

**VELIYATH**  
SCIENTIFIC INDUSTRIES



**delivering  
the science  
of thermostatics.**

**INNOVATIVELY**

*industrial & laboratory equipments*



Established in 1990, Veliyath Scientific Industries manufactures industrial and laboratory thermostatic equipments. Stability chamber, Incubator, Lab hot air oven, Vacuum oven, muffle furnace, Industrial Oven and Tray dryers are few of our products.

We have a dedicated sheet metal engineering facility as well as a dedicated electrical assembly and paint shop. Our powder coating plant is equipped with advanced, eco-friendly systems. 100% of our production process is in house which helps us monitor quality closely and reduce lead time to our customers.

We strongly believe quality is achieved through smart engineering and an industrialist attitude and not by cost addition. The company today stands on over 30 years of accumulated wisdom and over two decade of engineering and development. From mechanical, thermostat controlled electric oven to auto tuned micro controller operated system, it is an ever evolving journey.

**Industrial oven** design is unique to different processes. We understand this need and have a team of enthusiast professionals that manage the operations of custom built industrial ovens. They are at disposal to partner with you and design solutions for your advanced processes.

The biggest strength of the company is its committed work force. Since its inception the company has built a reputre for quality work. We value you and is our prime motive to provide quality product that surpass your expectation.

Located in Gujarat, one of the most enviable Industrial state in India, our manufacturing facility is spread over 25,000 sq. ft of land with a built-up area of 14,000 sq. ft. Situated in the center of a dense industrial circle, Silvassa, Daman and Vapi and near Mumbai, we are rich in resources and use it wisely to provide you prompt and quality service.

Dedicated  
sheet metal  
engineering &  
manufacturing  
facility.

Dedicated  
electrical  
assembly shop.  
& Powder  
coating plant.

### The FTP Advantage:

Very **F**lexible with  
Custom designs.

100% in-house process-  
Shorter lead **T**ime.

Lower manufacturing  
cost hence economically  
**P**riced.



- I. LAB OVEN
- II. PRECISION LAB OVEN
- III. HIGH TEMPERATURE OVEN
- IV. HEAVY DUTY OVEN
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## LABORATORY OVEN (Natural Convection)

“VS101” series are lab hot air oven with Natural convection heating. It incorporates a heating system with fine air stream creating uniform temperature due to natural convection within the chamber. The hot air with fumes and moisture flows out through a controlled ventilation system. Ideally used for pre heating, drying, sterilizing, backing, aging, etc.

### Technical Specification

*Temperature range* : 5°C above ambient to 250°C

*Temp. Accuracy* : ± 1°C

*Supply* : 240V, 50 Hz

*Heating control* : Auto tuned temperature microcontroller with PID algorithm.

*Safety thermostat* : Stand by Thermostat cuts off heater if temperature over-shoots

*Heating element* : Spiral type heating coils made of Kanthal / Nichrome wire.

### Construction

*Interior* : Made of mild steel with heat resistant aluminium paint or Stainless steel with mirror polish.

*Exterior* : Made of thick gauge mild steel sheet, finished with epoxy powder coating.

*Insulation* : Fibre glass wool.

### Models Standard (S) or GMP (G)

Models	Wattage (KW)	Internal dim. H.W.D. (cm)	Overall Dim. H.W.D (cm)	Shelves Nos.
VS 101 A	1.30	35x35x35	90x55x55	2
VS 101 B	1.75	45x45x45	100x65x65	3
VS 101 C	2.00	60x45x45	115x65x65	4
VS 101 D	3.00	60x60x60	115x80x80	4

# LABORATORY OVEN (Forced Air Draft)

“VS102” series are lab hot air oven with Forced air convection heating. It incorporates a heating system with motorised blower unit at bottom side of oven. The blower blows fresh air through a heating platform and enables hot air draft in the working chamber creating uniform temperature through out the chamber. The excess hot air with fumes and moisture flows out through an adjustable ventilation. Forced air draft system is ideal for wet and moist materials. Used for pre heating, drying, sterilizing, baking, aging, etc.



*Temperature range* : 5°C above ambient to 250°C

*Temp. Accuracy* : ± 1°C

*Supply* : 240V, 50 Hz

*Heating control* : Auto tuned temperature microcontroller with PID algorithm.

*Safety thermostat* : Stand by Thermostat cuts off heater if temperature over-shoots

*Heating element* : Spiral type heating coils made of Kanthal / Nichrome wire.

