

System S.

Air-to-water split heat pump system.

A Part L Solution for residential new build.



System S.

A split heat pump system.

The sustainable solution for intelligent heating.

The new split air-to-water heat pump System S by Dimplex is a flexible and versatile solution for heating and hot water generation in new build properties.

System S is a split air-to-water heat pump system for domestic heating control. Created by Dimplex, it is ideally suited for energy efficient heating and hot water in new build properties. It has been designed as a low carbon, high efficiency system for detached and semi-detached houses, with the indoor unit benefitting from plug and play installation and simple controls for intuitive operation. Utilising intelligent inverter technology, the system can operate in outdoor temperatures down to -25°C producing hot water up to 60°C.

The solution uses R32 Refrigerant, which has a low GWP. This creates a more environmentally friendly solution which improves the building's carbon footprint. The indoor unit has a compact footprint of 595 x 600mm and contains everything required for heating control within the dwelling, including a 210l hot water cylinder. The system is available in 6 kW and 10 kW output sizes.

Your advantages with System S:

1

Suitable for a range of applications

Available in two output sizes and equipped with modern inverter technology to supply heating and hot water to new residential dwellings.

2

High efficiency

Utilising efficient operation to produce low carbon hot water up to 60 °C and remain operational in outdoor temperatures as low as -25 °C. It offers cost effective energy with a COP up to 5 (A7/W35).

3

Smart operation

Via the Dimplex Home App, which allows occupants easy control on the go. The premium version allows installers to access automatic notification in the event of faults, graphical evaluation of device data and troubleshooting help.

4

Environmentally friendly

Thanks to the low GWP R32 Refrigerant and a maximum filling quantity of 1.8kg.

5

Space-saving

With a maximum height of 865mm for the 10kW and 712mm for the 8kW outdoor unit. The indoor unit has a footprint of just 595 x 600mm and has been designed to be 'plug and play' with key features and components integrated for rapid installation time into the building surroundings.



Compact outdoor unit

Due to a space-saving design and modern colour scheme, the outdoor unit can integrate harmoniously into the surroundings of the building.

System S: Outdoor unit.

Compact and powerful for low carbon homes.

Efficient and powerful operation.

Thanks to inverter technology, System S intelligently adapts to the heating and hot water requirements of the dwelling, remaining operational in temperatures as low as -25°C .

Sustainable design for low carbon homes.

It has been designed to use R32 Refrigerant (a low GWP refrigerant with very low potential impact on the depletion of the ozone layer and global warming compared to traditional refrigerants) and operate with a COP up to 5 (A7/W35).

Suitable for a range of projects.

System S is available in two output sizes, 6kW and 10kW, with a maximum refrigerant charge of 1.8kg. Designed for discrete fitting, the 6kW and 10kW units have a total height of 712mm and 865mm respectively, making them able to sit below the height of a conventional UK windowsill.



Dimensions.

6kW outdoor unit

Weight: 60kg



1008mm



426mm

712mm

10kW outdoor unit

Weight: 78.5kg



1118mm



523mm

865mm



1850mm

Designed for quiet operation.

