

# CSG-HS

Clean Steam Generator for Healthcare Sterilisation



*First for Steam Solutions*

EXPERTISE | SOLUTIONS | SUSTAINABILITY

**spirax**  
**sarco**

## Why steam sterilisation?

The World Health Organisation advises 'The preferred method for sterilisation of heat-resistant critical devices is steam/moist heat sterilisation'.

Steam sterilisation is commonly used to sterilise reusable equipment because it is a simple, fast, safe and reliable way to kill bacteria and eliminate potential contamination risk. There are a wide range of benefits in using steam over other methods, particularly in healthcare environments where health and safety is paramount.

### Quality of the steam supply

Steam quality is critical; steam dryness and non-condensable gases must be rigorously managed, especially when considering fluctuating demands, for effective sterilisation to take place.

### Why is dry steam important?

A 'wet pack' (or 'wet load') is the term commonly used when moisture is present in, or on, a package after it has been through the sterilisation process.

Frequently, when loading a steam steriliser, items to be sterilised are wrapped in a special packaging material. The purpose of the packaging material is to provide a sterile barrier until the sterilised load is ready to be used.

The presence of moisture in a sterilised pack is a contamination risk, as the moisture may carry bacteria or other impurities. This is a potential danger if the instruments become contaminated.

#### Three factors which negatively impact effective sterilisation:

- Poor steam quality, incorrect levels of steam dryness and non-condensable gases present within the steam
- Equipment malfunction, in either the steriliser, the steam system, or a combination of both
- Human error, such as improper packing and loading technique

Excess moisture contained within steam causes severe problems. Time is wasted as sterilisation cycles need to be re-processed causing delays and in some cases even delaying procedures. Failure to discard or re-process batches could result in contamination reaching a patient.

Correct sterilisation procedures and rigorous steam quality management are critical, because avoidance of this contamination risk ultimately saves lives.

## A purpose built solution...

CSG-HS is a clean steam generator designed for healthcare sterilisation.

Our specialist engineers conducted a worldwide research programme to understand the needs and challenges that our customers were facing within hospitals and healthcare, in particular the need for effective sterilisation.

This research formed the foundation for a complete redesign of our CSG portfolio and the development of the CSG-HS, enabling us to offer a clean steam generator solution that consistently delivers, with no drop in reliability or steam quality even when demand fluctuates.



## CSG-HS

### Steam of the correct quality and quantity on demand - the CSG-HS

The CSG-HS has been designed and verified to outperform the requirements of EN 285 and other similar global standards, to ensure mitigation of contamination risk.

With a range of innovative design features and intelligent controls, the CSG-HS is supplied packaged and ready to install with simple commissioning.

- Steam on demand - at the right quality and quantity
- Easy maintenance - no specialist skills or tools required
- Configurable options - to suit individual requirements
- Integrity testing - to ensure steam of the correct quality, and contamination free
- Digital integration - compliance and traceability
- High thermal storage - multiple applications
- Compact design - fits through a standard sized doorway