*Air flow* : Forced air draft by means of motorised blower

*Motor* : 1/12 HP, TEFC, F – Class Insulation.

## Construction

*Interior* : Made of mild steel with heat resistant aluminium paint or Stainless steel with mirror polish

*Exterior* : Made of thick gauge mild steel sheet, finished with epoxy powder coating.

*Insulation* : Fibre glass wool



Models	Capacity Litres	Internal dim. H.W.D. (cm)	External dim. H.W.D.(cm)	Shelves Nos.
VS 102 A	1.75	35x35x35	110x55x55	2
VS 102 B	2.25	45x45x45	120x65x65	3
VS 102 C	2.50	60x45x45	135x65x65	4
VS 102 D	3.00	60x60x60	135x80x80	4



## PRECISION LAB OVEN (Forced Air Circulation)

“VS103” series are precision lab oven with Forced air circulation. It incorporates a heating system with motorised blower unit at top side of oven. The blower sucks air from working chamber and blows through the heater zone, enabling hot air re-circulation and creating uniform temperature through out the chamber. The excess hot air with fumes and moisture flows out through an adjustable ventilation. Forced air re-circulation system gives better temperature uniformity in the chamber. Used for pre heating, drying, sterilizing, baking, aging, etc.

### Technical Specification

*Temperature range :* 5°C above ambient to 250°C

*Temp. Accuracy :* ± 0.5°C

*Temp. Uniformity :* ± 1°C

*Heating control :* Auto tuned temperature microcontroller with PID algorithm.

*Safety thermostat :* Stand by Thermostat cuts off heater if temperature over-shoots

*Heating element :* Tubular air heater fit on either sides of working chamber

*Air flow :* Forced air re circulation by means of motorised blower

*Motor :* 1/12 HP, TEFC, F – Class Insulation.

### Construction

*Interior :* Made of mild steel with heat resistant aluminium paint or Stainless steel with mirror polish

*Exterior :* Made of thick gauge mild steel sheet, finished with epoxy powder coating.

*Insulation :* Fibre glass wool

### Models Standard (S) or GMP (G)

Models	Wattage (KW)	Internal dim. H.W.D. (cm)	External dim. H.W.D.(cm)	Shelves Nos.
VS 103 A	1.5	35x35x35	85x66x66	2
VS 103 B	2.0	45x45x45	95x76x76	3
VS 103 C	2.50	60x45x45	110x76x76	4
VS 103 D	3.00	60x60x60	115x90x90	4

# HIGH TEMPERATURE Oven (400°C) (Forced Air Draft)

“VS112” series are high temperature lab oven with Forced air convection heating. Its heating system is equipped with motorised blower unit at bottom side and a heater platform made out of spiral type heating coils of nichrome wire. The blower blows fresh air through the heating platform and enables hot air draft in the working chamber creating uniform temperature through out the chamber. The excess hot air with fumes and moisture flows out through an adjustable ventilation. High temperature forced air draft system is ideal for wet and moist materials. Used for pre heating, drying, sterilizing, baking, aging, etc.



## Technical Specification

*Temperature range* : 5°C above ambient to 400°C

*Temp. Accuracy* :  $\pm 1^\circ\text{C}$

*Temp. Uniformity* :  $\pm 2^\circ\text{C}$

*Supply* : 240V, 50 Hz

*Heating control* : Auto tuned temperature microcontroller with PID algorithm.

*Heating element* : Spiral type heating coils made of Kanthal / Nichrome wire.

*Air flow* : Forced air draft by means of motorised blower

*Motor* : 1/12 HP, TEFC, F – Class Insulation.

## Construction

*Interior* : Made of mild steel with heat resistant aluminium paint or Stainless steel with mirror polish

*Exterior* : Made of thick gauge mild steel sheet, finished with epoxy powder coating.

