



# ASO® *Cirus!* Wastewater Treatment MBBR



PEWE ASO® *Cirus!* 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.

**ASO® *Cirus!*  
Better MBBR  
Only With PEWE**

## 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.

### Benefits:

- Application flow; 0.05 - 0.50 MGD
- 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

<b>ASO® <i>Cirus!</i></b>		
<b>MODEL</b>	<b>MGD</b>	<b>Min ft<sup>2</sup> ConfigA</b>
MO-50	0.05	1,600 ft <sup>2</sup>
MO-100	0.10	2,500 ft <sup>2</sup>
MO-150	0.15	3,600 ft <sup>2</sup>
MO-200	0.20	4,225 ft <sup>2</sup>
MO-250	0.25	6,375 ft <sup>2</sup>
MO-500	0.50	12,000 ft <sup>2</sup>

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

## 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.

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

