

MAGNAPAK® Treatment Systems

Packaged MIEX® Plants

Designed specifically for throughputs of 50 to 500 gpm, these preassembled, skid-mounted units allow for quick, cost-effective installation at small water treatment and industrial processing plants.

MAGNAPAK® System Features

- Treatment modules of 50 to 500 gpm
- Small footprint
- Simple and reliable operation
- Minimal energy requirements
- Pressurize Vessel units available for well-head applications
- Low installation costs
- Low operating cost

Treatment Benefits

Due to the flexibility of its placement in the treatment train and a continuous regeneration process, the MAGNAPAK® System offers many benefits over other treatment alternatives.

The resin is not typically impacted by suspended solids and as such, can be used in various locations throughout the treatment train. When used upfront of existing treatment processes, many downstream benefits may be observed due to a reduced chemical demand.

Since the system utilizes a continuous ion exchange regeneration process, treated water quality is consistent. The system also produces very low waste volumes typically less than 0.05% of throughput.



The MAGNAPAK® System is a packaged ion exchange system that uses MIEX® Resin to remove targeted species from water and wastewater streams.

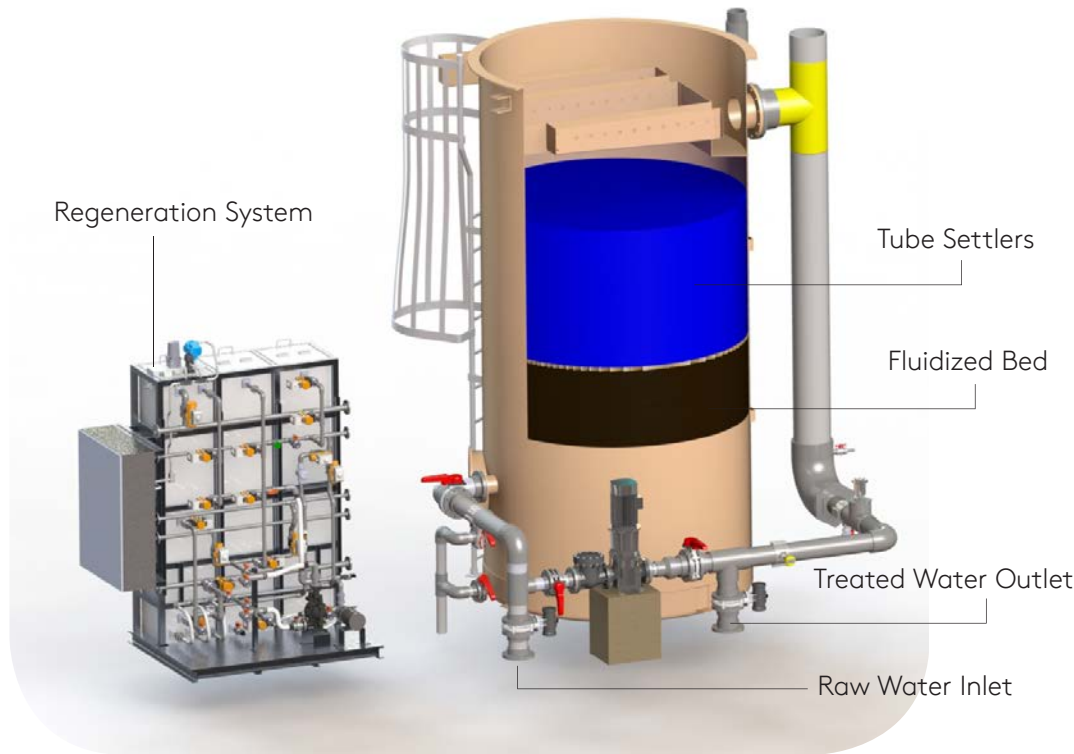
MIEX® MagnaPak® System at Newport WTP

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How the System Works

Raw water is fed to the base of the reactor vessel providing for fluidization hydraulics. Tube or plate settlers at the top of the reactor vessel assist with resin/water separation. Treated effluent overflows into collection launders and to downstream treatment processes.

Utility Requirements

- Located on a covered concrete pad or in an enclosed building
- Interconnecting piping and valving
- Access to compressed air and single or three phase power supply
- Waste Brine disposition
- Water Treatment Plant controls integration

MAGNAPAK® Footprint

Below are footprints for a range of MAGNAPAK® Treatment Systems. Additional module sizes are available.

MAGNAPAK® System Footprint

Model	Capacity (gpm)	L x W x H (ft)
MP50	50	12.5 x 4.5 x 13.5
MP100	100	13 x 5 x 13.5
MP250	250	17 x 6 x 14
MP500*	500	21 x 10 x 14.5

*Some chemical storage vessels not included.

Contact Us

Ixom Watercare can perform laboratory evaluations to determine the optimum performance of MAGNAPAK® Treatment Systems on water and wastewater streams. Budget estimates can also be provided upon request.