



LOW COST, LOW ENERGY, EFFECTIVE AND EFFICIENT MIXING



Marysville, OH
Mixing four BNR basins



Lake Loramie, OH
Mixing 190' diameter storm basin



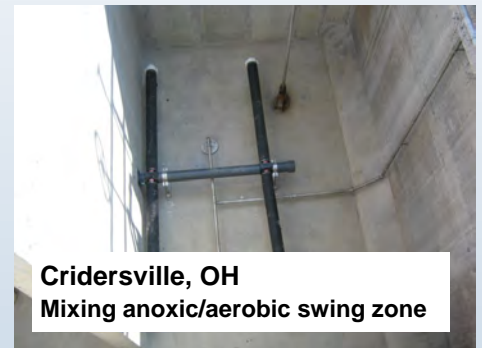
City of Houston, TX
Mixing 100'x100 backwash basin



Moon Township, PA
Mixing 1-million gallon water tank



City of Raleigh, Neuse River WWTP
Mixing chemical tanks



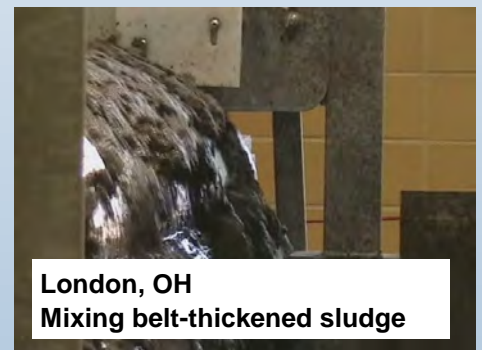
Cridersville, OH
Mixing anoxic/aerobic swing zone



City of Darien, CT
Mixing lift station



ASPC—Tucson, AZ
Mixing lift station



London, OH
Mixing belt-thickened sludge

The Pulsed Hydraulics (PHi) mixing system is sweeping the municipal water and wastewater industry due to its effectiveness of mixing, economy of operation, and ease of maintenance.

PHi mixers scale from the smallest tanks, such as lift stations and chemical mixing tanks, to the largest, including anoxic and aerobic wastewater treatment basins, and enormous potable water storage tanks

Benefits to migration to the PHi mixing system include:

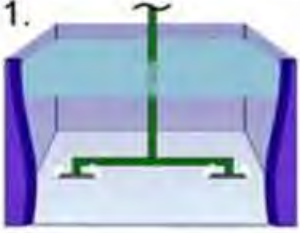
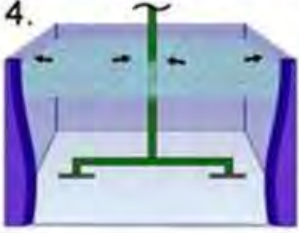
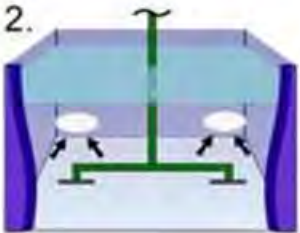
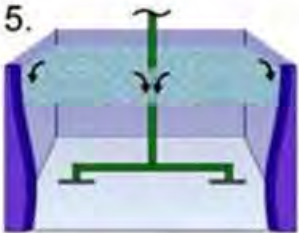
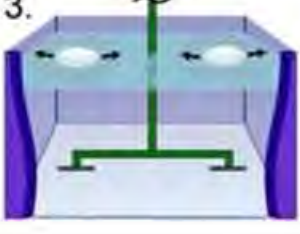
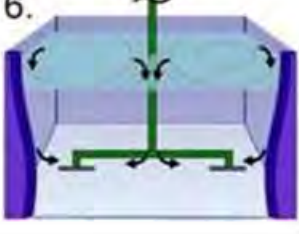
- The most energy efficient mixing system in the field—usually 50% or more energy savings by comparison
- Low system cost

