



Equipment Rental & Sales

- ✓ Bahnson Environmental Chambers
- ✓ Baths, Drywells & Furnaces
- ✓ CO₂ Sensors
- ✓ DataTrace Wireless Dataloggers
- ✓ Fluke Calibration Equipment
- ✓ GEO Humidity Chambers
- ✓ HÄFNER Weights
- ✓ Insacal Conductivity Standards
- ✓ Kaye IRTD Temperature Standards
- ✓ Kaye Validator 2000 Dataloggers
- ✓ Masy STS Temperature Standards
- ✓ Pressure Transducers
- ✓ RH Sensors
- ✓ RubberFab Gaskets & Clamps
- ✓ Stirling Ultracold Chambers
- ✓ Thermocouple Feed-Throughs
- ✓ Ultra-Premium Thermocouples

Rent or purchase calibration and validation equipment from Masy BioServices

Masy has the largest, most comprehensive inventory of rental equipment in North America to support your qualification, validation and metrology projects. If you have an internal validation team, or work with another on-site partner, our calibrated equipment fleet complements your existing staff and resources.

Masy rents calibration and validation equipment, including standards, probes, thermometers, baths, and dataloggers. Rental equipment includes calibration certificates, documenting NIST-traceable calibrations (NVLAP-accredited to ISO 17025 where noted). All our rental equipment is verified when returned, giving you full confidence in the accuracy of your measurements.

In addition to these featured items, Masy has a comprehensive inventory of temperature standards, baths and drywells, furnaces, CO₂ sensors, relative humidity sensors, pressure transducers, steam quality kits, multimeters, and more. See our full list of available equipment, including options and specifications, online at www.masy.com

Masy fosters relationships with valuable industry partners who make best-in-class precision instruments.



HÄFNER Mass Standards and Laboratory Weights

Masy is the exclusive North American distributor of high-quality HÄFNER weight standards and laboratory weights. Manufactured in Germany, HÄFNER weights are "The Perfect Weight". If your lab requires that level of precision, discover how their tagline lives up to its name.

Standard weights (E0, E1, E2), high-precision weights (F1, F2) and precision commercial weights (M1, M2, M3) are available with custom cases and ISO 17025 calibration.



Insacal Conductivity Standards

Insacal Conductivity Standards are capable of highly accurate readings well below the maximum of $\pm 2\%$, ensuring that your process has a low total uncertainty for less compliance risk. Insacal is currently the only portable reference standard capable of $\pm 0.37\%$ cell constant accuracy.



GEO Humidity Calibration Chambers

Successful calibration of your humidity instruments requires precise, accurate, and dependable equipment to give you the repeatable results you need. Masy is an authorized distributor of GEO Calibration's line of humidity generators, designed to meet the requirements of demanding applications from pharmaceutical to manufacturing and industrial environments.

GEO Calibration offers a wide range of humidity chambers suitable for a variety of field and laboratory applications.



Bahnsen Environmental Chambers

Bahnsen Environmental Specialties (BES) designs, manufactures, installs, and services a diverse line of best-in-class controlled environmental chambers that maintain precise conditions for a wide array of research, development, and manufacturing activities.

BES specializes in low temperature upright, chest, and walk-in freezers; cold rooms; reach-in and walk-in stability chambers and rooms; and custom designed energy efficient cascading refrigerator / freezer / ultra-low freezer walk-in storage rooms. We invite you to visit our biorepository in Pepperell, MA to see more of these models in use.



Stirling Ultracold Freezers

Stirling Ultracold freezers are a new generation of environmentally friendly ultra-low temperature freezers which operate between -20°C and -86°C. These freezers do not use compressor-based or cascade refrigeration systems; they use patented free-piston Stirling engine technology developed for critical energy, aerospace and industrial applications - using 70% less energy than traditional compressor-based ultra-low temperature freezers. Reduce your carbon footprint and choose Stirling.



Validation Thermocouples

Masy's ultra-premium select grade, type-T thermocouples are optimally designed for validation and thermal mapping, from -200°C to 300°C. Thermocouples offer $\pm 0.18^\circ\text{C}$ accuracy at 0°C to ensure precise thermal measurements. Pre-assembled thermocouple sets can be cut to length, harnessed in groups of 12, labeled or flagged for visibility, and steam-sliced for sterilization applications. Raw wire spools, labels, and tip kits are also available for fabricating your own thermocouples.