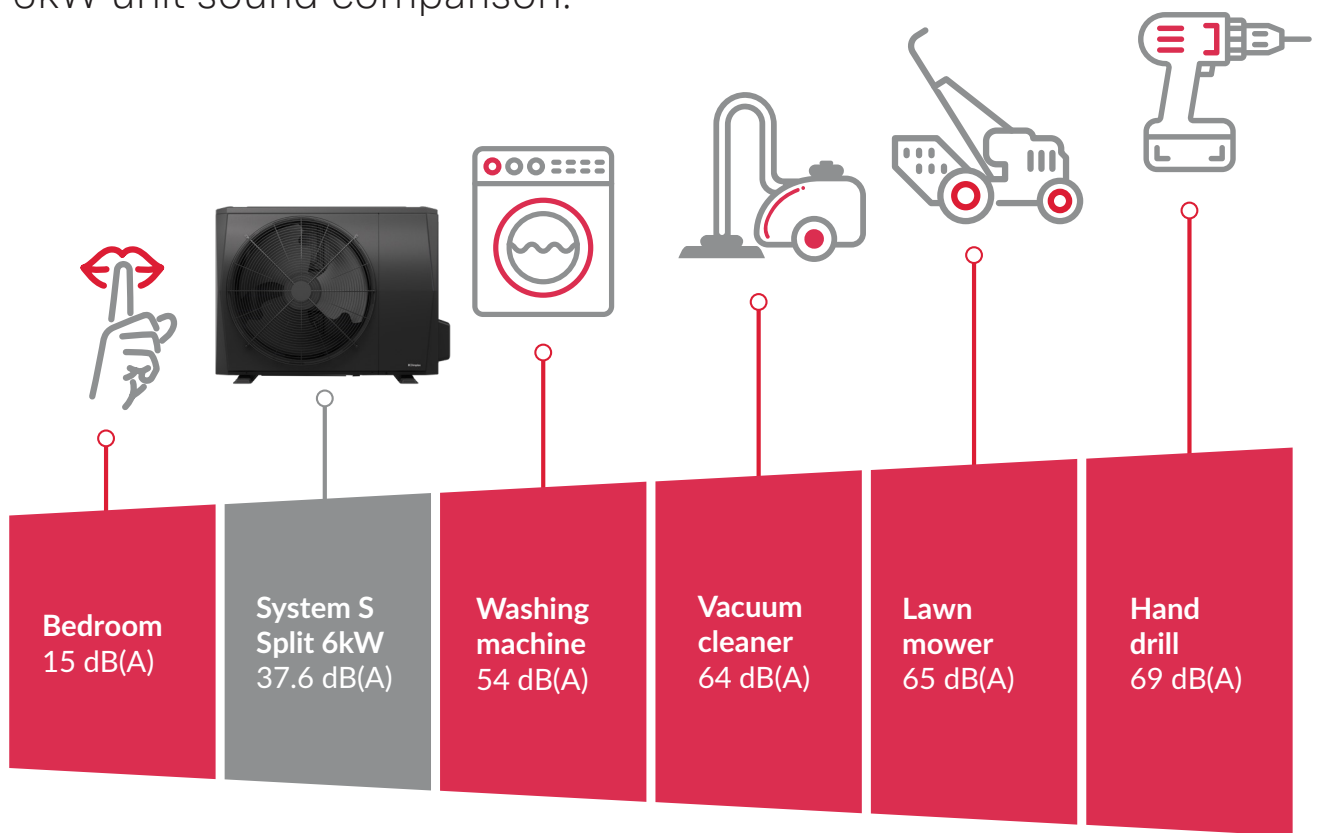
System S has been designed to be acoustically non-intrusive, making it ideal for projects where density is a consideration.

Noise (Sound Power - EN 14825)

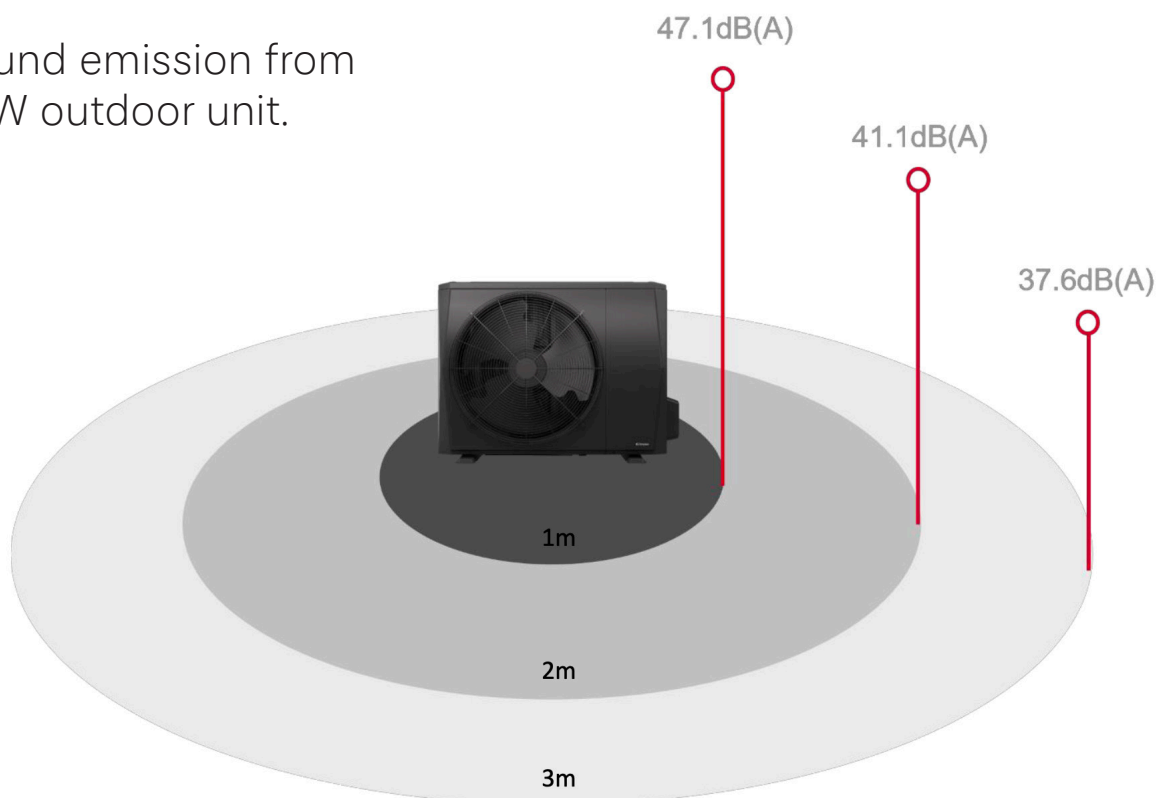
	6kW	10kW
Heating A7/W35	58 dB(A)	60 dB(A)
Quiet Mode	53 dB(A)	55 dB(A)



