

Product Release

Kensa Evo Series



FIND OUT MORE ABOUT THE

KENSA EVO SERIES

The evolutionary new ground
source heat pump from Kensa

ERP A++ RATED

REFORMED FOR INSTALLERS

15% EFFICIENCY GAIN

TRANSFORMED FOR END USERS

CALL 0845 680 4328 TO ORDER

www.kensaheatpumps.com

Version 2

Introducing the evolutionary and award-winning Kensa Evo Series



Kensa Heat Pumps is proud to release a completely new range of evolutionary heat pumps; the Evo Series. The Evo is a stylish, performance enhanced, easy to install ground source heat pump and a natural evolution of Kensa's award-winning Compact product range

Designed in response to market requirements, the new improved product brings together the best of new heat pump technologies, improving efficiency whilst still retaining Kensa's ideal of ease of installation. It is packaged in a contemporary contoured gunmetal and gloss-white finish.

Watch our technical video

Learn how easy the Evo is to install:

www.kensaheatpumps.com/evo-series-instructional-video/



Show this promotional advert

Give customers a sneak peek of the Evo:

www.kensaheatpumps.com/evo-series-advert/



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Pioneering Engineering

Offering a 15 per cent gain in efficiency* in order to minimise running costs and maximise income via the Government's Renewable Heat Incentive (RHI), the Kensa Evo is available in 7kW, 9kW, 13kW and 17kW single phase models and a 15kW three phase model.

*against equivalent Kensa Compact units

Key Benefits



- ✓ ErP A++
- ✓ SCOPs of up to 4.7 at 35°C
- ✓ Maximises RHI income
- ✓ 60°C domestic hot water
- ✓ Superior acoustic performance
- ✓ Custom built control panel
- ✓ Designed for easy installation
- ✓ Stylish yet durable design



Product and Pricing

Model	Part No	List Price
7kW Evo single compressor single phase ground source heat pump*	K070-S1H	£5,500
9kW Evo single compressor single phase ground source heat pump*	K090-S1H	£6,000
13kW Evo single compressor single phase ground source heat pump*	K130-S1H	£6,500
17kW Evo single compressor single phase ground source heat pump*	K170-S1H	£8,000
15kW Evo single compressor three phase ground source heat pump*	K150-3SH	£7,000

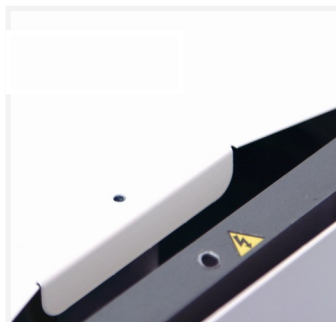
*The standard Kensa 5 year warranty applies

Heat Pump Features and Benefits

The Evo has been designed to be easy to handle and install, incorporating advances in acoustic insulation and vibration reduction.

As well as featuring larger heat exchangers, a suction line heat exchanger and more efficient water pump control, the Evo is also supplied with a brand new Genesis System Manager.

Feature	Benefit
New touch screen Genesis System Manager	Easy commissioning and unit interrogation
Simple wiring terminals on main PCB board	Easy installation and lower installation costs
Anti-vibration chassis and improved insulation	Industry-leading noise reduction
Electrical meter fitted	Easy interrogation of high running cost claims
Weather compensation	Reduced running costs and easy set up
Rear cut outs	Enable site flexibility for vertical and horizontal pipe exit points
Rear water connectors with push fit compatibility	Quicker installation
Cross head screw access	Ease of access to electrical component and wiring terminals
Optimised sized stainless steel heat exchangers	<ul style="list-style-type: none"> Increased Seasonal Coefficient of Performance (ErP SCOP) to 4.7 at 35°C, Delivers 60°C domestic hot water, Higher RHI benefits and lower running costs



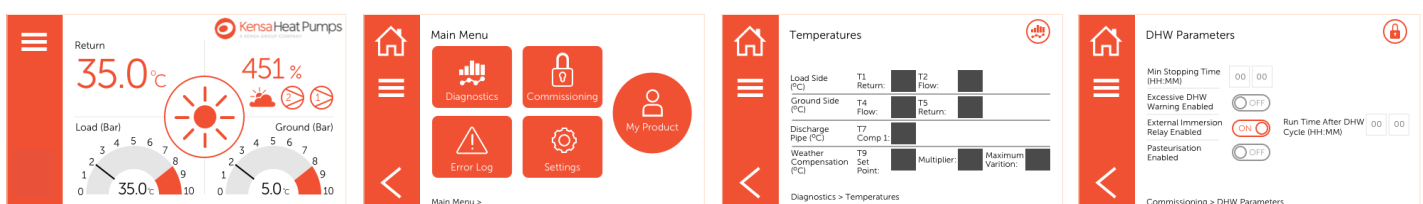
Genesis System Manager—Features and Benefits

Introducing the world's first controller dedicated to ground source heat pumps.

Exclusive to Kensa, the Evo's Genesis System Manager provides the installer with an easy to use intuitive display with an industry-first live 'CoP' readout, enabling energy saving features and easy commissioning. As well as this, the controller has a wealth of in-built diagnostics and pre-emptive warnings and alarms.

'Off the shelf' controllers failed to meet the functionality demanded by Kensa's product development team, so they developed a bespoke system manager including state of the art touch screen display and custom built control board.

