C	W/W		4.64/3.38	4.90/3.78	4.85/3.75	
Seasonal space heating efficiency LWT 35°C/ 55°C	ETA%		183/132	193/148	190/147	
Seasonal Space Heating Eff. Class* LWT 35°C/ 55°C		/	/	/	/	/
Current	MCA	A	26.0	32.0	32.0	
	MFA	A	28.6	35.2	35.2	
Water Flow Rate	Nom	l/min	7/48	7/58	7/58	
Leaving Water Temperature*	Heating	°C	15-70	15-70	15-70	
	Cooling	°C	5-25	5-25	5-25	
Functions						
Smart Grid Ready/PV Enabled	-		•	•	•	
3-Step Quiet Mode	-		•	•	•	
2-zone Control	-		•	•	•	
Tank Integrated Hydro Unit						
Power Supply	Φ, V, Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz
Water Tank Volume	litres	200	200	200	200	200
Declared Load Profile	L/XL	L	L	L	L	L
Average water heating efficiency nwh	ETA%	148%	148%	148%	148%	148%
Average Energy Efficiency Class	-	**	**	**	**	**
Sound	Sound Pressure ⁴	Heating Std	dBi(A)	26/28 ⁵	28/30 ⁶	28/30 ⁶
		Cooling Std	dBi(A)	26/28 ⁵	28/30 ⁶	28/30 ⁶
Heater	Sound Power	Heating Std	dBi(A)	40/42 ⁵	42/44 ⁶	42/44 ⁶
		Back-up heater Capacity	Default (Option)	kW	2 (4)	2 (4)
Piping	Water Pipe (Space Heating Primary)	Inlet/Outlet	Φ, mm	28/28	28/28	28/28
	Water pipe (Space Heating 2-zone)	Inlet/Outlet	Φ, mm	28/28	28/28	28/28
	Water pipe (DHW)	Inlet/Outlet	Φ, mm	22/22	22/22	22/22
Dimensions	Net Weight	kg	132/142 ¹	132/142 ¹	132/142 ¹	132/142 ¹
	Net Dimensions (WxHxD)	mm	598 x 1,850 x 600	598 x 1,850 x 600	598 x 1,850 x 600	598 x 1,850 x 600
Outdoor Unit						
Power Supply	Φ, V, Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz
Compressor	Type	-	Scroll	Scroll	Scroll	Scroll
Base Heater	Capacity	kW	0.15	0.15	0.15	0.15
Sound	Sound Pressure ⁴	Heating Std	dBi(A)	42	46	47
		Cooling Std	dBi(A)	42	46	47
	Sound Power	Heating Std	dBi(A)	56	59	60
Dimensions	Net Weight	kg	131.2	141.2	141.2	141.2
	Net Dimensions (WxHxD)	mm	1270 x 1018 x 530	1270 x 1018 x 530	1270 x 1018 x 530	1270 x 1018 x 530
Refrigerant	Type	-	Scroll	Scroll	Scroll	Scroll
	Factory Charging	tCO ₂ e	1.82	2.23	2.23	2.23
		kg	2.7	3.3	3.3	3.3
Piping	Water Pipe (Space Heating)	Inlet/Outlet	Φ, mm	28/28	28/28	28/28
Operation	Ambient Temperature	Heating	°C	-30-45	-30-45	-30-45
		Cooling	°C	10-46	10-46	10-46
		DHW	°C	-30-45	-30-45	-30-45

* On the scale from A (highest efficiency) to F (lowest efficiency) ** On the scale from A+ (highest efficiency) to F (lowest efficiency) *** On the scale from A++ (highest efficiency) to D (lowest efficiency)

