



*Tropexx is a high-resolution blending system that works with gases, vapors and volatile (readily vaporizable) liquids in addition to moisture. A high-precision laboratory tool for blending gases and vapors for application in corrosion and material-evaluation studies, Tropexx can also be used to check instrument calibration. It can substantiate the accuracy of instrument readings within parts per million.*

## Features

- User-selected blending range
- Back-pressure control valve and regulator
- Compact design
- Programmable for repetitive or complex application

## Benefits

- Versatile — able to handle varying degrees of pressure
- Steady — allows consistent flow rates of output
- Precise — supplies uniform moisture into dry gas
- Portable — can be used for field testing
- Cost effective — reduces the cost of calibration and redundant instruments

## Applications

- In-field calibration of moisture monitors
- Process gas-blending system
- Blending of volatile liquids or gases
- Controlled environment manufacturing

## Patents & Awards

- U.S. Patent Nos. 7,494,114 and 6,182,951

## Inventor

Russell L. Hallman Jr.

## Technology Readiness Level (1–9)



Actual application of the technology in its final form and in Y-12 production use.

## Partnering Opportunities

Y-12 is seeking an industry partner to fully commercialize this technology.

**If you would like more information, please contact the Office of Technology Commercialization and Partnerships:**  
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