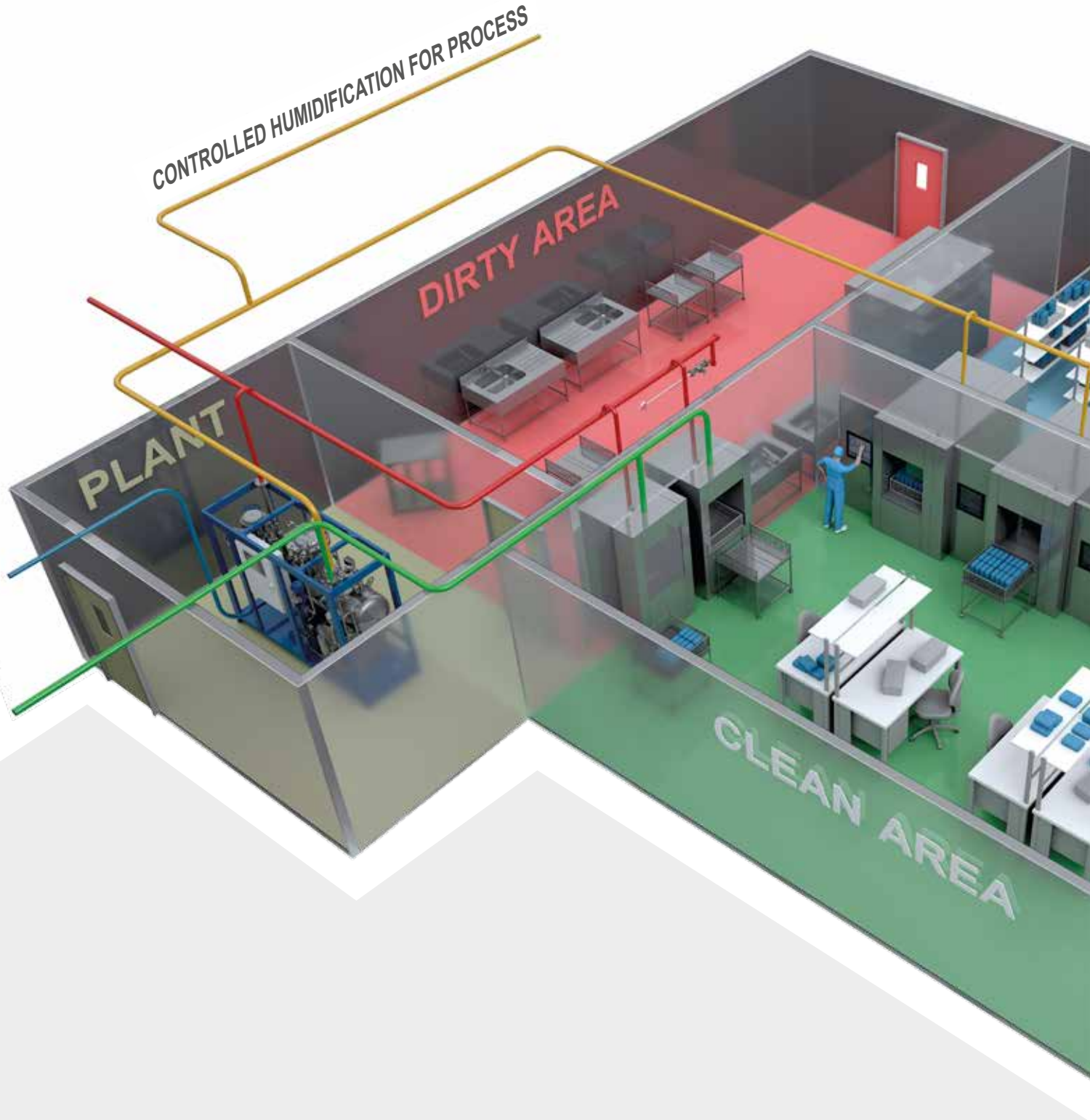


**First for Steam Solutions**

EXPERTISE | SOLUTIONS | SUSTAINABILITY



## Why should you choose a CSG-HS?

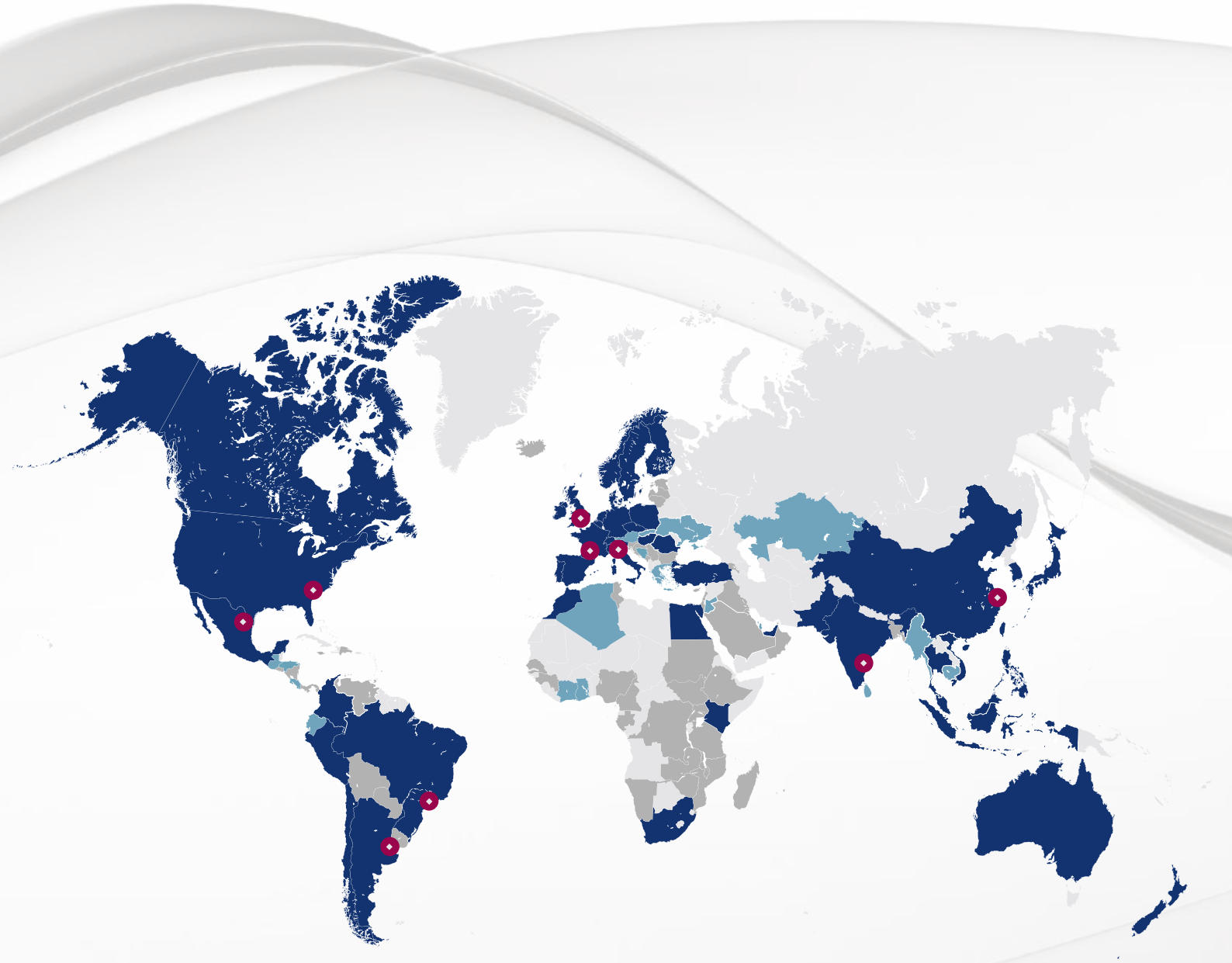


- CLEAN STEAM FROM A CSG-HS
- PLANT STEAM
- CONDENSATE
- RO FEEDWATER



- > The CSG-HS is designed for maximum performance and reliability - steam of the correct quality and quantity, on demand
- > Unlike some alternative steam solutions, the CSG-HS can be housed externally from your main Sterile Services Department. This means when routine maintenance is required, it can be completed without entering the sterile environment – which means less risk of contamination and less interruption to your sterilisation processes
- > The CSG-HS is extremely compact, so it can fit through a standard sized doorway and does not require a large space for installation
- > The CSG-HS is suitable for various hospital points of use, namely sterilisation and humidification, where a higher grade of steam is required
- > The CSG-HS can be integrated into digital eco-systems, or existing building management systems, to ensure compliance and good documentation practice (i.e. cGMP)

Efficient and effective steam quality management while creating sustainable value for our customers is at the heart of everything we do. By supporting our customers to work towards more economical systems, we are also helping you to reduce environmental impact. From improving process quality and reducing waste, to increasing production output and reducing energy use, we're committed to providing more safe, sustainable and compliant steam systems.



Operating Companies

Manufacturing Sites

Sales Offices

Distributors



Spirax-Sarco Limited, Charlton House, Cheltenham,  
Gloucestershire, GL53 8ER, UK  
T +44 (0)1242 521361  
F +44 (0)1242 573342  
E enquiries@uk.spiraxsarco.com