

Product Catalog



Environmental Testing Technology

Vostron Technology Sdn. Bhd.

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Description	Capabiliies
Burn-In Oven	Temperature : 40 to 250°C
Temperature & Humidity Chamber	Temperature : -70 to 180°C Humidity : 20 to 98%
Thermal Shock Chamber	Temperature : -70 to 180°C
Environmental Stress Screening Chamber (ESS)	Temperature : -55 to 180°C Ramp Rate : 5 to 20°C / Min

About Vostron

Quality is what we produce Reliability is what we promise

Vostron is an industrial test chamber and oven manufacturer, we supply both brand new and refurbished chamber, we do provide chamber rental as well as contract reliability test laboratory. On top, we are providing maintenance and calibration services for chamber and oven in all the types.

Vostron is well known for maintaining highest standard in research and development, manufacturing and quality assurance. Our products vary from small bench top chamber to huge walk-in chamber. Vostron test chambers are widely used for various applications such as IT, electronics, aerospace, defense, scientific, medical laboratories, manufacturing research and development.

Vostron offers a broad range of both standard and custom-designed chambers and ovens. Our experiences engineering and designing team could create custom solution for customers' specialized requirements. At Vostron, we guarantee the quality and reliability of every machine we manufacture with design review meeting, incoming and in-process inspection and validation testing. We ensure our customers are buying the most reliable chamber in the industry with reasonable pricing.

Whenever our customers have a need, our committed sales specialists are available to solve any challenging environmental test application. Our dedication in after-sales-service continues and it is never-ending from machine set-up, user training, technical support, spare parts, system upgrade, calibration and timely preventive maintenance. Vostron contract reliability test laboratory provides validation of customers' product test result and handle overflow during their peak testing periods.

At Vostron, our engineering and designing teams work closely to integrate latest technology and evolve our state-of-art chamber product lines. Our goal is to ensure consistent product excellence with compliant to international standards. As at today, we are well recognized on our superior quality machines and prompt responsiveness services. The efficiency of our supports and spare parts help our customers obtain the maximum satisfaction out of their minimum investment.

Please contact us should you need any kind of chamber or oven in environmental testing, we are the environmental test chamber specialist who will provide you with one-stop solution.



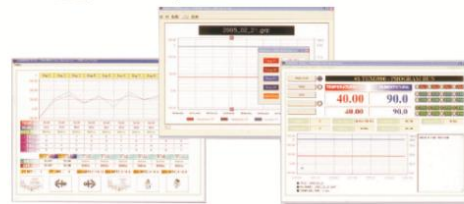
Programmable Controller

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- : High Brightness Color Touch Interface
- : Dialogue Type Parameter Input
- : I/O Relay Board with internal SMPS
 - Simplified Wiring and Saving Prime Cost
- : Available both of Pt and DCV Sensors
- : Controlling and monitoring Controller with PC
- : Freely setting of 33 Type Outputs (Internal Timer)
- : USB Memory Function with UDC 100 (Option)
 - Replacement Recorder
- : Advanced PID Algorithm with built-in Auto-tuning Function
- : Powerful Communication and 99 Sets Multi-drop Function
- : Excellent Fuzzy Function and ARW Operation
 - External Shock Control and Over-shooting Suppresion
- : PV Graph Display
- : Power Saving Function
- : RS232 / RS485 Communication Function & Protocol PC-Link, MODBUS(ASCII, RTU)



Special Features



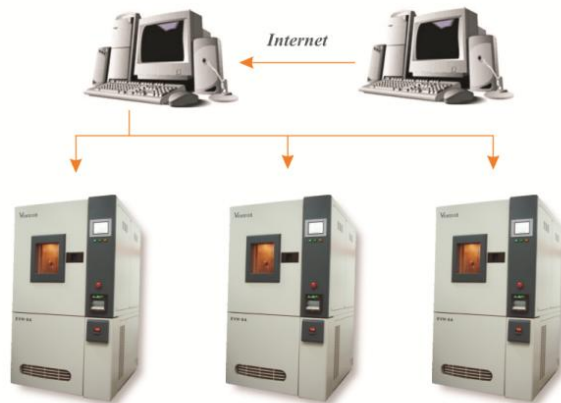
: User can control and monitor 880 / 850 with free operation program on PC, it is improved convenience and economy.

