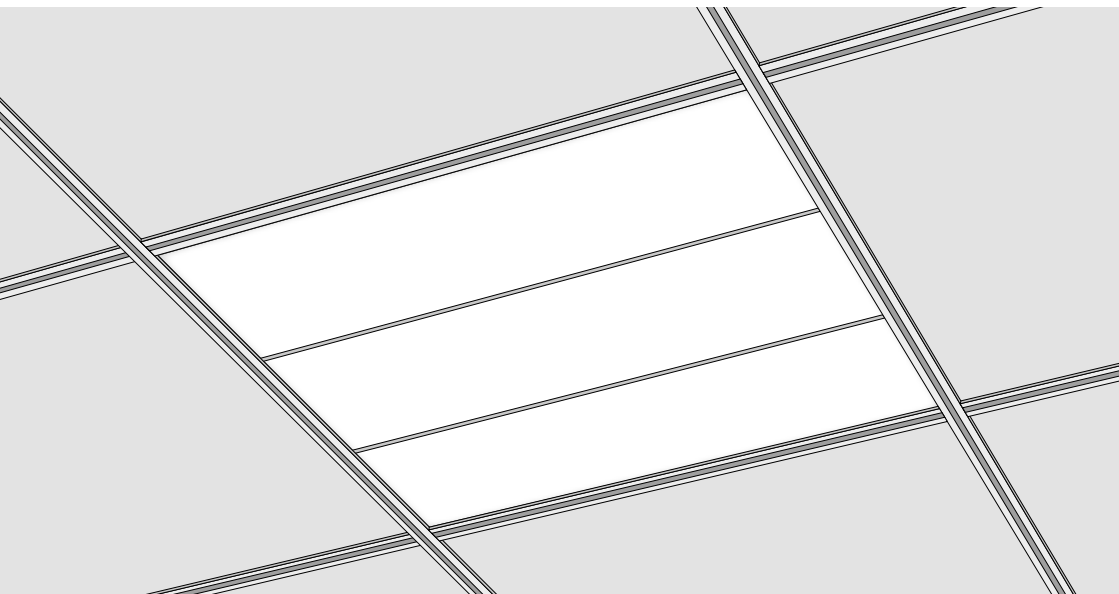


# Sargasso Range

Installation manual



Sargasso A

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## Introduction

This product has been assembled and prepared for easy installation.

In the event of any visible damage, please contact us on +44 (0) 1245 324560.

Please leave this Installation Guide with the owner of the property.

## Symbols

This manual contains information and prescriptions marked by the following symbols.



Ignoring these safety provisions marked by the symbol "caution: hazard" may endanger the safety of people.



The removal of the screws can cause the output of hot fluids under high pressure from heating system. Drain the system or close the isolating valves.



High temperature surface. Take utmost care to prevent people from getting in contact with the hot surfaces of the appliance.

## Declaration of conformity

EC Declaration of conformity  
Radiant Heating and Cooling Solutions Ltd  
Units 1 -3, Farrow Road, Great Barr  
Birmingham, B44 9HE  
Mobile: 0771 0 307701  
Tel: 01143210041

This declaration confirms that the Radiant Heating panel has been manufactured in a facility certified to the requirements of ISO 9001: 2015 (BSI Certificate FM51223 refers) and scoped for the Manufacture of Radiant Heating Panels for the Construction Industry.

The product has been independently tested (WSP report no 15.55.RHC.101 refers) and meets the requirements as generally specified in EN 14037-2: 2016 for:

Free hanging heating and cooling surfaces for water with a temperature below 120°C.

Pre-fabricated ceiling mounted radiant panels for space heating.

Test method for thermal output.

This declaration is issued under the sole responsibility of the manufacturer.

Bob Parker  
Sales Director



Date 05.12.17

# Important safety and installation instructions

Prior to installation, read these installation and operating instructions. The installation and operation should also be in accordance with national regulations and accepted codes of good practice.



This product is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the product by a person responsible for their safety. Children should be supervised to ensure that they do not play with the product.

To guard against injury, basic safety precautions should be observed, including the following:

1. Read and follow all safety instructions and all the important notices on the product before installing, using and maintaining the product. Failure to do so may cause personal injury or damage to the product or installation.
2. Risk of scalding. To avoid injury before any servicing operation wait until the water has cooled inside the product. Do not touch the fluid or the product when temperature is higher than 60°C.
3. Improper use.  
This is an product to be used in heating systems with clean water without abrasive particles.
4. Installation.  
The product must be mounted in a stable/fixed position in a dry, frost-free and waterproof place, with sufficient ventilation around it. Make sure that the product is securely and correctly installed before operating it and that there is enough room around it for maintenance operations, dismantling, checking for free inspection.



