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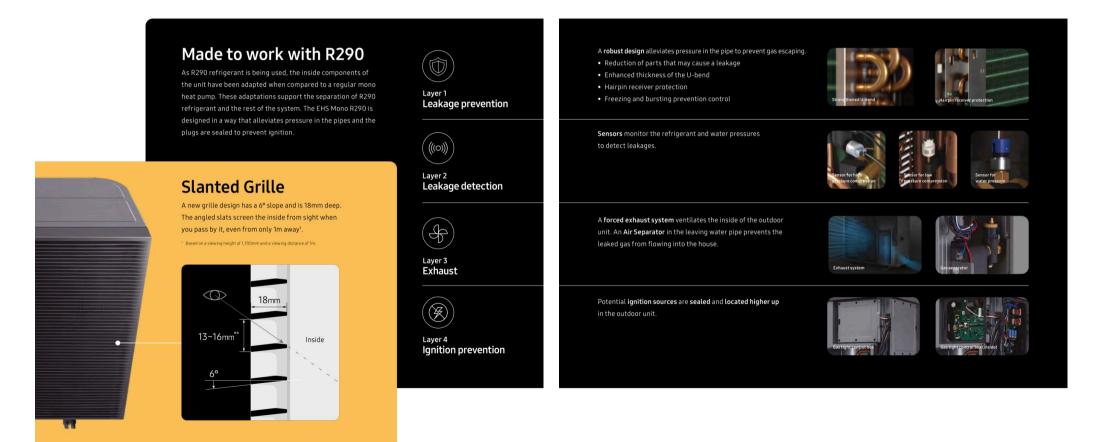
# EHS Mono R290

## **Reliable Heating**

Adverse weather conditions can impact the life span and performance of outdoor units. The EHS Mono R290 is both durable and capable of operating effectively in hot and cold environments. The chassis and heat exchanger are corrosion resistant; its base is designed to drain condensed water even in the coldest temperature and it includes antifreeze protection systems to prevent water from freezing and bursting the pipes.

# **Aesthetic Design**

The EHS Mono R290 is a compact and stylish unit. The dark gray color seamlessly blends in and complements the styling of many modern buildings. The matte dark gray horizontal guard grille conceals the internal mechanical parts allowing it to blend with the surrounding environment without drawing attention. The compact design can fit in neatly below a window.



## EHS Mono R290

Key features to achieve Low Noise are the Multi-Serration Fan, 2-layered insulation with groove grid felt, Spring grommet for the compressor mounting and Reinforced crank shaft in the compressor.

# 2-layered Insulation with Groove Grid Felt This heat pump's outdoor unit features a double-layered, sound insulation system fitted with a patented Groove Grid Felt design, which effectively blocks and absorbs noise produced by compression parts and vibrations. \*\*EHS Mono R290\*\* \*\*Noiselite-6005\*\* \*\*EHS Mono R290\*\* \*\*Noiselite-6005\*\* \*\*EHS Mono R290\*\* \*\*Noiselite-6005\*\* \*\*Patential testing of the Noiselite-6006, compared to the PET-10T. The results only relate to individual nativersals and not the whole groduct, and may vary depending on the actual usage conditions. \*\*Patential-PIZIZE-0012828.\*\*

# Multi-serration Fan¹ The combination of large serration on the inner part and a small serration on the outer part minimizes the air vortex around the wing tip and significantly reduces the noise generated by the movement of the fan. Small Serration Large Serration Minimal vortex Large yortex

# Hydrophilic Layer Acrylic Resin Anti-corrosive Layer Epoxy Acrylic Raw Aluminum Material **GI Steel Plate** The EHS R290 Mono outdoor unit uses Galvanized Iron (GI) Steel Plate with a PE powder coating of up to 100µm thickness, which is proven to improve corrosion resistance by 43%, based on the Complex Cycle Test (CCT)2. So, it protects the cabinet from rusting and ensures it can endure PE Powder Coating harsh conditions. Galvanized Iron Steel Plate Durafin™ Ultra 0 An anti-corrosive layer of epoxy acrylic and a hydrophilic layer of acrylic resin disperse water and reinforce its corrosion-resistance, which was proven using the Salt Spray Test (SST) over a period of 3,000 hours1.

