Small Wastewater MBBR System

The ASO® Alpha! moving bed bioreactor wastewater treatment system is a continuous flow design utilized for the reduction of soluble organics and nutrients. The key to the system is the US Patented media which provides a “home” for biological colonies of bacteria and protozoa to grow and flourish. The media are contained within the sub-grade serial tank system where they are immersed. Water flows via gravity from influent to effluent discharge. A gentle submerged mixer evenly applies the water to the media throughout the anoxic zone. Next a coarse air dispersal system aerates the media via a stainless steel grid for continuous application of oxygen to the bio-colony. Simple clarification removes solids for efficient operation of the system.

MBBR BOD & Nitrogen Removal

The ASO® Alpha! provides control of the system with PEWE Command Control®. Initial treatment begins with reduction of excess BOD from the wastewater. A level transmitter on the incoming EQ tank allows the PLC to then send water to the treatment plant as needed. The de-nitrification or anoxic stage is facilitated by a media agitating mixer. Next a quiet blower incorporates optimal dissolved oxygen levels while mixing the media during the nitrification stage. Final clarification is achieved by settling solids for later collection at the influent chamber with a timed recirculation pump.

ASO® Alpha!

Benefits:
- Applications flows; 5k to 30k GPD
- Ship by truck, rail or sea
- Simple plumbing and electrical connections
- Serial MBBR tanks no problem to install
- Versatile for many effluent applications
- Easy to operate and maintain
- High energy efficiency

Many MBBR Applications

The ASO® Alpha! patented media technology provides reliable, cost effective long-term wastewater treatment. Whether desert or arctic conditions, the ASO® Alpha! MBBR can be configured for the world’s most remote places. Applications include Municipal, Residential, Community, Commercial and Industrial.

CALL PEWE TODAY AND OUR SKILLED STAFF CAN ASSIST WITH YOUR APPLICATION.