



ECO GREEN
ENERGY SOLUTIONS
GROUP LTD

ZERO CARBON TECHNOLOGY COMPANY

Sales Proposal

Prepared for:
Ganga

Dear Ganga,

Thank you for the opportunity to present you with a heat pump quotation.

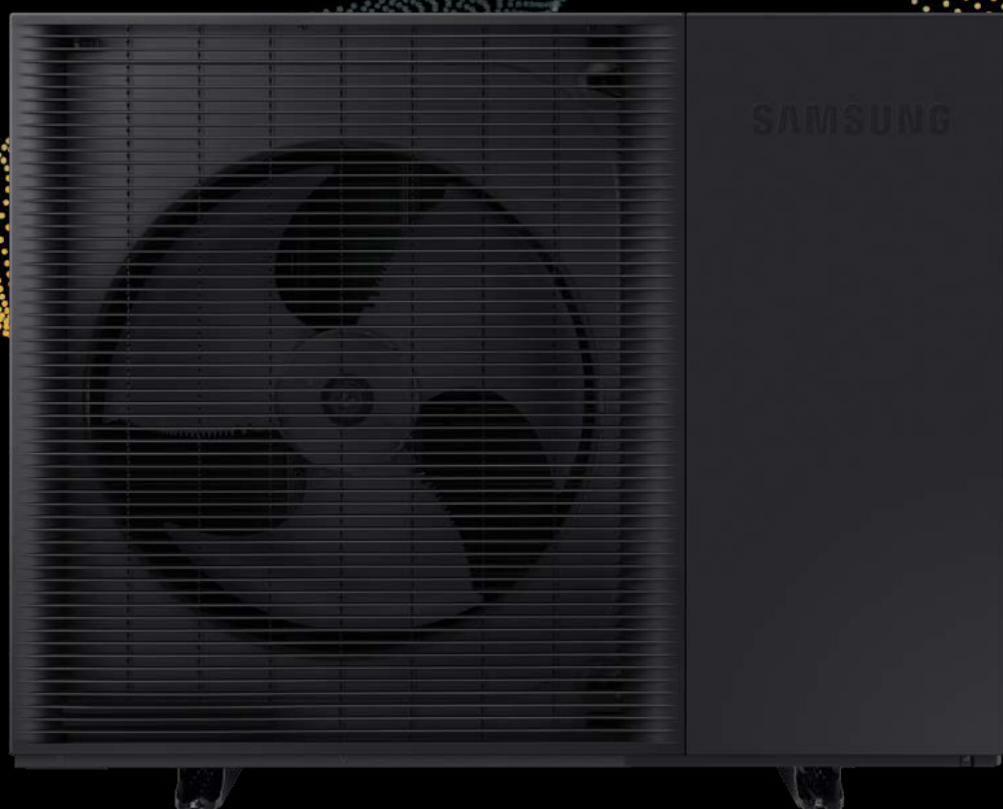
Why Choose a Heat Pump

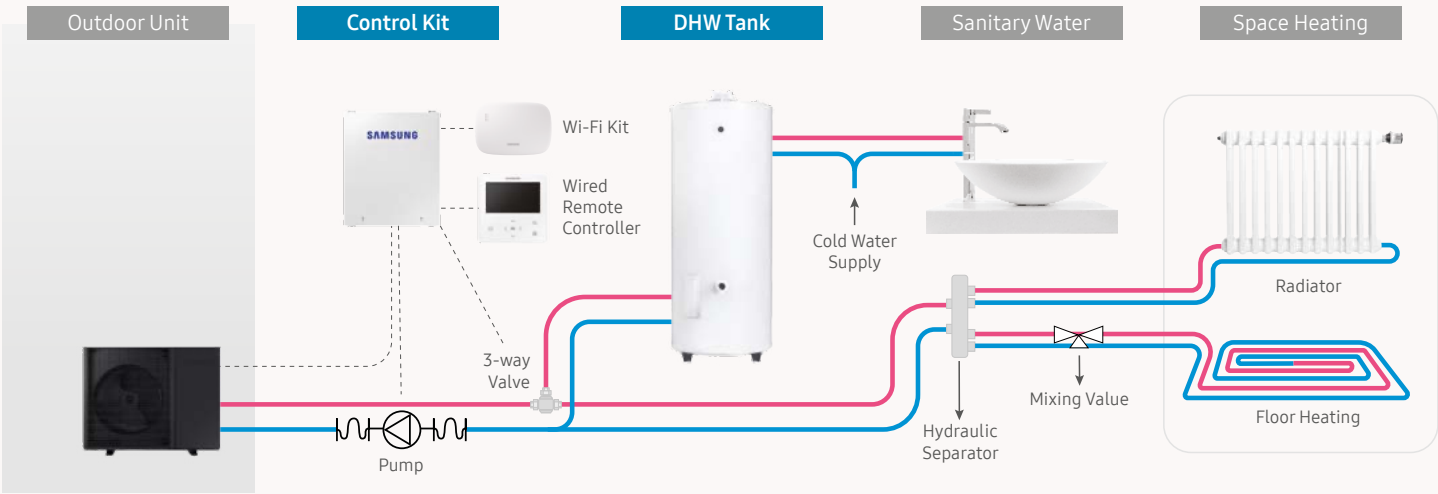
We are all living in an era where sustainability and the future of our planet are increasingly important and prominent factors in our day to day lives. From reducing waste and recycling more materials through to larger measures which reduce greenhouse gas emissions, there are lots of different ways for human activities to be less harmful on the environment.

The Government has set a target to achieve Net Zero carbon emissions by 2050 and to achieve this goal, home heating systems up and down the country need to be made more efficient and de-carbonised. Air source heat pumps are one of the answers which can help homes to no longer be solely reliant on fossil fuels for heating. A Heat Pump, for example, can provide homeowners with a sustainable, efficient and cost-effective solution to heat their homes with renewable energy, helping them to significantly reduce their carbon footprint and enjoy the wider benefits of a cleaner heat source.

