GRYPHON®
environmental, LLC

AUTOMATED DRYING TECHNOLOGY FOR
APPLICATIONS OF ANY SIZE


# ADVANCED DRYING TECHNOLOGY

MADE IN USA

Gryphon Environmental, LLC
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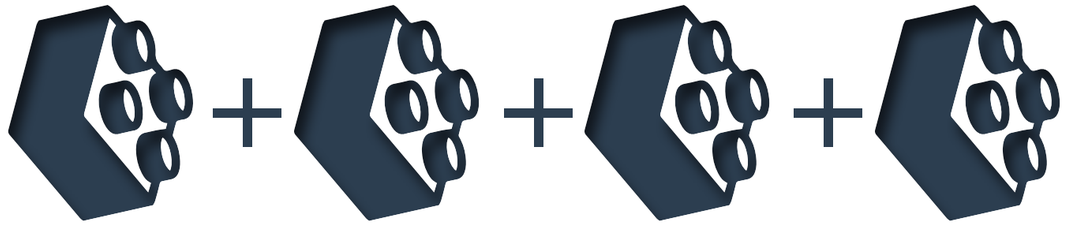
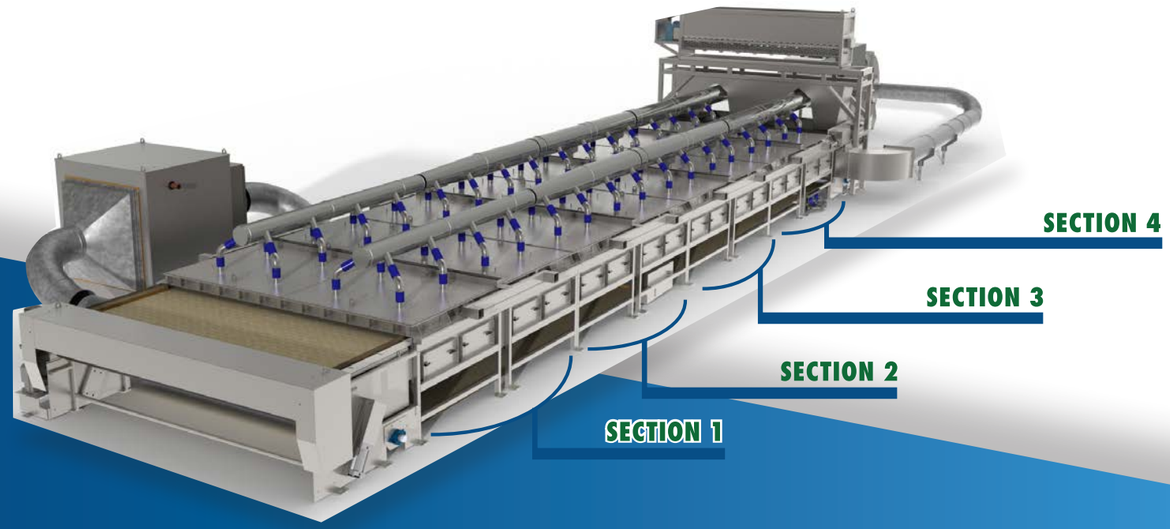
# Manufacturing

Gryphon's sectional dryer design provides major benefits in manufacturing, shipment, installation and functional expandability.

This innovative design reduces capital costs, speeds lead time, simplifies freight methods, reduces installation time and cost and provides flexibility for the future.

## REPEATABLE EXPANDABLE DESIGN **SAVES MONEY**




# Models

## MODEL 03 - SERIES

**3 ft. by 6 ft.**

Sections are assembled in a series to produce models 0312 and 0318 dryers.

For municipal plants ranging from 0.5 to 5 MGD. Evaporative capacities range from 2.5 to 5.5 tons of water per day.

## MODEL 05 - SERIES

**5 ft. by 10 ft.**

Sections are assembled in a series to produce models 0510, 0520, and 0530 dryers.

For municipal plants ranging from 3 to 15 MGD. Evaporative capacities range from 5 to 15 tons of water per day.

