



ASO® Cirus! Wastewater Treatment MBBR

Domestic Wastewater System

The **ASO® Cirus!** 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 above-grade serial tank system where they are immersed. Water flows via gravity from the EQ basin through to effluent discharge. A gentle submerged mixer evenly applies the water to the media through out 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 DAF clarification removes solids for efficient operation of the domestic wastewater treatment system.

Many MBBR Applications

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

ASO® Cirus!

<u>MODEL</u>	<u>GPD</u>	<u>MIN ft2 ConfigA</u>
AL-05	5k	325 ft2
AL-10	10k	325 ft2
AL-15	15k	897 ft2
AL-20	20k	897 ft2
AL-25	25k	1152 ft2
AL-30	30k	1152 ft2

**ASO models designed for:
75 BOD, 200 TSS, nil FOG, Avg @60F**

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 denitrification 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! Better MBBR Only With PEWE

Benefits:

- 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
- Applications flows; 5k to 30k GPD



www.pewe-usa.com

