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

<table>
<thead>
<tr>
<th>Flow</th>
<th>HIT Model</th>
<th>Typical Footprint*</th>
<th>Effluent Limits**</th>
<th>Power Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>-100 m³/day 26,500 GPD</td>
<td>HIT-100</td>
<td>150 m² / 1,600 ft²</td>
<td>BOD Only: 10 mg/L</td>
<td>32 kW</td>
</tr>
<tr>
<td></td>
<td>HIT-100</td>
<td>162 m² / 1,750 ft²</td>
<td>BOD: 10 mg/L, NH₃-N: 1 mg/L</td>
<td>37 kW</td>
</tr>
<tr>
<td>-250 m³/day 66,000 GPD</td>
<td>HIT-250</td>
<td>150 m² / 1,600 ft²</td>
<td>BOD Only: 10 mg/L</td>
<td>37 kW</td>
</tr>
<tr>
<td></td>
<td>HIT-250</td>
<td>162 m² / 1,750 ft²</td>
<td>BOD: 10 mg/L, NH₃-N: 1 mg/L</td>
<td>44 kW</td>
</tr>
<tr>
<td>-500 m³/day 132,000 GPD</td>
<td>HIT-500</td>
<td>150 m² / 1,600 ft²</td>
<td>BOD Only: 10 mg/L</td>
<td>39 kW</td>
</tr>
<tr>
<td></td>
<td>HIT-500</td>
<td>162 m² / 1,750 ft²</td>
<td>BOD: 10 mg/L, NH₃-N: 5 mg/L</td>
<td>50 kW</td>
</tr>
<tr>
<td>-750 m³/day 198,000 GPD</td>
<td>HIT-750</td>
<td>150 m² / 1,600 ft²</td>
<td>BOD Only: 10 mg/L</td>
<td>44 kW</td>
</tr>
<tr>
<td></td>
<td>HIT-750</td>
<td>162 m² / 1,750 ft²</td>
<td>BOD: 10 mg/L, NH₃-N: 5 mg/L</td>
<td>55 kW</td>
</tr>
</tbody>
</table>

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

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