- Adjustable mixing power which allows using just enough energy to complete the task
- Mixes all tanks, regardless of geometry
- No moving parts within the tank—equals—no in-tank maintenance
- Local and networked control
- Optional interactive control system to provide automated tank mixing in conjunction with tank instrumentation

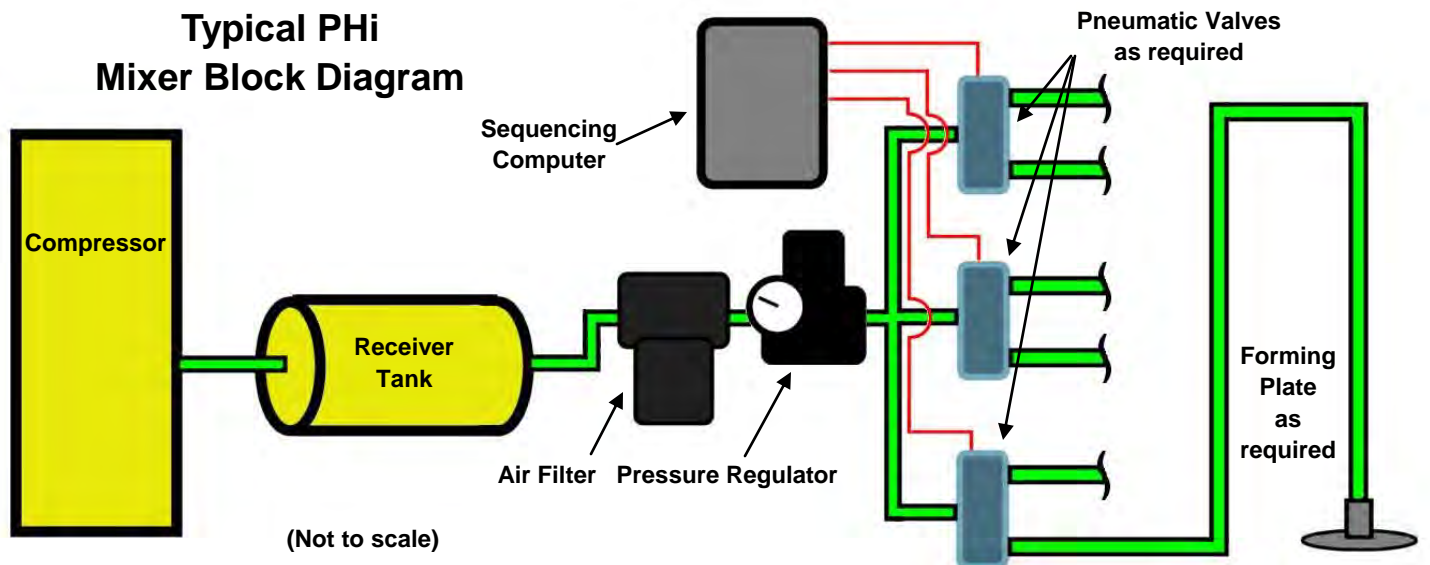
FOR INFORMATION: Visit our Website at www.phewater.com, email info@phewater.com, call us at (800) 641-1726, or write us at 15 Oro Beach Dr., Oroville, WA 98844.



MIXING WITH PHi

	<p>1. At the moment of the pulse, air wraps around the forming plate to produce a bubble mass.</p>		<p>4. Tank contents that have been pushed and dragged by the bubble mass roll sideways in a concentric circular wave.</p>
	<p>2. The bubble mass rises through the tank, pushing and dragging tank contents vertically.</p>		<p>5. As this wave hits a tank wall or the virtual wall created by a wave generated by another bubble mass, the liquid is pushed and pulled to the bottom.</p>
	<p>3. When the bubble mass hits the surface, it dissipates into the atmosphere.</p>		<p>6. As the moving contents hit the bottom of the tank, they move sideways to complete their pattern of circulation.</p>

Typical PHi Mixer Block Diagram



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