Start your journey to Net Zero and embrace renewable energy within your home by installing an Air Source Heat Pump. Together, if we all rise to the challenge, we can make our lives more sustainable and create a greener future for the next generation.







Samsung EHS Mono R290 12kW AE120CXYDEK/AE120CXYDGK

Global Warming Potential (GWP) of 3

The EHS Mono R290 can be used with the Samsung ClimateHub or connected to third party equipment such as a Domestic Hot Water (DHW) Tank thanks to the Samsung Mono control kit.



Outdoor Unit		Indoor Unit	Control/Interface			
						
5.0/8.0kW (R290)		12.0/16.0kW (R290)	ClimateHub (200/260L)	Mono Control Kit	Wi-Fi Kit	Wired Remote Controller
						DMS2.5

Specifications

			AE120CXYDEK	AE120CXYDGK
Capacity				
Capacity*	Heating (A7/W35)	kW	12.0	12.0
Performance				
Leaving Water Temperature	Heating	°C	15-75	15-75
Efficiency	SCOP Class (35°C)		A+++	A+++
	SCOP Class (55°C)		A++	A++
Sound Pressure**	Normal	dB(A)	47	47
	Quiet Mode	dB(A)	35	35
Operating Temperature Range	Heating	°C	-25~35	-25~35
Electrical Data				
Power Supply		Φ, V	1Φ, 2Line, 220~240V, 50Hz	3Φ, 4Line, 380~415V, 50Hz
Refrigerant				
Refrigerant Type			R290 (GWP=3)	R290 (GWP=3)
Water Pipe	Inlet/Outlet	mm	BSPP male 1"/BSPP male 1"	BSPP male 1"/BSPP male 1"
Dimensions				
Net Dimensions	W x H x D	mm	1270 x 1018 x 530	1270 x 1018 x 530

The available line-up, including capacities and models, may vary by region. Features and specifications are subject to change without notice.

