

# QuickHeat

Compact heat exchange solution



# QuickHeat

QuickHeat is a complete heating solution that can be selected, installed and commissioned in a very short time.

Its compact design has a much smaller footprint, height and weight than other solutions, providing ease of installation and freeing up valuable floor space.



# Key features

 <p><b>Precisely matched control elements</b></p>	<p>QuickHeat's control system consists of carefully matched Spirax Sarco equipment. It is designed to provide precise, accurate control while retaining simplicity of design.</p> <p>Spirax Sarco's control valves have characteristics specifically designed for use with steam. They can be matched with either a pneumatic actuator or an electric actuator.</p> <p>The SP2 electropneumatic smart positioner provides precise control of valve position, while its smart features reduce set up and commissioning time.</p> <p>The fully functioned P+I+D controller is easily set up and commissioned. In some applications an independent high limit control system is necessary. QuickHeat is designed for this to be easily integrated into its existing control system and mechanical design.</p>
 <p><b>Highly efficient, compact Plate &amp; Shell® heat exchanger</b></p>	<p>Spirax Sarco's partner, Vahterus, provides the innovative Plate &amp; Shell® heat exchanger at the core of the QuickHeat. Its compact, fully welded construction provides a durable gasket free construction, able to withstand high temperature and pressure.</p> <p>It provides a low cost per kW with no possibility of energy loss or safety risks through leaks. The gasket free, low fouling design minimises maintenance requirements to provide an extremely low cost of ownership.</p>
 <p><b>Choice of condensate drainage options</b></p>	<p>By using Spirax Sarco's ground-breaking APT combined pump and steam trap as a condensate drainage option, we can ensure the QuickHeat operates effectively against high condensate backpressures, even under low load conditions.</p> <p>If secondary scaling or product spoilage is a risk; use of the APT allows us to engineer QuickHeat to condense at a very low steam temperature, even against a high backpressure, to eliminate the risk.</p> <p>When an APT is not necessary, a Spirax Sarco float and thermostatic steam trap will ensure condensate is effectively drained away from the unit.</p>
 <p><b>Modular compact rugged construction</b></p>	<p>With its compact design and low weight, QuickHeat is easily installed, even in the tightest of spaces. If necessary, its simple modular design allows the unit to be easily broken down and re-assembled on site.</p> <p>All units are supplied with the certification, approvals and documentation to meet local statutory requirements.</p>



## Applications

QuickHeat is designed for applications where steam is the primary medium. Spirax Sarco can also provide solutions for other media – please contact us for further advice.

The extensive choice of materials of construction which are available for the Plate & Shell® heat exchanger allow for a wide range of secondary fluids to be catered for.

With its available combinations of control methods, secondary piping arrangements and condensate removal options, QuickHeat can be precisely tailored to meet your needs, even on the more complex of applications.

Years of steam engineering experience has taught us that our customers' steam heating applications encompass a wide variety of needs and operating conditions. This knowledge ensures we are the first choice solution provider, addressing all your issues and offering you a safe, efficient and effective solution.

# Installation

QuickHeat contains all of the carefully matched components necessary to ensure its performance meets your expectations. Spirax Sarco can advise on and provide complementary products or systems to ensure your QuickHeat system always operates safely and at the peak of its capability. We especially recommend that an independent high limit safety shut-off system be considered when heating water for personal use, or in process applications where overheating could be dangerous or cause a costly shutdown. It should always be fitted where local regulations require it.

In most cases, because of the high maximum operating pressure and temperature limits of QuickHeat's components, extra pressure reducing valve stations and safety valves are not required.

Spirax Sarco has the capability to assess, select, supply, install and commission the correct solution for you - allowing you to focus on your core business.

Fast response design for instantaneous duties



Commissioning a positioner component of the QuickHeat



# Product range

QuickHeat can solve your heat exchange needs from as low as 100 kW right up to 10 000 kW.

## Steam side control

Model	Power range	Piping configuration	Valve actuation	Condensate removal
<b>QH2S</b>	100 kW to 400 kW	Standard or fast response	Electric or Pneumatic	Automatic pump-trap or Float and thermostatic steam trap
<b>QH3S</b>	400 kW to 1 000 kW	Standard or fast response	Electric or Pneumatic	Automatic pump-trap or Float and thermostatic steam trap
<b>QH4S</b>	1 000 kW to 4 000 kW	Standard	Electric or Pneumatic	Float and thermostatic steam trap
		Fast response	Pneumatic	
<b>QH5S</b>	4 000 kW to 10 000 kW	Standard	Electric or Pneumatic	Float and thermostatic steam trap
		Fast response	Pneumatic	

## Condensate side control

Model	Power range	Piping configuration	Valve actuation
<b>QH2C</b>	50 kW to 300 kW	Standard	Electric or Pneumatic
<b>QH3C</b>	300 kW to 1 300 kW	Standard	Electric or Pneumatic
<b>QH4C</b>	1 300 kW to 3 300 kW	Standard	Electric or Pneumatic
<b>QH5C</b>	3 300 kW to 5 000 kW	Standard	Electric or Pneumatic

Your local Spirax Sarco office will advise you on selecting the correct package for your application.



# Spirax Sarco - Your heat exchanger solution provider

Throughout its long history Spirax Sarco has helped its customers control the effective and efficient use of steam in their processes and utilities.

As a customer of Spirax Sarco you just have to tell us what you want to achieve and we will provide the system that meets your requirements.

We will make a technical assessment of the application, provide pre-engineering services, supply and advise on the installation of the package, and assist in start-up, and commissioning.

You will deal with one vendor throughout the whole process, who will take on the responsibility for everything, leaving you to do what you do best – running your business.

QuickHeat is a packaged solution to your heat exchange needs. Its compact, simple design provides accurate control with low ownership costs over a long life span.



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South Africa

### Americas

Argentina  
Brazil  
Canada  
Mexico  
USA

### Asia

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India  
Japan  
Korea  
Malaysia  
Singapore  
Taiwan  
Thailand

### Australasia

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New Zealand

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UK

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### Middle East

Bahrain  
Iran  
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Kuwait  
Lebanon  
Oman  
Qatar  
Saudi Arabia  
Syria



Some products, services or solutions may not be available in certain markets  
QuickHeat is a registered trademark of Spirax-Sarco Limited

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