



# HIT SYSTEM™

HEADWORKS® INTEGRATED TREATMENT SYSTEM™



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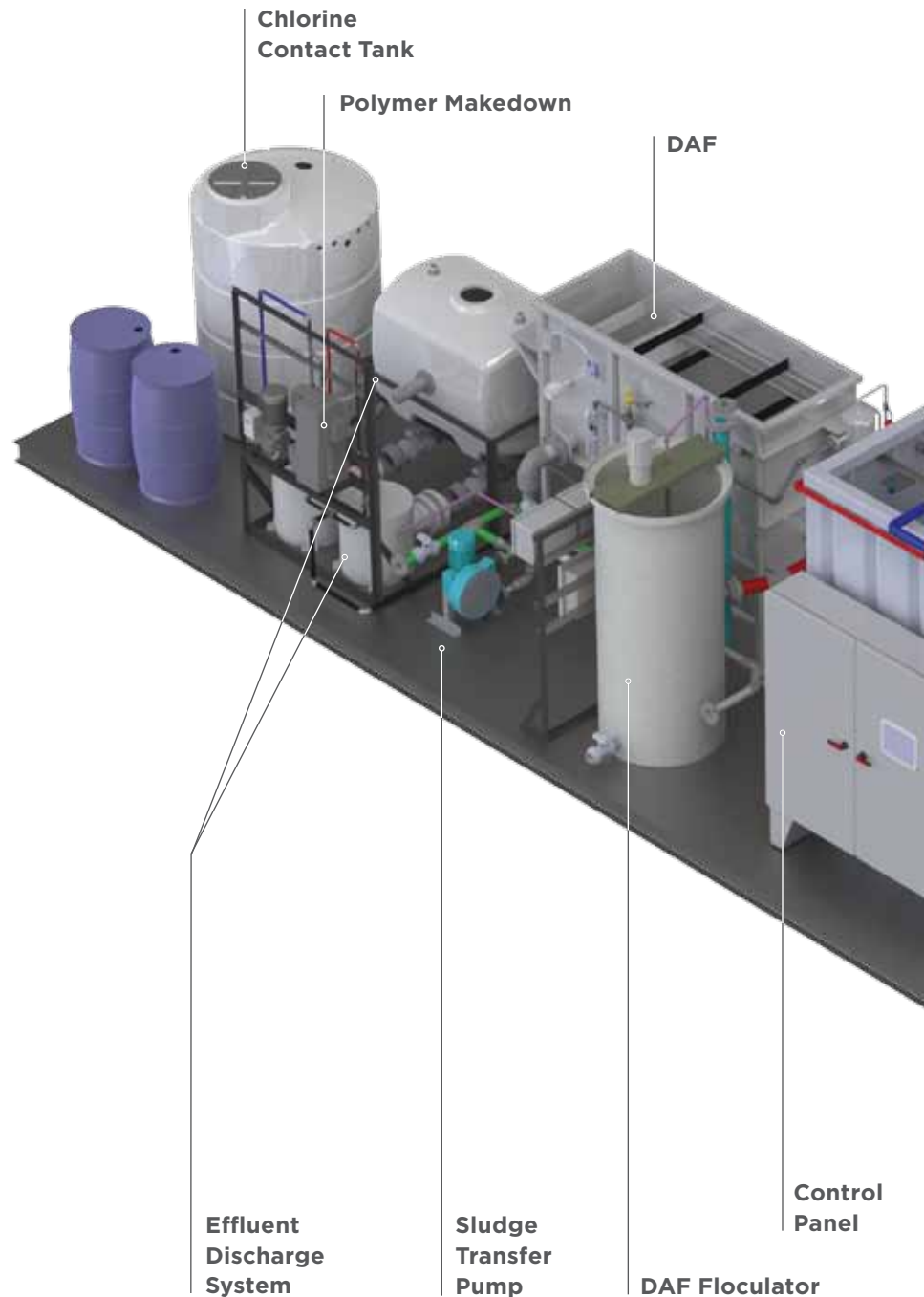
The Headworks Integrated Treatment System is a modular, compact, wastewater treatment plant that uses proven moving bed biofilm reactor (MBBR) technology to treat wastewater - with discharge effluents meeting stringent BNR discharge requirements. The HIT System can be designed to provide complete BOD and Nutrient Removal along with clarification, tertiary filtration, and disinfection. At any given time, the system can be expanded to meet new discharge requirements or increasing flow rates.