Based on internal testing in accordance with \$60 2727, \$60 14993 and \$60 27207 uping specimens from the heat exchanger of an EBS outdoor affect, from the feet and continued to the state of the state o

EHS Mono R290

# Antifreeze Protection Control

In the EHS Mono R290, the hydraulic parts that provide hot water are built into the outdoor unit. As a result, the water pipe exposed to the outside conditions might freeze if it stops operating in cold weather of below 0°C¹. So, the Antifreeze Protection Control continuously monitors the operating status and the outdoor temperature, and prevents the water pipe from freezing by forcibly pumping the water after a certain period of time².

- For external water pipes, the system must use either freeze protection valves or antifreeze: Propylene Glycol with a toxicity rating of Class 1 as listed in Clinical Toxicology of Commercial Products, Sth Edition, Please refer to the installation manual or detailed antifreeze specifications. 5 for example: If it has stoped operating for 00 minutes when the
- For example, if it has stopped operating for 60 minutes when the outdoor temperature is 3°C, the pump on the water pipe side is forcibly operated to prevent the water from freezing in the water pipe.

# Energy Saving | SCOP A+++

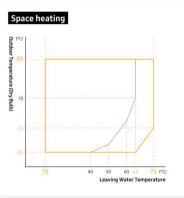
The EHS Mono R290 has an enhanced Seasonal Coefficient of Performance (SCOP) A+++ energy efficiency rating across the entire range of capacities<sup>1</sup>. It has been increased by up to 14%<sup>2</sup> compared to the conventional models, providing up to 15% greater energy efficiency than the normal criteria required for the A+++ rating. So, it is proven to operate with a high level of efficiency.

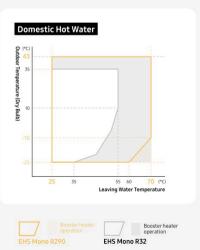
- Based on internal testing when generating 35°C water, in accordance with EN14825. Results may vary depending on the system configuration and actual usage conditions.
- actual usage conditions.

  Based on infernal testing when generating 35°C water using an EHS
  R290 Mono 5kW model, AE050CXYDEK/EU (SCOP: 5.10), compared to at
  EHS R32 Mono model of the same capacity, AE050RXYDEG/EU (SCOP:
  4 46).

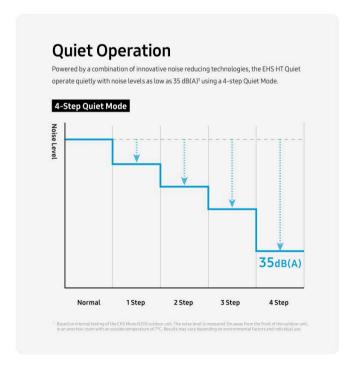
# Operates across a Wider Temperature Range

The EHS Mono R290 outdoor unit operates effectively across a much wider range of ambient temperatures. A conventional EHS Mono can generate hot water that is up to 65°C when the outdoor temperature is above  $10^\circ\text{C}$  and  $40^\circ\text{C}$  when it is -25°C outside. By comparison, the EHS Mono R290 provides hot water of  $70^\circ\text{C}$ 1, when the outdoor temperature is as low as  $-10^\circ\text{C}$ 3 and can even generate hot water of up to  $65^\circ\text{C}$ 1 if the ambient temperature drops to  $-30^\circ\text{C}$ 3.





**Low Global Warming** Potential of only 3 With EHS Mono R290, Samsung is offering an innovative solution for residentials homes. The R290 refrigerant has a much lower Global Warming Potential (GWP) compared to other refrigerants. Only 3. New EU F-Gas regulations up to mean refrigerants must not exceed 150 GWP from 2027. 2088 **GWP** 675 **GWP** 3 GWP **lower GWP** R290 R32 R410A



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https://samsung.dcatalog.com/v/EHS-ENG/?page=66

Leaving water temperature, when the outdoor temperature is between -15°C - 43°C. Results may vary depending on the actual usage conditions.

Based on a leaving water temperature of 55°C. Results may vary depending the actual usage conditions.

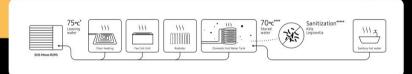
Based on internal testing. Results may vary depending on the actual usage conditions.