Non-observance of the safety instructions results in the loss of any claims to damages.

The indicated limit values are binding and cannot be exceeded for any reason whatsoever.

KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE.

# Application

Sargasso Radiant Panels sit in a ceiling grid, or can be suspended from the ceiling, and are supplied with hot water from a heat source. They form part of a 2 pipe 'wet' heating system. The hot water is fed to the Sargasso Radiant Panels and approximately 85% less water is required compared to a traditional radiator heating system. The benefits of this are that the system heats the occupants up much quicker than a traditional radiator system. Cost savings in running such a system are realised because of the lower water content and faster heat up of the radiant panels. Further energy savings are possible through zoning so that only occupied areas are heated.

Sargasso is primarily designed to be installed as part of a suspended ceiling, but it can also be installed directly on or suspended from the ceiling.

Suitable for use in Micro T system and standard T-Grid ceiling ceilings. Please note that Sargasso is compatible with regular ceiling profiles, but not compatible with Tegular or Microlook ceilings.

Suitable for installation from gripple wires (not supplied). Panels longer than 1200mm will require 6 fixing locations.

These products are designed for use on standard two-pipe pumped central heating systems.

Pipe connections are 10mm and may be used as either flow or return.

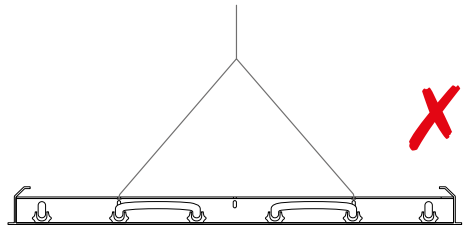
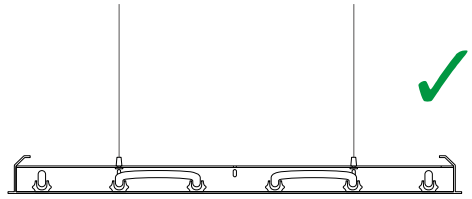
The product must be installed in line with best plumbing practices and with reference to industry standards, such as the CIBSE Domestic Heating Design Guide B1: 2016. Isolating valves (not supplied) should be fitted to system flow and return connections. Failure to fit isolating valves may mean that the product is not serviceable in the event of failure.

BS EN 12828:2012+A1:2014  
Heating systems in buildings. Design for water-based heating systems

BS EN 14336:2004  
Heating systems in buildings. Installation and commissioning of water based heating systems

BS 7593:2006  
Code of practice for treatment of water in domestic hot water central heating systems

## Product mounting options

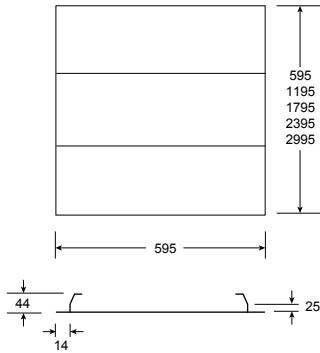


# Product performance

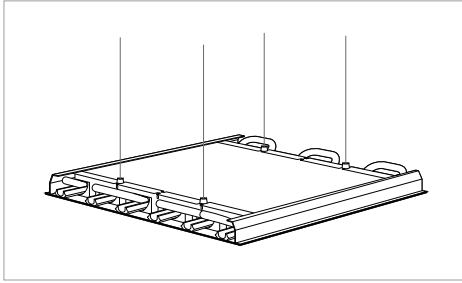
Range	Type	Width	Length	Operating Weight (kg)	Weight kg/m <sup>2</sup>
Sargasso A	Loop	595mm	595mm	4.1	11.2
Sargasso A	Loop	595mm	1195mm	8.2	11.2
Sargasso A	Loop	595mm	1795mm	12.2	11.2
Sargasso A	Loop	595mm	2395mm	16.3	11.2
Sargasso A	Loop	595mm	2995mm	20.4	11.2

## Heat output (Watts)

Model	Output at $\Delta T$ °C								Hangers required
	30	35	40	45	50	55	60	65	
600 x 600	105	126	148	170	194	217	242	266	4
600 x 1200	210	252	296	340	388	434	484	532	4
600 x 1800	315	378	444	510	582	651	726	798	4
600 x 2400	420	504	592	680	776	868	968	1064	6
600 x 3000	525	630	740	850	970	1086	1210	1330	6



# Installation and mounting



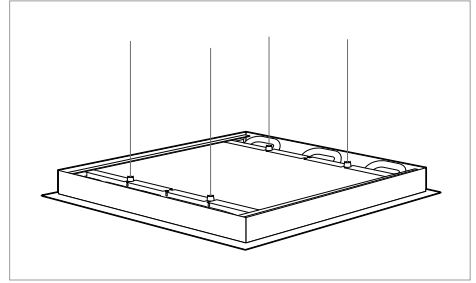
## Standard ceiling

It is recommended that panels with a length of 600-1800 mm are installed using 4 hanging wires, panels with lengths of 2400-3000 mm with 6 hanging wires.