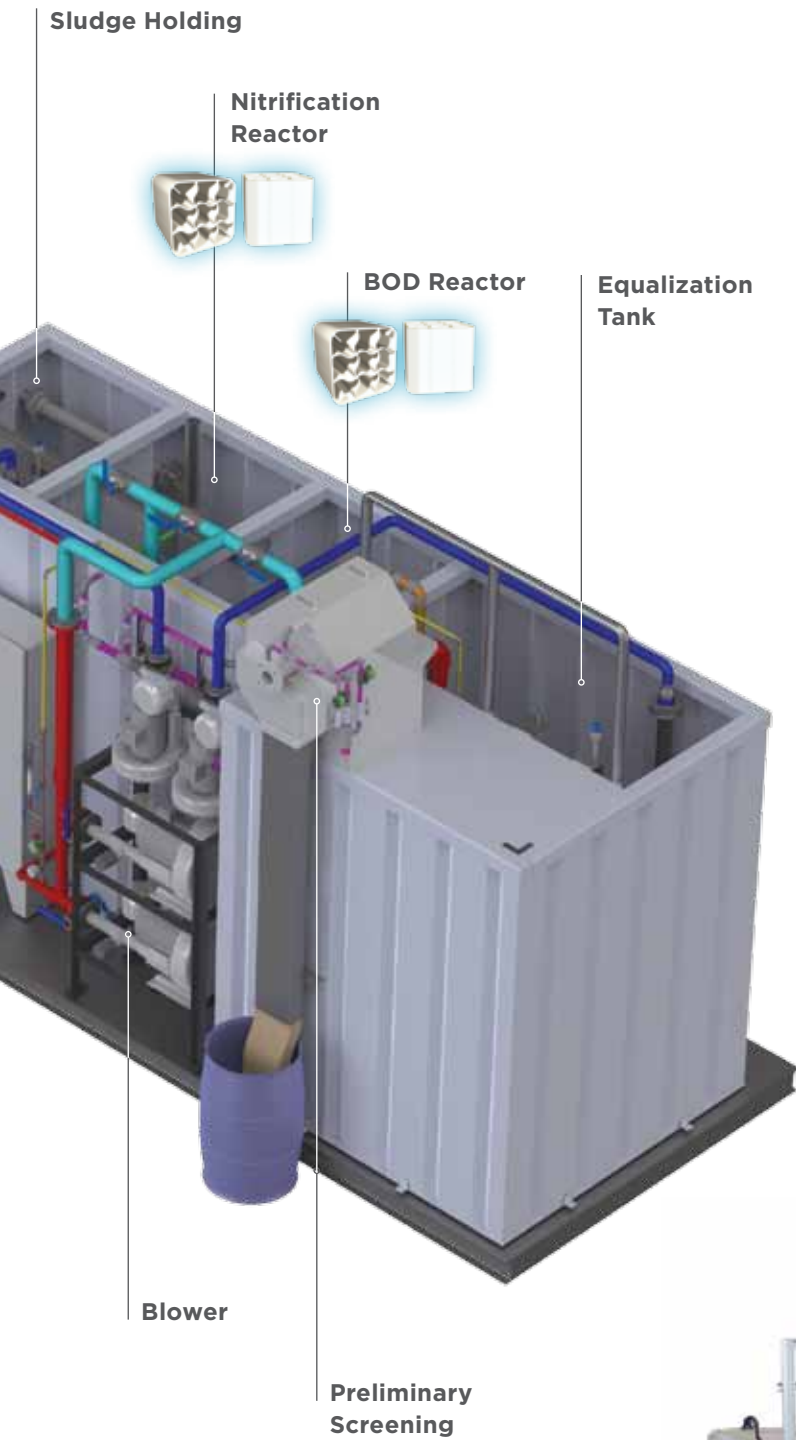
### Advantages

- Small Footprint
- Operator Friendly
- Rapidly Deployed
- Modular
- Transportable
- Skid Mounted
- Expandable
- Reuse Water is Achievable
- Filtration - Title 22 Certified

### Applications

- Decentralized System
- Residential Communities
- Office Buildings
- Hotels / Resorts
- Labor & Military Camps
- Sewer Mining / Water Reuse
- Construction Sites





## Complete Treatment Solution

The HIT System is modular, expandable, dependable, and simple to operate. With a variety of models and treatment options available, the engineers at Headworks BIO can design a system that fits your facilities needs.

BOD Reduction Only ▶



◀ BOD & Nitrification



Nutrient Removal ▶



## Finished Product

Designed to reduce BOD to 10 mg/L, Ammonia to 2 mg/L, and TSS to 15 mg/L.



## HIT System Specifications

Flow	HIT Model	Typical Footprint*	Effluent Limits**	Power Required
-100 m <sup>3</sup> /day 26,500 GPD	HIT-100	150 m <sup>2</sup> / 1,600 ft <sup>2</sup>	BOD Only: 10 mg/L	32 kW
	HIT-100	162 m <sup>2</sup> / 1,750 ft <sup>2</sup>	BOD: 10 mg/L, NH <sub>3</sub> -N: 1 mg/L	37 kW
-250 m <sup>3</sup> /day 66,000 GPD	HIT-250	150 m <sup>2</sup> / 1,600 ft <sup>2</sup>	BOD Only: 10 mg/L	37 kW
	HIT-250	162 m <sup>2</sup> / 1,750 ft <sup>2</sup>	BOD: 10 mg/L, NH <sub>3</sub> -N: 1 mg/L	44 kW
-500 m <sup>3</sup> /day 132,000 GPD	HIT-500	150 m <sup>2</sup> / 1,600 ft <sup>2</sup>	BOD Only: 10 mg/L	39 kW
	HIT-500	162 m <sup>2</sup> / 1,750 ft <sup>2</sup>	BOD: 10 mg/L, NH <sub>3</sub> -N: 5 mg/L	50 kW
-750 m <sup>3</sup> /day 198,000 GPD	HIT-750	150 m <sup>2</sup> / 1,600 ft <sup>2</sup>	BOD Only: 10 mg/L	44 kW
	HIT-750	162 m <sup>2</sup> / 1,750 ft <sup>2</sup>	BOD: 10 mg/L, NH <sub>3</sub> -N: 5 mg/L	55 kW

\*Complete system includes: EQ tank, MBBR tank(s), support equipment skids, sludge storage, sludge dewatering (ie: beltpress), DAF, and sand or disc filter.

\*\*Effluent TSS limit for all systems is 10 mg/L



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