**** On the scale from A+++ (highest efficiency) to D (lowest efficiency)

	AE200DN*MPK/EU AE080XY0EG/EU MIM-E03FN	AE200DN*MPK/EU AE120BX0EG/EU MIM-E03FN	AE200DN*MPK/EU AE140BX0EG/EU MIM-E03FN			
System						
Operation	8.0/8.0	12.0/12.0	14.0/14.0			
	8.0	12.0	14.0			
Power Input (Nominal)	1.600	2.353	2.772			
	1.702	2.637	3.146			
COP (Nominal Heating) A7/W55 ¹	5.00/3.20	5.11/3.40	5.05/3.35			
EER (Nominal Cooling) A35/W18 ¹	4.71	4.55	4.46			
SCOP LWT 35°C/ 55°C	4.64/3.38	4.90/3.78	4.85/3.75			
Seasonal space heating efficiency LWT 35°C/ 55°C	ETA%	183/132	193/148	190/147		
Seasonal Space Heating Eff. Class* LWT 35°C/ 55°C		/	/	/		
Current	MCA	A	26.0	32.0	32.0	
	MFA	A	28.6	35.2	35.2	
Water Flow Rate	Nom	l/min	7/48	7/58	7/58	
Leaving Water Temperature*	Heating	°C	15-70	15-70	15-70	
	Cooling	°C	5-25	5-25	5-25	
Functions						
Smart Grid Ready/PV Enabled	-	•	•	•	•	
3-Step Quiet Mode	-	•	•	•	•	
2-zone Control	-	•	•	•	•	
Tank Integrated Hydro Unit						
Power Supply	Φ, V, Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz
Water Tank Volume	litres	200	200	200	200	200
Declared Load Profile	L/XL	L	L	L	L	L
Average water heating efficiency nwh	ETA%	148%	148%	148%	148%	148%
Average Energy Efficiency Class		**	**	**	**	**
Sound	Sound Pressure ⁴	Heating Std	dBi(A)	26/28 ⁵	28/30 ⁶	28/30 ⁶
		Cooling Std	dBi(A)	26/28 ⁵	28/30 ⁶	28/30 ⁶
Heater	Sound Power	Heating Std	dBi(A)	40/42 ⁵	42/44 ⁶	42/44 ⁶
		Back-up heater Capacity	Default (Option)	kW	2 (4)	2 (4)
Piping	Water Pipe (Space Heating Primary)	Inlet/Outlet	Φ, mm	28/28	28/28	28/28
	Water pipe (Space Heating 2-zone)	Inlet/Outlet	Φ, mm	28/28	28/28	28/28
	Water pipe (DHW)	Inlet/Outlet	Φ, mm	22/22	22/22	22/22
Dimensions	Net Weight	kg	132/142 ¹	132/142 ¹	132/142 ¹	132/142 ¹
	Net Dimensions (WxHxD)	mm	598 x 1,850 x 600	598 x 1,850 x 600	598 x 1,850 x 600	598 x 1,850 x 600
Outdoor Unit						
Power Supply	Φ, V, Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz
Compressor	Type	-	Scroll	Scroll	Scroll	Scroll
Base Heater	Capacity	kW	0.15	0.15	0.15	0.15
Sound	Sound Pressure ⁴	Heating Std	dBi(A)	42	46	47
		Cooling Std	dBi(A)	42	46	47
	Sound Power	Heating Std	dBi(A)	56	59	60
Dimensions	Net Weight	kg	131.2	141.2	141.2	141.2
	Net Dimensions (WxHxD)	mm	1270 x 1018 x 530	1270 x 1018 x 530	1270 x 1018 x 530	1270 x 1018 x 530
Refrigerant	Type	-	Scroll	Scroll	Scroll	Scroll
	Factory Charging	tCO ₂ e	1.82	2.23	2.23	2.23
		kg	2.7	3.3	3.3	3.3
Piping	Water Pipe (Space Heating)	Inlet/Outlet	Φ, mm	28/28	28/28	28/28
Operation	Ambient Temperature	Heating	°C	-30-45	-30-45	-30-45
		Cooling	°C	10-46	10-46	10-46
		DHW	°C	-30-45	-30-45	-30-45

R32 (Fluorinated greenhouse gas, GWP=675)

Specifications 2/2

EHS Mono High Temperature (HT) Quiet (R32)

- Production of hot water to a maximum temperature of 70 °C
- SmartThings compatible with optional Wi-Fi kit
- New Climatehub Mono, Hydro Unit and Control kit with embedded Wi-Fi module

- Generates a low noise level (35 dB)
- 100% Heating Capacity at -25 °C
- Premium Design
- Low Ambient temperature operation
- Easy installation and maintenance
- Ideal for renovation applications



Indoor Unit	AE260RNWMEG AE080XYDE/G/EU MIM-E03FN	AE260RNWMEG AE120XYDE/G/EU MIM-E03FN	AE260RNWMEG AE140XYDE/G/EU MIM-E03FN
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System

