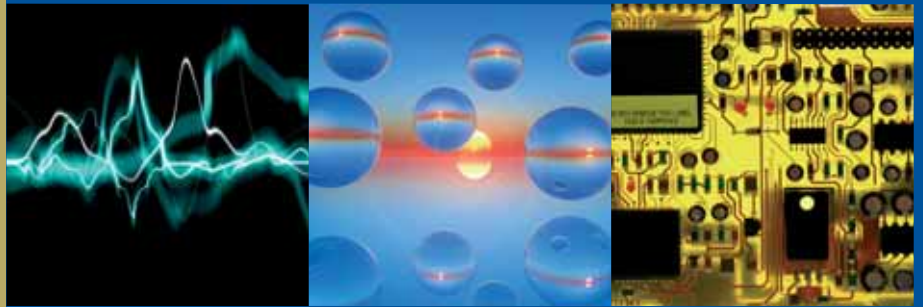




Anyvib

Vibration test chambers





Why "anyvib"?



Test cabinet movement can be set by a detachable touch-screen control panel.

WHY "ANYVIB"?

Because "anyvib" is the easiest way to combine any kind of shaker with an environmental test chamber. "anyvib" is a new family of climatic chambers that can be interfaced with many various types of shakers for vertical, horizontal and tri-axial vibrations.

VERY EASY OPERATION

A worm screw type of lifting system allows to adapt the test cabinet to the shaker height. The movement can be set either from the touch-screen control panel on the chamber or from a remote control. It is also possible to add horizontal movement on request. This is especially valuable if your shaker allows both vertical and horizontal movement or if you want to use more shakers with the same chamber.

GREAT FLEXIBILITY

Different removable floors, for vertical and horizontal vibrations, can adapt the chamber to any existing standard shakers. If there is the need to use the chamber without the shaker in place, a blind floor plug is available.

STANDARD MODELS

The available volumes in both thermostatic and climatic versions are 600, 1200 and 2200 litres (21, 42 and 78 cubic feet). No. 3 choices of temperature change rate are available for the -70/+180°C models: 5, 10, or 15°C/minute, while 5°C/min is the only available rate for the -40/+180°C models. For all the climatic models the humidity range is from 10% to 98% (in the temperature range of +5/+95°C).

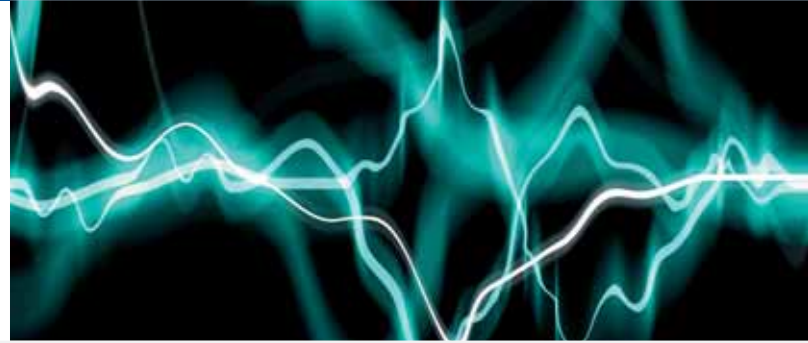
USER FRIENDLY CONTROLS

The control system, based on PLC, has an easy to use color touch-screen control panel (KeykratosPlus). The optional WinKratos software, developed by Angelantoni, allows the PC control of the chamber.

WIDE RANGE OF ACCESSORIES

Besides the main accessories included in the basic configuration, "anyvib" chambers can be equipped with several options to make them fit to customer specific needs.

A remarkable basic configuration



INCLUDED ACCESSORIES

- Test cabinet automatic lifting system with detachable control panel.
- Removable sliding floor for vertical shaker (fixed hole sizes are available on request).
- Blind floor plug (only for vertical shaker floors).
- Inspection window: multiple glass layers, with double heated transparent film, 450x450mm size.
- Embedded softener for humidification water (no distilled water is required).
- Ethernet port .
- Two lateral portholes fitted with silicone rubber cap (80 mm dia. on the left side, 150 mm dia. on the right side). They allow internal-external electrical, mechanical or hydraulic connections.
- Safety thermostat: max./min. digital thermostat with independent probe. It can be also used to disconnect the supply of the device under test.
- UPS connection: it is used for the supply of the microprocessor unit in order to guarantee data storage and acquisition even in case of power failure (the UPS is an optional accessory).
- Color touch screen control panel.

