



## DENTAL FURNACES



# About Us

With over two decades of expertise, VBCC High Temperature Instruments Pvt. Ltd., previously known as VB Ceramic Consultants, is India's leading manufacturer of Furnaces, Analytical Instruments, Laboratory Equipment, and Material Processing Equipment. Established in 2002, our unwavering commitment to excellence has earned the trust of diverse clientele, including prestigious universities, research organizations, and thriving industries.

At VBCC, our dedicated team delivers comprehensive solutions across the industry spectrum, offering superior products and essential technical expertise through tailored turnkey solutions. With over 22 years of experience, we have installed more than 15,000 products and serve over 500 esteemed clients.

## Mission

- Deliver innovative and High-Quality Furnaces, Analytical Instruments, Laboratory Equipment, and Material Processing Equipment.
- Exceed customer expectations through excellence in engineering and unparalleled technical expertise.
- Provide dedicated customer service and tailored turnkey solutions.
- Support the diverse needs of clients, fostering advancements in research, industry, and education.

## Vision

- Be the global leader in high-temperature instrument manufacturing.
- Maintain an unwavering commitment to quality, innovation, and customer satisfaction.
- Continuously expand technological capabilities and product offerings, setting new industry standards.
- Contribute to the success of clients and the advancement of science and industry worldwide through sustainable practices and continuous improvement.





## The “Tailor Made” Promise

At VBCC, we understand that each client has unique requirements that may extend beyond our standardized product offerings. Our "Tailor-Made" promise ensures that we customize our designs to meet your specific needs. Whether it involves modifying existing products or creating entirely new solutions, our team of experts works closely with you to understand your challenges and deliver equipment that perfectly aligns with your operational goals. With a focus on flexibility and innovation, we provide bespoke solutions that enhance efficiency, precision, and performance, ensuring your complete satisfaction and success.

## Denkiro Dental

Denkiro Dental is a specialized sub-brand under VBCC, focused on providing high-precision dental furnaces for the dental industry. Tailored to meet the exacting standards of dental laboratories, Denkiro Dental furnaces offer exceptional temperature control, reliability, and ease of use. Designed for processes such as ceramic firing, sintering, and glazing, these furnaces ensure consistent results while enhancing workflow efficiency. With advanced technology and a commitment to quality, Denkiro Dental supports dental professionals in achieving the best outcomes in prosthetics and restorative treatments.

## Our Team

### Welcome to VBCC High Temperature Instruments!

Our leadership, CEO Naveen and Dr. V. Viswabaskaran, brings over 32 years of combined expertise in the field, expertly blending experience with cutting-edge innovation. Our skilled team, including specialists in Ceramic, Mechanical, and Electrical Engineering, creatively tackles challenges, ensuring excellence in high-temperature equipment. We are committed to innovation, strong client relationships, and customer satisfaction. Join us as we advance the technology of high-temperature instruments and innovate to make a significant impact.



**NAVEEN VISWABASKARAN**  
CEO & Managing Director



**DR.V.VISWABASKARAN**  
CTO & Director



# Table of Content

1. Vacuum Sintering Furnace

01

2. Vacuum Pressing Furnace

01

3. Zirconia Sintering Furnace

02

4. Burnout Furnace

03



# Vacuum Sintering Furnace

(VS 12/05)



## TECHNICAL FUNCTION

**Optional Vacuum Integration:** Compatible with vacuum systems for enhanced processing versatility.

**Adjustable Vacuum Settings:** Includes pre-vacuum and main vacuum configurations for precise control.

**User-Friendly Touch-Screen HMI:** Features an intuitive interface that allows for the storage and selection of multiple temperature profiles.

**Safety-Enhanced Design:** Equipped with input and output fuses to ensure reliable and safe thermal processing.

**Premium Insulation:** Utilizes high-quality imported insulation materials for improved energy efficiency.

**Adjustable Lift Mechanism:** Includes a lift monitor with variable speed and customizable lift positions for pre-drying and gradual cooling.

**Advanced Heating Elements:** Incorporates top-grade APM Kanthal heating elements for consistent performance.

**Efficient Cooling System:** Double-wall stainless steel casing with integrated fans for rapid cooling.

**Durable Construction:** Built with robust stainless steel for long-lasting durability and resilience.

**Advanced Furnace Design:** Our double-wall stainless steel furnace ensures superior safety by reducing exterior temperatures, enhances energy efficiency through improved thermal retention, and offers unmatched durability and aesthetic appeal, making it an ideal choice for any setting.