When the panels are hung and positioned they can be connected to the supply by using push-fit elbows and pipe tails (not provided) which is the preferred method of attachment.

- Fit isolating valves (not supplied) to the system flow and return pipes. In order to achieve the highest level of performance we recommend full bore valves.
- Valves to facilitate balancing of the system may be advantageous.
- Failure to fit isolating valves may mean that the product is not serviceable in the event of failure.
- Open the isolating valves and check for leaks.

N.B. either pipe may be used on flow or return.



## Plasterboard ceiling

For extra consideration over and above standard installations are the following points:

- When commencing installation the aperture or space for the panels should be the stated size of the panel with no obstruction preventing a flush fit.
- We advise single module installation of plasterboard models due to expansion.
- Place the panel within the plasterboard void.
- Attach the recommended number of wires which should be vertically aligned (please note that the fixing supports can be adjusted along the length of the panels to assist).
- Adjust the wires to achieve the best fit within the ceiling.

Please note that the panels can only sit flush within a perfectly level ceiling.

- Connection to the panel is recommended using flexible hoses of a specification suitable for heating systems.
- Place the panel within the plasterboard void carefully positioning the screw holes depending on frame used, so that they make a secure fixing (timber joists are ideal).
- Then continue final fixing of the panel ensuring a straight flush fit.

# Registering your product

Thank you for purchasing a Smith's product. It has been designed and manufactured to the highest quality standards to ensure it gives you efficient and trouble-free service for many years. To back up our commitment, included with your product is the following warranty:

## Heat Emitter 5 years from date of purchase

This gives you the peace of mind that in the unlikely event of product failure, we will repair or replace the product completely free of charge providing the product has been installed, used and maintained in accordance with the instructions. Your statutory rights are not affected by this warranty.

It is important to register as soon as possible online at: [smithsep.co.uk/product-registration/](http://smithsep.co.uk/product-registration/). This will ensure you will receive prompt and efficient service if your product requires attention within the warranty period. If you do not register your product, you will be required to produce proof of purchase prior to receiving service.

For more details please visit our website: [SmithsEP.co.uk](http://SmithsEP.co.uk)

# Disposal

As part of the policy of continuous product improvement, Smith's Environmental Products LTD reserves the right to alter specification without prior notice.

If you are purchasing replacement equipment your retailer may offer a 'take back' scheme, or will be able to give details of the nearest approved authorised treatment facility. Proper recycling and waste disposal will help conserve resources whilst preventing detrimental effects on our health and the environment.



Approved CQS ISO  
9001:2015

# After sales and spares

If you experience any problems with the use of your product, please contact our after-sales office +44 (0) 1245 324560.

For product information, customer services or sales support call us on +44 (0) 1245 324900

For the Republic of Ireland, contact MT Agencies on 01 864 3363

Sales: [sales@SmithsEP.co.uk](mailto:sales@SmithsEP.co.uk)

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### **Happy to help**

Smith's Environmental Products Ltd is one of the leading manufacturers of heating and cooling products in the UK. We are committed to achieving the highest standards and our faith is supported by a free five year parts and labour guarantee with every product. Our customer service is second to none and we are happy to offer any help and guidance that you might need.

### **Stockists**

All products are available nationally from Builders' Merchants, Plumbers' Merchants, Heating Equipment Distributors and Kitchen Equipment Distributors. In the event of difficulty, please contact us or visit our website [SmithsEP.co.uk](http://SmithsEP.co.uk) for details of your nearest stockist.

### **Information and advice**

Full technical specifications and list prices is available to download from our website or in hard copy from our office. Also available on our website are price lists, individual product data sheets, installation & user guides, where to buy, who to contact and a media centre.

Alternatively contact our office 9.00am to 5.00pm Monday to Friday.

As part our commitment to continuous improvement Smith's Environmental Products may change the specifications of its products without prior notification or public announcement. All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract. All dimensions are in mm unless otherwise stated.

**To view the full product information download the datasheet at:**  
**[www.SmithsEP.co.uk](http://www.SmithsEP.co.uk)**

For product information, customer services or sales support call us on **+44 (0) 1245 324900**

For the Republic of Ireland, contact MT Agencies on 01 864 3363

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Issue 001 | January 2018