

Tanks and Vessels



Specifications

Corrosion and Abrasion Resistant Tanks and Vessels

RPS manufactures FRP and dual laminate tanks and vessels:

- FRP (fiberglass reinforced plastic) vessels manufactured with premium resins that include polyester (INEOS Hetron™), vinyl ester (INEOS Derakane™), and bisphenols.
- Dual laminate liners include PVC, CPVC, PP, PVDF, ECTFE, FEP, PTFE, PE, and PFA.
- Both FRP and dual laminate tanks and vessels ASME RTP-1 certified.
- ASTM D3299, ASTM D4097 compliant.
- Pressure rating from full vacuum to 15 psig.
- Cylindrical vessels constructed via contact molding and filament winding; rectangular vessels via contact molding and vacuum infusion.
- Thermoplastic-lined dished and flat tops and bottoms are vacuum formed.
- Vessels constructed in various sizes to a maximum height/length of 60' and standard diameters up to 14'. Non-standard sizes and shapes available.
- Volume ranging from 100 to 330,000 imp gal.



CPVC-lined chlorine drying tower

- External resin coating is pigmented and contains paraffin and ultraviolet absorbers to assure proper surface cure and inhibit ultraviolet light degradation.
- Minimum Barcol hardness of 90% of resin manufacturer's specified value.
- Ledges and face flanges, if required, are designed as integral structures.
- FRP surfacing veils include polyester (Nexus), 'C' veil, or carbon veil
- 'ECR' glass used exclusively



PP-lined phosphoric acid storage tanks



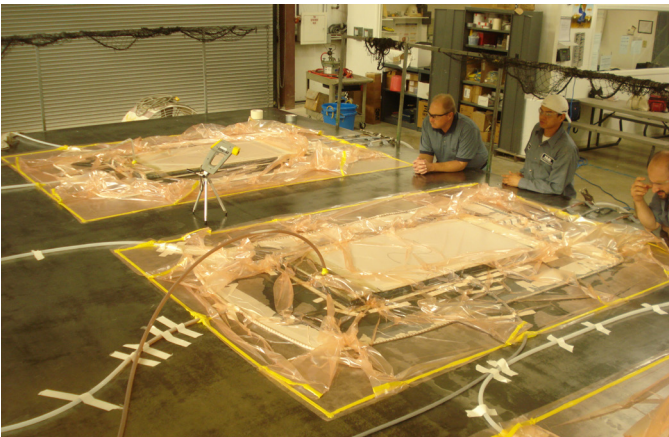
FRP chlorate tank

Specifications

- Configuration options:
 - ♦ open or closed tops
 - ♦ flat, cone, dished, skirted, or sloping bottoms
 - ♦ vertical or horizontal
 - ♦ cylindrical or rectangular
 - ♦ saddles optional; legs optional
- Various accessories also available (nozzles, manways, hold downs, vents, ladders, insulation, heat tracing, dip tubes, gauges, mixers, baffles, agitator support frames).
- Spray nozzles, feed headers, liquid distributors, packing support and other internals can be made from thermoplastic material upon request.

Quality Assurance

All vessels and tanks are manufactured under a formal and documented QA program in accordance with a recognized Quality Assurance Standard.



Vacuum Assisted Resin Infusion process

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Applications	Industries
Acid cooling towers	Chlor-alkali
Chlorine drying towers	Chemical processing
Wet electrostatic precipitators (WESP)	High purity semiconductor
Storage tanks	Pulp & paper
Mixing tanks	Metals and mineral processing
Scrubbers	Water and wastewater treatment
Columns	High purity pharmaceutical
Custom vessels	High purity food & beverage
	Power and energy
	Petrochemical

RFQ Checklist

- ☐ Contact name, Company, email, phone number
- ☐ Delivery Zip/Postal code; delivery date
- ☐ Bid due date; budget or firm pricing
- ☐ Equipment name, configuration, dimensions
- ☐ Indoor or outdoor location; RTP-1 stamped or not
- ☐ Chemical service(s), concentration(s) % bw, specific gravity
- ☐ Abrasive solids, if any, and % bw
- ☐ Liner material and thickness; required resin, if any
- ☐ Design temperature, internal and external design pressure
- ☐ Seismic zone, wind and snow loads
- ☐ Sizes / quantities of nozzles, manways, hold down lugs, lifting lugs
- ☐ Accessories (ladder, railing, internals, heat tracing, insulation)

Please go to RPSComposites.com/request-quote to complete a form or upload files.