Operation	Nominal Capacity	Heating A7/W55 ¹ / A7/W55 ²	kW	8.0/8.0	12.0/12.0	14.0/14.0
	Cooling A35 ¹ /W18 ¹	kW	8.0	12.0	14.0	
Power Input (Nominal)	Heating A7/W55 ¹ / A7/W55 ²	kW	1.600	2.353	2.772	
	Cooling A35 ¹ /W18 ¹	kW	1.702	2.637	3.146	
COP (Nominal Heating) A7/W55 ¹	W/W	5.00/3.20	5.11/3.40	5.05/3.35		
EER (Nominal Cooling) A35/W18 ¹	W/W	4.71	4.55	4.46		
SCOP LWT 35°C/55°C	W/W	4.64/3.38	4.90/3.78	4.85/3.75		
Seasonal space heating energy efficiency (Ƞs) LWT 35°C/55°C	Ƞta%	183/132	193/148	190/147		

Seasonal Space Heating Eff. Class* LWT 35°C/55°C A+++ / A++ / A+ / A / D

Current	MCA	A	26.0	32.0	32.0	
	MFA	A	28.6	35.2	35.2	

Water Flow Rate	Water Tank Volume	Nom	l/min	23.1	34.6	40.4
	Leaving Water Temperature ²	Heating	°C	15-70	15-70	15-70

	Cooling	°C	5-25	5-25	5-25	
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Functions	Smart Grid Ready/PV Enabled	-	•	•	•	
	3-Step Quiet Mode	-	•	•	•	
	2-zone Control	-	•	•	•	

Tank Integrated Hydro Unit

Power Supply	Φ, V, Hz	1Φ, 2, 220-240 V, 50 Hz	1Φ, 2, 220-240 V, 50 Hz	1Φ, 2, 220-240 V, 50 Hz
Water Tank Volume	litres	260	260	260

Declared Load Profile	LxL	XL	XL	XL
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Average water heating efficiency nWh	Ƞta%	123	117	117
Average Energy Efficiency Class	-	A+++	A++	A+

Sound	Sound Pressure ⁴	Heating Std	dB(A)	26	30	30
	Cooling Std	dB(A)	26	30	30	

Heater	Sound Power	Heating Std	dB(A)	40	44	44
	Back-up heater Capacity	Default (Option)	kW	2 (4/6)	2 (4/6)	2 (4/6)

Piping	Water Pipe (Space Heating Primary)	Inlet/Outlet	Φ, mm	28/28	28/28	28/28
	Water pipe (Space Heating 2-zone)	Inlet/Outlet	Φ, mm	22/22	22/22	22/22
	Water pipe (DHW)	Inlet/Outlet	Φ, mm	22/22	22/22	22/22
	Water pipe (Secondary return)	Inlet	Φ, mm			

Dimensions	Net Weight	kg	140.0	140.0	140.0	
	Net Dimensions (WxHxD)	mm	595 x 1800 x 700	595 x 1800 x 700	595 x 1800 x 700	

Outdoor Unit

Power Supply	Φ, V, Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz	
Compressor	Type	-	Scroll	Scroll	Scroll

Base Heater	Capacity	kW	0.15	0.15	0.15	
	Sound Pressure ⁴	Heating Std	dB(A)	42	46	47

Sound	Sound Power	Heating Std	dB(A)	42	46	47
	Cooling Std	dB(A)	42	46	47	

Dimensions	Net Weight	kg	131.2	141.2	141.2	
	Net Dimensions (WxHxD)	mm	1270 x 1018 x 530	1270 x 1018 x 530	1270 x 1018 x 530	

Refrigerant	Type		R32 (Fluorinated greenhouse gas, GWP=675)			
	Factory Charging	tCO ₂ e	1.82	2.23	2.23	

Piping	Water Pipe (Space Heating)	Inlet/Outlet	Φ, mm	28/28	28/28	28/28

Operation	Ambient Temperature	Heating	°C	-30-43	-30-43	-30-43
	Cooling	°C	10-46	10-46	10-46	
	DHW	°C	-30-43	-30-43	-30-43	

* On the scale from A (highest efficiency) to F (lowest efficiency). ** On the scale from A+ (highest efficiency) to F (lowest efficiency). *** On the scale from A++ (highest efficiency) to D (lowest efficiency).