## MODEL 10 - SERIES

**10 ft. by 10 ft.**

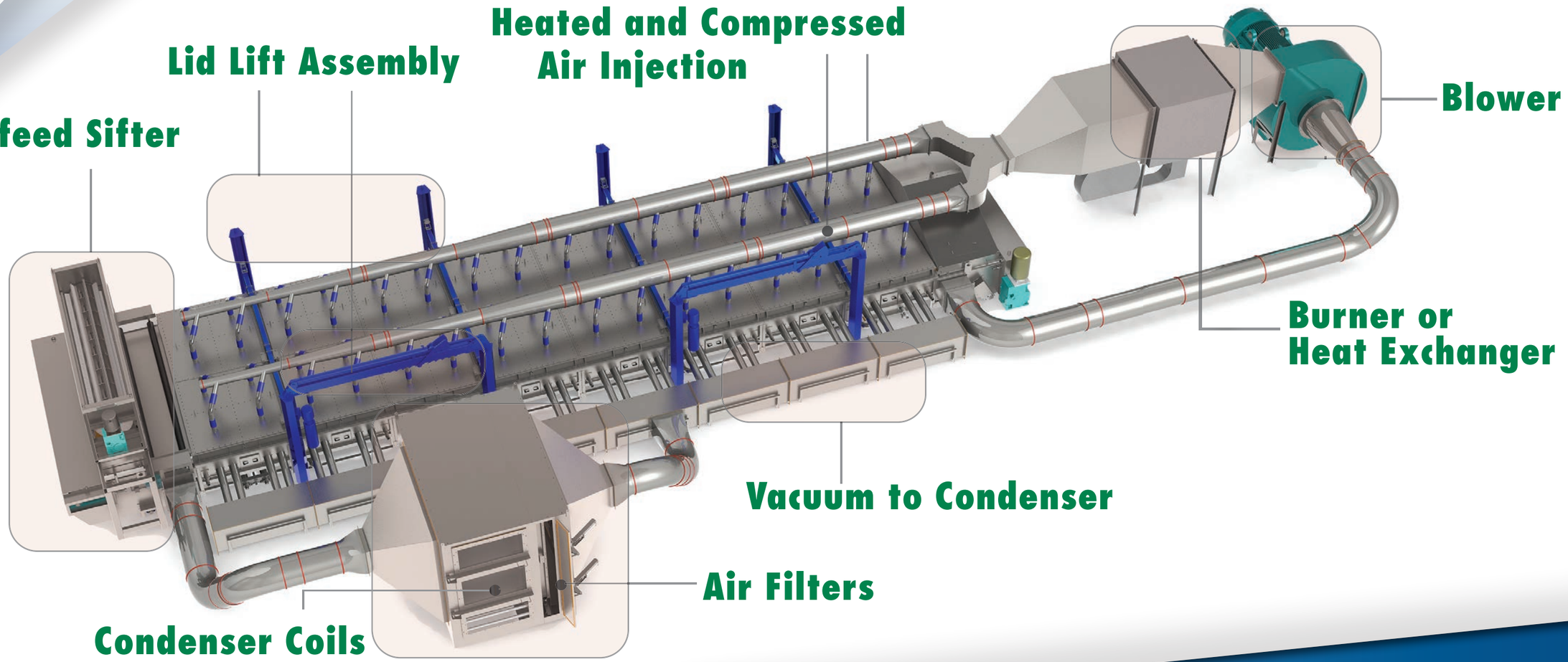
Sections are assembled in a series to produce models 1020, 1030, 1040 and 1050 dryers. Dual unit designs are also available to enable single point of control for large applications.

For municipal plants ranging from 10 to 100 MGD. Evaporative capacities range from 5 to 150 tons of water per day.

## COST-EFFECTIVE DRYERS FOR ANY SIZE PLANT

GRYPHON environmental, LLC

# Advanced Drying Technology

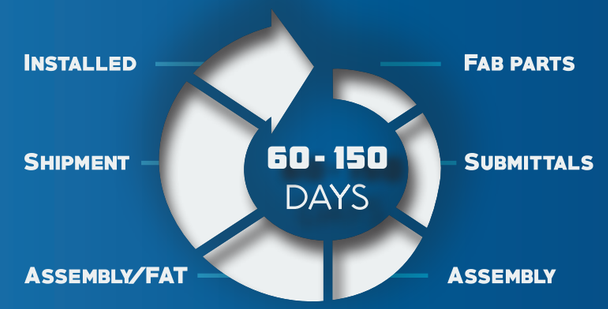



- Less than 15-minute Start-up and Shut-down time.
- Full Automation. Software/PLC controlled air volume, temperature and cycle time.
- Remote diagnostics capability and 3-level alarming.
- Automated washing of chambers, air filter and belt.
- Low chamber temperature enhances drying safety.
- Advanced thermodynamics reduces energy demands.
- Eliminates the needs for bag-houses, scrubbers or exhaust stacks.
- Re-circulating air stream reduces/ eliminates exhaust released to atmosphere.

FEW MOVING PARTS AND REDUCED MAINTENANCE.

