The dairy industry

Effective steam solutions



First for Steam Solutions



EXPERTISE | SOLUTIONS | SUSTAINABILITY

Innovative steam solutions for the dairy industry

At Spirax Sarco we offer an extensive range of steam solutions to the dairy industry, helping our customers to reduce energy costs, water consumption and improve product quality.

Steam is indispensable to a huge range of process applications within dairy manufacturing, accounting for a significant percentage of a facility's energy consumption.

We will work with you to ensure that the steam reaching your process is the correct quantity, quality and purity at all times, and we can help ensure your steam applications comply with stringent industry legislation as well as health and safety requirements. This will benefit your organisation through increased productivity, minimal downtime, and ultimately reduce your costs and carbon emissions.

Supported by our global network of specialist engineers, we are able to use our expertise to help you reach your specific business targets. We can assist you from system concept and design all the way through to operational energy management that will support your implementation of sustainable manufacturing.



spiraxsarco.com



We will work with you to ensure that the steam reaching your process is the correct quantity, quality and purity at all times.

Ensuring your product quality

Clean steam is widely used in the dairy industry to reduce the risk of product or process contamination in applications like UHT sterilisation and sterilise-in-place (SIP).

It is critical that the steam is supplied in optimum condition and contains nothing likely to spoil the product or otherwise cause harm.

With our product range you have the reassurance of knowing that our high efficiency point-of-use solutions will help ensure your process not only meets, but exceeds the required purity standard, and that the steam in contact with your process is free from contaminants.

Steam safety

Dairy manufacturers are legally required to ensure the quality of the final product by identifying potential hazards and controlling them, typically by using a hazard analysis and critical control point system (HACCP).

The current lack of legislation or guidance governing the quality and purity of steam, means manufacturers should be vigilant in ensuring suitable controls are established and adhered to. Within a HACCP context, steam quality and safety could be described as a HACCP prerequisite or, if the steam is added directly into the product, as a stage in the food production process.

How we can help...

Our expert engineers can offer guidance in the following areas relating to steam quality and purity within the dairy industry:

- The various grades of steam quality available to users and how these are achieved
- Potential sources of contamination arising from the use of an inappropriate grade of steam
- Best practice in the design, maintenance and testing of steam systems to ensure the correct quality and purity of steam reaches the process.



spiraxsarco.com



Swedish dairy ensures a high level of product quality by installing a Spirax Sarco clean steam generator

Company: Dairy plant Location: Sweden

- Objective: Minimise the risk of process contamination in infant milk products
- Solution: Installation of Spirax Sarco clean steam generator
- **Results:** The risk of process contamination from poor quality steam is removed, ensuring product quality is not compromised



How can we help

Key stages of a HACCP

Identify hazards through analysis

Identify critical control points

Establish critical limits -

Implement monitoring procedures

Implement corrective measures

Implement verification procedure

Keep records

you establish a HACCP for using steam in dairy applications?



- We can carry out a full analysis of your steam system through a steam quality audit.
- We will work with you to identify where hazards can be prevented, for example where steam is directly in contact with the product.
- We'll help you establish acceptable parameters for steam quality.
- Our steam measurement and sampling solutions provide insight into the quality of your steam.
- We have a range of equipment that will automatically respond if contamination is detected in returned condensate. This system together with on-going checks ensures deviations are quickly dealt with.
- Our expert steam engineers can provide on-going support to ensure all of your steam system equipment is functioning correctly, and advise where improvements may be made.
- We'll work with you to ensure important information about your steam system performance and steam quality is recorded, providing documentation on the quality of your steam.

Energy saving and water reduction

With energy targets set out by governments and authorities and the pressing need to reduce costs, we can help you by advising where savings may be made in your steam system.

The opportunity for recovering both water and energy from the boilerhouse and specific process applications is significant, and we are committed to ensuring none of these opportunities are overlooked. For example, condensate recovery is a direct way of saving costs through energy and water reduction, and we can show you where systems could be installed to gain these benefits.

Through energy auditing we can also recommend products and solutions that will improve the efficiency of your applications, from milk delivery to packaging and dispatch.



Saving energy and water, improving product quality and ensuring your steam system is working as efficiently as possible will help you make more for less.

Examples of energy and water saving opportunities in dairy steam applications



Making a difference in the dairy industry

With continued investment into our world class steam technology centre and testing facilities, we are constantly researching and developing new products and solutions that will help our dairy customers unlock the potential of their steam systems.

We train our sales engineers in purpose-built facilities located throughout the world, providing them with a robust understanding of steam applications for the dairy industry. We recognise that it is not our products alone that provide the value to our customers; it is the application of our knowledge and experience.







We are making a difference in dairies worldwide, to find out how we can make a difference to your business visit spiraxsarco.com



Operating Companies

Netherlands

South Africa

Poland

Portugal

Russia

Spain

Sweden

Turkey

*UK

Chile

*USA

Mexico

Switzerland

EMEA

Belgium Czech Republic Denmark Finland

- * France Germany
- Ireland * Italy
- Middle East
- Norway

Americas

- * Argentina * Brazil
- Canada

Asia Pacific

Australia	New Zealand
China	Philippines
India	Singapore
Indonesia	South Korea
Japan	Taiwan
Malaysia	Thailand

* Manufacturing sites





Sales Offices

EMEA

Austria Egypt Hungary Jordan Kenya Romania Slovak Republic Ukraine

Americas Columbia

Asia Pacific

Hong Kong Kazakhstan Vietnam

Distributors

EMEA	
Algeria	
Bahrain	
Bulgaria	
Cameroon	
Croatia	
Cyprus	
Ethiopia	
Estonia	
Ghana	
Greece	
Iceland	
Israel	

Americas

Bolivia Costa Rica Dominican Republic Netherland Antilles Ecuador El Salvador Guatemala

Honduras Jamaica Nicaragua Pakistan

Panama

Ivory Coast

Kuwait

Latvia

Lebanon

Lithuania

Malawi

Mauritius

Morocco

Namibia

Nigeria

Malta

Madagascar

Paraguay Peru Trinidad and Tobago Uruguay

Oman

Qatar

Slovenia

Tanzania

Uganda

Zambia

Zimbabwe

Sudan Syria

Saudi Arabia

Asia Pacific Bangladesh

Fiji Cambodia Myanmar



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

SB-GCM-10 CM Issue 3