EHS Mono R290

# Higher Hot Water Temperature

Many older houses in Europe are still using radiators which require a hot water temperature of 65°C or higher to heat rooms effectively. The new EHS Mono R290 can consistently provide hot water of up to 75°C¹ for domestic heating purposes. The ability of the EHS Mono R290 to provide consistent hot water makes this heat pump a suitable heating system replacement in older residential spaces that have been previously dependent on gas boilers for their heating needs. Additionally, it can supply domestic hot water of up to 70°C² when the outdoor temperature is as low as -10°C without using the booster heater.

Leaving water temperature, when the outdoor temperature is between -15°C; -43°C. Results may vary depending on the actual usage conditions.
2 Domestic hot water (DHW) leaving the DHW tank is 70°C when the outdoor temperature is -10-43°C. If the outdoor temperature is lower than -10°C, a booster heater is require Results may vary depending on the actual usage conditions.



# **Enlarged Heat Transfer Area**

The EHS Mono R290 has an enlarged heat exchanger that is capable of transferring more heat at once compared to a conventional outdoor unit. Its heat transfer area is up to 39% larger. As a result, it can consume less energy to achieve the same cooling and heating performance.



Based on Samsung's measurements on an EHS Mono HT Quiet (AE120BXYDGG/EU) model compared to a conventional outdoor unit (AE120RXYDGG/EU) with the same capaci

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# **Strengthened Compression Parts**

To endure the higher pressure created by a new Scroll Compressor, the EHS R290 Mono uses strengthened compression parts. They have increased compression ratio<sup>1</sup>, while still maintaining the efficiency and reliability of the compressors.

Compression ratio = Discharge pressure/Suction pressure. Based on internal testing on an EHS Mono HT Quiet autdoor unit, compared to a conventional EHS outdoor unit. As a result, the discharger pressure has increased from 43 to 55kg/cm²G, and the compression ratio has increased from 13 to 17.





# Specifications 1/2 EHS Mono R290 (Without Pump)

- Production of hot water to a maximum temperature of 75 °C
- New Climatehub, Hydro Unit and Control kit with embedded Wi-Fi module
- Low Ambient temperature operation

- SmartThings compatible
- Premium Design
- 100% Heating Capacity at -10°C Easy installation and maintenance
- Ideal for renovation applications Generates a low noise level (35dB)









