



ECS

ENGINEERED COMPOSITE SYSTEMS

**SOLUTIONS FOR FLUID CONTAINMENT
AND AIR CONVEYANCE IN A
CORROSIVE ENVIRONMENT**

ECS has one of the largest and most modern facilities in North America.

- Computerized helical tank winder, 12" - 14' diameter, 40' lengths
- 2 custom-designed dual-stage pipe / duct winders, 2" - 84", 48' lengths
- 4 modern chopper stations for manufacturing large, complex parts
- Duct and tank mandrels from 2" to 14' diameter
- Sweep elbow tooling from 2" to 72" diameter
- 20-ton rough terrain yard-crane
- 4 sets of 5-ton bridge cranes
- 5 vacuum infusion stations
- 5' x 10' computerized CNC station with 18" of Z axis
- Custom trailer and two designated delivery vehicles



Facility

- 10,000 ft² material storage building
- 85,000 ft² under-roof manufacturing facility
- 5-acre lay-down and service yard

Experience you can trust, capabilities you can count on

ECS has over 50 employees, many with over 20 years of experience fabricating fiberglass tanks, ductwork, pipe and dampers. What sets Engineered Composite Systems apart from other manufacturers is our flexibility and our specialization in equipment for corrosive applications. Where other companies focus much of their resources on inexpensive, commodity tanks the main focus of ECS has been critical service applications.

Chemical Storage Tanks



ECS FRP chemical storage tanks are up to 168" in diameter and designed to meet virtually every storage requirement.

- Exterior coatings with UV inhibitors
- Manufactured to national standards including ASTM D3299, 4097, PS 15069, SPI's Quality Assurance Report and ASME RTP-1
- Custom configurations including square and rectangular shapes
- Full range of accessories including: ladders, platforms, handrails, sight gauges and level instrumentation
- High-quality corrosion liners with specialized curing systems for extreme service conditions

Class 1 Flame Resistant Ductwork



ECS is one of the largest suppliers in North America of ductwork and fittings for the conveyance of corrosive gas.

- Standard 100-mil resin-rich corrosion barriers on all surfaces exposed to corrosive gas
- Transitions, fittings and custom fabrications to meet each customer's specific requirement
- Available in 2" through 144" diameters
- Systems are shop fabricated to minimize field work
- Static grounding systems for explosive atmospheres

Dampers and Ductwork

ECS has been involved in the design and manufacture of high-quality FRP dampers for over 15 years. We are the only supplier with a complete product line and unmatched quality.

- Materials used to manufacture the body and components match the corresponding ductwork system
- Housings are sized to match ECS ductwork system, customer or other special equipment (inlet boxes, fans, flexible connectors)
- Custom configurations: square / rectangle, lengths and flange dimensions
- Complete product offering: inlet vane (vortex), parallel blade, opposed blade, back-draft, pressure-relief, volume control, isolation and bubble-tight shut-off operation
- Components selected to meet customer requirements: shaft, fastener, gasket materials and operators (pneumatic, electric, worm-gear, chain-wheel)



Stacks, Covers, Hoods and Enclosures

Stacks, exhaust hoods and FRP covers round out a complete package of highly engineered ECS products.

- Supported and free-standing stacks to 100'
- Cover and hood systems to contain and convey odorous air and corrosive gases
- 100% composite sound enclosures to reduce noise, typically used over fans
- Corrosion-resistant weather-proof enclosures for pump skids or electronics

All enclosures, standard or sound, are available with a host of options including exhaust fans, lights, electrical components.

Engineered Solutions for Your Application

OEM process vessels, towers and engineering – from start to finish ECS has the answer

- Efficient media support design
- Filament wound support beams with 100 mil corrosion liners in and out
- Piping, electrical and customer supplied equipment fit-up / installation
- High efficiency packing support plates with 90% open area for de-gasifiers and wet scrubbers
- From source to solution – containment to treatment vessel to stack

ECS has over 40 years of experience in the design and manufacture of process vessels for pollution control.



Systems that Exceed Customer Standards



Full Line of FRP Dampers



From system design to project management to on-time delivery and customer support after installation, no other manufacturer can compete with the value you receive with an ECS system.

Professional Field Service Group



Specially Designed FRP Covers



Custom Fabrication



100,000 ft² Manufacturing Facility



Over 100 Installations World Wide

Value, Quality and Innovation go into every product that we manufacture because we believe in real solutions to the real issues you face.

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Inlet-Vane Dampers



Innovative Approach to Saving Customers Money and Increasing Efficiency

