



**BIOFILTRO**  
worm powered wastewater solutions

## A Can of Worms for Climate Smart Winemaking



Control Unit



Wiggle Room

By pairing our [Control Unit](#) with the [Wiggle Room](#), BioFiltro delivers the ultimate can of worms. Our pre-packaged system includes a solid separator, pH adjustment system, flow meter, equalization tank, pumps, PLC & HMI and a two-story [BIDA® System](#), our patented worm powered wastewater treatment process. Units are built in the US and clients are able to choose the the color(s) of the unit(s).

Discharge from the winery enters the Control Unit through its included solid separator before arriving to the equalization tank. Here, probes and sensors monitor water quality before it is dispersed evenly across the two floors of the Wiggle Room(s) where it percolates down through layers of wood media where worms and microbes capture and digest contaminants. Once treated, water gravity feeds out of the system through exit pipes and is ready for reuse in irrigation in as little as four hours.

Blend our earthy tones with your sustainability forward wines and choose worms for not only the cost-effective but also climate smart wastewater solution for your winery.

### Circular and Regenerative

- ✓ Energy Efficient
- ✓ Modular and Scalable
- ✓ Minimal Odors & Noise
- ✓ Nature Based Technology
- ✓ Worm Castings Byproduct
- ✓ Sludge Free
- ✓ Automated





## Take Control of Your Wastewater

Each Control Unit comes with a control panel that is built in house and listed under UL508A; an HMI, and **Intelligence of Worms (IoW)**; BioFiltro's very own control system and monitoring software. Accessible from both mobile and desktop devices, IoW provides verified users with historians and the ability to monitor the system, equipment, and water levels in real time. IoW can push alerts and troubleshooting guidance to assigned operators to facilitate. Through IoW, the system's operations are automated and remotely accessible.



### Technical Specifications

Treatment Capacity	≤1,200 GPD for average winery (~10,000 cases), per Wiggle Room*
Nutrient Removal	Up to 99% removal of BOD5, TSS, TKN, Ammonia, and Phosphorus
Treatment Time	Continuous process 4-hour treatment time when operating in parallel 8-hour treatment time when operating in series
Treatment Media	~50 cubic yards of wood media per Wiggle Room ~1/2-2" Douglas Fir shavings or equivalent with minimal sawdust
Operating Dimensions & Weight	Wiggle Room 20' L x 8'W x 11'H & ≤ 22,000 lbs Control Unit 8'L x 8'W x 9'H & ≤ 12,500 lbs At least three sides of the Wiggle Room need to be accessible
Client Site Prep Requirements	90% compaction & gravel or concrete pad Concrete footings ≤50A, 240 or 480 V, 3PH
Electrical Demand	0.0007 kWh/gallon treated when operating in parallel 0.0014 kWh/gallon treated when operating in series
Optional Equipment	Solar Panels for off-grid operations Climate control equipment and insulation