* A2W Condition: (Heating) Water In/Out 30°C/35°C, Outdoor Air 7°C [DB] /6°C [WB]; Outdoor Air 35°C [DB].

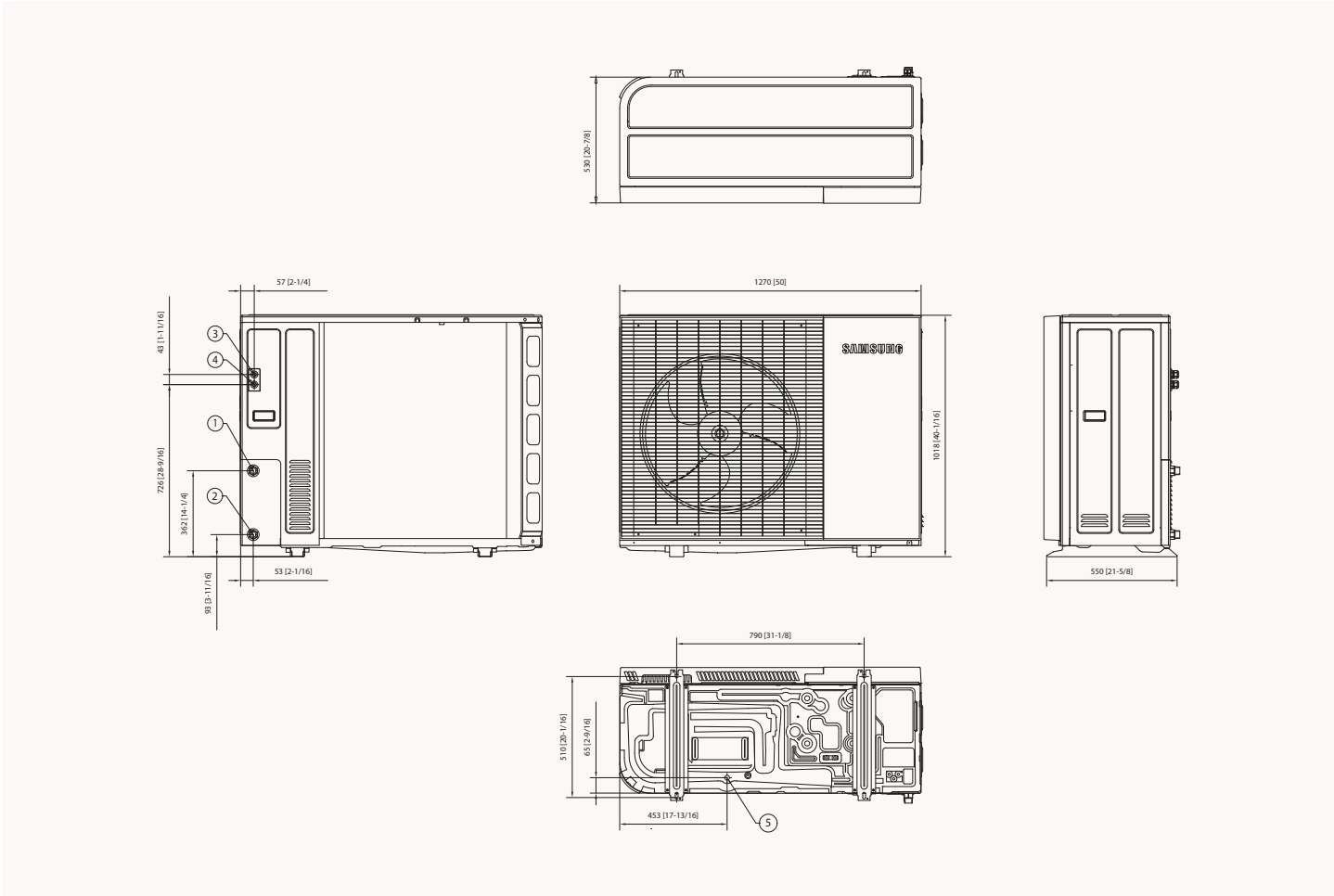
** Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ depending on operation conditions.



