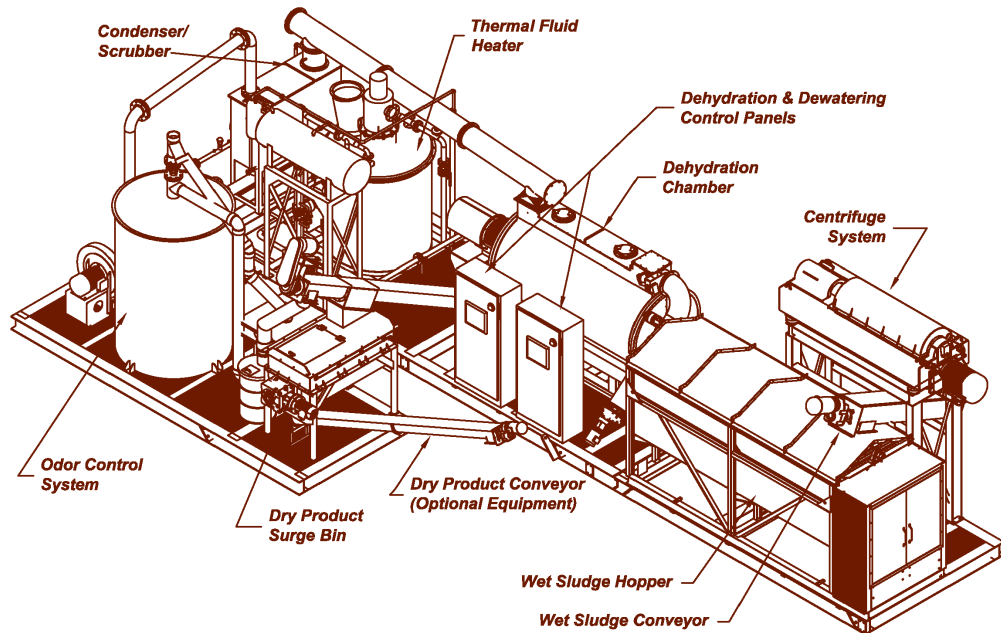


**FENTON FENIX™ DD SYSTEMS** The Complete Sludge Dewatering and Drying Solution

The Fenix™ DD systems combine sludge dewatering with indirect heating to dehydrate wastewater sludge and economically produce Class A EQ Exceptional Quality* biosolids.

**FENIX**

The illustration above shows a DD system set to run with a decanting centrifuge (additional options available). For a dehydration process illustration, see the **Fenix™** Technical Overview sheet or visit ifenton.com.

How it Works

Digested liquid sludge enters the centrifuge system, which increases solids from about 1-2% to 15%+. The sludge cake is discharged to a multi-load large hopper, then moves on to the dehydration chamber. Inside the chamber a hollow-disk rotor turns the sludge and heats it using circulating thermal fluid. Process steam exits via an enclosed air handling system that cools and separates air from moisture/particulates before releasing clean air. Once a batch of biosolids has dried to the desired level (usually 90%-98% solids), it exits the machine via a discharge auger.

Fenix™ DD Highlights

The totally enclosed system reduces or eliminates employee exposure to liquids & dewatered cake.

PLC seamlessly and automatically manages the loading, initiation, dehydration, and discharge of sequenced batches of biosolids.

Compact and integrated design can be placed indoors or outdoors with cover.

System is pre-piped, pre-wired, pre-tested and fully assembled.

System can run on natural gas, #2 fuel oil, propane, digester gas, or landfill gas.

* Input sludge that exceeds heavy metal content limits set by the EPA will not qualify as EQ biosolids.



Standard Fenix™ DD Components

- Dewatering from centrifuge, belt press, or owner's choice technology
- Polymer pump and mixing system
- Progressive cavity pump
- Wet sludge hopper and in-feed conveyor
- Fenix™ CM drying unit
- Dried biosolids discharge conveyor
- Touch screen monitoring and control system

System Models and Performance

The Fenix™ DD line has four dryer size options to meet different plant needs.

Dewatering technologies are matched with dryers to meet individual capacity needs and technology preferences. Most plants use decanting centrifuges. Below is an example of the performance of a standard Fenix™ CM 24/5 DD.

- Example effluent: 2% dissolved solids
- Centrifuge process rate: 15,000 pounds per hour (1,800 gallons)
- Centrifuge output: 2,000 pounds per hour at 16% solids
- Dryer output per 2,000 pounds cake: 348 pounds Class A biosolids

In this example the initial quantity of 15,000 pounds of effluent was reduced to 348 pounds of dried biosolids -- about a 98% reduction in weight from a single integrated system.

Customization

The drying experts at Fenton can customize systems to meet your needs. In addition to dewatering flexibility, components can be added or subtracted from the basic DD package described above. Popular optional equipment for Fenix™ DDs includes:

- Surge bin for cooling dried biosolids
- Bagging system for finished biosolids
- Biofilter odor control (if required)
- System mounting on a heavy-duty tandem axle trailer
- Effluent feed pump (if needed)
- Cone bottom thickening/storage tank

4306 HWY 377 SOUTH
BROWNWOOD, TX 76801
PHONE: (800) 521-1708
FAX: (325) 646-7027
SALES@IFENTON.COM
IFENTON.COM

For additional technical information and project pricing contact Fenton at (800) 521-1708 or sales@ifenton.com.
To learn more about the ease, affordability and reliability of the Fenton Fenix™ visit ifenton.com.