**** On the scale from A+++ (highest efficiency) to D (lowest efficiency).

Accessories

MWR-WW10+N	MCM-A300BN	MIM-E03FN	MIM-DD1AN	MIM-H04EN	MRV-TA	MHC-500FP	MVW-EE300	MOS-T1

AE260RNWMGG AE080XYDE/G/EU MIM-E03FN	AE260RNWMGG AE120XYDE/G/EU MIM-E03FN	AE260RNWMGG AE140XYDE/G/EU MIM-E03FN
8.0/8.0	12.0/12.0	14.0/14.0
8.0	12.0	14.0
1.600	2.353	2.772
1.702	2.637	3.146
5.00/3.20	5.11/3.40	5.05/3.35
4.71	4.55	4.46
4.64/3.38	4.90/3.78	4.85/3.75
183/132	193/148	190/147
A+++ / A++ / A+ / A / D	A+++ / A++ / A+ / A / D	A+++ / A++ / A+ / A / D
1,220-240, 50 or 5, 380-415, 50	1,220-240, 50 or 5, 380-415, 50	1,220-240, 50 or 5, 380-415, 50
260	260	260
XL	XL	XL
123	117	117
A+++	A++	A+
26	30	30
26	30	30
40	44	44
6	6	6
28/28	28/28	28/28
22/22	22/22	22/22
140.0	140.0	140.0
595 x 1800 x 700	595 x 1800 x 700	595 x 1800 x 700
3Φ, 4Line, 380-415V, 50Hz	3Φ, 4Line, 380-415V, 50Hz	3Φ, 4Line, 380-415V, 50Hz
Scroll	Scroll	Scroll
0.15	0.15	0.15
42	46	47
42	46	47
56	59	60
131.2	141.2	141.2
1270 x 1018 x 530	1270 x 1018 x 530	1270 x 1018 x 530
R32 (Fluorinated greenhouse gas, GWP=675)		
1.82	2.23	2.23
2.7	3.3	3.3
28/28	28/28	28/28
-30-43	-30-43	-30-43
10-46	10-46	10-46
-30-43	-30-43	-30-43



¹ Ar+++ energy label is available according to EU No. 811/2019 label classification 2019, on a scale from D to A+++.

² MIM-E03EN has additional features : Smart Grid ready / PV Enabled / 2 - Zone control

³ AZW Condition: (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°C/[DB]/6°C/[WB]; (Cooling) Water In/Out 13°C/18°C, Outdoor Air 35°C/30°C.

⁴ AZW Condition: (Heating) Water In/Out 47°C/55°C, Outdoor Air 7°C/[DB]/6°C/[WB].

⁵ 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 depending on operating conditions.

⁶ Standard/ 2-zone models

Specifications

EHS Mono High Temperature (HT) Quiet (R32)

- Production of hot water to a maximum temperature of 70 °C
- SmartThings compatible with optional Wi-Fi kit
- New Climatehub Mono, Hydro Unit and Control kit with embedded Wi-Fi module

- Generates a low noise level (35 dB)
- 100% Heating Capacity at -25 °C
- Premium Design
- Low Ambient temperature operation
- Easy installation and maintenance
- Ideal for renovation applications

