

FUME HOODS

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OVERVIEW

Cortest is a provider of custom designed/built fume hoods to house proof ring systems or Hydrogen Induced Cracking (HIC) Tanks, autoclaves, or load frame test systems. These fume hoods are designed to safely contain any noxious gases that may be released during a test. Many different sizes are available. **Standard features of Cortest fume hoods include pre-installed gas distribution piping, flow meters and valves to control gas flow to test equipment, safety check valves, quick disconnect fittings with automatic shut-offs, exhaust gas manifolds, and gas sensors.** All of these features help to ensure a safe working environment for laboratory technicians while allowing for efficient work flow. Custom duct work and exhaust systems can also be supplied to provide a complete fume extraction solution for any laboratory.

CATEGORIES : OIL & GAS | STEEL | RESEARCH

STYLES AVAILABLE
ISLAND, WALL, WALK-IN

SPECIALLY DESIGNED FOR
PROOF RING AND HIC TESTING

FULLY INTEGRATED
GAS SUPPLY LINES EXHAUST
GAS LINES GAS FLOW CONTROL

FUME HOODS

SYSTEM FEATURES

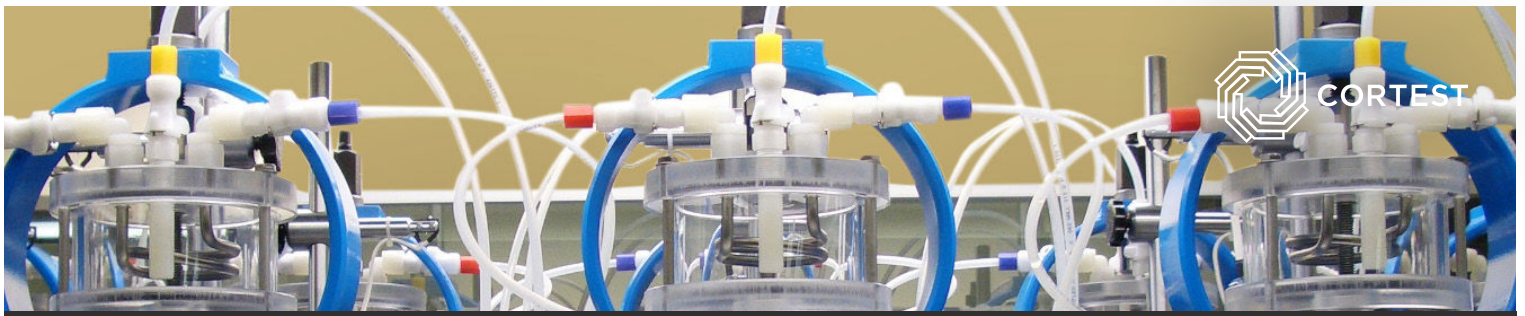
- Island, Wall, or Walk-In Style Hoods Suitable for Any Lab Space
- Available to Accommodate 10, 20, 40 Proof Rings or HIC Tanks or up to 80 Proof Rings
- Materials of Construction: 316 S.S. & PVC Tubing in a Powder Coated Welded Frame with Sliding Safety Glass Doors
- Quick-Connect Fittings to Reduce Exposure When Replacing Systems
- Custom Valve Manifolds for Individual Channel Management of N₂ and H₂S
- Custom Flow Control Valves/Flow Meters
- Optional Services: Custom PVC Duct Work
- Optional Upgrades: Environmental Control Bath to Maintain Test Cell Temperature $\pm 1.7^{\circ}\text{C}$
- Optional Gas Cabinet for Gas Bottle Storage and Automatic Gas Bottle Changeover

CONTROLS

- Up to 40-Channel Touch Screen Timer to Measure and Record Time-to-Failure of Proof Rings
- Automated Dampers
- H₂S Sensors and Alarms
- Integrated Emergency Shut-Off Valves for Gas Supply
- Optional Environmental Control Bath

TYPICAL APPLICATIONS

- Proof Ring Test Systems – NACE TM0177
- HIC Tanks – NACE TM 0284, ASTM G39
- Autoclaves
- Load Frames
- New Product Development/Testing
- Pipeline and Pressure Vessel Material Samples – NACE TM0284



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ANCILLARY EQUIPMENT

GAS CABINET

Specialty gas cabinets can be supplied by Cortest to accompany any equipment supply. All gas cabinets are constructed to NFPA 55 standards. **Cabinets can be supplied to store 2, 3 or 4 gas bottles and may also include features such as automatic changeover panels, explosion proof pressure transducers, gas sensors, pneumatic shut-off valves, emergency gas shut-offs, and output signals that may be linked to a laboratories safety control system.** These gas cabinets are a great addition to any new laboratory construction project or laboratory renovation project.

ANCILLARY EQUIPMENT

EXHAUST GAS NEUTRALIZATION TANKS

Cortest exhaust gas neutralization tanks are used to reduce the H₂S concentration of exhaust gas prior to it being exhausted to the customer's scrubber or atmosphere. **These assemblies are available in two or four tank configurations. Each PVC tank is 10" (25 cm) diameter X 30" (76 cm) long with a capacity of approximately 38 Liters.** Safety pressure relief valves are also provided to ensure safe operation. A NaOH solution is used in each tank to help neutralize the H₂S prior to being vented to atmosphere. Solution life can be monitored using optional pH probes.

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