

Water products and technologies for clean water and wastewater



Nereda aerobic granular sludge is an extremely cost-effective, efficient, and sustainable way to meet challenging effluent quality targets. Nereda technology purifies wastewater using the unique features of aerobic granular sludge which combines high quality effluent with a low footprint and energy requirement. Nereda's robust granules settle rapidly – enabling a fast, effective, single-tank process.



Ephyra is a state-of-the-art digestion technology that optimises and maximises the capacity of existing and new anaerobic digesters. By using plug flow configuration and smart process control, this technology significantly increases the removal of organic material and boosts the biogas production. Furthermore, it reduces the potential for downstream greenhouse gas emissions and is considered an integral part of best-in-class sludge treatment centers to achieve net zero.



Helea is an advanced anaerobic digestion (AAD) pre-treatment technology comprises a three-step process of heating, pasteurisation and biological hydrolysis. Helea increases treatment capacity and is optimised to deliver the greatest net energy benefit and achieve a Class A biosolids product. The process benefits include no requirement for pressure vessels (100% plant availability) or any chemical additions, providing the sustainable route to advanced digestion.



Kaamera is a natural biopolymer extracted from excess sludge from Nereda wastewater treatment installations. Once extracted from the sludge, this valuable natural biopolymer can be used for various applications, including as a biostimulant for agriculture and horticulture. Kaamera significantly reduces the amount of sludge remaining (by up to 30%), considerably removing the costs of sludge treatment and disposal.



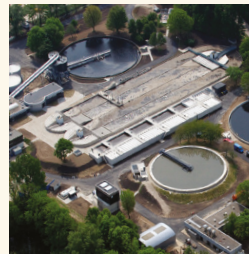
Aquasuite is AI-powered software that provides you with actionable insights into your water and wastewater infrastructure, enabling better decision-making and autonomous performance optimisation. From water and sewer networks to early detection of abnormalities and smart control of water treatment and sludge processing, our software suite empowers industries and utilities to effectively manage all their water and wastewater processes, enhancing performance and efficiency.



Aurea combines biological activated carbon filtration (BACF) and oxidation, such as via ozone, to provide a more sustainable, efficient, and cost-effective way to remove micropollutants. The BACF step efficiently removes the majority of dissolved organic carbon (DOC), nitrite, ammonium, and some micropollutants, which means that a much lower amount of oxidation is required to target the remaining micropollutants. This reduces the whole life cost and carbon of treatment, whilst expanding the range of compounds that can be effectively removed to protect the environment.



Crystalactor is a sustainable crystallisation technology for the removal and recovery of hardness, heavy metals, phosphates, fluoride or sulphate from drinking, process and wastewater. This proven zero-waste process is characterised by low operational costs and a small footprint. Instead of waste sludge, the process produces compact and reusable dry pellets.



Carrousel is a proven, cost-effective, reliable and highly efficient method for the biological treatment of municipal and industrial wastewater. Its clear advantage is the continuous biological process of BOD removal and simultaneous nitrification and de-nitrification in a single reactor with only limited equipment required.

About Haskoning:

Haskoning is an independent consultancy which integrates 140 years of engineering expertise with digital technologies and software solutions. In the water market, we provide forward-looking services, state-of-the-art software, and world-leading technologies, encompassed in a coherent vision for sustainable, integrated water use. We take a holistic view and work together with key universities and research institutions so you're always one step ahead.

For further information on how we can help you, contact:

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We're here to help!