	AE160DN*MPK/EU	AE160DN*MPK/EU	AE160DN*MPK/EU
	AE080BXDGG/EU	AE0120BXDGG/EU	AE0140BXDGG/EU
	MIM-E03FN	MIM-E03FN	MIM-E03FN
System			
Operation	Nominal Capacity	Heating A7/W35 ¹ / A7/W55 ²	kW
	Cooling A35/W18 ¹	kW	8.0/8.0
	Power Input (Nominal)	Heating A7/W35 ¹ / A7/W55 ²	kW
	Cooling A35/W18 ¹	kW	1.600
	COP (Nominal Heating)	A7/W35 ¹	W/W
	EER (Nominal Cooling)	A35/W18 ¹	W/W
	SCOP LWT 35°C / 55°C	WW	5.00/3.20
	Seasonal space heating eff. efficiency η _s LWT 35°C / 55°C	ETA%	5.11/3.40
	Seasonal Space Heating Eff. Class* LWT 35°C / 55°C		5.05/3.35
Current	MCA	A	4.64/3.38
	MFA	A	4.46
Water Flow Rate	Nom	l/min	4.46
Leaving Water Temperature ⁴	Heating	°C	15-70
	Cooling	°C	5-25
Functions	Smart Grid Ready/PV Enabled	-	•
	3-Step Quiet Mode	-	•
	2-zone Control	-	•
Wall-Mounted Hydro Unit			
Power Supply	Φ, V, Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz
Sound	Sound Pressure ⁴	Heating Std	db(A)
		Cooling Std	db(A)
Heater	Back-up heater Capacity	Default (Option)	kW
Piping	Water Pipe (Space Heating Primary)	Inlet/Outlet	Φ, mm
	Water pipe (Space Heating 2-zone)	Inlet/Outlet	Φ, mm
	Water pipe (DHW)	Inlet/Outlet	Φ, mm
	Water pipe (Secondary return)	Inlet	Φ, mm
Dimensions	Net Weight	kg	43.0/54.0 ³
	Net Dimensions (WxHxD)	mm	530 x 840 x 350
Outdoor Unit			
Power Supply	Φ, V, Hz	1Φ, 2Line, 220-240V, 50Hz	1Φ, 2Line, 220-240V, 50Hz
Compressor	Type	-	Scroll
Base Heater	Capacity	kW	0.15
Sound	Sound Pressure ⁴	Heating Std	db(A)
		Cooling Std	db(A)
Dimensions	Net Weight	kg	42
	Net Dimensions (WxHxD)	mm	56
Refrigerant	Type	tCO ₂ e	46
	Factory Charging	kg	59
Piping	Water Pipe (Space Heating)	Inlet/Outlet	Φ, mm
Operation	Ambient Temperature	Heating	°C
		Cooling	°C
		DHW	°C

* On the scale from A++ (highest efficiency) to D (lowest efficiency) ** On the scale from A+++ (highest efficiency) to D (lowest efficiency)

Accessories



	AE160DN*MPK/EU	AE160DN*MPK/EU	AE160DN*MPK/EU
	AE080BXDGG/EU	AE0120BXDGG/EU	AE0140BXDGG/EU

8.0/8.0	12.0/12.0	14.0/14.0
8.0	12.0	14.0
1.600	2.353	2.772
1.702	2.637	3.146
5.00/3.20	5.11/3.40	5.05/3.35
4.71	4.55	4.46
4.64/3.38	4.90/3.78	4.83/3.75
183/132	193/148	190/147

16.1	16.1	32.0	32.0
17.7	17.7	35.2	35.2
23.1	23.1	34.6	40.4
15-70	15-70	15-70	15-70
5-25	5-25	5-25	5-25
•	•	•	•
•	•	•	•
•	•	•	•

3Φ, 4Line, 380-415V, 50Hz	26/28 ¹	28/30 ¹	28/30 ¹
26/28 ¹	28/30 ¹	28/30 ¹	28/30 ¹
40/42 ²	42/44 ³	42/44 ³	42/44 ³
6	6	6	6
28/28	28/28	28/28	28/28
28/28	28/28	28/28	28/28
28/28	28/28	28/28	28/28
45.0/54.0 ³	45.0/54.0 ³	45.0/54.0 ³	45.0/54.0 ³
530 x 840 x 350	530 x 840 x 350	530 x 840 x 350	530 x 840 x 350

3Φ, 4Line, 380-415V, 50Hz	1.82	2.23	2.23
1.82	2.23	2.23	2.23
2.7	3.3	3.3	3.3
28/28	28/28	28/28	28/28
-30-43	-30-43	-30-43	-30-43
10-46	10-46	10-46	10-46
-30-43	-30-43	-30-43	-30-43



¹ A++ energy label is available according to EU Directive 2010/31/EC classification 2019, on a scale from A to A+++

² A2W Condition: (Heating) Water In/Out 50°C/55°C, Outdoor Air 7°C(DB)/6°C(WB); (Cooling) Water In/Out 13°C/18°C, Outdoor Air 35°C(DB).

³ A2W Condition: (Heating) Water In/Out 4°C/55°C, Outdoor Air 7°C(DB)/6°C(WB).

⁴ Standard 2-zone models.

⁵ 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 depending on operation conditions.