-25~35

10-46

-25-43

10~46

-25-43









			-				
		Indoor Unit			AE200DN*MPK/EU	AE200DN*MPK/EU	AE200DN*MPK/EU
		Outdoor Unit			AE200DN*MPK/EU AE050CXYDEK/EU	AE200DN*MPK/EU AE080CXYDEK/EU	AEZOODN*MPK/EU AE120CXYDEK/EU
		Controller			MIM-E03FN	MIM-E03FN	MIM-E03FN
		Controller			MIM-EUSFN	MIM-EUSFN	MIM-EUSFN
System							
Operation	Nominal	Heating A7/W351/	A7/W55 <sup>2</sup>	kW	5.0/5.0	8.0/8.0	12.0/12.0
	Capacity	Cooling A35/W181		kW	5.0	8.0	12.0
	Power Input (Nominal)	Heating A7/W351 /	A7/W55 <sup>2</sup>	kW	1.00/1.61	1.63/ 2.67	2.50/4.0
	(Nominal)	Cooling A35/W181		kW	1.280	2.050	3.000
		Heating) A7/W351/	A7/W55 <sup>2</sup>	W/W	5.1/3.10	4.91/3.00	4.80/3.00
		Cooling) A35/W181		W/W	3.91	3.90	4.00
	SCOP LWT 35			W/W	5.00/3.60	4.85/3.55	4.90/3.65
		e Heating enr.efficienc		ETA%	201 / 141	191 / 139	193 /143
		ce Heating Eff. Class*			A*** *** / A** **	A*** *** / A** **	A*** *** / A** **
	Current		MCA	A	16.1	26.0	32.0
			MFA	A	17.6	28.6	35.2
	Water Flow R		Nom	L/min	14.4	23.1	34.6
	Leaving Wate	r Temperature	Heating	°C	15-75	15-75	15-75
			Cooling	°C	5-25	5-25	5-25
Functions		Grid Ready/PV Enabled		-	•	•	•
	3-Step Quiet				•	•	•
	2-zone Contro	ol			•	•	•
	ed Hydro Unit						
Power Supply				Φ, V, Hz	1Φ, 2Line, 220-240V, 50Hz	1Ф, 2Line, 220-240V, 50Hz	1Ф, 2Line, 220-240V, 50Hz
Water Tank V				litres	200	200	200
Declared Loa				L/XL	L	L	L
	r heating effici			ETA%	148%	148%	148%
	gy Efficiency Cl			-	A+ ×	A• *	A+ ×
Sound	Sound Pressu	re¹	Heating Std	dB(A)	26/283	26/283	28/30 <sup>s</sup>
			Cooling Std	dB(A)	26/283	26/283	28/305
	Sound Power		Heating Std	dB(A)	40/423	40/423	42/443
Heater	Back-up heat		Default (Option)	kW	2 (4)	2 (4)	2 (4)
Piping	Water Pipe (Sp	ace 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 (D		Inlet/Outlet	Φ, mm	22 / 22	22 / 22	22 / 22
		econdary return)	Inlet	Φ, mm	BSPP male, 1"	BSPP male, 1*	BSPP male, 1"
Dimensions	Net Weight			kg	132 / 1423	132 / 1423	132 / 1423
	Net Dimensio	ins (WxHxD)		mm	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	10, 2Line, 220~240V, 50Hz	1Φ, 2Line, 220~240V, 50Hz	1Ф, 2Line, 220-240V, 50Hz
Compressor	Туре			-	Twin Rotary	Twin Rotary	Scroll
Base Heater	Capacity			kW	0.15	0.15	0.15
Sound	Sound Pressu	re	Heating Std	dB(A)	41	45	47
	Cooling Std		dB(A)	41	45	47	
	Sound Power		Heating Std	dB(A)	55	59	60
Dimensions	Net Weight			kg	86	98	140
	Net Dimensio	ins (WxHxD)		mm	998 x 850 x 500	998 x 850 x 500	1270 x 1018 x 530
Refrigerant	Туре				R290 (GWP=3)	R290 (GWP=3)	R290 (GWP=3)
	Factory Charg	jing		tCO₂e kg	0.002	0.003	0.004
Piping	Water Pipe /S	pace Heating)	Inlet/Outlet	Ø, mm	BSPP male 1"/BSPP male 1"	BSPP male 1"/BSPP male 1"	BSPP male 1'/BSPP male 1'
Operation	acer ripe (3	/reating/		Ψ,	and the state of t	Continue () Sont male (	Lor i mane i / boi i illete i

AE200DN*MPK/EU AE160CXYDEK/EU	AE200DN*MPK/EU AE80CXYDGK/EU	AE200DN*MPK/EU  AE120CXYDGK/EU	AE200DN*MPK/EU AE160CXYDGK/EU
MIM-E03FN	MIM-E03FN	MIM-E03FN	MIM-E03FN
16.0/16.0	8.0/8.0	12.0/12.0	16.0/16.0
14.0	8.0	12.0	14.0
3.55/5.52	1.63/ 2.67	2.50/4.0	3.55/5.52
3.680	2.050	3.000	3.680
4.51/2.90	4.91/3.00	4.80/3.00	4.51/2.90
3.80	3.90	4.00	3.80
4.70/3.55	4.85/3.55	4.90/3.65	4.70/3.55
185 / 139	191 / 139	193 /143	185 / 139
A*** *** / A** **	A*** *** / A** **	A*** *** / A** **	A*** *** / A** **
32.0	16.1	16.1	16.1
35.2	17,7	17,7	17,7
46.2	23.1	34.6	46.2
15-75	15-75	15-75	15-75
5-25	5-25	5-25	5-25
•	•	•	•
•	•	•	•
•	•	•	•
1Ф. 2Line, 220-240V, 50Hz	3Ф, 4Line, 380-415V, 50Hz	3Ф. 4Line, 380-415V, 50Hz	3Ф. 4Line. 380-415V. 50Hz
10, zcine, zzo-z40v, sonz 200	34, 4LIIIe, 380~415V, 50H2	3Ψ, 4LINE, 380-413V, 30H2	200
L	L	L	L
148%	148%	148%	148%
A• *	A• *	A• *	A• *
28/301	26/283	28/301	28/303
28/303	26/283	28/30*	28/30 <sup>s</sup>
42/443	40/423	42/443	42/443
2 (4)	6	6	6
28 / 28	28 / 28	28 / 28	28 / 28
28 / 28	28 / 28	28 / 28	28 / 28
22 / 22	22 / 22	22 / 22	22 / 22
BSPP male, 1*	BSPP male, 1"	BSPP male, 1*	BSPP male, 1"
132 / 1423	132 / 1423	132 / 1423	132 / 1423
598 x 1,850 x 600	598 x 1,850 x 600	598 x 1,850 x 600	598 x 1,850 x 600
1Ф, 2Line, 220~240V, 50Hz	3Φ, 4Line, 380~415V, 50Hz	3Ф, 4Line, 380~415V, 50Hz	30, 4Line, 380~415V, 50Hz
Scroll	Twin Rotary	Scroll	Scroll
0.15	0.15	0.15	0.15
51	45	47	51
51	45	47	51
65	59	60	65
140	98	140	140
1270 x 1018 x 530	998 x 850 x 500	1270 x 1018 x 530	1270 x 1018 x 530
R290 (GWP=3)	R290 (GWP=3)	R290 (GWP=3)	R290 (GWP=3)
0.004	0.003	0.004	0.004
1.25	0.87	1,6	1,6
BSPP male 1"/BSPP male 1"	BSPP male 1"/BSPP male 1"	BSPP male 1"/BSPP male 1"	BSPP male 1*/BSPP male 1
-25~35	-25-35	-25-35	-25-35