Control Operation

WATLOW F4



The WATLOW F4 Programmable Controller features a four line, high definition LCD interface display that make profile programming and controller configuration significantly faster and easier. A large LED readout indicates the actual chamber temperature with 0.1 C or F display resolution. Internal logic provides refrigeration compressor control base on the demand of cooling for responsive and reliable performance. Up to 256 steps can be programmed into as many as 40 nameble profiles.



Temperature & Humidity Chambers

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Model	Interior Volume	Temperature Range*	Humidity Range*
EVT-8A	225 L (8 cu.ft.)	-40 to 150 °C	None
EVT-14A	408 L (14 cu.ft.)		
EVT-32A	900 L (32 cu.ft.)		
EVL-8A	225 L (8 cu.ft.)	-60 to 150 °C	
EVL-14A	408 L (14 cu.ft.)		
EVL-32A	900 L (32 cu.ft.)		
EVH-8A	225 L (8 cu.ft.)	-40 to 100 °C	20 to 98%
EVH-14A	408 L (14 cu.ft.)		
EVH-32A	900 L (32 cu.ft.)		
EVX-8A	225 L (8 cu.ft.)	-60 to 100 °C	
EVX-14A	408 L (14 cu.ft.)		
EVX-32A	900 L (32 cu.ft.)		

Interior Dimensions

Interior Volume	WxDxH
225 L (8 cu.ft.)	50 x 60 x 75 cm (19.7 x 23.6 x 29.5 in)
408 L (14 cu.ft.)	60 x 80 x 85 cm (23.6 x 31.5 x 33.5 in)
900 L (32 cu.ft.)	100 x 90 x 100 cm (39.4 x 35.5 x 39.4 in)



Industrial Ovens



Model	Temperature Range	Interior Volume	Interior Dimension	Type
EOH3	45 to 200°C	91 L (3.2 cu.ft.)	45 x 45 x 45cm (17.7 x 17.7 x 17.7 in)	Horizontal
EOH7		216 L (7.6 cu.ft.)	60 x 60 x 60cm (23.6 x 23.6 x 23.6 in)	
EOH18		512 L (18.1 cu.ft.)	80 x 80 x 80cm (31.5 x 31.5 x 31.5 in)	
EOH35		1000 L (35.3 cu.ft.)	100 x 100 x 100cm (39.4 x 39.4 x 39.4 in)	
EOV11		324 L (11.4 cu.ft.)	60 x 60 x 90cm (23.6 x 23.6 x 35.4 in)	Vertical
EOV15		432 L (15.3 cu.ft.)	60 x 60 x 120cm (23.6 x 23.6 x 47.2 in)	
EOV27		768 L (27.1 cu.ft.)	80 x 80 x 120cm (31.5 x 31.5 x 47.2 in)	

19" Test Rack Chambers

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Vostron model EVU & EVR Temperature Cycling Chamber is exclusively to 19" test rack product. The internal size is 23 cubic foot dimensions of 24" width x 28" depth x 60" height, which can be organized with rack style rails to support most of today networking and telecommunication hardware footprints.

Likewise to all the Vostron models, the internal fixture is absolutely your choice. Whether it is our connectorized removable tray and shelf system, cages on roller slides, or your custom suspended product chassis, we can fulfill all your requirements.



