



Press Release ACHEMA 2009
30 March, 2009

Efficient water-operated temperature control for temperatures up to 200°C

SINGLE at ACHEMA 2009: Temperature control technology for food, chemical and pharmaceutical applications

SINGLE Temperiertechnik GmbH of Hochdorf/Germany offers customised engineering, a wide range of temperature control systems and a variety of services. This package provides tailor-made temperature control and cooling solutions for plant engineering. One of the leading European suppliers of high-performance temperature control systems, SINGLE will present its portfolio at the ACHEMA trade show from 11 until 15 May, 2009, in Frankfurt am Main. Temperature control systems operating with water as a circulating medium will be at the centre of the presentation, as this technology offers a variety of advantages over oil-operated systems.

SINGLE's standard range is comprised of a complete series of systems operating with oil or pressurised water. All of these systems yield a maximum heating capacity of 144 kW and are suitable for temperatures of up to 350°C. SINGLE's portfolio also meets the requirements of larger line components that would otherwise call for a combination of several different temperature control systems. SINGLE developed special systems that are heated by vapour instead of by electric power to cater to processes with particularly high energy consumption. Temperature control units can also be combined with compressor cooling systems for handling more substantial temperature variations right down to temperatures of -40°C.

SINGLE's experience showed that water is the most suitable circulating media for higher operating temperatures, as it has better heat conductivity and heat transfer properties. Therefore, the heat transfer capacity of water is superior to that of oil. For many years, SINGLE has been supplying water-operated systems that exceed the atmospheric boiling point of 100°C. Standard units are designed as closed-loop pressure systems for temperatures of up to 200°C, special systems can also handle higher temperatures. SINGLE will present the latter at the ACHEMA trade show.

Customised engineering

SINGLE applies its extensive practical experience and competent application consultancy to the construction of components and lines for the chemical, pharmaceutical and food industry. This involves operating with exceptional control precision and particularly high temperatures, strict adherence to explosion damage protection standards and controlling other process parameters, to name but a few.

Many features and options

SINGLE temperature control systems are equipped with flow meters as standard. These are becoming increasingly important for assessing, monitoring and documenting process parameters particularly during the production of high-quality products. SINGLE uses flow meters that operate without moving parts and with differential pressure. Hence, they are maintenance- and wear-free.

SINGLE temperature control systems are equipped with SC controllers for open- and closed-loop control with instructions in several different languages. They provide graphics capable text display, detailed operation and alarm messages as well as real-text parameter descriptions, graphic presentation of measured and limit values of all temperatures and flow rate as well as numerous other monitoring and alarm functions. Digital interfaces ensure reliable communication with a central computer.

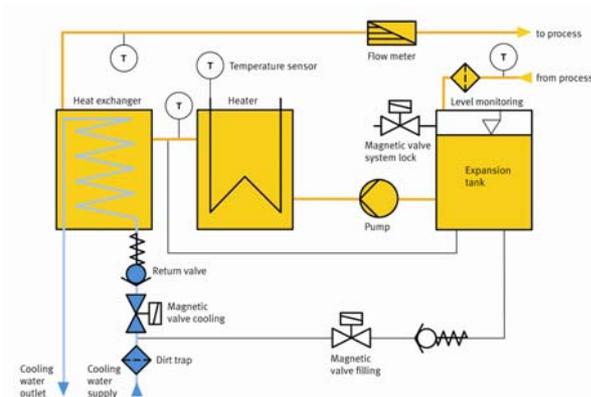
When specially equipped SINGLE temperature control systems meet the standards of the ATEX directive for explosion protection and safety (94/9/EC).

SINGLE at AICHEMA 2009
Hall 4.0, Stand N11 / N12



State-of-the-art water-operated temperature control systems like SINGLE's STW 200 – are rugged yet compact and have a small footprint

*Photo by SINGLE
Temperiertechnik GmbH,
Hochdorf/Germany*



Leading-edge water-operated temperature control systems are equipped with high-quality hydraulics components and numerous sensors for process monitoring and closed-loop control

*Diagram by SINGLE
Temperiertechnik GmbH,
Hochdorf/Germany*



SINGLE in profile

SINGLE has been developing, producing and selling high-performance temperature control systems for more than 40 years. The SINGLE product portfolio consists of high-quality temperature control units with water or oil as a circulating medium, heat transfer units, water-to-water chillers as well as customised series and solutions. SINGLE uses only high-quality components and materials. Long-standing customers testify to the ease-of-use and the reliable operation of SINGLE units even under high load.

The company works with an international network of local sales and service points. Services and after-sales support on all temperature-control related problems, commissioning, on- and off-site training complete the SINGLE portfolio. SINGLE is certified to EN ISO 9001:2000-12, has technology and manufacturer certifications that meet the European Pressure Equipment Directive (PED) and complies with standards such as UL and regional directives to UL, CSA and GOST.

The company, which employs 110 people, has been a member of Looser Holding AG of Arbon/Switzerland since 2006.

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