FLEXIBLE DESIGNS FOR APPLICATIONS OF ANY SIZE

RAPID PRODUCTION & INSTALLATION



# Technology Benefits

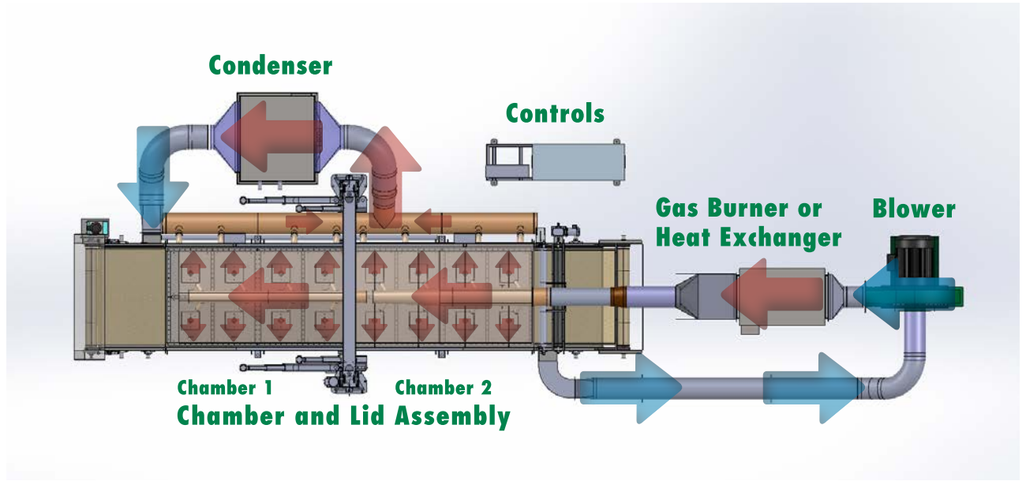
Gryphon's closed loop design re-circulates more than 90% of the air stream. In addition to unprecedented energy efficiency, air re-circulation controls odors and reduces or eliminates the need for air permitting.

Heating of the air stream can be achieved by using the most economical energy source. Options include natural gas, biogas, waste heat, steam or electricity.


## RE-CIRCULATING AIR STREAM

- Lower capital costs
- Reduced power consumption
- Rapid lead time
- Quick and simple installation
- Less ancillary equipment
- Reduced solids handling
- Class A, EQ validation and trend monitoring
- Potential tax incentives

**REDUCES THE DEMANDS OF AIR PERMITTING**

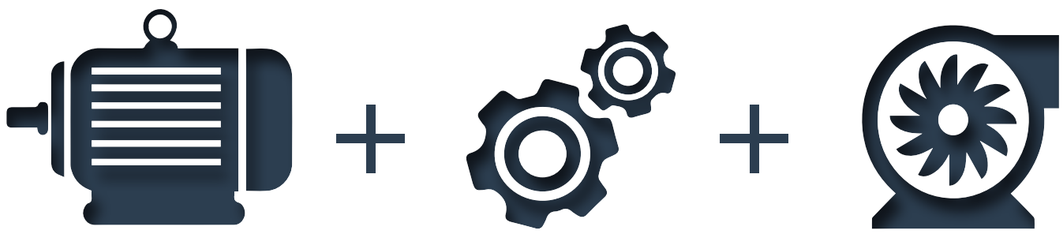



# Maintenance

Fewer moving parts means lower maintenance costs and maximum safety. Dryers are engineered for accessibility and built with standard off-the-shelf motors, pumps, drives, controls and instrumentation.

The innovative design ensures ease of maintenance, increases reliability and maximizes up-time.