# Specifications 2/2 EHS Mono R290 (Without Pump)

# Accessories | Wired Remote | Centralized Touch Control Rit | Centralized Touch Control Rit | Centralized Widserver | WiFFIRIT | External Room Sensor | Backup Hoater (13kW) | Extension wire kit | 2-zone Thermistor kit | Widserver | MWR-WY10\*N | MMA-A300BN | MIM-E335N | MIM-E335N | MIM-DIAN | MIM-H04EN | MRW-TA | MHC-300FP | MWW-EE300 | MOS-TI

					9		
		Indoor Unit			AE260CNWMEG/EU	AE260CNWMEG/EU	AEZ60CNWMEG/EU
		Outdoor Unit			AE080CXYDEK/EU	AE120CXYDEK/EU	AE160CXYDEK/EU
		Controller			MIM-E03FN	MIM-E03FN	MIM-E03FN
System							
Operation	Nominal Hea	nting A7/W351/ A	7/W55²	kW	8.0/8.0	12.0/12.0	16.0/16.0
	Capacity Coo	oling A35/W181		kW	8.0	12.0	14.0
		ating A7/W351 / A	7/W55 <sup>2</sup>	kW	1.63/2.67	2.50/4.0	3.55/5.52
	COO	oling A35/W181		kW	2.050	3.000	3.680
	COP (Nominal Heati		7/W55 <sup>2</sup>	W/W	4.91/3.00	4.80/3.00	4.51/2.90
	EER (Nominal Cooli	-		W/W	3.90	4.00	3.80
	SCOP LWT 35°C/55°			W/W	4.85/3.55	4.90/3.65	4.70/3.55
	Seasonal Space Heat			ETA%	191 / 139 A*** *** / A** **	193 / 143	185 / 139 A > / A >
	Seasonal Space Hear		VT 35°C/ 55°C MCA	A	16.1	16.1	16.1
	Current		MFA	A	17,7	17,7	17,7
	Water Flow Rate		Nom	L/min	23.1	34.6	46.2
	Leaving Water Temp		Heating	°C	15-75	54.6 15-75	15-75
	coving water lemp		Cooling	°C	5-25	5-25	5-25
Functions	Smart Grid Ready/P				•	9-23	•
	3-Step Quiet Mode					•	•
	2-zone Control			-	•	•	•
Tank Integral	ted Hydro Unit						
Power Supply				Φ, V, Hz	1Ф, 2Line, 220~240V, 50Hz	1Ф, 2Line, 220~240V, 50Hz	10, 2Line, 220~240V, 50Hz
Water Tank V				litres	260	260	260
Declared Loa				L/XL	XL	XL	XL
Average wate	er heating efficiency ŋ	ywh		ETA%	103%	103%	103%
Average Ener	rgy Efficiency Class			-	A+ ×	A	_A >
ound	Sound Pressure <sup>4</sup>		Heating Std	dB(A)	26	30	30
			Cooling Std	dB(A)	26	30	30
	Sound Power		Heating Std	dB(A)	40	44	44
Heater	Back-up heater Cap		Default (Option)	kW	2 (4/6)	2 (4/6)	2 (4/6)
Piping	Water Pipe (Space He		Inlet/Outlet	Φ, mm	28/28	28/28	28/28
	Water Pipe (Space He		Inlet/Outlet	Φ, mm	9		
	Water pipe (DHW)		Inlet/Outlet	Φ, mm	22/22	22/22	22/22
	Water Pipe (Seconda	ary return)	Inlet	Φ, mm	-	-	***
Dimensions	Net Weight	11.00		kg	140	140	140
Outdoor Unit	Net Dimensions (W)	xHxO)		mm	595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700
Power Supply				Φ, V, Hz	3Φ, 4Line, 380~415V, 50Hz	1Φ, 2Line, 220~240V, 50Hz	1¢, 2Line, 220~240V, 50Hz
Power Supply Compressor				Ψ, ν, πε	Twin Rotary	IΦ, ZLINE, ZZU~Z4UV, SUHZ Scroll	Scroll
Base Heater				kW	0.15	0.15	0.15
Sound	Sound Pressure <sup>4</sup>		Heating Std	dB(A)	45	47	51
	Joanu Fresaule		Cooling Std	dB(A)	45	47	51
	Sound Power		Heating Std	dB(A)	59	60	65
Dimensions				kg	98	140	140
	Net Dimensions (W	xHxD)		mm	998 x 850 x 500	1270 x 1018 x 530	1270 x 1018 x 530
Refrigerant	Туре				R290 (GWP=3)	R290 (GWP=3)	R290 (GWP=3)
Refrigerant	Factory Charging			tCO₂e	0.003	0.004	0.004
Refrigerant	Factory Charging			kg	0.87	1.25	1.25
Refrigerant	Factory Charging			kg			
	Factory Charging Water Pipe (Space H	leating)	Inlet/Outlet	Φ, mm	BSPP male 1*/BSPP male 1*	BSPP male 1"/BSPP male 1"	BSPP male 1"/BSPP male 1"
Piping		leating)	Inlet/Outlet		BSPP male 1"/BSPP male 1"	BSPP male 1"/BSPP male 1"	BSPP male 1*/BSPP male 1*
Refrigerant Piping Operation Ambient Tem	Water Pipe (Space H		Heating	Φ, mm °C	-25~35	-25~35	-25~35
Piping Operation	Water Pipe (Space H			Φ, mm			