6kW unit sound comparison.



Sound emission from 6kW outdoor unit.



Above diagrams demonstrates Sound Pressure at 3m A7/W55.

Technical data.

Refrigerant lines.

Efficient and powerful operation.

The maximum pipe length between indoor and outdoor unit is 15m. Units are prefilled up to 15m. The 6kW and 10kW units are prefilled with 1.5Kg and 1.8Kg of refrigerant respectively.

Piping dimensions.

Standard length 15m. 1/4" and 5/8" for the 6kW variant. 3/8" and 5/8" for the 10kW variant. The heat pump uses flared connections to connect the pipework to the indoor and the outdoor units.

Installation.

Installations containing refrigerant must be carried out by a registered F-gas installer. The installation must adhere to local building codes.

Water free.

The outdoor unit contains no water so there's no need to add Glycol.



System S: Indoor unit.

Simplified installation.

Space saving and modern.

The System S indoor unit features a sleek, contemporary design that allows for seamless integration into modern living spaces. With a space requirement of just 595 x 600mm, this compact indoor unit requires a minimal footprint.

A ready made heat pump system.

It contains everything required for heating control within residential dwellings. In addition to the heating function, all necessary hydraulic components and a 210l hot water tank are built into the unit.

NOTE: A separate 25l buffer should be installed alongside the indoor unit.

Plug and Play.

Or, in other words, “connect and go”. With System S, installation time is reduced to a minimum with all the necessary components integrated within the unit. The connections are made from above the unit.

Extremely simple operation thanks to touch display.

The heat pump system is operated easily and conveniently from the front.



Intuitive operation.

More systematic. Less effort.

Simple and intuitive.

The Dimplex Touch Display.

The controller integrated in the heat pump intelligently and automatically ensures efficient and comfortable operation. Thanks to the intuitively designed user interface of the touch display, all settings can be made easily on site. With the NWPM Touch Network Card, System S can be connected to any router via a LAN cable and controlled via a smart device.

For installers and maintenance technicians, this gives access to service data including a range of performance parameters, help with system diagnostics, and information on outdoor unit performance.

Integrated colour touch display on the indoor unit. Comfortable and easy to use.



Monitoring the heat pump and its operating status. Display of running times and statuses.

Smart Control.

The Dimplex Home App.

With the Dimplex Home app, the control of the heat pump system can be accessed at any time and from anywhere.

With the intuitively designed app interface, occupants can set different temperatures for individual rooms, schedule the start of heating at specific times or activate holiday mode when away. By connecting to System S, there is more control to heat the dwelling efficiently and sustainably.

NOTE: Room thermostat controls are supplied by Dimplex separately.

A complete system.

The perfect heating and hot water solution.

Simple “Plug and Play” principle.

Connect and get started.

Integrated colour touch display.

Simple and intuitive operation via a 4.3 inch colour display directly on the indoor unit.

