

KSB releases new drinking water circulator

KSB SE & Co KGaA has launched the CalioTherm S, a new high-efficiency circulation pump.



KSB's new drinking water circulator.

THE maintenance-free glandless pump is designed to pump drinking water in closed circuits, which are commonly found in single-family or two-family houses as well as in larger building projects. It pumps hot drinking water to the tap points, and then back to the water heater through the circulation line. This means that hot water is available at

the tap points without any delay.

Like the other Calio pumps, the new KSB circulators offer a high-efficiency permanent magnet motor to achieve top efficiencies. With one-touch operation the flow rate can be adjusted via three speed levels. In the event of a blocked rotor the motor stops automatically, and a fault is indicated. Three LEDs display the oper-

ating status.

Threaded ends are available as Rp ½ internal thread (EN 10266) or as an optional screw-on set with an integrated lift check valve and a G 1 external thread (DIN ISO 228). The maximum flow rate equals 0.7 m³/h. The pump's maximum head is 1.4 m. The drinking water temperature should measure between +5°C and +65°C.

The new pump sets can be supplied with either a plug or a cable. This enables electrical connection without any tools. While the volute casings of the new pumps are made of brass CW612N, the impellers are made of glass fibre reinforced plastic. The shafts and the cans are made of ceramic materials.

Beware of bogus filtration products

ISO-Reliability Partners is the only legitimate manufacturer of Filter Focus™ hydrocarbon filtration products. "The brand is a registered trademark and use is strictly authorised under licence," says **Craig FitzGerald**. An example is Filter Focus Kathu (Pty) Ltd. in the Northern Cape. Craig, who developed and refined the range of microfine filtration products over a 15-year period, warns against the use of copied products passing under the Filter Focus™ brand.

"The exacting performance results of the original filtration products were refined under strict standards developed to what is regarded as the most efficient and cost effective solutions for hydrocarbon cleanliness available globally," comments Craig. Fluid cleanliness

standards achieved by Filter Focus™ brand owner ISO-Reliability Partners far exceeds present industry standards. This significantly increases lubricated component and useful oil life.

Craig confirms that the need to warn the market has arisen due to sub-standard manufacturing practices by third parties. The copied products available on the market are easy to identify by their black or green plastic end caps without permanent seals.

"Customers report that seals are reused with these filter elements, breaking the vital rule of filtration for effective sealing under pressure. Plastic deforms with heat and pressure, making this option highly unsuitable for in-operation lube filtration," warns Craig.

Genuine Filter Focus™ products from ISO-Reliability Partners can be identified by heavy-duty steel end caps stamped 'ISO CERTIFIED', with no compromise, permanent, single-use nitrile seals. Diesel filtration solutions make use of a higher standard Viton seal to resist chemical attack and filter leaching.

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"There is a clear lack of knowledge around standards or ISO cleanliness when it comes to sub-standard manufacturers passing off inferior products."

manufacturers passing off inferior products. Elements are exposed to atmospheric dust and filter windings appear haphazard and of poor quality," says Craig.

"These manufacturers are attempting to capitalise on the reputation and hard work of ISO-Reliability partners and, in so doing, put users of copied filter elements at great risk. If external particulate contamination is introduced into high precision, high value fluid systems of critical production equipment, equipment failures are assured," adds Craig.

ISO-Reliability Partners produces its filtration elements under strict cleanliness standards using HEPA air filters to purify and eliminate the possibility of airborne particulate being exposed to the final products. HEPA air filtration effectively removes 99.7% of viruses and bacteria, 99.8% microorganisms, and 88.9% formaldehyde.

Using high-precision dust sensors, the company monitors and ensures removal of PM.25 dust, bacteria, pollen, and smoke. Furthermore, it makes

use of a cold catalyst air filter with honeycomb activated carbon to absorb and decompose formaldehyde, mould, phenol, smoke, benzene, xylene, and other harmful gases in the air.

In terms of air purity within its production facility, Craig notes that this involves the removal of gases, dust, and particulate matter 40 times smaller than the naked eye can see. As such, extreme measures are necessary to reach the desired air purity within the company's filter element facility.

ISO-Reliability Partners' reputation and success spans 25 years, with it owning and managing the iconic Filter Focus™ brand, and Craig having incorporated all his intellectual property into the new company. It is an own emblem manufacturer (OEM) of class-leading micro fine oil filtration solutions, vacuum dehydration systems, automated water removal for compressed air and high efficiency industrial air scrubbing.

For further information, visit: www.iso-reliability.com

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Benefits:

- IoT real-time data to enable efficient planned maintenance
- Reduced downtime through tool free cartridge replacement
- Seamless integration with existing infrastructure thanks to 4-20mA remote control option



- Water treatment application areas include Automotive, Food and Beverage and Chemical.
- Monitor pump health with Remote Assistant App**

The IoT-based app is specifically designed for monitoring pump health remotely, reduc-

ing physical interaction and scheduled maintenance. Users can check critical functions and receive alerts of potential problems with just a smartphone, minimizing downtime. The Ds500 is equipped with this technology for efficient monitoring.

For further information visit Verder website: www.verder.com