AE260CNWMGG/EU		AE260CNWMGG/EU
AE080CXYDGK/EU	AE260CNWMGG/EU AE120CXYDGK/EU	AE160CXYDGK/EU
MIM-E03FN	MIM-E03FN	MIM-E03FN
MINICOSITY	INIIN COSTI	MIN-LOSHV
8.0/8.0	12.0/12.0	16.0/16.0
8.0	12.0	14.0
1.63/2.67	2.50/4.0	3.55/5.52
2.050	3.000	3.680
4.91/3.00	4.80/3.00	4.51/2.90
3.90	4.00	3.80
4.85/3.55	4.90/3.65	4.70/3.55
191 / 139	193 / 143	185 / 139
A*** *** / A** **	A*** *** / A** **	A*** *** / A** **
16.1	16.1	16.1
17,7	17,7	17,7
23.1	34.6	46.2
15-75	15-75	15-75
5-25	5-25	5-25
' <b>•</b>	•	•
	•	•
•	•	
3Ф, 4Line, 380~415V, 50Hz	1Ф, 2Line, 220~240V, 50Hz	1Ф, 2Line, 220~240V, 50Hz
260	260	260
XL	XL	XL
103%	103%	103%
A+ *	Α	A
26	30	30
26	30	30
40	44	44
6	6	6
28/28	28/28	28/28
2		
22/22	22/22	22/22
	2	
140	140	140
595 x 1,800 x 700	595 x 1,800 x 700	595 x 1,800 x 700
3Ф, 4Line, 380~415V, 50Hz	3Φ, 4Line, 380~415V, 50Hz	3Ф, 4Line, 380~415V, 50Hz
Twin Rotary	Scroll	Scroll
0.15	0.15	0.15
45	47	51
45	47	51
59	60	65
98	140	140
998 x 850 x 500	1270 x 1018 x 530	1270 x 1018 x 530
R290 (GWP=3)	R290 (GWP=3)	R290 (GWP=3)
0.003	0.004	0.004
0.87	1.25	1.25
BSPP male 1"/BSPP male 1"	BSPP male 1"/BSPP male 1"	BSPP male 1"/BSPP male 1"
-25~35	-25~35	-25~35
10-46	10-46	10-46

