

Press Release

Brentwood Exhibits at Achema 2022, Alongside Newly Acquired ENEXIO Water Technologies
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Carbon Capture: Protect the Climate and Reduce Costs with Plastic Fills



Structured MASSdek packs, made of polypropylene (Picture: ENEXIO Water Technologies); Jonathan Perry (Picture: Brentwood)

Hürth (Germany) / Reading (Pennsylvania) – August 2, 2022 – Fossil fuels continue to play a major role in industry and energy supply. Carbon capture (CO₂ capture) will, therefore, be essential to help many companies shape the transition to the zero-emission age. The material selection for the installation of chemical flue gas scrubbers has a decisive influence on the investment costs for the relevant carbon capture systems.

Technologies for wet chemical CO₂ capture, e.g. amine gas treatment or alkaline treatment, have traditionally utilized corrosion-resistant, stainless steel packs. When carbon capture is performed on a large scale, this can result in supply chain challenges acquiring the structured, stainless packs. Plus, steel is expensive: The metal packs account for roughly one-third of the costs of a CO₂ capture system.

The use of thermoplastics, such as polypropylene (PP), provides substantial cost savings potential. For direct CO₂ capture (direct air capture, or DAC) by means of absorption, structured packs made of plastic are being used more and more in large plants.

Structured PP packs, e.g. the MASSdek packs, are optimized for material exchange and achieve levels of capture that are comparable to those of metal packs, while costing only half the price. The packs can be used in a wide range of temperatures, withstand environmental influences, are resistant to the chemicals used for waste air purification, and can be designed such that they are fire resistant. Polypropylene can also be processed easily and in a highly automated way, enabling production capacities to be rapidly expanded when demand for packs increases. In addition to the packs, Brentwood offers installation components such as support grids, mist eliminators, and fluid distributors, in various materials and for a wide range of installation situations.

“The choice of plastic for material exchange packs can significantly reduce the costs of carbon capture,” says Jonathan Perry, Brentwood’s Director of Business Development for Mass Transfer. “We are glad to make a significant contribution to climate protection with our structured packs while keeping the financial impact on industry and society to a minimum.”

The printable images for the press release can be found here in the [media database](#).

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About Brentwood & ENXIO Water Technologies

Brentwood Industries, Inc., is a family-owned, family-run business, headquartered in the U.S. and operating across the globe. For over 50 years, Brentwood has applied plastic technologies to solve unique customer challenges and fostered a culture of innovation, entrepreneurship, and sustainability.

Today, Brentwood is an industry leader in the development, engineering, and production of plastic solutions for cooling tower, mass transfer, medical, water treatment, consumer goods, stormwater management, construction, and battery applications.

Brentwood acquired ENXIO Water Technologies in January 2022, expanding the company's global footprint, adding new competencies, and enabling growth of Brentwood's existing product lines.

Learn more at www.brentwoodindustries.com and www.enxio-water-technologies.com.