



## Sargasso Range

A new range of radiant panels for heating commercial applications

# How radiant panels work

Radiant panels provide heating solutions for a wide range of applications.



Sargasso Radiant Panels sit in a ceiling grid, or can be suspended from the soffit, and are supplied with hot water from a heat source. They form part of a '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 up much quicker than a 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.

Radiant heat is a form of electromagnetic radiation, between ultra violet and infra-red on the electromagnetic spectrum.

These electromagnetic waves penetrate the air with no loss of energy and this energy is only converted to instant heat when it comes into contact with any object of a lower temperature, warming anyone or anything in close proximity.

This is identical to the way in which the direct sunlight on a cold winter's day produces warmth and makes us feel comfortable.

As a result radiant ceiling panels provide a pleasant and comfortable warmth at ground level, even when installed at a height of 100ft.



## **Sargasso A**

Continuous copper pipe 3/8" O.D. Element. Ends formed from a single length of pipe with no joints between them. Element terminates in plain copper tails.



### Offices

Expensive and valuable office floor space can be maximised through the removal of wall hung heat emitters such as radiators. Radiant heating panels provide a pleasant uniform heating environment.



### Education

Removing radiators from ground level creates valuable teaching space and reduces the risk of accidental burning. Radiant heating panels provide a high level of room comfort, are durable and robust, an ideal solution for both learning and working environments. Acoustic absorption pads can be incorporated in order to meet specific acoustic requirements e.g. Building Bulletin 93 (BB93).



### Healthcare

Longer runs of radiant heating panels are ideal for long corridors and hospital wards. They are also suitable for recovery and public environments; particularly when specified with an Anti-Bacterial (AB) coating as this inhibits bacterial growth such as E. coli and MRSA on the coating surface. Durable, flat and smooth faced, radiant heating panels can be easily cleaned in accordance with a specified cleaning regime.



### Leisure

Sports and leisure venues, which may only be used sporadically, can quickly and efficiently heat their premises using radiant heating. Due to a lack of moving parts, radiant heating systems require minimal maintenance and their smooth surfaces enable easy cleaning, perfect for busy leisure facilities.



### Transport

Key considerations in the transport sector include durability, rapid warm-up times and the ability to increase efficiencies by system zoning. The lack of moving parts in radiant heating products means maintenance disruptions are kept to a minimum, which is another significant consideration in any busy transport building.



### Industrial

In warehouses and large buildings, radiant heating panels can be used effectively to increase working temperatures in a particular area, without heating the entire space. This results in efficient heating, reduced energy consumption and carbon emissions.

# Sargasso Range

An elegant alternative solution to traditional wall mounted radiators, convection heaters and air conditioning systems.



The heat is radiated downwards from the ceiling, providing warmth to the occupants and surfaces rather than to the air.

A major benefit of Sargasso Radiant Panels is that the useable floor space can be maximised. Another benefit is that there is no significant air movement with Smith's Sargasso Radiant Panels minimising the disturbance of air-borne particles such as dust.

## Features

- Suitable for use in both Standard T-Grid and Micro T system ceilings.
- Each panel individually packaged for protection
- Panel performance supported by independent test certification to EN 14037
- For bespoke specifications, including cooling capability please contact us to discuss your requirements

## Benefits

- Create a more comfortable environment for occupants by creating an even temperature distribution across the room
- Save energy and money by achieving a higher perceived temperature than the actual room temperature
- Works well with lower temperature heating systems
- Provide an efficient solution offering a short heating and cooling time
- Installed within a ceiling or high on a wall they maximise wall and floor space
- Silent operation
- No dust/bacteria dispersal offering a hygienic solution
- Maintenance free
- Easy to clean so lower cleaning costs
- Integrated in plasterboard



**Finish**

Sargasso A

Material: 0.08" high-grade aluminium extrusion, lightweight, robust, optimum response time.

Finish: RAL 9016 white powder coat.

Insulation: Rigid non-fibrous, foil-faced insulation to EN13165 fire rating A2.

**Installation**

Sargasso A

Suitable for use in Micro T system and standard T-Grid system ceilings.

Please note that Sargasso is compatible with regular ceiling profiles, but not compatible with Tegular or Microlook ceilings.

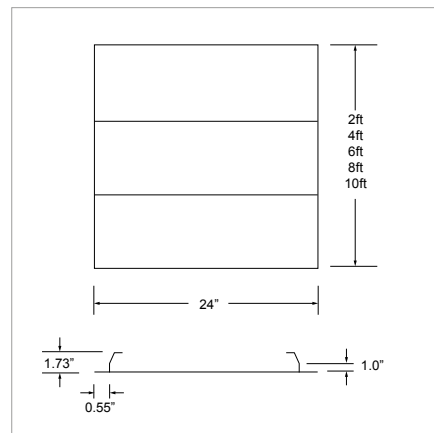
Suspension: Sargasso A

Suitable for installation from drop rods (not supplied). Panels longer than 4ft will require 3 fixing locations.

**Specification**

To specify state:

Radiant Panel in White (RAL 9016) at 24" wide x 24" (or 4ft, 6ft, 8ft, 10ft) long. As Smith's Sargasso A.



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## Sargasso A - Heat output (BTU/hr)

Model	Average Water Temperature BTU/hr @AWT in deg F							
	86	95	104	113	122	131	140	149
2ft x 2ft	358	430	505	580	662	740	825	907
2ft x 4ft	716	859	1009	1159	1323	1480	1650	1814
2ft x 6ft	1074	1289	1514	1739	1985	2220	2476	2721
2ft x 8ft	1432	1719	2019	2319	2646	2339	3301	3628
2ft x 10ft	1790	1807	2523	2899	3308	3703	4126	4535

## Ordering guide

Description	Width (ft)	Length (ft)	Operating Weight including water (lbs)	lbm/sqft	Product code
<b>Sargasso A</b>					
2ft loop panel	2ft	2ft	10.14	2.6	HPAE35350000
4ft loop panel	2ft	4ft	20.06	2.6	HPAE35350001
6ft loop panel	2ft	6ft	30.21	2.6	HPAE35350002
8ft loop panel	2ft	8ft	40.34	2.6	HPAE35350003
10ft loop panel	2ft	10ft	50.49	2.6	HPAE35350004





## General Information

### Happy to help

Smith's Environmental Products Ltd is one of the leading manufacturers of heating products in the US. We are committed to achieving the highest standards and our faith is supported by a free five year parts warranty 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.

### Information and advice

A product brochure containing full technical specifications is available to download from our website or in hard copy from our office. Also available on our website are individual product data sheets, installation & user guides.

Alternatively contact our office 8:00am to 6:00pm Monday to Friday.

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