evoqua
WATER TECHNOLOGIES

COMAG® BALLASTED CLARIFICATION SYSTEM

HIGH-PERFORMANCE PACKAGE PLANTS

SUPERIOR SOLIDS REMOVAL FOR WASTEWATER AND DRINKING WATER APPLICATIONS

The CoMag System is now available in pre-packaged units that provide an ultra-compact, fully functional and operator-friendly option for high-performance solids removal.

THE COMAG® SYSTEM

The CoMag® System improves chemical flocculation treatment in wastewater and drinking water applications by using magnetite (a readily available, fully inert iron ore) to ballast conventional chemical floc, resulting in rapid and reliable settling and clarification. The CoMag System settles floc up to 30 times faster than conventional treatments, enabling plants to increase capacity and clarifier performance. It also helps meet tighter regulations within existing tankage and smaller treatment volumes than alternative technologies, allowing facilities to reduce plant investment costs for upgrades. The CoMag System delivers superior particulate contaminant removal for multiple applications and reliable process stability during shock load events. Additionally, the technology is sustainable because magnetite ballast is continuously recovered for reuse in the system.

Applications include:

- Tertiary treatment
- Primary treatment
- Sidestream treatment for stormflow
- Fixed-film clarification
- Lagoon effluent treatment
- Drinking water treatment
- Industrial applications, such as particulate solids removal and process water production

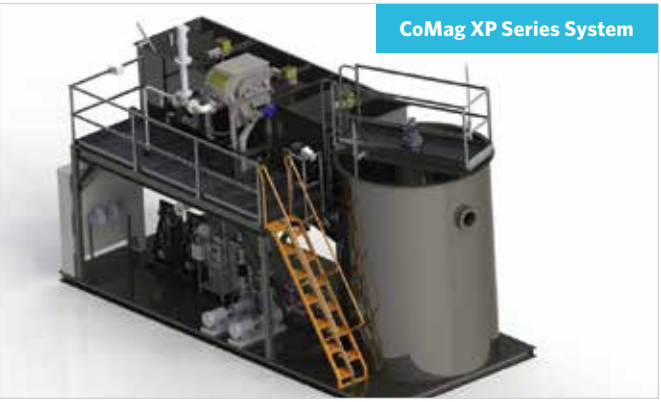
PACKAGE PLANTS

To install the CoMag System quickly at the lowest possible cost, Evoqua offers pre-engineered and pre-assembled systems for both wastewater and drinking water applications. These standard package units deliver the extraordinary solids removal performance of the CoMag System in an ultra-compact, fully functional and operator-friendly design.

FEATURES & BENEFITS

- Simple, proven and reliable ballasted high-rate clarification systems
- Multiple applications for high-performance solids removal requirements
- Cost-effective package solutions with minimal civil requirements
- Fully functional and operator-friendly systems
- Short lead times and fast commissioning
- Modular design enables combining units for higher treatment capacity
- Flexible designs with optional equipment and choice of construction material
- Easy to move units to different sites for emergency solutions

The CoMag system delivers rapid and reliable settling, as seen in this clarifier underwater photo at the Sturbridge, Mass., wastewater treatment facility, which generates total phosphorous of less than 0.05 mg/L and turbidity of less than 0.5 NTU.



The CoMag System XP Series package plant comes fully equipped, including an integrated control panel and chemical feed systems, and skid mounted.

The CoMag MP Series System modular plants feature a high-flow capacity and an extremely compact design.

COMAG XP SERIES SYSTEM

		Model		
		75K	**150K**	**300K**
DW Max. Daily Flow	1000 gal/d	75	150	300
	m^3/hr	11.8	23.7	47.3
WW Avg. Daily Flow	1000 gal/d	75	150	300
	m^3/hr	11.8	23.7	47.3
WW Peak Flow	1000 gal/d	225	450	900
	m^3/hr	35.5	71.0	142.0
Length	ft	18	22	28.5
	m	5.5	6.7	8.7
Width	ft	9.5	10	11
	m	2.9	3.0	3.4
Height	ft	16.5	16.5	17
	m	5.0	5.0	5.2

DW = Drinking Water.
WW = Wastewater.