Model	Interior Range	Interior Dimension	Temperature Range
EVU-23	23 cu.ft.	24"W x 28"D x 60"H	40 to 80°C
EVU-50	50 cu.ft.	30"W x 28"D x 60"H	
EVU-80	80 cu.ft.	48"W x 28"D x 60"H	
EVR-23-1-3	23 cu.ft.	24"W x 28"D x 60"H	-20 to 80°C
EVR-50-1-4	50 cu.ft.	30"W x 28"D x 60"H	
EVR-80-1-5	80 cu.ft.	48"W x 28"D x 60"H	

Environmental Stress Screening Chamber (ESS)

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Rapid temperature changes finds latent defects in electronics

Environmental Stress Screening (ESS) generally used to validates product or chassis quality by subjecting the specific product to the stress of repeated rapid thermal changes. Common screening profiles included thermal cycling of 5°C to 20°C per minute over a 100°C span (i.e.85°C to -20°C). ESS chambers is applicable for dense loading of products such as PC boards whereby produces excellent stress on each unit of components.

Vostron could provide relevant systems for applications such as pre-qualification, trouble shooting, and small-scale ESS programs. These models accommodate the same fixtures tray from our standard ESS systems.

- Designed with adequate space for better air circulation, to obtain better temperature uniformity.
- Programmable control for product-change or air-change is accessible.
- Automatic coupling of product speeds loading.
- Liquid Nitrogen cooling (LN2) is an optional add-on for even faster ramping rates.
- Custom design and custom system to meet precise needs are workable.



Performance example					
Model	Interior Volume	Interior Dimensions WxDxH cm (in)	Temperature Range	Temperature Range	Temperature change rate
EVS 5	(5 cu. ft)	56x68x38 (22x27x15)	-35°C~177°C	-20°C to 80°C	5°C to 20°C/Min
EVS 11	(11 cu. ft)	56x68x76 (22x27x30)			
EVS 27	(27 cu. ft)	66x66x177 (26x26x70)			
EVS 35	(35 cu. ft)	61x132x122 (24x52x48)			
EVS 85	(85 cu. ft)	122x127x152 (48x50x60)	-60°C~177°C	-54°C to 80°C	5°C to 15°C/Min
ETS 15	(15 cu. ft)	76x76x76 (30x30x30)			
ETS 34	(34 cu. ft)	99x99x99 (39x39x39)			
ETS 46	(46 cu. ft)	109x109x109 (43x43x43)			
ETS 64	(64 cu. ft)	121x121x121 (48x48x48)			
ETS 84	(84 cu. ft)	140x140x140 (55x55x55)			

Walk-In Chamber

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Comprehensive standard feature and variable design

Vostron walk-in chambers offer a wide range of applications like environmental testing, stress screening, meteorological simulation, aging and burn in, Walk-in chamber is relatively efficient for research or development where large samples to be tested.

Modular panel construction (EWP) is cost-effective and easier for installation especially in areas with limited access. Wide range of standard dimension are available, as well as special sizes or configuration as our customers may require. Customized system and application are available like multiple rooms, with low humidity, with air distribution systems and so on.



EVWP	Modular Construction
EVWS	Solid Construction

Model	Interior Volume	Interior Dimensions WxDxH (inch)	Temperature Range	Humidity
EVWP-176	176 cu. ft	60" x 60" x 84"	-35°C to 85°C or -60°C to 85°C	None or 30 to 95% RH
EVWP-346	346 cu. ft	84" x 84" x 84"		
EVWP-572	372 cu. ft	108" x 108" x 84"		
EVWP-1018	1018 cu. ft	144" x 144" x 84"		
EVWS-176	176 cu. ft	60" x 60" x 84"	-35°C to 177°C or -60°C to 177°C	None or 30 to 95% RH
EVWS-346	346 cu. ft	84" x 84" x 84"		
EVWS-572	372 cu. ft	108" x 108" x 84"		
EVWS-1018	1018 cu. ft	144" x 144" x 84"		

* Custom-Made Interior Dimension Is Available

Benchtop Chambers

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Model	Temperature Range	Humidity Range	Interior Range	Interior Dimension (WxDxH)
BU-230	-40 to 150 °C	None	22.5 L (0.79 cu.ft)	30 x 25 x 30cm (11.8 x 9.8 x 11.8 in)
BU-660	-60 to 150 °C		64 L (2.2 cu.ft)	40 x 40 x 40cm (15.7 x 15.7 x 15.7 in)
BH-230	-40 to 100 °C	30 to 95%	22.5 L (0.79 cu.ft)	30 x 25 x 30cm (11.8 x 9.8 x 11.8 in)
BH-660	-60 to 100 °C		64 L (2.2 cu.ft)	40 x 40 x 40cm (15.7 x 15.7 x 15.7 in)

Rental & Refurbished

Besides selling our Vostron brand new test chambers, we also provide the cost saving services such as chamber rental, consist of long-term contact or short-term basis. On top, we have ample sources of other brand refurbished chambers.

By purchasing refurbished equipment from Vostron, you can save a significant cost on equipments, while eliminating most of the risk usually associated in purchasing used machine from unknown sources. All our reconditioned chambers are being tested thoroughly and being ensure it performs as well as new machines.

Here at Vostron, we do not only strive provide the best in both brand new and used chambers, we always provide the widest variety of purchasing options to our customers. Whether your need is to buy a new, refurbished, rental, or reliability test service, Vostron has a solution that satisfy you.

Vostron has made a major capital investment to increase our inventory of equipment for rental and test service. We are committed to be one of the nation's top test equipment rental, test service companies and to become your first choice to call when you want fast delivery and a broad selection.

Contract Test Laboratory

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Vostron reliability test laboratory, located in Penang region, provides various types of testing service to diverse group of industries nationwide such as automotive, electronics, medical, telecommunication, military, plastics, packaging and variety of other industries.

We specialized in designed verification testing, product performance, product reliable testing, production testing, life testing, environmental stress screening and total quality control system. Whether your need is to provide a validation on your product test results or need is to out source a test laboratory to handle your over flow during your peak periods, Vostron is your one stop solution.

Test Specification & Equipment Capability

All of our test equipment is calibrated with ISO / IEC 17205 Standard. Detailed description of all our environmental test equipment and their simulation capabilities are listed below :-

Description	Capabilities
Burn-in Oven	Temperature : 40 to 250°C
Temperature & Humidity Chamber	Temperature : -70 to 180°C Humidity : 10 to 98%
Thermal Shock Chamber	Temperature : -70 to 180°C
Environmental Stress Screening Chamber	Temperature : -55 to 100°C Ramp Rate : 5°C/Min to 30°C/Min
Hast System Auto Claves	Temperature : 105°C to 162°C Humidity : 75% RH to 100% RH (4.0kg / cm ² G)



All of our Vostron testing facilities are equipped to meet a variety of commercial, automotive and military test standards. Below is our specification used for testing :-

Test Specification	Equipment
JESD22-A104-B (Test Condition A - M)	Thermal Shock Chamber
JESD22-A104-B IEC 60068-2-14	Ess Chamber
IEC 68-2-1 (Part 2 , Test A , Cold-all clauses) IEC 68-2-2 (Part 2 , Test B , Dry Heat - all clauses) IEC 68-2-3 , EC 68-2-56 (Damp Heat - Steady State Test) IEC 68-2-30 (Damp Heat Cyclic Test) IEC 68-2-38 (Composite Temp / Humidity Cyclic Test)	Temperature / Humidity Chamber

Main Customers & Projects List

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AVAGO
TECHNOLOGIES



Agilent Technologies

Benchmark
electronics

BLAUPUNKT.
Bosch Group



CELESTICA

CISCO

Continental

FLEXTRONICS

fabrinet

Honeywell



harris
stratex

Finisar

infinera

iDIRECT
TECHNOLOGIES

Juniper
NETWORKS

JABIL



MITSUBISHI
ELECTRIC



MOTOROLA

PLEXUS

Redback
NETWORKS



SANMINA-SCI

STEC

Schlumberger

WD Western
Digital

Award of Achievement

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Asia Pacific International Honesty Enterprise Keris Award 2011



Malaysia Power Brand 2010



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