



**ASO® *Cirus!***  
**Wastewater Treatment MBBR**

US Patent #D827765

**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.



**PEWE ASO® *Cirus!* MBBR**

**MBBR BOD & Nitrogen Removal**

The **ASO® *Cirus!*** 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 DAF clarification is achieved by floatation of solids for later collection with a heavy duty precision timed pump.

**Many MBBR Applications**

The **ASO® *Cirus!*** patented media technology provides reliable, cost-effective, long-term wastewater treatment. Whether dessert 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>MGD</u>	<u>Min ft² ConfigA</u>
MO-50	0.05	1,600 ft²
MO-100	0.10	2,500 ft²
MO-150	0.15	3,600 ft²
MO-200	0.20	4,225 ft²
MO-250	0.25	6,375 ft²
MO-500	0.50	12,000 ft²

**ASO® *Cirus!* design:**  
**75 BOD 200 TSS Nil FOG Avg @ 60F**

**ASO® *Cirus!* Better MBBR**

Only with **PEWE**

- Application flow; 0.05-0.50 MGD
- Ship by truck, rail or sea
- Simple plumbing and electrical connections
- Serial MBBR tanks no problems to install
- Versatile for many effluent applications
- Easy to operate and maintain
- High energy efficiency

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

