

## On-site Calibration Services Specifications

On-site calibration will be performed against accredited ISO 17025 standards. All calibrations will provide traceability to the international system of units (SI) and National Institute of Standards and Technology (NIST).

Calibration services will be performed with the use of certified references for better accuracy when compared to the traditional reference standard Unit Under Test (UUT).

By default, tolerances (accuracy specifications) are set as the accuracy limit established by the original equipment manufacturer (OEM). Customer specific tolerances will be

taken in to consideration and aligned to between client and Unity Lab Services Calibration Coordinator prior to scheduling of service.

Calibration due dates for completion of work or recalibration are the responsibility of the client. Unity Lab Services Field Service Engineers cannot provide a due date interval but may offer guidance to the client as requested. If a repair and/or parts are required, a separate service repair call will be required.

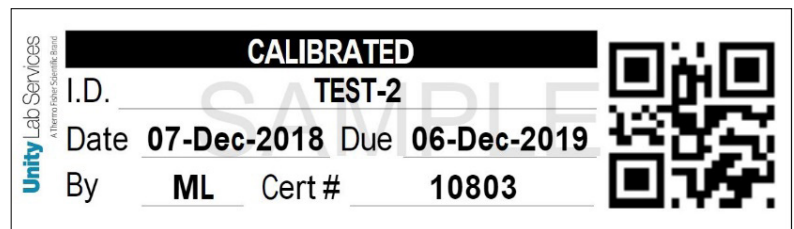
Repairs and part replacements are not included in this scope of work and will require an additional quotation.

### Calibration services offered

ISO standard and certificate details	ISO 17025: Accredited certificate with data and uncertainties	ISO 9001: Certificate with before and after data
<b>Regulatory requirements</b>	Ideal for organizations in highly regulated environments where uncertainties are required to assure compliance.	Ideal for organization needing to verify equipment performance to manufacturer's specifications. Uncertainties not required.
<b>Included in service delivery</b>	Found as left calibration data TUR calculation Greater than 4:1 uncertainty ratio Detailed calibration label If a unit is out of tolerance an adjustment is performed	Found as left calibration data — — Detailed calibration label If a unit is out of tolerance an adjustment is performed
<b>Included on accredited certificate</b>	Serial/asset number Measurement data Environmental conditions Reported uncertainties (K=2) Conformity assessment Reference equipment used	Serial/asset number Measurement data Environmental conditions — Conformity assessment Reference equipment used

**Calibration labels** will be attached to every unit calibrated. Each label will include:

- Serial/asset number
- Calibration date (MM/YYYY)
- Calibration due date (option) (MM/YYYY)
- Name of the field service engineer
- Contact phone number



Sample calibration label

## Calibration capabilities

Scope	Range	Deliverable
Chambers	Temp: -80 to 1000 °C RH: 0 to 95% CO <sub>2</sub> : 0 to 20% Differential pressure: -600 to +600 Pa	Covers ULT freezers, refrigerators, incubators, incubators, environmental chambers, furnaces.  Verification of controller display temperature, relative humidity, and CO <sub>2</sub> at one point.
Centrifuges	1,000 to 80,000 RPM	Covers all centrifuge types.  Verification of speed, time, and temperature at one point.
Remote monitoring	Temp: -80 to 1000 °C RH: 0 to 95% CO <sub>2</sub> : 0 to 20% Differential pressure: -600 to +600 Pa	Covers Smart-View and InSight sensors.

## Environmental and workspace requirements

Client is responsible for ensuring the following:

- A work area that is free from external influences, such as air movement or vibration. A temperature and humidity controlled environment is preferred.
- Special consideration for hazardous materials or decontamination of work tools must be discussed before scheduling of calibration service. Special consideration may include:
  - Special requirements for laboratory access
  - Laboratory bio-safety levels
  - Clean rooms versus standard lab space
- Sufficient benchtop area to set up calibration tools
- Access to 120 V, 60 Hz AC outlets for laptops and calibration tools

## Calibration service duration

Calibration service duration can vary depending on instrument location, conditions, and other factors.

## Scheduling

Scheduling cannot be confirmed until a PO is received from the client. Special scheduling needs (such as large projects, short timelines, or other special requests), can often be accommodated, but require coordination in advance with field service delivery teams. Please ensure scheduling needs are discussed in advance with Unity Lab Services sales or service contract team during quoting process.

Find out more at

[unitylabservices.com/labcalibration](https://unitylabservices.com/labcalibration)