Model	Useful capacity	Int. Useful Dims (WxDxH)	Ext. Dims (WxDxH)	Max Ext. Height*	Temperature Range	Temp. Accuracy (in time)	Heating and cooling speed (in the given Temperature Range)**	RH range (in the range +5/+95°C)	Electrical power (KW)	Noise (dba)***	Weight	Water consumption (l/min)****
AV600 T 5	610 l	850x740x970	1340x3000x2350	2950	-40°C/+180°C	±0.1°C...±0.8°C	5°C/min		18 (avg. 11)	68	1250	60
AV600 5	610 l	850x740x970	1340x3,00x2350	2950	-40°C/+180°C	±0.1°C...±0.8°C	5°C/min	10% / 98%	20 (avg. 13)	68	1250	60
AV600 TC 5	610 l	850x740x970	1340x3000x2350	2950	-75°C/+180°C	±0.1°C...±0.8°C	5°C/min		23 (avg. 13)	70	1500	60
AV600 C 5	610 l	850x740x970	1340x3000x2350	2950	-75°C/+180°C	±0.1°C...±0.8°C	5°C/min	10%...98%	25 (avg. 15)	70	1500	60
AV600 TC 10	610 l	850x740x970	1340x3000x2350	2950	-75°C/+180°C	±0.1°C...±0.8°C	10°C/min		43 (avg. 18)	74	2200	80
AV600 C 10	610 l	850x740x970	1340x3000x2350	2950	-75°C/+180°C	±0.1°C...±0.8°C	10°C/min	10%...98%	45 (avg. 20)	74	2200	80
AV600 TC 15	610 l	850x740x970	1340x3000x2350	2950	-75°C/+180°C	±0.1°C...±0.8°C	15°C/min		43 (avg. 26)	74	2200	100
AV600 C 15	610 l	850x740x970	1340x3000x2350	2950	-75°C/+180°C	±0.1°C...±0.8°C	15°C/min	10%...98%	45 (avg. 28)	74	2200	100
AV1200 T 5	1220 l	1000x1130x1080	1490x3550x2350	3050	-40°C/+180°C	±0.1°C...±0.8°C	5°C/min		27 (avg. 15)	72	1950	80
AV1200 5	1220 l	1000x1130x1080	1490x3550x2350	3050	-40°C/+180°C	±0.1°C...±0.8°C	5°C/min	10%...98%	29 (avg. 17)	72	1950	80
AV1200 TC 5	1220 l	1000x1130x1080	1490x3550x2350	3050	-75°C/+180°C	±0.1°C...±0.8°C	5°C/min		46 (avg. 18)	74	2400	80
AV1200 C 5	1220 l	1000x1130x1080	1490x3550x2350	3050	-75°C/+180°C	±0.1°C...±0.8°C	5°C/min	10%...98%	48 (avg. 20)	74	2400	80
AV1200 TC 10	1220 l	1000x1130x1080	1490x3550x2350	3050	-75°C/+180°C	±0.1°C...±0.8°C	10°C/min		46 (avg. 28)	74	2400	100
AV1200 C 10	1220 l	1000x1130x1080	1490x3550x2350	3050	-75°C/+180°C	±0.1°C...±0.8°C	10°C/min	10%...98%	48 (avg. 30)	74	2400	100
AV1200 TC 15	1220 l	1000x1130x1080	1490x3550x2350	3050	-75°C/+180°C	±0.1°C...±0.8°C	15°C/min		66 (avg. 40)	80	2900	160
AV1200 C 15	1220 l	1000x1130x1080	1490x3550x2350	3050	-75°C/+180°C	±0.1°C...±0.8°C	15°C/min	10%...98%	68 (avg. 42)	80	2900	160
AV2200 T 5	2187 l	1350x1350x1200	2050x4050x2450	3170	-40°C/+180°C	±0.1°C...±0.8°C	5°C/min		31 (avg. 21)	72	2350	100
AV2200 5	2187 l	1350x1350x1200	2050x4050x2450	3170	-40°C/+180°C	±0.1°C...±0.8°C	5°C/min	10%...98%	35 (avg. 25)	72	2350	100
AV2200 TC 5	2187 l	1350x1350x1200	2050x4050x2450	3170	-75°C/+180°C	±0.1°C...±0.8°C	5°C/min		39 (avg. 24)	74	2500	100
AV2200 C 5	2187 l	1350x1350x1200	2050x4050x2450	3170	-75°C/+180°C	±0.1°C...±0.8°C	5°C/min	10%...98%	43 (avg. 28)	74	2500	100
AV2200 TC 10	2187 l	1350x1350x1200	2050x4050x2450	3170	-75°C/+180°C	±0.1°C...±0.8°C	10°C/min		70 (avg. 40)	80	2900	160
AV2200 C 10	2187 l	1350x1350x1200	2050x4050x2450	3170	-75°C/+180°C	±0.1°C...±0.8°C	10°C/min	10%...98%	74 (avg. 44)	80	2900	160
AV2200 TC 15	2187 l	1350x1350x1200	2050x4050x2450	3170	-75°C/+180°C	±0.1°C...±0.8°C	15°C/min		94 (avg. 54)	84	3400	300
AV2200 C 15	2187 l	1350x1350x1200	2050x4050x2450	3170	-75°C/+180°C	±0.1°C...±0.8°C	15°C/min	10%...98%	78 (avg. 58)	84	3400	300