COMAG MP SERIES SYSTEM

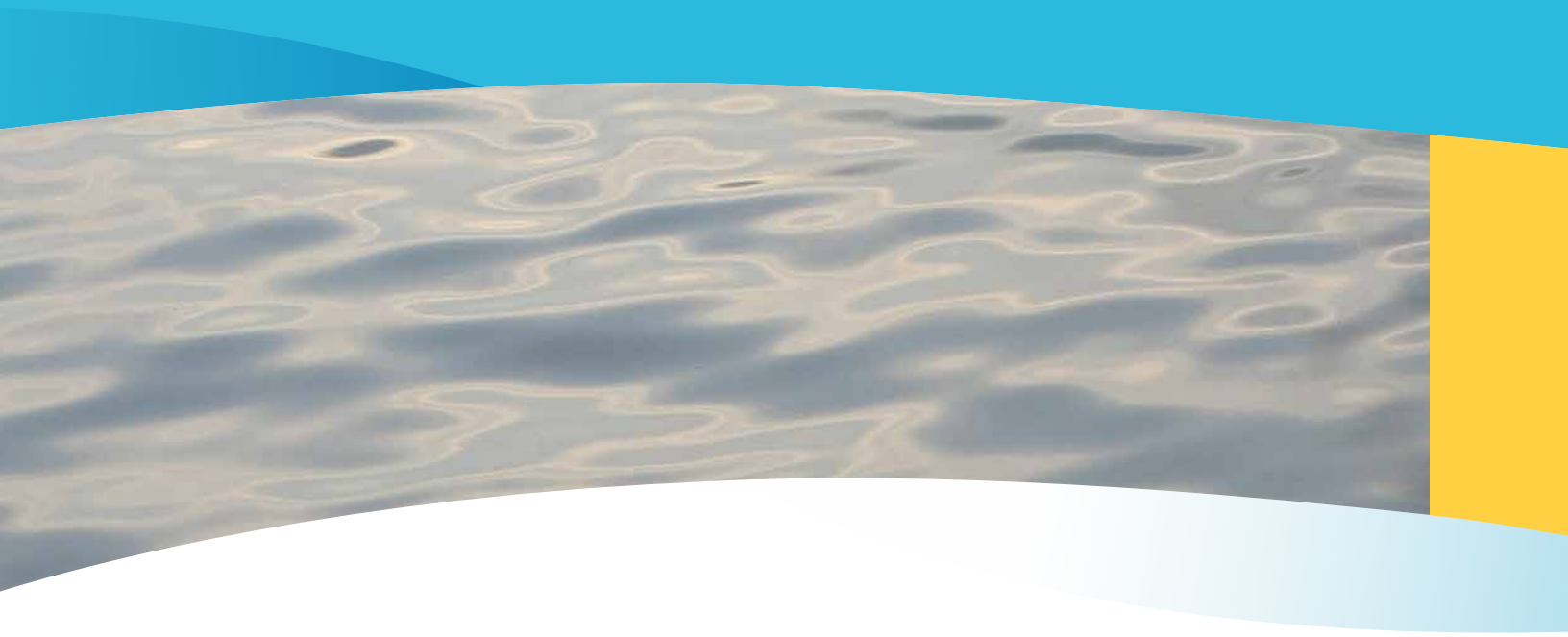
		Model	
		1MGD	**2MGD**
DW Max. Daily Flow	MGD	1	2
	m^3/hr	158	315
WW Avg. Daily Flow	MGD	1	2
	m^3/hr	158	315
WW Peak Flow	MGD	1.5	3
	m^3/hr	237	473
Length	ft	22	28
	m	6.7	8.5
Width	ft	8	10
	m	2.4	3.0
Height	ft	19	19
	m	5.8	5.8

DW = Drinking Water.
WW = Wastewater.

EMBRACE GRAVITY. DEFY CONVENTION.

Learn more about how the CoMag System harnesses the force of gravity to eliminate clarifier bottlenecks and enhance the performance of primary and tertiary treatment.

Visit ***www.evoqua.com/comag*** to access settling videos, case studies and FAQs. Or email ***comag@evoqua.com*** to connect with an expert.



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210 Sixth Avenue, Suite 3300, Pittsburgh, PA 15222

+1 (866) 926-8420 (toll-free) **+1 (978) 614-7233** (toll) **www.evoqua.com/comag**