PV enabled & Smart Grid Ready

It optimises the self-consumption of electricity produced by photovoltaic panels.

Connection is already prepared on the hydronic modules and in the ClimateHub and Samsung EHS systems.



Datasheet

Samsung EHS Gen 7 R290

AE**0CXYD*K/EU



	5kW	8kW	12kW	16kW
Product Code	AE050CXYDEK/EU	AE080CXYDEK/EU	AE120CXYDEK/EU	AE160CXYDEK/EU
Heating and Cooling (°C)				
Min. heating flow temp	15	15	15	15
Max. heating flow temp	75	75	75	75
Min. cooling flow temp	5	5	5	5
Max. cooling flow temp	25	25	25	25
MCS listed SCOPS				
@ 35°C	4.84	4.66	4.73	4.57
@ 40°C	4.49	4.35	4.42	4.29
@ 45°C	4.14	4.04	4.12	4.00
@ 50°C	3.78	3.72	3.82	3.72
@ 55°C	3.42	3.41	3.51	3.43
@ 60°C	3.18	3.15	3.17	3.12
@ 65°C	2.93	2.89	2.84	2.81
MCS Certification #				
w/ MIM-E03EN	011-1W0686_1	011-1W0687_1	011-1W0685_1	011-1W0685_2
w/ 200L climate hub	011-1W0686_2	011-1W0687_2	011-1W0685_3	011-1W0685_4
w/ 260L climate hub	-	011-1W0688_2	011-1W0684_3	011-1W0684_6
Dimensions (mm)				
Height	850	850	1018	1018
Width	998	998	1270	1270
Depth	500	500	530	530
Additional Data				
Weight (kg)	86.0	98.0	140.0	140.0
Min. flow rate (L/min)	7	7	7	7
Max. flow rate (L/min)	48	48	58	58
Sound Power Level (dB(A))	55	59	60	65
Refrigerant	R290	R290	R290	R290
Refrigerant charge (kg)	0.63	0.87	1.25	1.25



Boiler Upgrade Scheme

The government is providing grants to encourage property owners to install low carbon heating systems such as heat pumps, through the Boiler Upgrade Scheme (BUS). These grants can help property owners overcome the upfront cost of low carbon heating technologies.

The scheme is open to domestic and small non-domestic properties in England and Wales. It runs from 2022 to 2025.

What will you get ?

You can get £7,500 off the cost and the installation of an air source heat pump



When will the Boiler Upgrade scheme be available to the consumers?

The scheme is available for 3 years and grants will be available from April 2022.

How do you apply for the scheme?

The voucher application will be installer-led and consists of 2 stages.

Stage 1: Pre- Installation

- The installer must receive instruction from the home owner to carry out the installation and to apply for the BUS
- The installer will apply for a voucher and undergo eligibility checks. The installer will also have to supply information about the technology type, the property owners postcode and contact details.

Ofgem will then contact the home owner to confirm their consent
Ofgem will assess the application and once satisfied , a voucher will be issued.

Stage 2 : Post- Installation

Installer will complete the installation
The installer will provide evidence of the installation to redeem the voucher
Ofgem will pay the grant to the installer

Eligibility Requirements

The commissioning date must be after 1st April 2022
The installers must be MCS Certified
There is a 45kwth total capacity limit
Heat pump must have a Seasonal Coefficient of Performance (SCOP) of 2.8
Heat pumps must meet approved standards by secretary of state
The EPC must be valid (no longer than 10 years old) and have no recommendations to install cavity wall insulation unless exempt

If you are claiming other grants of funding

You can still apply if you've received separate funding for energy efficiency upgrades such as insulation, doors or windows.