Length	Width	Height	Weight	Casing	Chamber Diameter	Chamber Height	Firing Temperature	Power Supply	Power Consumption	Display
280 mm	300 mm	350 mm	20 Kg	Stainless Steel	100 mm	60 mm	1200 C	230 - Volt Single Phase	1.5 KW	7 Inch

# Vacuum Pressing Furnace

(VP 12/05)



## TECHNICAL FUNCTION

**Optional Vacuum Integration:** Compatible with vacuum systems for enhanced processing versatility.

**Adjustable Vacuum Settings:** Includes pre-vacuum and main vacuum configurations for precise control.

**User-Friendly Touch-Screen HMI:** Features an intuitive interface that allows for the storage and selection of multiple temperature profiles.

**Safety-Enhanced Design:** Equipped with input and output fuses to ensure reliable and safe thermal processing.

**Premium Insulation:** Utilizes high-quality imported insulation materials for improved energy efficiency.

**Adjustable Lift Mechanism:** Includes a lift monitor with variable speed and customizable lift positions for pre-drying and gradual cooling.

**Advanced Heating Elements:** Incorporates top-grade APM Kanthal heating elements for consistent performance.

**Efficient Cooling System:** Double-wall stainless steel casing with integrated fans for rapid cooling.

**Durable Construction:** Built with robust stainless steel for long-lasting durability and resilience.

**Advanced Furnace Design:** Our double-wall stainless steel furnace ensures superior safety by reducing exterior temperatures, enhances energy efficiency through improved thermal retention, and offers unmatched durability and aesthetic appeal, making it an ideal choice for any setting.

Length	Width	Height	Weight	Casing	Chamber Diameter	Chamber Height	Firing Temperature	Power Supply	Power Consumption	Display
280 mm	300 mm	600 mm	20 Kg	Stainless Steel	100 mm	60 mm	1200 C	230 - Volt Single Phase	1.5 KW	7 Inch

# Zirconia Sintering Furnace

(ZS 16/05)



## TECHNICAL FUNCTION

**Advanced Touch-Screen HMI:** Features an intuitive, user-friendly interface with the capability to store and manage multiple temperature profiles for enhanced operational efficiency.

**Integrated Safety Fuses:** Equipped with both input and output fuses to ensure safe and reliable performance throughout thermal processing.

**Premium Insulation:** Utilizes high-grade imported insulation materials for superior thermal efficiency and energy conservation.

**Precision Lift Mechanism:** Includes a lift monitor with adjustable speed control, allowing for precise lift positioning.  
**Customizable Lift Positions:** Offers flexible lift positions for optimal pre-drying and controlled cooling processes.

**High-Performance Heating Elements:** Incorporates premium Molybdenum disilicide heating elements, renowned for their durability and high-temperature stability.

**Enhanced Cooling System:** Features a double-wall stainless steel construction with integrated fans between the casings for rapid and efficient cooling.

**Robust Stainless Steel Build:** Constructed with high-quality stainless steel to ensure long-term durability and resistance to wear.

**Advanced Furnace Design:** Our double-wall stainless steel furnace ensures superior safety by reducing exterior temperatures, enhances energy efficiency through improved thermal retention, and offers unmatched durability and aesthetic appeal, making it an ideal choice for any setting.

Length	Width	Height	Weight	Casing	Diameter of firing chamber	Height of firing chamber	Firing Temperature	Power Supply	Power Consumption	Display
500 mm	500 mm	400 mm	30 kg	Stainless Steel	100 mm	80 mm	1600 C	230 - Volt AC Single Phase	2 KW	7 Inch



# Burnout Furnace

(DBF 12/5)



## TECHNICAL FUNCTION

**Intuitive Touch-Screen HMI:** Equipped with a user-friendly touch-screen interface that stores multiple temperature profiles for streamlined operation.

**Enhanced Safety Features:** Includes input and output fuses to ensure safe and reliable performance during thermal processing.

**Premium Insulation:** Utilizes high-quality imported insulation materials for superior thermal efficiency and energy conservation.

**High-Quality Heating Elements:** Incorporates top-grade APM Kanthal heating elements for consistent and reliable high-temperature performance.

**Efficient Cooling System:** Features a double-wall stainless steel casing with integrated fans to facilitate rapid and effective cooling.

**Durable Construction:** Constructed from robust stainless steel to ensure long-term durability and reliability.

**User-Friendly Flap Mechanism:** Includes a convenient flap opening system for ease of access and operation.

**Optional Mobility:** Available with optional wheels for enhanced mobility and ease of relocation.

**Advanced Furnace Design:** Our double-wall stainless steel furnace ensures superior safety by reducing exterior temperatures, enhances energy efficiency through improved thermal retention, and offers unmatched durability and aesthetic appeal, making it an ideal choice for any setting.

Length	Width	Height	Weight	Casing	Chamber Length	Chamber width	Chamber height	Firing temperature	Power Supply	Power Consumption	Display
500 mm	500 mm	600 mm	50 kg	Stainless Steel	150 mm	150 mm	150 mm	1200 C	230 - Volt Single Phase	2 kW	7 Inch



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