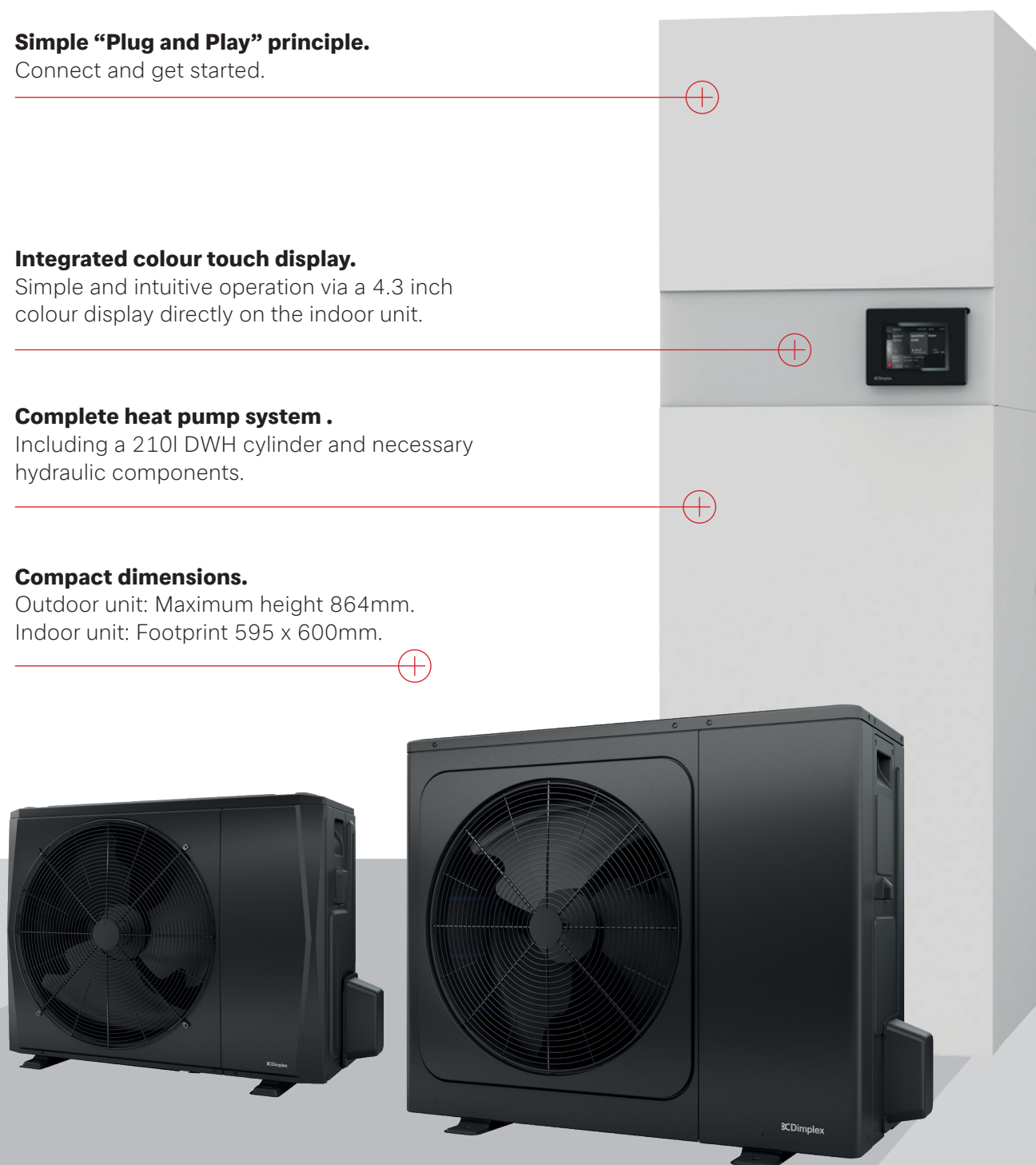
Complete heat pump system .

Including a 210l DWH cylinder and necessary hydraulic components.

Compact dimensions.

Outdoor unit: Maximum height 864mm.

Indoor unit: Footprint 595 x 600mm.



At a glance.

Product specification.

Variants 6kW and 10kW with 210l hot water cylinder.