Feed-through assemblies are available for easy placement of thermocouples into closed systems such as sterilizers.



**See our full list of available
equipment, including
options and specifications,
online at www.masy.com**



Fluke Calibration Wells, Probes, & Readouts

Fluke Calibration is a leader in precision instrument and metrology hardware for electrical, temperature, pressure, flow, and RF measurements. Fluke instruments are standard in high performing calibration facilities around the world, including National Metrology Institutes, that demand the highest levels of performance and reliability for their calibration measurements. Masy is an authorized distributor of Fluke Calibration products.



Kaye Validator 2000 Dataloggers

The Kaye Validator 2000 mapping system is available for purchase or rental as a turnkey package, including the Validator datalogger, sensor input modules, laptop with Validator software, application-specific sensors, temperature bath, and temperature standard.

For your convenience, uninterruptible power supplies and lightweight folding validation carts are also available. As an added convenience, Masy calibrates thermocouples wired to your rental dataloggers, saving you time, rental and shipping costs.



Masy Scientific Temperature Standard

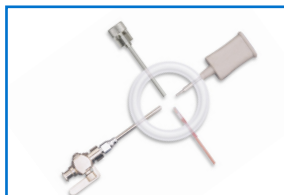
The Masy Scientific Temperature Standard (STS) digital thermometer offers the reliability of multiple liquid-in-glass thermometers in one precise digital device. The STS offers a range of temperature measurements (-95°C to 196°C) with precise accuracy; it can also serve as a reference standard for calibrating other types of digital or analog temperature indicators. The STS is a rugged and reliable complement to, or replacement for, IRTDs.



DataTrace Wireless Dataloggers

Wireless DataTrace dataloggers streamline your validation process in environments not conducive to the placement of wired sensors. These small, lightweight dataloggers are easy to place, collecting real-time temperature, relative humidity, and differential pressure data accurately and securely.

The DataTrace system includes application-specific dataloggers, Ethernet-ready receivers, and validated 21 CFR Part 11 compliant software. Clamps, magnets, feed-throughs, stand-offs, and other accessories assist with optimal logger placement.



RubberFab Sanitary Gaskets & Clamps

Rubber Fab offers a wide variety of sanitary gaskets, hygienic seals, O-rings, and perforated plates used widely in the biotechnology, pharmaceutical, and other regulated industries to seal clamp connections in sanitary pipe lines. Rubber Fab specialty gaskets can facilitate the easy introduction of thermocouples, spore test strips, biological and other indicators into processing lines.

As an authorized distributor of Rubber Fab products, Masy provides you with a full suite of sanitary gaskets, hose fittings, clamps, adapters, and more.



Masy Capabilities

Our integrated suite of metrology, qualification, biorepository storage, continuous and preventive monitoring systems, and equipment rental and sales ensures the accuracy of our primary standards and measurement instrumentation, which verifies the functionality of laboratory equipment and environmental chambers, and provides secure storage of your samples and finished products.



Metrology & Calibration

NVLAP-accredited, NIST-traceable calibration of your primary reference standards and laboratory instruments with minimal measurement uncertainties



Qualification & Validation

Comprehensive IQ/OQ/PQ protocols for controlled temperature units, environmental chambers, warehouse mapping, sterilizers, autoclaves, lyophilizers, and more



cGMP Biorepository Storage

Secure, monitored off-site storage of temperature-sensitive samples and products, at conditions from 70°C to liquid-phase LN₂ (-196°C). Within those conditions, ICH stability storage and custom conditions can also be provided



Continuous Monitoring Systems

Reliable 24/7 environmental monitoring systems with 21 CFR Part 11 compliance meet GMP requirements for critical spaces, featuring excursion alerts and remote viewing and reporting.



Preventive Monitoring Systems

Monitoring the critical parameters of integrated systems to prevent unforeseen equipment failures before chamber or component failure or product loss



Equipment Rental and Sales

Calibration and validation equipment for rental or purchase, including precision weight sets, conductivity standards, validators, dataloggers, thermocouples, sensors, Fluke products, and gaskets and clamps



Masy BioServices is one of a select number of metrology laboratories in North America that meets the rigorous qualifications for National Voluntary Laboratory Accreditation Program (NVLAP) accreditation to ISO 17025. Our current NVLAP scope can be viewed at masy.com/accreditation.



Masy BioServices is certified to ISO 9001 in recognition of our adherence to a robust quality management system.

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