* with test cabinet in the highest position

** for C and TC models the speed is considered in the range -70°C... +180°C

*** measured at 1 meter from the front in a non reverberating room

**** at a cooling water temperature of +29°C and temperature difference of 5°C, water temperature +12°C to +29°C

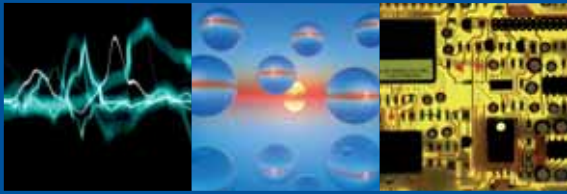


Chamber/shaker turn-key system...



to make your life easier!





Anyvib accessories



**NEW chamber/shaker turn-key systems:
contact us for personalized solutions.**

OPTIONS

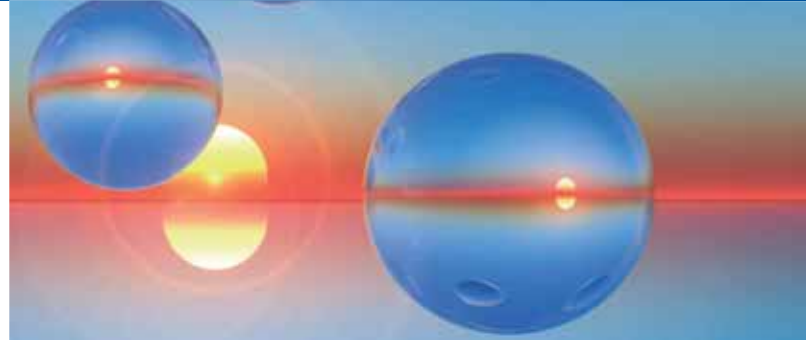
- Removable sliding floor for horizontal shaker (no plug available).
- Automatic or manual horizontal movement of the chamber.
- Deep dehumidification system by compressed air.
- WinKratos software: installed on a PC running Windows XP, Vista or 7.
- Multichamber remote control: consisting of PC complete with WinKratos software (multichamber control version) and connection configuration kit for controlling several chambers (up to 16) from the same PC.
- Set of no. 8 auxiliary contacts (no. 1 set max.).
- Handling port hole: 120 mm of diameter, it is positioned on the door under the inspection window. It allows the handling of specimens inside the chamber (no. 2 max).
- Additional set of no. 4 analog inputs: it allows the user to acquire additional data.
- Internal shelves: AISI 304 stainless steel, adjustable in height, grid shelves.
- Teleservice: allows the service on-line directly by our engineers for software upgrades and adjustments.