Part No.	Description	Model
400001377	6kW System (Outdoor & Indoor Unit)	System S6: LIA 0608HWCF MS
400001378	10kW System (Outdoor & Indoor Unit)	System S10: LIA 0911HWCF MS
500001963	25L Buffer Unit	System S 25L Buffer - B25L
380910	System S6 Fridge Pipe - 1/4" + 5/8" x 15M	System S6 FP
380920	System S10 Fridge Pipe - 3/8" + 5/8" x 15M	System S10 FP
381730	System S Wall Bracket	System S WB

NOTE: 25L buffer should be installed alongside the indoor unit

Dimplex Split Unit Model (Capacity)		6kW	10kW
Model		System S6: LIA 0608HWCF MS	System S10: LIA 0911HWCF MS
Design			
Heat Source		Air	
Controller		WPM Touch	
Thermal Energy Metering		No	
Installation			
Installation Location		Indoors / Outdoors	
Degree of Protection (EN 60529) For Compact Unit Or Heating Element		IPX4	
Performance Level		INVERTER	
Operating Limits			
Heating Water Outlet Range	°C	12 to 60	
Ambient Conditions (Heating)	°C	-25 to +35	
System Characteristic			
Nominal Flow Rate EN 14511	m³/h	0.75	1.47
Minimum Flow Rate	m³/h	0.45	0.75
Noise (Sound Power - EN 14825)			
ODU Sound Power - Heating A7 / W35	dB(A)	58	60
Quiet Mode	dB(A)	53	55
Dimensions, Weights and Filling Quantities			
Indoor Unit Dimensions (WxHxD)	mm	595 x 1880 x 600	
Outdoor Unit Dimensions (WxHxD)	mm	1008 x 712 x 426	1118 x 865 x 523
Weight of Transportable Outdoor Unit / Incl Packaging	kg	60 / 65.5	78.5 / 92
Device Connections For Heating		G3/4"	
Refrigerant Type / Weight	kg	R32 / 1.5	R32 / 1.8
Electric Back Up Heater Power	kW	6	
Electrical			
Supply Voltage / Fuse Protection: Outdoor Unit		1~ /N/PE 230V (50Hz) / C20A	
Supply Voltage / Fuse Protection: Indoor Unit		1~ /N/PE 230V (50Hz) / B32A	
RCD Type		B	
Control Voltage / Fuse Protection		1~ /N/PE 230V (50Hz) / B13A	
Starting Current	A	--	
Nominal Power Consumption At A7 / W35 (EN 14511)	kW	1.24 MAX	2.00 MAX
Nominal Current At A7 / W35	A	5.40	8.70
Nominal Power Consumption At A2 / W35 (EN 14511)	kW	1.26 MAX	2.02 MAX

Variants 6kW and 10kW with 210l hot water cylinder.

Additional Model Features		6kW	10kW
Method of Defrosting		Reverse Cycle	
Condensate Tray and Pipework Frost Protection		Yes	
Heat Output / COP - EN 14511			
A-7 / W35	kW/COP	6.21 / 2.86	8.31 / 3.11
A2 / W35	kW/COP	5.50 / 3.95	8.20 / 4.05
A7 / W35	kW/COP	6.20 / 5.00	10.00 / 5.00
A7 / W45	kW/COP	6.35 / 3.75	10.00 / 3.80
A7 / W55	kW/COP	5.22 / 1.96	7.05 / 1.97
A7 / W55	kW/COP	6.90 / 2.91	9.72 / 3.04
Hot Water Cylinder			
Cylinder Volume	litres	210	
Inner Cylinder		Duplex stainless steel LDX2102	
Inlet / Outlet		Stainless Steel	
Coil		Stainless Steel	
Insulation		EPS (GWP=2.37, ODP=1.84x10 ⁻⁷)	
Reheat Time (A7; cylinder temperature 55°C (mins))	minutes	126	70
Cold Water Supply			
Minimum Dynamic Pressure	bar	1.5	
Maximum Pressure	bar	12	
Minimum Flow Rate	litres/min	15	
Connections			
Cold Water Inlet, Balanced Cold Water Outlet and Hot Water Outlet		G3/4"	
Heating Flow and Heating Return		G3/4"	
Refrigerant Gas		5/8" Flare	
Refrigerant Liquid		1/4" Flare	3/8" Flare
Coil Specification			
Heat Pump Coil Surface Area	m²	2.2	
Heat Pump Coil Max Output	kW	45	
Maximum Working Pressure	bar	3	
Safety Components			
Pressure Reducing Valve and Strainer	bar	3	
Expansion Relief Valve	bar	6	
Temperature and Pressure Relief Valve	bar/°C	7 / 90	
Factory Pressure Test	bar	12	
Heat losses			
Maximum standing heat loss (EN 15223)	kWh/24h	1.72	