

**FOR IMMEDIATE RELEASE****CONTACT:** Caitlin Watras
Gray & Rice Public Relations
1-617-367-0100, ext. 100
cwatras@gr2000.com**KOCH MEMBRANE SYSTEMS INTRODUCES PACKAGED MBR SYSTEMS***Pre-Engineered System is Ideal for Small Wastewater Treatment Facilities*

Wilmington, Mass. - Koch Membrane Systems, Inc. (KMS), a world-class developer and manufacturer of innovative membranes and filtration systems, announces the North American introduction of packaged membrane bioreactor (MBR) systems. Featuring PURON™ submerged membrane modules, the pre-engineered systems produce high-quality effluent while significantly reducing the treatment system footprint, installation cost, and manpower commitment for small wastewater treatment plants.

Using PURON submerged membrane technology, the packaged MBR systems integrate membrane filtration and bioreactor processes into a turnkey solution for new and retrofit wastewater treatment plants. PURON MBR modules feature improved membrane density, reduced air scour requirements, and simplified installation compared to first-generation MBR membrane module designs. Sized for systems that require a capacity of up to 200,000 gallons per day, the packaged systems are ideal for denitrification, advanced tertiary polishing, and scalping applications. Additionally, the systems produce effluent that is capable of meeting stringent requirements for water reuse and recycle.

A key advantage of the patented PURON module is the use of a single header with reinforced hollow fibers that are fixed only at the bottom. The sealed upper end of the fiber is allowed to float freely. The free floating tip design eliminates the build-up of hair and fibrous materials that typically clog the upper ends of membrane fibers in MBR module designs that employ both top and bottom headers. Solids and particulates, including bacteria, are retained by the membrane and remain on the outside, while permeate is drawn through the membrane to the inside of the fibers. The outside-to-inside flow pattern provides optimal solids management and a high flow-rate, while using up to 50 percent less energy than other MBR systems.

The packaged MBR system consists of pre-designed and pre-assembled skids that can be custom formatted to fit facilities of various sizes and shapes, enabling fast onsite installation and start-up. The equipment, grouped by functionality, performs a number of different processes from pre-screening and biological reaction to membrane filtration and *in-situ* cleaning. The system utilizes a main control panel with PLC and HMI for remote control, continuous monitoring, and data logging.

Packaged MBR systems are increasingly used for locations where water resources are scarce, reusable-quality effluent is desirable, space availability is limited, and/or stringent discharge standards are in effect. These locations include for example, small communities, housing developments, commercial developments, resorts, hotels, malls, schools, and golf courses. The MBR is also employed for industrial applications to recycle process water; reducing wastewater disposal costs and consumption of potable water. The package design approach also allows quick expansion of the system as demand for wastewater treatment increases. To learn more about how these systems can help solve wastewater treatment problems talk to our MBR technical director by calling 1-414-771-1124.

About Koch Membrane Systems

Koch Membrane Systems, Inc. has been a global leader in separation and filtration products for more than 35 years. A designer and manufacturer of state-of-the-art membrane cartridges and elements, as well as complete membrane systems, Koch Membrane Systems products are specified for the most demanding applications. To enhance membrane performance, KMS offers a line of antiscalants and cleaning chemicals, and provides a wide range of maintenance and technical service programs. The company has supplied membranes for more than 15,000 systems installed around the world, serving the food processing, life sciences, and general manufacturing industries, as well as providing potable water and wastewater treatment technologies for communities of all sizes.

Based in Wilmington, Mass., Koch Membrane Systems is a Koch Chemical Technology Group, LLC company. For more information on Koch Membrane Systems and its full line of membranes and accessory products, visit www.kochmembrane.com, call 1-888-677-5624 or write to info@kochmembrane.com.

####

PURON is a trademark of Koch Membrane Systems GmbH and is registered in Germany and other countries.