Further accessories, such as GN2 purge, GN2 shock cooling, adjustable air speed, notches and special voltages/frequencies are available on request.

GATEKEEPER® DOOR ELECTRO-MAGNETIC OPENING SYSTEM

The Gatekeeper® is the innovative and patented opening system based on a transponder key that ensures the security of the environmental tests. Personal magnetic TAG allows the opening of the door only to the people having permission to work with the equipment. This magnetic card has to be scanned by an electronic eye that recognizes the card code and permits opening. As additional safety against dangerous temperatures, the control system of the chamber allows the opening of the door only in a predefined temperature range (usually from 0°C to +50°C). (The opening is always possible with an emergency push-button.) The closing is made through an electro-magnetic system located in the right side of the door like a standard lock. The electromagnetic closing system is equipped with a battery that, in case of power failure, ensures the door remains locked for up to 8 hours. At the completion of the test the door will be unlocked automatically.

Control Systems



KEYKRATOS PLUS

Hardware

- 4096 colours with STN technology.
- Faster control.
- 3 types of memory support for storing cycles, recordings, and alarms.
- Compact Flash, Pendrive (USB key style), Internal memory.

Software

- Touch menu with related pop up screens where necessary.
- Memory capacity to 1000 cycles with 350 segments (on compact flash).
- Real time recording of temperature and humidity versus time (LOG on compact flash).
- USB interface on front panel for stick or printer.
- Recordings in CSV format (Comma Separated Value) for easy export to Excel®, program files are easily convertible into graphic format.
- A trend chart for recorded variables available with a scale from -100/+200.



- User friendly data input during editing, check and administration of cycle.
- The system is available in 6 languages: italian, english, german, spanish, french, dutch.

WINKRATOS (optional)

Winkratos is the new-generation control and management system running under Windows XP/Vista/7. Powerful and flexible, Winkratos offers many innovative features and it allows the user to:

- Create test programs.
- Refer to and modify previously created test programs.
- Delete all test programs that are no longer necessary.
- Print any test program in text format.

Main features

- Connection to PLC through Ethernet.
- Colour printing of charts.
- Multiple levels of password protected access.

Graphic functions

- Fully-configurable layout of acquired measuresí charts.
- Display of several charts on the monitor.
- Several colours to be chosen at oneís choice for the display of different parametersí curves.
- Enable/disable of chart display and grids.
- Real-time update of acquired measuresí charts.

Acquisition functions

- Real-time measurement of test parameters by means of graphic cursors.
- Max. flexibility for cycles to be set.
- Storage of occurred events such as alarms, commands, etc.

WinKratos may be installed on PCs supplied by ACS or belonging to the customer.

Angelantoni Industrie headquarters in Massa Martana (Perugia, Italy) extend over an area of 80.000 square metres (more than 16.000 covered square meters).

Massa Martana is located in Umbria, a region rich in art, history and tradition.

No location could be more appropriate; Angelantoni Industrie learns from the past to better understand and anticipate the future. This, combined with dedication and over growing expertise, is why Angelantoni Industrie has become the most complete and diversified European Group for advanced cold technology and test equipment for industry and research.

Established in 1932, Angelantoni Group has today more than 800 employees working in 8 units (4 in Italy, France, Germany, China, India).

Our core competencies and services for total customer satisfaction:

- Training, both at our facility and at customer site
- Testing and quality checks
- Installation and start up
- Preventive maintenance
- Service
- Calibration using SIT certified instruments
- "Full risk" assistance contracts
- Extended warranties
- Existing chamber validation
- Retrofitting of older chambers, including instrumentation and new environmentally friendly refrigerants
- Exchange and sale of used chambers
- Research and development
- Production and assembly
- Market analysis and advice
- Special applications



ISO 14001



ISO 9001



EMAS

Angelantoni Test Technologies

- environmental test chambers ACS
- test benches for automotive and aerospace BIA
- electrodynamic shakers and balancing equipment TIRA