Features	Benefits
Better diagnostic features	Issues can easily be identified, faster system resolution, reducing costs and potential call outs
'Underfloor pump stop function' stops underfloor heating pump in DHW mode / Reduced pump speeds in standby mode	Lower energy consumption and running costs
Legionella boost/immersion heater control	Legionella control and improved efficiency for DHW
Bivalent/supplementary heating control	The Evo can control a secondary heat source
Adjusted height of controls	At a higher level for ease of reading and installation
Pulse inputs	Central position to record other meter readings
Second heating signal	Allows two tier temperature control which can reduce running costs
Compressor performance indication	Indication of early compressor and maintenance
Pump exercise routine	Removes the issue of sticking pumps during periods of non-operation and hence saves maintenance



Increased efficiencies

ERP A++ rated, the Evo Series delivers heating and hot water to 60°C with efficiencies of ErP SCOPs up to 4.7 at 35°C.

Nominal kW rating	Model Number	Power Supply (Phases)	Compressor	Energy Rating @ 35C	Energy Rating @ 55C	35		55	
						h_{sshe}	ErP SCoP	h_{sshe}	ErP SCoP
7	K070-S1H	Single	Single	A++	A++	181%	4.72	140%	3.70
9	K090-S1H	Single	Single	A++	A++	178%	4.64	137%	3.62
13	K130-S1H	Single	Single	A++	A++	168%	4.40	131%	3.48
17	K170-S1H	Single	Single	A++	A+	161%	4.21	120%	3.21
15	K150-S3H	Three	Single	A++	A++	171%	4.47	135%	3.58

h_{sshe} — seasonal space heating energy efficiency

ErP SCoP—Seasonal COP according to ErP



ErP Labels

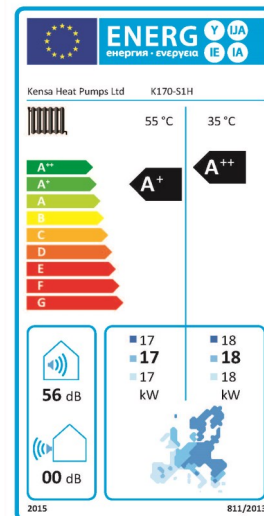
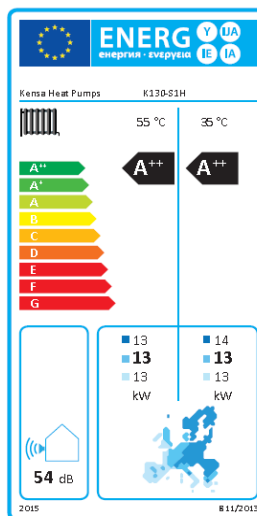
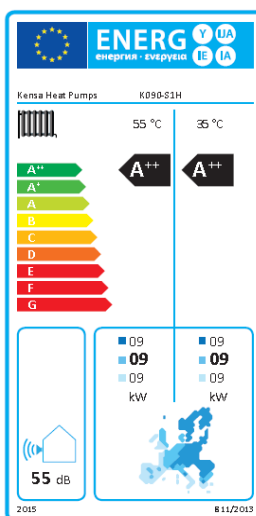
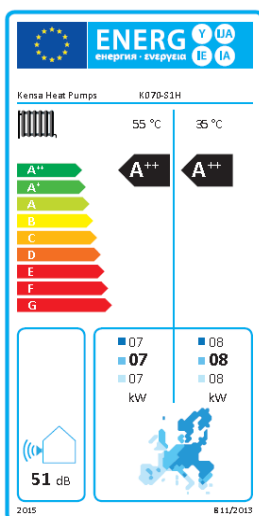
7kW Evo
Single phase

9kW Evo
Single phase

13kW Evo
Single phase

17kW Evo
Single phase

15kW Evo
Three phase



MCS Product Approval Numbers

The MCS product approval numbers for the Evo Series are as listed:

K070-S1H	BBA0055/36
K090-S1H	BBA0055/37
K130-S1H	BBA0055/38



MCS SCoP Figures

Flow Temperature	MCS SCOP K070-S1H (equivalent to SPF3 SEPEMO SH only)	MCS SCOP K090-S1H (equivalent to SPF3 SEPEMO SH only)	MCS SCOP K130-S1H (equivalent to SPF3 SEPEMO SH only)
35	4.49	4.27	4.09
36	4.44	4.21	4.05
37	4.39	4.16	4.01
38	4.34	4.10	3.97
39	4.28	4.05	3.93
40	4.23	4.00	3.89
41	4.18	3.94	3.85
42	4.13	3.89	3.80
43	4.08	3.83	3.76
44	4.03	3.78	3.72
45	3.98	3.73	3.68
46	3.92	3.67	3.64
47	3.87	3.62	3.60
48	3.82	3.56	3.55
49	3.77	3.51	3.51
50	3.72	3.46	3.47
51	3.66	3.40	3.43
52	3.61	3.35	3.39
53	3.56	3.29	3.34
54	3.51	3.24	3.30
55	3.46	3.18	3.26

Further information

Associated Equipment

The Evo is fully compatible with the full range of associated equipment such as slinkies, buffer vessels and hot water cylinders, see www.kensaheatpumps.com/products/accessories/.

The price list, available on request, includes the standard packages as previously detailed for the Compact.

For hot water cylinders the standard sizing based on kW output is still valid, i.e. a recommended 0.25m²/kW. Therefore the 7kW will need 1.75m² surface area of coil, the 9kW 2.25m² of surface area and the 13kW 3.25m² of surface area.



Supporting documents

Technical Application Sheets & Manuals



To access the full technical details for the new Kensa Evo Series, please download our Technical Information Sheet, here: www.kensaheatpumps.com/evo-series-tis



To access a user guide for the new Kensa Evo Series, please download our the User Manual, here: www.kensaheatpumps.com/evo-heat-pump-user-manual-v1-0/



To access installation information for the new Kensa Evo Series, please download our Manual, here: www.kensaheatpumps.com/evo-heat-pump-ic-manual

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