

Zeparo ZT Turnable for maximum separating performance

- **Flexible turnable dirt separator up to DN 32**
- **Optimum combination of all known separating principles**
- **Easy installation and less maintenance work**
- **Cost-effective solution with a long service life**

Erwitte, October 4 – IMI Hydronic Engineering has announced a new addition to its respected range of dirt and microbubble separators – the Zeparo ZT turnable. The Zeparo ZT turnable separators supplement IMI Pneumatex's comprehensive range around venting and separating microbubbles, sludge, air and magnetite in heating and cooling water systems and protecting important system components such as pumps, boilers, heat pumps, and heat meters. The Zeparo series has set the standard for highly efficient and durable performance in commercial applications for more than ten years. These same qualities are now available with even more flexibility for domestic use and smaller installations. The Zeparo ZT turnable is the ideal solution for many different applications thanks to its modular structure, pressure-rated all-metal housing (PN 10), and ability to install horizontally and vertically.

Accumulated dirt, air, and gases can severely impair the performance and service life of HVAC systems. For example, dirt and corrosion in pipes can increase pump energy costs by up to 35% in the year following installation and can cause signs of wear in the pump itself. In addition, excess air and gases in the system can reduce the performance of radiators by up to 80%. The flexible, turnable dirt separator combines an optimum combination of all known separating principles: flow reduction, conduits, centrifugal separation, and bubble seeds. The intelligent arrangement of diverters in the form of an upward spiral offers an efficient surface against which the dirt particles can collide, losing kinetic energy so that they can be effectively separated from the water and subsequently flushed into a container, away from flow turbulence. The principle guarantees an excellent degree of separation. In the product name, "heli" stands for helical and indicates the tangential dynamics in the separation process, and "still" indicates the stillness required for the defined separation of gaseous and solid components.

The Zeparo ZT turnable is suitable for non-aggressive and non-toxic fluids and use in applications with antifreeze concentrations of up to 50%. It exploits physical principles which underpin its very high separation efficiency. For example, the precision valve has a modulating venting mechanism that ensures accurate water level control without significant fluctuations. The protected air outlet with a marked venting function provides maximum reliability because exploding bubbles only cause minimal float movements. Even with a 10-

fold pressure increase, the water level can't reach the venting mechanism. The special float design maximises stability, minimises vibration, and optimises the passage of gas bubbles.

The DN20 version of the turnable Zeparo ZT has a simple compression fitting, making connecting pipes with smooth walls easy. In another USP, the respected Helistill separator (an IMI Pneumatex innovation) uses centrifugal forces, reduces the flow speed and includes a partition to disrupt the flow, creating the perfect combination of all known separating principles. "Leakage-free" venting means that gas and microbubbles are easily expelled. It can be combined with an extra-strong magnetic rod, effectively removing even the most minor magnetite residues. The compact dirt separator guarantees an effective separation of dirt, sludge, and microbubbles in all HVAC systems, however small.

One significant advantage of the new dirt separator is its high degree of flexibility and its customisable design. It allows for detaching the separation chambers from the connector during installation, making the system quick and easy to install in any position and guaranteeing a long service life.

All models are available with a thermal insulation shell made of expanded polypropylene (EPP) with thermal conductivity of 0.035 W/mk. This helps to reduce unwanted heat losses and improve energy efficiency significantly. The insulation shell consists of 4 parts, and one part can remain on the Zeparo ZT Turnable while the part for the separation chambers is removed to remove the magnetic rod and flush away dirt and magnetite. The unit is then easy to put back again after cleaning. Installers now have an easy, flexible, and cost-effective solution in the turnable Zeparo ZT. It is a single product that can deliver long-lasting, energy-efficient performance for many smaller installations. There is no longer any need to stock multiple products for different system types.

For more information please contact:

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About IMI Hydronic Engineering

IMI Hydronic Engineering Deutschland GmbH (formerly TA Heimeier GmbH) is a global supplier of and specialist in hydronic distribution systems and room temperature controls. With many years of experience, the company understands the various aspects of hydronic distribution, and is an expert partner for customers wishing to optimise and improve the efficiency of HVAC systems. The IMI Pneumatex, IMI TA and IMI Heimeier brands were united in 2011, combining their expertise in pressurisation, dirt separation, degassing, balancing and control, and thermostatic control. Our installation, retail and planning partners now have a single source for system solutions. Since the company was founded more than 85 years ago, the emphasis has been on high-quality products with long service life. This philosophy is reflected in the choice of raw materials, environmentally friendly production processes and, importantly, the technology used in the products. This means we can help our partners create energy-efficient and economical heating systems.

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Press release

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Zepano ZT Turnable: The Zepano ZT Turnable separator supplements the comprehensive range in the venting and separating microbubbles, sludge, air and magnetite in heating and cooling water systems.



Zepano_ZU_front: For more than ten years, the Zepano series has been setting the standard for highly efficient and durable performance in commercial applications.

Images: IMI Hydronic Engineering
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