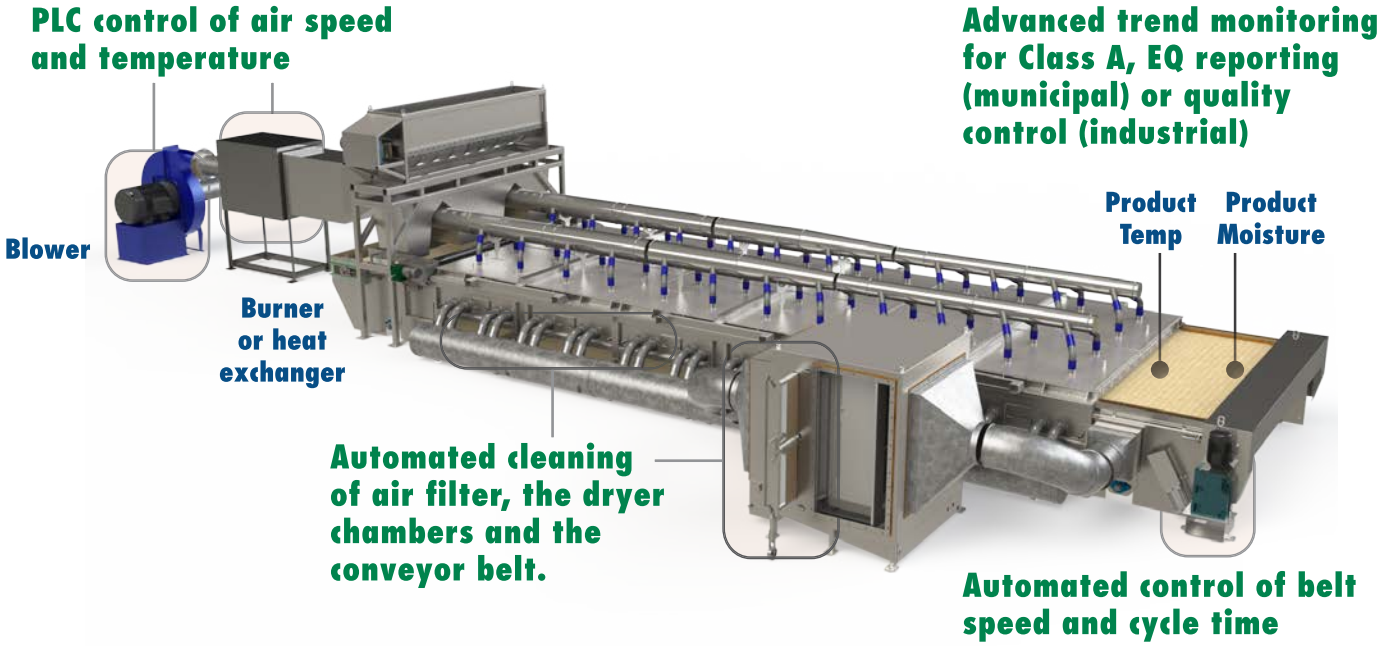
## MAINTENANCE MADE EASY

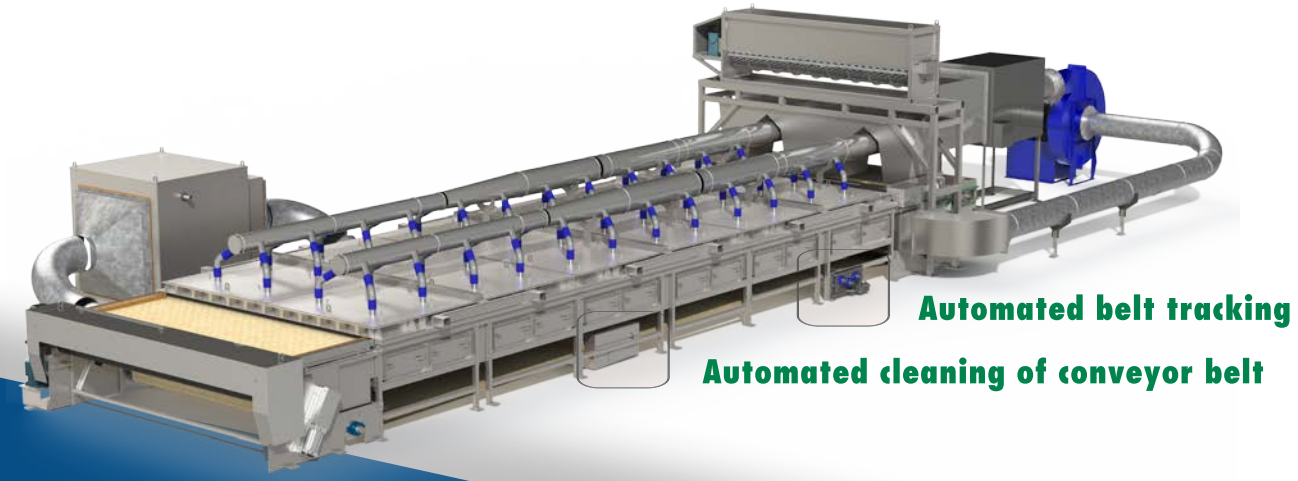



*Lid lift system allows full access.*

*Roll-in, roll-out condenser coil and filter.*

# Comprehensive Trend Monitoring




While advanced PLC software actively monitors and adjusts the drying process in real-time to maintain Class A, EQ bio-solids quality, trend monitoring software also records all critical process variables for complete historical data compliance. Gryphon's triple redundancy approach ensures simplified, worry-free reporting to satisfy US EPA 503 requirements and other regulatory demands.

First method: Specialized sensors measure moisture content of the dried material as discharged from the dryer. Historical data is automatically recorded and available for reporting.

Second method: Temperature sensors measure the dried material at multiple intervals as discharged from the dryer. In addition to moisture content, temperature data serves as a redundant verification that Class A, EQ requirements are met.

Third method: Measurement and recording of product residence time, along with process air mass flow and temperature, provides a third verification of time versus temperature exposure.

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