





MISSIMERS

INCORPORATED

Temperature




ENVIRONMENTAL



Altitude

Humidity



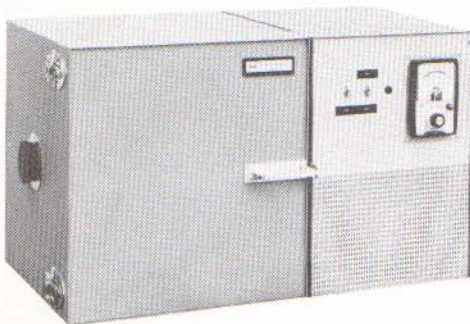
**thirty three years
of excellence in
TEST EQUIPMENT**

Today the name "**MISSIMERS**" means a thorough understanding of customers' testing problems coupled with the design experience to solve them.

FT SERIES

Temperature Chambers

These versatile and compact temperature chambers are designed to meet your production testing, quality assurance, research and development, and similar needs. Dependable single-stage or cascade two-stage mechanical refrigeration systems are used for low operating costs. Optional cooling by liquid CO₂ or nitrogen or as booster systems. Quick response electric heaters are radiant heat-shielded; a high limit safety thermostat is intalled on all units. Standard instrumentation is indicating; recording and/or programming optionally available. Standard and stock models: work space sizes of 1½, 4, 8, 16, 27, and 64 cubic feet. Ranges of 0 to 200 F, -40 to 350 F, and -100 to 350 F; -300 F obtainable with liquid nitrogen.



FT1.5

The smallest of the FT line, this chamber provides bench style convenience in a mechanically refrigerated chamber. The test space is a large 1½ cubic feet, yet the overall dimensions are only 22" x 22" x 37" wide. Temperature range is -100 F to 350 F, controlled to ±¼ deg. F.

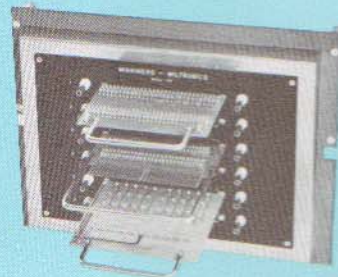
FT-H Temperature-Humidity Chambers

Humidity and temperature-humidity tests are easily performed in Missimers FT-H units using a standard FT chamber combined with a relative humidity console. Instant responding humidification method adds no heat — makes superior high humidity tests possible at lower temperatures, and improves product heat-load handling. Interior is heliarc-welded corrosion-resistant stainless steel. Standard range is 20 to 95% RH from 35 F dew-point to 185 F dry bulb.



BFT CO₂/LN₂ Chambers

These temperature chambers use the latest advances in the state-of-the-art for CO₂/LN₂ cooled bench style chambers. Very low gradients, extremely accurate control tolerance, wide selection of accessories, and maximum reliability. Available with test spaces of one-half and two cubic feet, and ranges of -100 to 600 F or -300 to 600 F.



Electronic Component Test And Evaluation Equipment

This component mounting board is typical of a full line of electronic test accessories including feed-through access connectors, scanners, etc. All printed circuitry is gold plated for maximum corrosion resistance. Plated beryllium copper clips accept a wide variety of component lead diameters without becoming distorted. Boards are made of highest quality G-11 epoxy laminate, suitable for -100 to +150 C testing range (+200 C intermittent), and are set up to handle 10 to 60 components. Kelvin measurements are less costly through proprietary designs using only two access wires per component plus board commons — with no sacrifice in accuracy.

CO₂ Receivers

These handy 100 lb. low pressure liquid CO₂ storage receivers provide the cooling capacity of more than five high pressure cylinders. Casters make these units fully portable for ease in handling. Costs are lowered by greatly reducing the amount of CO₂ consumed. Mechanical refrigeration holding is optional.



Portable Humidity Servos

Furnish closely controlled dew-point temperatures from +35 F to +165 F for chambers having test spaces up to 8 cubic feet. Air is drawn from the chamber into the servo where it is saturated at the required dew-point, then returned to the chamber and reheated to desired dry-bulb temperature. Servo contains its own air handling and conditioning systems and a dew-point temperature controller.



