

heat transfer
solutions

Turflow heat exchanger

high efficiency heat transfer solution



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EXPERTISE | SOLUTIONS | SUSTAINABILITY

Turflow heat exchanger

high efficiency heat transfer solution

Turflow heat exchangers provide a reliable, innovative solution for managing the heating and cooling of industrial fluid.

Turflow heat exchangers are compact in design and suitable for a range of fluids including steam. They ultimately deliver an economic efficient solution for heat transfer in any industry inclusive of the food and beverage, and sanitary processes. The unique straight corrugated tube design encourages turbulent flow, resulting in high efficiency heat transfer.

Benefits:

- High efficiency - the corrugated tube design improves the heat transfer rate and promotes a self-cleaning effect.
- Minimal downtime - self cleaning effect reduces scale build up, resulting in lower maintenance.
- Reliability and longevity - manufactured from high quality stainless steel.
- Flexible space-saving installation - Turflow heat exchangers are compact units that can be fitted either horizontally or vertically.



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Temperature stability and efficiency

The unique corrugated tube induces turbulence in the flow of the fluid, providing a self-cleaning effect. Unlike traditional shell & tube heat exchangers, the Turflow delivers a more consistent and higher heat transfer rate; creating a solution to improve heat transfer efficiency.

Lower maintenance

Heat exchangers require downtime to clean, which can be an arduous process, particularly if the system has a 'U' tube bundle fitted. One of the many benefits of the Turflow design is that the fluid flow is turbulent creating a self-cleaning effect that reduces the risk of scale build-up; consequently cleaning is required less frequently when compared with more traditional shell & tube heat exchangers. When cleaning of the Turflow unit is required, the straight tubes that make-up the unit allow for an easier and more effective cleaning process.



Space-saving installation

With its high efficiency design, the Turflow is considerably smaller and lighter than conventional shell & tube heat exchangers. This together with its one pass design allows for much greater flexibility in terms of installation position. The unique design can be installed easily, horizontally or vertically, maximising plant room floor space as required.

Designed for reliability, integrity and guaranteed longevity

Our solution is a unit manufactured in high quality stainless steel, which provides a longer operating life through corrosion prevention, whilst able to heat or cool a wider range of fluids. In addition, the unit has no gaskets.



“ With over 70 years of experience, Spirax Sarco’s sales force has been trained to **provide the expertise** required to custom build and supply solutions to **suit your particular application need.**”

Heat Transfer Solutions Specialist
Spirax Sarco

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Features:

- The straight corrugated tube design induces optimum turbulent flow conditions, enabling a considerable increase in heat transfer efficiency.
- Heating, cooling and cleaning utilising fluids including steam, superheated steam, water and diathermic oil.
- Gasket-free high quality stainless steel shell & tube construction guarantees longevity.
- Straight corrugated tubes allow for easy mechanical or chemical cleaning.
- Available for wide use across both service and process industrial lines.
- Flexible installation options to assist with plant floor space-saving.

A flexible solution for all industries

Used across all industries, and able to manage a multiple of hot and cold side fluids, the Turflow heat exchanger provides the perfect solution to a wide range of industrial application needs. The corrugation patterns are particularly well suited to fluids in the lower viscosity range, such as water, juices, glycol, light solutions, CIP and suspensions containing small particles. Primary media such as steam, superheated water and diathermic oil can all be accommodated.

Our many years of experience, working with customers across all industry sectors, has enabled us to set the design standard for heat transfer solutions.

Spirax Sarco is able to provide a heat exchanger range capable of offering single or multiple heat exchangers as standalone units or packaged systems to fulfil most application needs.

Our sales engineers are trained to supply you with engineering advice in order for you to make the right purchasing decision, for your particular industrial needs.

And because Spirax Sarco heat transfer solutions are designed by experts, you can be confident that the precisely sized and matched equipment will offer you efficient and accurate operation.

SINGAPORE



case study

Spirax Sarco's Turflow heat exchanger improves temperature control for food company

Spirax Sarco had already established a good relationship with a well-known food company in Singapore. During a 'walk-the-plant' appointment, our engineer picked up a remark regarding the need to improve temperature control of the washing area, and reduce the maintenance required by the existing hot water boilers.

The engineer worked closely with the customer and a suitable heat exchange package was sized, incorporating the stainless steel Turflow heat exchanger. As space was at a premium, all drawings outlined the skid dimensions, ensuring correct planning and positioning prior to installation. This allowed the customer the opportunity to ensure the design also fitted in with future expansion plans.

The Turflow package was successfully installed, quickly correcting the hot water temperature and reducing maintenance, and the engineer looks forward to further supporting the customer with future developments.



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Did you know...

that the Turflow is just one of a range of heat transfer solutions available. Spirax Sarco has a wide variety of heat exchange solutions that cover almost all applications that require heating, cooling, condensing or evaporating.

For more information, please visit our website at www.spiraxsarco.com

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spirax
sarco

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