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A HANDER OF THE BOD CENTRAL PROPERTY OF THE BOD CENTRAL PR

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) \*\*\*

# Specifications EHS Mono R290 (Without Pump)

- Production of hot water to a maximum temperature of 75 °C
- New Climatehub, Hydro Unit and Control kit with embedded Wi-Fi module
- Low Ambient temperature operation



- SmartThings compatible
- 100% Heating Capacity at -10°C
- Premium Design Ideal for renovation applications
- Easy installation and maintenance Generates a low noise level (35dB)



	Indoor Unit			AE160DN*MPK/EU	AE160DN*MPK/EU	AE160DN*MPK/EU		
		Outdoor Unit			AE050CXYDEK/EU	AE080CXYDEK/EU	AE120CXYDEK/EU	
		Controller			MIM-E03FN	MIM-E03FN	MIM-E03FN	
System								
Operation	Nominal Capacity	Heating A7/W351/	A7/W55 <sup>2</sup>	kW	5.0/5.0	8.0/8.0	12.0/12.0	
		Cooling A35/W181		kW	5.0	8.0	12.0	
	Power Input (Nominal)	Heating A7/W351	A7/W55*	kW	1.00/1.61	1.63/ 2.67	2.50/4.0	
		Cooling A35/W181		kW	1.280	2.050	3.000	
		Heating) A7/W351 Cooling) A35/W181		W/W W/W	5.1/3.10 3.91	4.91/3.00 3.90	4.80/3.00	
	SCOPLWT 35°C	-		W/W	5.00/3.60	4.85/3.55	4.90/3.65	
			cy ηs LWT35°C/55°C	ETA%	201 / 141	191/139	193 /143	
		Heating Eff. Class*		LIAN	A*** *** / A** **	A*** *** / A** **	A*** *** / A** **	
	Current	Treating En. Class	MCA	A	16.1	26.0	32.0	
	Current		MFA	A	17.6	28.6	35.2	
	Water Flow Rat	ie.	Nom	L/min	14.4	23.1	34.6	
	Leaving Water		Heating	°C	15-75	15-75	15-75	
	ceaving water	remperature	Cooling	**	5-25	5-25	5-25	
Functions	Smart Grid Rea	dy/DV Fnahled	cooting		•	•	•	
Tuncuons	3-Step Quiet M				•			
	2-zone Control				•			
Wall-Mounte								
Power Suppl				Φ, V, Hz	10, 2Line, 220~240V, 50Hz	1Ф, 2Line, 220~240V, 50Hz	10, 2Line, 220~240V, 50Hz	
Sound	Sound Pressure	p1	Heating Std	dB(A)	26/283	26/283	28/303	
			Cooling Std	dB(A)	26/283	26/283	28/305	
	Sound Power		Heating Std	dB(A)	40/423	40/423	42/445	
Heater	Back-up heate	r Capacity	Default (Option)	kW	2 (4)	2 (4)	2 (4)	
Piping	Water Pipe (Spa	ce Heating primary)	Inlet/Outlet	Φ, mm	28/28	28/28	28/28	
	Water Pipe (Spa	ce Heating 2-zone)	Inlet/Outlet	Φ, mm	28/28	28/28	28/28	
	Water pipe (DH	IW)	Inlet/Outlet	Φ, mm	28/28	28/28	28/28	
	Water Pipe (Se	condary return)	Inlet	Φ, mm	28/28	28/28	28/28	
Dimensions	Net Weight			kg	43.0/54.03	43.0/54.03	43.0/54.03	
	Net Dimension	s (WxHxD)		mm	530 x 840 x 350	530 x 840 x 350	530 x 840 x 350	
Outdoor Unit								
Power Suppl	y			Φ, V, Hz	10, 2Line, 220-240V, 50Hz	1Ф, 2Line, 220~240V, 50Hz	1Φ, 2Line, 220~240V, 50Hz	
Compressor	Туре				Twin Rotary	Twin Rotary	Scroll	
Base Heater				kW	0,15	0,15	0,15	
Sound	Sound Pressure	B <sub>4</sub>	Heating Std	dB(A)	41	45	47	
			Cooling Std	dB(A)	41	45	47	
	Sound Power		Heating Std	dB(A)	55	59	60	
Dimensions	Net Weight			kg	86	98	140	
	Net Dimension	s (WxHxD)		mm	998 x 850 x 500	998 x 850 x 500	1270 x 1018 x 530	
Refrigerant	Туре				R290 (GWP=3)	R290 (GWP=3)	R290 (GWP=3)	
	Factory Chargi	ng		tCO₂e	0,002	0,003	0,004	
m1 -1				kg	0,63	0,87	1,25	
Piping	Water Pipe (Sp.	ace Heating)	Inlet/Outlet	Φ, mm	BSPP male 1"/BSPP male 1"	BSPP male 1"/BSPP male 1"	BSPP male 1"/BSPP male 1"	
Operation			Markle -	°C	25.75	26.76	25.35	
Ambient Ten	perature		Heating		-25-35 10-46	-25-35 10~46	-25-35 10-46	
			Cooling	°C	10-46 -25-43	10~46 -25~43	10-46 -25-43	