Liquid Chiller-Heaters

These supply a temperature-controlled flow of liquids over standard temperature ranges between -100 and +300 F. Units are completely self-contained and are normally portable. Mechanical refrigeration cooling is standard with optional heating by electric immersion-type heaters. Available in various thermal capacities for use with a number of liquids. Liquid CO₂ or LN₂ cooling is optional.



Universal Test Machine Chambers

Pre-engineered standard chambers for use with most makes and models of physical testing machines. Available in a full range of high and low temperatures for performing MIL and ASTM specification tests, and for research and development. Chambers are built with temperature capabilities as wide as -300 F to +1000 F. Humidity control can be added by means of the portable Humidity Servo described above.



Storage Freezers

These rugged and attractive 4.5 cubic ft. chest freezers perform as well as production tools as they do in the laboratory. Typical uses include the storage of sealants, epoxies, metal parts, biological specimens, viruses, and medications. Available in two temperature ranges — ambient to -50 F (-46 C) and ambient to -100 F (-75 C). Optional extras include battery-operated alarm system to protect valuable specimens or materials.

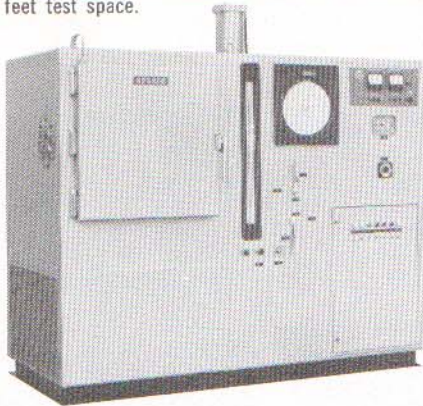
Plug-In And Portable Temperature Servos

Provide heating and cooling for existing insulated chambers. Model shown plugs directly into wall of insulated enclosure thus eliminating requirements for, and thermal losses of, connecting ducts. Complete with blower, CO₂ or LN₂ cooling system, electric heating, and indicating controller. Supplied with power cord for plugging into any convenience outlet. Handles temperatures of -100 to +350 F and wider ranges, chambers to 8 cubic feet, and circulates approximately 400 cfm. Portable temperature servos, cooled by mechanical refrigeration, liquid CO₂ or LN₂, providing larger capacities are also available (not illustrated).



Temperature-Altitude Chamber

Designed to meet the temperature-altitude requirements of such MIL-SPECS as MIL-STD-810. Walls are temperature controlled to provide realistic tests at altitude. Wide range of temperature and altitude capabilities are available. Standard sizes up to 64 cubic feet test space.



Vibration Test Chambers

These versatile units enable the user to combine temperature and vibration testing. Also available for altitude-temperature and vibration testing. Hydraulic lifts are provided for ease in positioning over the shaker or slip table. Can be used without vibration equipment as temperature test chambers, if desired.

Calibration Baths

Produce and control very precisely (as close as ± 0.05 deg. F, after stabilization) any desired temperature within their range. Bath temperatures of -280 to $+500$ F are available by providing several bath compartments, or by changing brines in one compartment. The four compartment -120 to $+500$ F unit is illustrated.



CRYO-3 Solvent Recovery Unit

Provides a quick and inexpensive method of recovering pure fluorosolvents from contaminated mixtures. Units are primarily used for reclamation of precision cleaning agents such as Freon TF, Freon MF, or Genesolv-D. They may also be used in the purification of other non-flammable solvents having boiling points from 75 to 120 F. Units can recover enough solvent in 48 hours running time to pay for themselves.



MISSIMERS

SPECIALS

Included in Missimers' many years of experience is the design and manufacture of a large variety of special chambers. Walk-ins, high-performance thermal shock-testers, unusual environment simulators, and many others have been supplied. May we apply this valuable experience to the solution of your special problems?

For more detailed information or specific brochures on Missimers products, contact your local technical representative or the factory.



Represented by: