

2022 PRODUCT CATALOGUE CLIMATIC TEST CHAMBERS

RELIABILITY

REDEFIND



GROWING PRECISION



BETTER
COVERA



WWW.PARIXAN.IN

INTRODUCING
WALK IN/ DRIVE IN
CHAMBERS



pariXan



Vision Statement

"To provide reliable products and services with value for money"



Mission Statement

"To make the Crazy Tests Simple"



Meet the Team



Mr. Sanjay Sharma

Managing Director of Bharti Automation Group

25 years of experience in Test Automation and having credit of designing many first time developed Test rigs in India. He is heading Smart Metering and RMS Business.



Mr. Ashok Giri

Business Head of Electronics Testing having 22 years of experience in Testing of Industrial and domestic products having outstanding capabilities of customized testing.



Ms. Jyoti Arora

Manager QA and HR Manager

at Bharti automation she has been serving for last three years as QM and HRM



Mr. Rama Shanker

Business Head of Automation Division having 17 years of experience in SA in Smart grid and Smart Metering solutions.



Mr. Mohd. Irfan Khan

Business head of High Voltage Testing having 15 years of experience in High Voltage Testing of HT/LT equipment.



Mr. Ajay Raghuvanshi

Manager Customer relations having 10 years of experience in customer relationship and retention.



Mr. Rishabh Johri

Business Head Of Design and Manufacturing having ten years of experience in machine design and CNC



The owner of the brand **parixan** and main promoter

About the Company



- **parixan** is a registered trade mark of Bharti Automation Private Limited, a limited company with Indian Origin.
- The company is certified ISO: 9000: 2015
- Bharti Automation is a Testing Solutions and allied Service Provider Company in Electrical, Electronics and Mechanical domain.
- With a wide product range from Smart Meters to Automated Test Equipment , Service range from Testing of Electrical and Electronics products to Calibration services Bharti Automation is leading the Test and Measurement Industry.
- With a modest beginning in the year 1995, Bharti Automation has grown steadily to become India's foremost single window solution company for a wide range of products and services.
- The company is having a large 10000 sq. feet state of the art Test Calibration and Manufacturing setup in the ultra modern Industrial town of Manesar Gurugram the Millennium City of India with 5 Branches/Joint Ventures in different parts of the country. It has also got Joint Venture laboratories abroad.
- Bharti Automation has got all necessary certifications and approvals from various government departments and ministries including NABL,BIS, TEC, etc.



Quality Policy

- We will continuously strive to delight our customers with outstanding Quality of our products and services.

In our endeavour to achieve this objective, we will;


- Create and nurture people of quality by continuous education and training.
- Maintain & improve standards of manufacturing.
- Establish a “Total Quality” framework to continually improve the quality Management System and realise challenging Quality objectives.
- Record and control the change points at each stage.
- Prevent defect outflow to next process, and feedback to previous process for enhanced Quality Assurance.
- Strengthen supply chain by effective traceability system.
- We believe that our future lies in the hands of our valued customers.

WHY CHOOSE US?

we are choice of your trusted brands



Certifications and Credentials



भारतीय मानक बोर्ड
BUREAU OF INDIAN STANDARDS
Ministry of Consumer Affairs, Food & Public Distribution
Government of India

Our Ref: LAMSD/RS/OSL/414726 20-10-2021

M/s Bharti Automation Pvt Ltd (A Testing Division)
Plot No. 354, Sector-7, DIT Manesar,
Gurgaon 122009,
Haryana

Subj: Issuance of additional products as per IS 13250:2017 & IS 13250(P)-1:2019 in year of
renewal under BIS Lab Recognition Scheme 2020

Dear Sir,

This is with reference to your email dated 08-10-2021, the Competent Authority has agreed to
include the additional products as per IS 13250:2017 & IS 13250(P)-1:2019 in year of scope of
recognition under BIS Lab Recognition Scheme 2020.

2. The modified scope is attached herewith as Annex-1

Thanking you,

Yours faithfully,
Ankur Singhania
Head (Testing Division)
S.C. LAMD

Head Office: 1, Market, Connaught Place, New Delhi 110028
New Delhi: 110002, Sector-1, Connaught Place, New Delhi 110028
Gurgaon: 122009, Sector-7, DIT Manesar, Gurgaon, Haryana
Email: info@bis.org.in, customer.care@bis.org.in
Website: www.bis.org.in



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION
BHARTI AUTOMATION PRIVATE LIMITED (A TESTING
DIVISION)

has been assessed and accredited in accordance with the standard
ISO/IEC 17025:2017
"General Requirements for the Competence of Testing &
Calibration Laboratories"

for its facilities at
PLOT NO. 354, SEC. 7, DIT MANESAR, GURGAON, HARYANA, INDIA
in the field of
TESTING

Certificate Number: TC-7253
Issue Date: 05/07/2021 Valid Until: 04/07/2023

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued
satisfactory compliance to the above standard & the relevant requirements of NABL.
(On the scope of accreditation of this laboratory, you may refer to NABL website www.nabl.org)

Name of Legal Identity: BHARTI AUTOMATION PVT. LTD.
Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer



National Accreditation Board for
Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION
BHARTI AUTOMATION PVT. LTD.

has been assessed and accredited in accordance with the standard
ISO/IEC 17025:2017
"General Requirements for the Competence of Testing &
Calibration Laboratories"

for its facilities at
PLOT NO. 354, SEC. 7, DIT MANESAR, GURGAON, HARYANA, INDIA
in the field of
CALIBRATION

Certificate Number: CC-3064
Issue Date: 23/08/2019 Valid Until: 23/08/2021

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued
satisfactory compliance to the above standard & the relevant requirements of NABL.
(On the scope of accreditation of this laboratory, you may refer to NABL website www.nabl.org)

Name of Legal Identity: BHARTI AUTOMATION PVT. LTD.
Signed for and on behalf of NABL

N. Venkateswaran
Chief Executive Officer



GOVERNMENT OF INDIA
TELECOMMUNICATION ENGINEERING CENTRE
(Department of Telecommunications)
Gate No. 5, Khandela Lal Bypass, Jangpoh, New Delhi-110001

CERTIFICATE OF DESIGNATION

Certificate No. TEC/SR/CAB/IND-D/39 Date: 04/02/2019

This is to certify that M/s Bharti Automation Pvt. Ltd. (A Testing Division), Gurgaon
has qualified the criteria for designation as CREDENTIAL ASSESSMENT BODY (CAB),
as described below, to carry out product testing activities specified in the Annexure-1
subject to the terms and conditions specified in Annexure-II.

CAB DESCRIPTION
Name of CAB: M/s Bharti Automation Pvt. Ltd. (A Testing Division)
Address of CAB: Plot no. 354, Sector-07, DIT Manesar, Gurgaon,
Haryana-122009
CAB Identification: IND009
Date of Issue: 04/02/2019
Date of Expiry: 3 Years from date of issue of this certificate or till the continued
validity of Certificate issued by NABL, whichever is earlier.

D. K. Sharma
Deputy Director General (M&A)
For Designating Authority
TEC



CERTIFICATE

This is to Certify that the
Environment Management System
of
BHARTI AUTOMATION PRIVATE LIMITED
Plot No. 354, Sector-7, DIT Manesar Gurgaon-122051, Haryana, India

has been assessed and approved
in accordance with the guidelines of
ISO 14001:2015
for the following scope of activities:

- Electrical & Electronics Product Testing
- Environmental and Condition Monitoring
- Calibration and Automation Services
- Smart and Remote Monitoring Solutions

Certificate Number: E-205000729003

Date of initial registration: 29th July 2019
Date of this Certificate: 29th July 2019
Term of Validity: Valid till 28th July 2022
Recertification Due / Certificate Expiry: 28th July 2022

Ankur Singhania
Head of Certification

Accredited by: IAS, IAF, ISO 14001:2015



CERTIFICATE

This is to Certify that the
Quality Management System
of
BHARTI AUTOMATION PRIVATE LIMITED
Plot No. 354, Sector-7, DIT Manesar Gurgaon-122051, Haryana, India

has been assessed and approved
in accordance with the guidelines of
ISO 9001:2015
for the following scope of activities:

- Electrical & Electronics Product Testing
- Environmental and Condition Monitoring
- Calibration and Automation Services
- Smart and Remote Monitoring Solutions

Certificate Number: Q-205000729002

Date of initial registration: 29th July 2019
Date of this Certificate: 29th July 2019
Term of Validity: Valid till 28th July 2022
Recertification Due / Certificate Expiry: 28th July 2022

Ankur Singhania
Head of Certification

Accredited by: IAS, IAF, ISO 9001:2015

सूक्ष्म, लघु एवं मध्यम उद्यम प्रमाणन
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES

उद्योग आधार Udyog Aadhaar

E

Type of Enterprise	Micro	Small	Medium
Manufacturing	A	B	C
Services	D	E	F
UAM No.	R30280014751		

Udyog Aadhaar Registration Certificate
RUC02019191

Udyog Aadhaar Number: RUC02019191
Name of Enterprise: BHARTI AUTOMATION PRIVATE LIMITED.
Location of Plant Details:

SN	Floor/Door/Block No.	Name of Premises/Building Village	Road/Street/ Lane	Area/Locality	City	Pin	State	District
1	PLOT NO-354	SECTOR-7	JMT	MANESAR	MANESAR	122051	HARYANA	GURGAON

Official Address of Enterprise: PLOT NO-49, VASUNDHRA NAGAR, BHWADI
District: ALWAR State: RAJASTHAN Pin: 122051
Mobile No: 991046414 Email: TAMCASSOCIATES@GMAIL.COM

Date of commencement: 27/05/1997
Major Activity: SERVICES
Enterprise Type: Small

Previous Registration details if any:
National Industry Classification Code:

SN	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit Code	Activity Type
1	74 - Other professional, scientific and technical activities	7490 - Other professional, scientific and technical activities n.e.c.	74900 - Other professional, scientific and technical activities n.e.c.	Services

Acknowledgement: Date of Filing: 13/02/2019 Date of Printing: 13/02/2019

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MyMeme Mobile App (Beta Version) is available now for download. <https://play.google.com/store/apps/details?id=com.mymeme>



Featured Products Index

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LET'S GO!

parixan TM

Temperature Chambers & Humidity Chambers

- Optimized heating & cooling system
- High performance & energy efficiency
- Customizable Sizes suiting to different test standards
- Larger viewing window
- Ports for live specimen testing
- visual alarm system
- Improved mobility and smaller footprint.



PARI -70 T



PARI -40 T

Temperature and humidity test chambers are available as standard products in a variety of sizes to suit your needs. Our environmental test chambers are often used for steady-state stability testing, basic temperature cycling and accelerated stress testing.

With standard sizes ranging from 8 cu.ft. to 96 cu.ft., our temperature test chambers meet common temperature and humidity testing needs. For more advanced test requirements, CT-Series chambers may be custom-designed to meet specific test applications, including combined environmental and climatic variables.

Reliability Test standards

- IEC 60068 - 2 - 30, 2005, Environmental testing Part 2-30:, Tests: Damp heat, cyclic,
- IEC 60068 - 2 - 78, 2012, Environmental testing Part 2-78:, Tests: Damp heat, steady state
- IEC 60068 - 2 - 1, 2007, Environmental testing Part 2-1:, Tests: Cold
- IEC 60068 - 2 - 2, 2007, Environmental testing Part 2-2:, Tests: Dry heat
- IEC 60068 - 2 - 14, 2009, Environmental testing Part 2-14: Tests: Change of temperature
- IS 9000 Part II Sec. 1 to 4, 1977 & Sec. 1 to 5, 1977, Basic climatic test procedures, Part 2: Cold test, Part 3: Dry heat test
- IS 9000 Part IV, 2008 & Part V Sec. 1 & 2, 1981 Basic climatic test, Part 4: Damp heat, steady state, Part 5: Damp heat, cyclic test.
- IS 9000 Part VI, 1978, Basic climate test, Part 6: Composite temperature/humidity cyclic test.

Specifications

Pari -40T

Temperature Range – 40°C to +180°C

Standard Volume Range 110 L, 225L, 270L, 450L, 580L, 1000L, 1500L

Minimum Temperature -40°C
Maximum Temperature 180°C

Rate of Temperature Change
1 °C/Min to 3°C/Min,

Humidity Range 10%RH to 98%RH

Customizability Yes

Refrigeration System
Single

Material of Construction Outer Mild Steel and Inner SS Cabinet

Operating Voltage 220 VAC 50 Hz

Test Standard Compliance IEC-60068, ISO16750, ASTM, SAE, BIS & 50 other standards

Pari -70T

Temperature Range– 70°C to +180°C

Standard Volume Range 110 L, 225L, 580L, 1000L, 1500L

Minimum Temperature -70°C
Maximum Temperature 180°C

Rate of Temperature Change
1 °C/Min to 3°C/Min,

Humidity Range 10%RH to 98%RH

Customisability Yes

Refrigeration System
Cascade

Material of Construction Outer Mild Steel and Inner SS Cabinet

Operating Voltage 220 VAC 50 Hz

Test Standard Compliance IEC-60068, ISO16750, ASTM, SAE, BIS & 50 other standards

Benchtop/Tabletop Chambers

- Compact size saves floor space
- Easy installation
- Basic to accelerated testing in a small chamber
- Includes a one year part and labor warranty for the best warranty in the industry



PARIXAN-BT PLUS



PARIXAN-BT

Compact testing for small components and products

PARIXAN tabletop chambers are compact & quiet yet adhere to multiple test standards & ideal for long term tests. Small footprint area makes it easily fit into any small lab space and can be moved across effortlessly.

Built with corrosion-resistant stainless steel, the test space can hold specimen up to 15 kg. The refrigeration system uses low GWP refrigerant and meets all statutory standards.

Reliability Test standards

Following are some of the frequently used test standards in benchtop chambers.

- IEC 60068 - 2 - 30, 2005
- IEC 60068 - 2 - 78, 2012
- IEC 60068 - 2 - 1, 2007
- IEC 60068 - 2 - 2, 2007
- IEC 60068 - 2 - 14, 2009
- IEC 60068 - 2 - 38, 2009
- ISO 16750-4(5.3)

The Parixan BT is a compact environmental chamber designed to simulate a full range of temperature and/or humidity conditions. The small footprint of the Parixan BT combined with temperature and humidity capabilities make this chamber the number one choice for testing small components and products. Whether you need to perform temperature cycling tests or expose your product to steady state temperature environments, these chambers will maintain precise and accurate temperature/humidity control throughout your test.

Select from your choice of two different environmental chamber models available in 230V for faster heating & cooling performance. The BT model now has cooling transition rates of 5°C/min for faster cycling in a small footprint.

Specifications

Parixan-BT

- Temperature Range – 30°C to +175°C
 - Standard Volume Range 42 L
 - Inner Dimension 400x350x300 mm
 - Rate of Temperature Change(options) 2°C/Min
 - Customizability Yes
 - Refrigeration System Single
 - Test Standard Compliance IEC-60068, ISO16750, ASTM, SAE, BIS & 50 other standards
 - Warranty 2 Year Extended Warranty
-
- Exterior Dimensions 25"W x 38.75"D x 65.5"H and as per requirement.
 - (63.5cm x 98.4cm x 166cm)
 - Add approximately 6" (15 cm) to exterior width for humidity units.
 - Electrical Requirements 115V, 1 PH, 60 Hertz
 - 220/240V, 1 PH, 50 Hertz

Parixan-BT plus

- Temperature Range – 63°C to +175°C
- Standard Volume Range 42 L
- Inner Dimension 400x350x300 mm
- Rate of Temperature Change(options) 2°C/Min
- Customizability Yes
- Refrigeration System Cascade
- Test Standard Compliance IEC-60068, ISO16750, ASTM, SAE, BIS & 50 other standards
- Warranty 2 Year Extended Warranty

Walk-In Test Chambers



- Quick Installation
- Reliable Performance
- Affordable Service
- Integral Welded Floors,
- Pre-Fabricated
- ModularPanel construction
- Compact

PARIXAN design & assemble a wide range of walk-in/drive-in test chambers.

The construction model includes Integral Welded Floors, Pre-Fabricated Modular Panel construction and Compact Walk-In chambers. The Integral welded floors is adopted for heavy-duty testing with ramp rate more than 10°C/min and is ideal for high soak period testing. This is customised as per customer's requirement.

The Compact Walk-In Chambers are made on our Parixan platform which is suitable for medium-size specimen testing such as PV module testing. The chamber has a smaller footprint area and is energy efficient.

The decision to select a particular type of walk-in chamber is based on the following criteria:

- The type and dimension of the specimen to be tested.
- Test load details including mass, composition & heat generated
- Low & high temperature as well as humidity range required
- Desired ramp rate (rate of cooling & heating)
- Required chamber size
- The way specimen need to be brought to test space
- Site limitations & utility

Specifications

Construction Type	Model	Test Space Volume	Temperature Range	Humidity Range	Ramp Rate	Refrigeration System
Modular Panel Construction	Parixan V5	5000 L	-40°C to 80°C	15%RH to 95%RH	1°C/Min to 5 °C/Min	Single Stage Refrigeration System
	Parixan V8	8000 L	-40°C to 80°C	15%RH to 95%RH		
	Parixan V12	12000 L	-40°C to 80°C	15%RH to 95%RH		
	Parixan V15	15000 L	-40°C to 80°C	15%RH to 95%RH		
	Parixan V20	20000 L	-40°C to 80°C	15%RH to 95%RH		
	MPC-V25	25000 L	-40°C to 80°C	15%RH to 95%RH		
	Parixan V30	30000 L	-40°C to 80°C	15%RH to 95%RH		
	Integral Welded Floors	Parixan IWF	Build to Order	-40°C to 120°C, -60°C to 120°C	15%RH to 95%RH	Customisable
Compact Walk-In Chambers	Parixan 1500	1500 L	-40°C to 180°C, -70°C to 180°C	10%RH to 98%RH	Up to 20°C/Min	
	Parixan 2000	2000 L	-40°C to 180°C, -70°C to 180°C	10%RH to 98%RH	Up to 20°C/Min	

Pharma Stability Chambers



- Shelf life testing
- Stability testing
- Expiration date testing
- Accelerated aging
- and more

Benefits

- Compact size allows for easy fit through doorways
- Uni-Flow airflow design provides precise uniformity
- Patented, high-efficiency Sterile Steam System (SSS)
- Energy efficient, low power draw
- Meets ICH Q1A guidelines
- Quiet operation
- Stackable benchtop model

Features

- Controller Interface - Program, Control and Monitor your testing
- Benchtop, single, double and triple door models
- Six shelves per door
- Lockable door
- Integrated humidity water tank
- Compact size & casters

Specifications

Pharma stability chambers have been specially developed to meet the requirements of test laboratories in the pharmaceutical industry. Temperature and humidity models are available in sizes ranging from the compact benchtop to the largest 3-door model (models 280, 600, 1300 and 2000). The exceptional quality construction, innovative product features, accuracy and smart touchscreen control allows for the safest, easiest, and most reliable stability testing.

All stability chambers meet the requirements of ICH Q1A, USP, ISO, IEC, ISTA, ASTM and other test specifications within the performance range of the chambers. Applications include stability testing, shelf life, package testing, accelerated aging for pharmaceutical products/packaging, personal care products and more. Our reach-in stability chambers specifically meet the stability testing ICH Q1A guidelines for drug substances and products summarized below.

Benefits

Meets ICH Q1A Guidelines

Hassle-free installation

Flexible design

IQ/OQ/PQ validation protocol template included (onsite validation service available)

Features

CSZ EZT-570S 21 CFR Part 11 Compliant Touch Screen Controller

Includes CSZ Connect Software

Ethernet monitoring & control

RS-232, RS-485 serial communications

Stainless steel interior

Door with heated viewing window & interior lights

An electronic humidity sensor for accuracy

Stability Rooms and Environmental Rooms



Benefits

- Meets ICH Q1A Guidelines
- Hassle-free installation
- Flexible design
- IQ/OQ/PQ validation protocol template included (onsite validation service available)

Features

- Touch Screen Controller
- Includes Parixan Labview Software
- Ethernet monitoring & control
- RS-232, RS-485 serial communications
- Stainless steel interior
- Door with heated viewing window & interior lights
- An electronic humidity sensor for accuracy

Used to test or store large batches of products

Parixan Walk-In stability rooms provide a stable, temperature and/or humidity-conditioned environment for worry-free operation with a control system that is easy to use and saves you time. These chambers are designed for stability studies and testing large batches of product.

Environmental rooms are available in temperature only or temperature & humidity. Constructed with 4" (10 cm) foam modular panels and ceiling mounted conditioning systems. All Parixan stability rooms meet ICH Q1A guidelines. Each conditioning system is tested before shipment. Our factory-trained service team can also assist with the assembly, start-up and training of your new environmental room.

Specifications

Model :Pari/PSC/WIC

Size: 288 cu. ft to 3000 sq.ft

Workspace (Other sizes available) . 800 cu. ft. to 2916 cu. ft.

Interior Dimensions (approx) 6'W x 6'D x 8'H to 18'W x 18'D x 9'H

Temperature Range :-20°C to +60°C (-4°F to +140°F)

Optional Humidity Range :20% to 95% RH (optional lower RH available)

Temperature Tolerance :± 0.5°C (± .54°F)

Humidity Tolerance:± 3.5%*

Temperature Uniformity :Designed to your application*

***Better tolerance may be achieved over narrow ranges. Please consult factory to discuss your requirement.**

Photostability Chambers



Benefits

- Meets ICH Q1B Guidelines
- 21 CFR Part 11 compliant control system
- Compact, easy fit through common doorways
- Uni-Flow airflow design and light equalization filters provides precise uniformity
- Ultra-low heat rejection to lab space
- Whisper quiet operation
- Patented high efficiency sterile steam humidity system
- Photostability tests can be performed in less than 100 hours

Features

- 7" touchscreen control interface
- Ideal distribution of light, UV, temperature and humidity
- Calibrated light sensors for light level feedback
- Lockable door
- White interior surfaces for maximum reflectivity
- Integrated humidity water tank

Specifications

Photostability chambers are utilized for light exposure testing of drug products in the pharmaceutical industry according to ICH Q1B FDA Photostability Testing of New Drug Substances and Products. Our photostability test chambers are designed to meet option 2 of this guideline. Our chambers are available in two sizes featuring a compact benchtop and a spacious upright model with uniform light, temperature and humidity distribution.

The photostability testing chambers utilize cool white and ultraviolet-A fluorescent lamps with power levels that allow photostability tests to be carried out in less than 100 hours. Exceptional quality, innovative product features, high accuracy sensors and smart touchscreen controls provide optimum conditions for your photostability testing.

Model C/250/L

Workspace Volume 9 cu. ft. (235L)
Internal Dimensions
W x D x H
Inches (mm) 20.9"W x 26.5"D x 25.2"H
(530 x 673 x 641)
External Dimensions
W x D x H
Inches (mm) 45.6"W x 34.3"D x 40"H
(1159 x 872 x 1017)
Temperature Range +5°C to +50°C (lights on/off)
Humidity Range
20% to 90% RH
Light Tiers 1 UV, 1 CW

Model C/500/L

Workspace Volume 18 cu. ft. (460L)
Internal Dimensions
W x D x H
Inches (mm) 20.9"W x 27"D x 51.4"H
(530 x 687 x 1305)
External Dimensions
W x D x H
Inches (mm) 31.6"W x 41.7"D x 80.9"H
(803 x 1060 x 2055)
Temperature Range +5°C to +50°C (lights off)
+10°C to +50°C (lights on)
Humidity Range
20% to 90% RH
Light 2 UV, 2 CW Light

Altitude Chambers



Benefits

- Easy operation
- Dual purpose for greater ROI
- Heavy-duty construction for harsh testing
- Robust Vacuum system for reliability

Features

- Touch Screen Controller
- Includes Pari Labview Connect Software
- Ethernet monitoring & control
- RS-232, RS-485 serial communications
- 3" (8 cm) circular port
- Humidity water filtration system

Simulating altitude/vacuum and temperature for combined environmental testing

PARI Altitude Chambers combine temperature and altitude with optional humidity to test basic components or sub-assemblies for a variety of industries.

Standard altitude chambers simulate altitude up to 100,000 feet (8.2 Torr) and higher levels optional up to 175,000 feet (.37 Torr). Optional extended ranges are also available to simulate sea level testing when your site is significantly above sea level.

Specifications

- Model Pari AC
- Size 18, 37, or 55 cu. ft. (510L, 1048L, or 1557L)
- Custom Sizes Available
- Temperature Range Single Stage: -34°C to +190°C (-30°F to +375°F)
- Range: -45°C to +190°C (-50°F to +375°F)
- Range: -50°C to +190°C (-58°F to +375°F)
- Cascade: -70°C to +190°C (-94°F to +375°F)
- Optional Humidity Range 10% to 95% RH
- Altitude Range 100,000 FT (8.2 Torr) Standard
- 175,000 FT (.37 Torr) Optional

Thermal Shock Chambers and Baths

Provides Superior Performance in a Small Footprint

VTS Compact Thermal Shock Chambers consist of two separately controlled hot and cold zones with product being transferred between these zones for rapid product temperature changes. These thermal shock chambers are available with 1 or 3 cu. ft. (30 or 85 liters) of interior workspace volume, ideal for testing to find product flaws in small components/assemblies before they reach your customer.



Compact TS Chamber



Large TS Chamber



Thermal Shock Bath

Benefits

- Thermal Shock Basket
- Special design does not require compressed air
- Small footprint offers more floor space
- Built-in safeties for added protection
- Dual Purpose for greater ROI
- Fast part temperature changes rates

Features

- CSZ EZT-570S Touch Screen Controller
- Includes CSZ Connect Software
- Ethernet monitoring & control
- RS-232, RS-485 serial communications
- Door Safety Interlocks
- Emergency Stop Button
- Traveling Cable Port
- Casters & Leveling Legs

Specifications

Compact TS Chamber

- Interior Dimensions 1 cu. ft. (30L) to 11 cu ft (300L)
- Product Carrier Test Area Dimensions 15" wide x 10.5" deep x 11" high (38cm x 26.7cm x 28cm)
- Exterior Dimensions 34" wide x 62" deep x 70" high (86.4cm x 157.5cm x 177.8cm)
- Temperature Range
- Cold/Hot Chamber: -75°C to +190°C
- Hot Chamber: 50°C to +210°C
- Maximum Product Load 20 lbs. (9 kg)
- Rapid airflow through the workspace.
- Provides an average of 500 feet per minute air velocity
- Utilizes electric actuator for lift mechanism for smooth product transfer
- Travelling Cable port for powering up device under test.
- Removable panels provide easy access to all systems
- Door safety feature
- All liners are constructed from Type 304 brushed stainless steel
- The chamber exterior is constructed of formed sheet steel
- powder coat finish or textured polyurethane paint.

Liquid Thermal Shock Chambers

Immediate temperature shock for faster testing

Liquid thermal shock chambers consist of separately controlled hot and cold baths. Product is submersed in fluid and thermally stressed between the hot and cold baths, resulting in immediate product temperature changes. We use perfluorinated fluid that does not coat the product or conduct electricity for use in both the hot and cold baths to eliminate cross contamination and reduce evaporation losses.

The PARI TSB-Series units contain a vapor-tight, stainless steel construction with a vapor expansion system that dramatically reduces the evaporation and fluid loss usually associated with liquid thermal shock equipment, lowering your operating costs over the life of the system.

Freezers



Features & Benefits

- Heavy duty, built-to-last construction for long life
- Trouble-free operation saves maintenance costs
- Casters for easy mobility
- Thick foam insulation for continuous operation and reduced operating costs
- Gas spring or pneumatic easy-to-open lids
- Fast and efficient cooling with zero ozone depletion refrigerants

Industrial freezers for light duty applications

The V-Series light-duty freezer is made to handle light duty storage and are primarily used as storage freezers in areas where laboratory freezers aren't adequate. The unit provides fast and efficient cooling and easy mobility to ensure convenient use. The V-Series Chamber offers economical chilling capability for smaller users where light duty storage or laboratory freezers won't do the job.

Freezer Specifications

- Model V
- Sizes 6-11 cu.ft. (170L to 310L)
- Custom Sizes Available
- Temperature Ranges Standard: -40°C to -84°C (-40°F to -120°F)
- Liquid Nitrogen Cooling: -40°C to -184°C (-40°F to -300°F)

Industrial Ovens



Features & Benefits

- Smallest footprint with the large workspace
- Superior temperature distribution and uniformity
- Shorter processing time with fast temperature transition rates
- Innovative Parixan interface
- Supports large product loads
- Easy access panels for serviceability

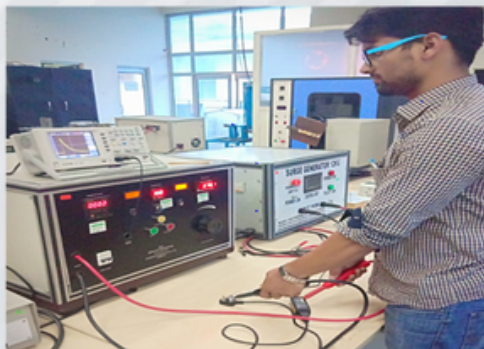
Advanced solutions for all of your heating and drying oven needs

Our complete industrial oven product portfolio consists of heating and drying ovens, curing ovens, tempering ovens, conveyor ovens, tempering ovens, vacuum ovens, sterilizing ovens, explosion resistant ovens, conveyor ovens and IR Infrared ovens provide the technology for your testing and production processes needs. With advanced user and product safety features, our ovens meet many safety and industry requirements including EN 1539, and AMS 2750E or CQI-9. We have both pre-engineered and custom solutions.

Industrial ovens are ideal for a various of applications including drying, curing, heat treatment, sterilizing and thermal testing using a variety of heat sources from electrical, gas, infrared, innovative microwave technology and more.

Environmental Simulation Test Laboratory

Our A2LA Accredited test laboratory provides environmental simulation testing to meet your testing needs from product qualification testing, overflow testing and /or third party product validation.



Capabilities include:

- Temperature & Humidity
- Vibration
- Thermal Shock
- Radiator Testing
- Altitude
- HALT/HASS
- Shock
- Salt Spray
- Cyclic Corrosion
- Drop Testing

We are an emerging center of excellence in Testing. Its two labs are currently located in Gurgaon and Indore. Facilities are Accredited to ISO/IEC 17025 by NABL and largely recognized by the Bureau of Indian Standards (BIS). BAPL is engaged in Safety Testing & Performance Testing in the fields of Electrical & Electronics, Mechanical, IT, Medical & related areas. The test results of BAPL are internationally accepted under provisions of the International Agreement signed by NABL. The labs hold a credible position with various Indian Regulators and work for total customer Satisfaction.

Recognized by BIS for conducting safety testing of notified electronic products
Accredited & Recognized Services
Senior management with rich experience of working with BIS, NABL, industry, and government departments
Trained & Qualified Test Engineers
Complimented by young leaders in the field of Marketing & Management
BIS, CRS, BEE, CE Regulator accepted Testing
World Class Test facility with Controlled Environment, Efficient Delivery & Credible Results

PRODUCT CATEGORIES

- Electrical
- Electronics
- IT Product)
- Telecom
- Lighting
- Cells and Batteries
- Medical Electronics
- Machinery
- Solar and Energy Sectors
- UPS & Inverters
- Domestic Household appliance

MAJOR TEST FACILITIES

- Photometry
- EMI/EMC
- Environmental test
- Vibration Test
- Ingress Protection test (IP)
(IP 1X to IP6X and IPX1 to IPX8)
- Climatic Test
- ESD Test
- C Type Goniophotometer
- Integrating Sphere
- Life Test
- Endurance Test
- Surge test
- Impulse Test
- Salt Spray Test
- Climatic Test (Cold/Hot/Humidity)