Act	200	sori	DC
7	-63	301 I	CJ



















ote	Centralized Touch Controller	Mono Control Kit	DMS2.5 - Centralized Web server	Wi-Fi Kit	External Room Sensor	Backup Heater (3kW)	Extension wire kit	2-zone Thermistorkit	
0*N	MCM-A300BN	MIM-E03FN	MIM-D01AN	MIM-H04EN	MRW-TA	MHC-300FP	MVW-EE300	MOS-T1	

3		(30)	3
AE160DN*MPK/EU AE160CXYDEK/EU	AE160DN*MPK/EU AE80CXYDGK/EU	AE160DN*MPK/EU AE120CXYDGK/EU	AE160DN*MPK/EU AE160CXYDGK/EU
MIM-E03FN	MIM-E03FN	MIM-E03FN	MIM-E03FN
16.0/16.0	8.0/8.0	12.0/12.0	16.0/16.0
14.0	8.0	12.0	14.0
3.55/5.52	1.63/ 2.67	2.50/4.0	3.55/5.52
3.680	2.050	3.000	3.680
4.51/2.90	4.91/3.00	4.80/3.00	4.51/2.90
3.80	3.90	4.00	3.80
4.70/3.55	4.85/3.55	4.90/3.65	4.70/3.55
185 / 139	191 / 139	193 /143	185 / 139
A*** *** / A** **	A*** *** / A** **	A*** *** / A** **	A*** *** / A** **
32.0	16.1	16.1	16.1
35.2	17,7	17,7	17,7
46.2	23.1	34.6	46.2
15-75	15-75	15-75	15-75
5-25	5-25	5-25	5-25
•	•	•	•
•	•	•	•
	•	•	
10, 2Line, 220~240V, 50Hz	30, 4Line, 380~415V, 50Hz	3Φ, 4Line, 380~415V, 50Hz	3Ф, 4Line, 380~415V, 50Hz
28/30*	26/283	28/301	28/303
28/30*	26/28*	28/30*	28/30*
42/443	40/423	42/445	42/443
2 (4)	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
28/28 43.0/54.03	28/28 43.0/54.03	28/28 43.0/54.03	28/28 43.0/54.03
530 x 840 x 350	530 x 840 x 350	530 x 840 x 350	530 x 840 x 350
1Ф, 2Line, 220~240V, 50Hz	3Φ, 4Line, 380~415V, 50Hz	3Ф, 4Line, 380-415V, 50Hz	3Ф, 4Line, 380~415V, 50Hz
Scroll	Twin Rotary	Scroll	Scroll
0,15	0,15	0,15	0,15
51	45	47	51
	45	47	51
65	59	60	65
140	98	140	140
1270 x 1018 x 530	998 x 850 x 500	1270 x 1018 x 530	1270 x 1018 x 530
R290 (GWP=3)	R290 (GWP=3)	R290 (GWP=3)	R290 (GWP=3)
0,004	0,003	0,004	0,004
1,25	0,87	1,6	1,6
BSPP male 1"/BSPP male 1"	BSPP male 1"/BSPP male 1"	BSPP male 1"/BSPP male 1"	BSPP male 1"/BSPP male 1"
-25-35	-25-35	-25-35	-25-35
10-46	10-46	10-46	10~46
10.40	10.40	10-40	10 40

-25-43