

FIELD ERECTED SYSTEMS

WASTEWATER TREATMENT



The Standard For Modular, Field Erected
Wastewater Treatment Plants



www.gwatertreatment.com

THE INDUSTRY'S MOST EFFECTIVE WASTEWATER TREATMENT SYSTEMS

G-Water circular field erected wastewater treatment plants **FES**, combine leading process engineering with technological knowledge to create small to intermediate size biological solution for sanitary and industrial wastewater treatment applications. The units employ activated sludge with extended aeration process, achieving easy operation while assuring high quality effluent with stable and reduced volume of excess sludge for disposal.

G-Water FES units are pre-designed and prefabricated for fast and easy on-site installation, while at the same time are flexible for different loading and flow requirements. All electromechanical and tankage equipment are delivered to site, reducing substantially earth movement and civil works required for its execution. Its concentric tankage design maximizes space efficiency, reducing footprint and ancillary yard piping, increasing land utilization for other needs of the client.

FES's flexible geometric design permits the simple integration of additional treatment process steps based on client's requirements, including Biological Nutrient Removal (BNR), tertiary treatment for water reuse, disinfection by chlorination or UV, among other specialized treatment needs. The **FES** is equipped with high quality components with optional advanced process control and automation equipment for ease of operation. Bolted tank technology provide unsurpassed advantages including fast and simple field-assembly, with high quality factory precision manufacturing and coating. Using synchronized jacks, installation workers stay on ground, assuring crew safety at all times. Finite Element Analysis is used to ensure a stable design base don the hydrostatic, seismic and wind loads of the applications.





FES300

FEATURES AND BENEFITS

- High process stability and treated effluent quality surpassing local regulations
- Flexibility for flow variations and organic loads
- Stabilized and reduced excess sludge volume
- Fast project implementation
- Low operation and maintenance costs achieved by stable process and concentric tankage design for product simplicity
- Odorless system
- Flexibility for additional features such as BNR, water reuse and disinfection
- High oxygen transfer efficiency creating low energy consumption
- Low capital expenditure through Design/Build solution



**“UNITS ARE PRE-DESIGNED
& PREFABRICATED FOR
FAST AND EASY ON-SITE
INSTALLATION”**



The FES comes in a wide range of standard models presented in the table below. Other flows or organic loadings can be supplied on a case by case basis.

Model	Flow Range in GPD	Population Equivalent 65 GPD pp	Average BOD kg/d 0.075kg ppd	Approximate Area ft2
FES200	40,000 - 65,000	600-1000	60	1500
FES300	65,000 - 90,000	1000-1400	90	2300
FES400	90,000 - 130,000	1400-2000	125	2750
FES500	130,000 - 160,000	2000-2500	165	3500
FES800	170,000 - 240,000	2600-3700	230	4200
FES1000	260,000 - 320,000	4000-4900	330	6000
FES1200	320,000 - 400,000	4900-6150	400	6700
FES1600	400,000 - 640,000	6150-9850	600	7200
FES2400	640,000 - 800,000	9850-12,300	800	11,500

EXPERTS IN INNOVATIVE SOLUTIONS FOR WATER AND WASTEWATER TREATMENT

With a refreshingly innovative approach to the business of water and wastewater treatment, **G-Water** expert team delivers high performance solutions that are exceptionally cost-effective and competitive. Backed by decades of successful global experience, yet focused locally on the unique needs of its clients, **G-Water** a leading source for complete design/build projects, equipment sales, implementation and service for all market sectors including municipal, private and corporate development, industrial and irrigation. Project funding has never been easier or faster than with **G-Water's** flexible and accessible financing options.

RESULTS THAT ARE NOT ONLY TECHNICALLY TOP NOTCH, BUT AMAZINGLY BUSINESS FRIENDLY.



For more information,



**G WATER
TREATMENT**



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