TEST CAPABILITIES

- Compulsory Registration Scheme
- ISI Mark
- Energy Efficiency (BEE)
- Telecom (TEC)
- MNRE
- CII Safety & EMC Mark
- CDSCO

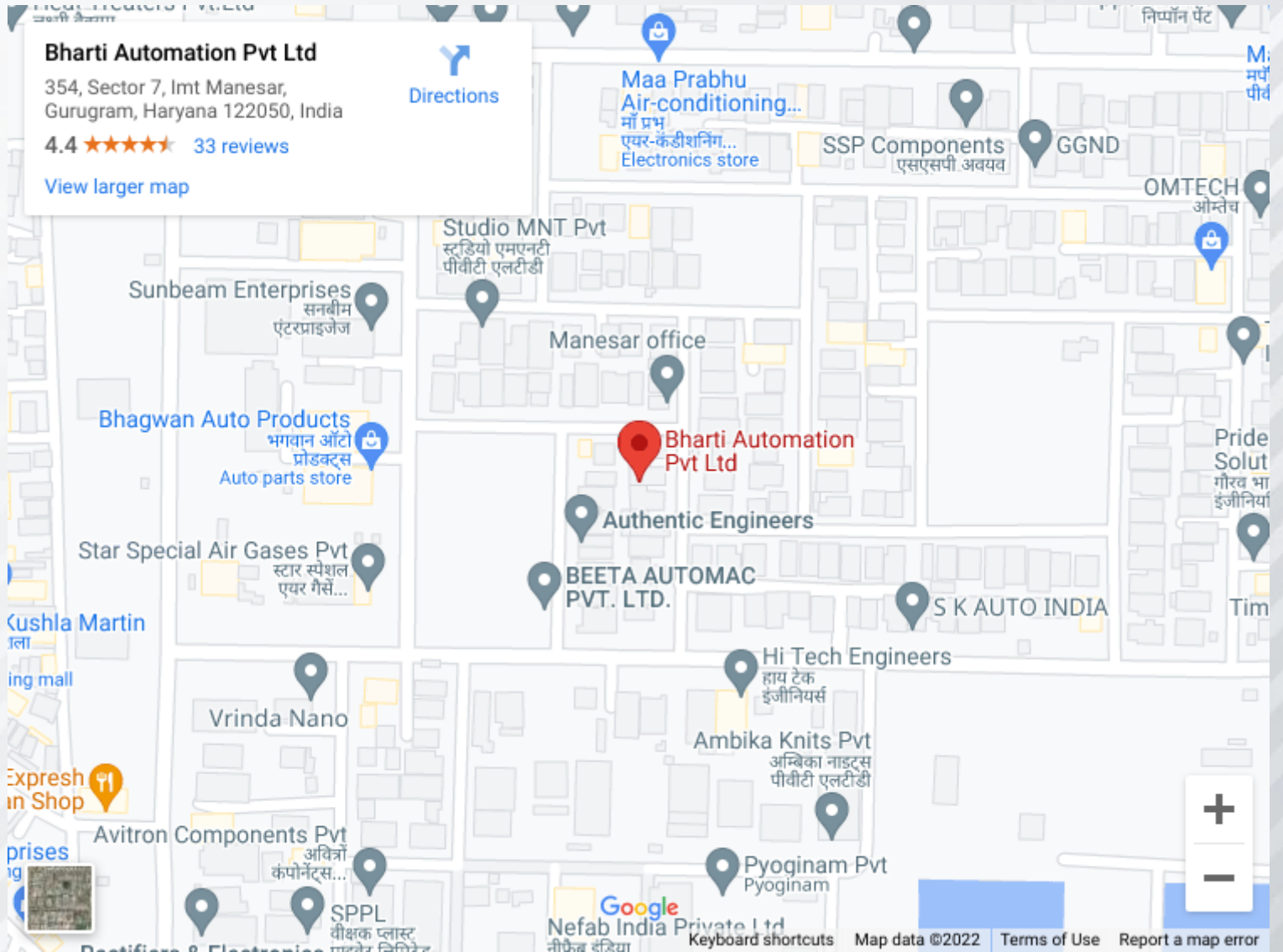
In-house Calibration Laboratory



Calibration Laboratory

- Proud to be the first calibration laboratory to get NABL accreditation for onsite calibration.
- The Calibration Laboratory is an independent organization and is well equipped and well staffed and functions in accordance with ISO:IEC:17025 Standard.
- We are Accredited By National Accreditation Board for Testing and Calibration Laboratories (NABL) in Thermal, Mechanical and Electro-technical fields as per scope of accreditation displayed.
- We have been providing Calibration and certification services since 1990 to almost each sector of the industry.
 - Providing Repairs for Existing Ovens and Chambers.

How to Reach us



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