*Insulation* : Fibre glass wool

## Models Standard (S) or GMP (G)

Models	Wattage (KW)	Internal dim. H.W.D. (cm)	External dim. H.W.D.(cm)	Shelves Nos.
VS 112 A	2.50	35x35x35	87x84x67	2
VS 112 B	3.00	45x45x45	97x94x77	3
VS 112 C	4.00	60x45x45	112x94x77	4
VS 112 D	5.00	60x60x60	112x109x92	4



## HIGH TEMPERATURE OVEN (400°C) (Forced Air Circulation)

Model “VS113” series are high temperature lab oven with air re-circulation. The blower is positioned above the top baffle wall of working chamber and is mounted on a motorised shaft. The shaft and blower is driven by a motor through a ‘V’ belt drive and is supported on heavy duty pedestal bearing. This mechanism protects the motor from heat, makes it durable and runs smoothly. Specially designed tubular air heaters are fit on either sides of working chamber. Its terminals are extended out side the oven body for better durability. The blower sucks in air from the top of the chamber and blows to the bottom of the chamber through the heater zone, re-circulating air and creating uniform temperature through out the chamber. Used for pre heating, drying, sterilizing, baking, aging, etc.

### Technical Specification

*Temperature range* : 5°C above ambient to 400°C

*Temp. Accuracy* : ±0.5°C

*Temp. Uniformity* : ± 1°C

*Supply* : 415V.AC. 50 Hz

*Heating control* : Auto tuned temperature microcontroller with PID algorithm.

*Heating element* : Tubular air heater fit on either sides of working chamber

*Air flow* : Forced air re circulation by means of motorised blower

*Motor* : 1/4 HP 3 Phase.

### Models Standard (S) or GMP (G)

Models	Wattage (KW)	Internal dim. H.W.D. (cm)	Overall Dim. H.W.D (cm)	Shelves Nos.
VS 103 A	2.50	35x35x35	105x96x74	2
VS 103 B	3.00	45x45x45	115x106x84	3
VS 103 C	4.00	60x45x45	130x106x84	4
VS 103 D	5.00	60x60x60	130x121x100	4

### Construction

*Interior* : Made of mild steel with heat resistant aluminium paint or Stainless steel with mirror polish

*Exterior* : Made of thick gauge mild steel sheet, finished with epoxy powder coating.

*Insulation* : Fibre glass wool

# HEAVY DUTY OVEN (Forced Air Draft)

Model “VS122” series are Industrial cum Laboratory oven with Forced air convection heating. It incorporates a heating system with motorised blower unit at bottom side of oven. The blower blows fresh air through a heating platform and enables hot air draft in the working chamber creating uniform temperature through out the chamber. The excess hot air with fumes and moisture flows out through an adjustable ventilation. Forced air draft system is ideal for wet and moist materials. Used for pre heating, drying, sterilizing, baking, aging, etc.



## Technical Specification

*Temperature range* : 5°C above ambient to 250°C

*Temp. Accuracy* : ± 1°C

*Temp. Uniformity* : ± 2°C

*Heating control* : Auto tuned temperature microcontroller with PID algorithm.

*Safety thermostat* : Stand by Thermostat cuts off heater if temperature over-shoots

*Heating element* : Spiral type heater platform made of best quality kanthal wire.

*Air flow* : Forced air draft by means of a motorised blower.

*Motor* : 1/12 HP, TEFC, F-Class insulation.

## Construction

*Interior* : Made of mild steel with heat resistant aluminium paint or Stainless steel with mirror polish

*Exterior* : Made of thick gauge mild steel sheet, finished with epoxy powder coating.

*Insulation* : Fibre glass wool

## Models Standard (S) or GMP (G)

Models	Wattage (KW)	Internal dim. H.W.D. (cm)	External dim. H.W.D.(cm)	Shelves Nos.
VS 122 A	6.00	90x60x60	185x112x85	5



## HEAVY DUTY OVEN (Forced Air Circulation)

Model “VS123” series are Industrial cum Laboratory oven with Forced air circulation. It incorporates a heating system with motorised blower unit at top side of oven. The blower above the top baffle wall enables re-circulation of air in working chamber. The blower sucks air from working chamber and blows through the heater zone, enabling hot air re-circulation, creating uniform temperature through out the chamber. The excess hot air with fumes and moisture flows out through an adjustable ventilation. Forced air re circulation system gives better temperature uniformity in the chamber. Used for pre heating, drying, sterilizing, baking, aging, etc.

### Technical Specification

*Temperature range :* 5°C above ambient to 250°C

*Temp. Accuracy :* ± 0.5°C

*Temp. Uniformity :* ± 1°C

*Heating control :* Auto tuned temperature microcontroller with PID algorithm.

*Safety thermostat :* Stand by Thermostat cuts off heater if temperature over-shoots

*Heating element :* Tubular air heater fit on either sides of working chamber

*Air flow :* Forced air re circulation by means of motorised blower

*Motor :* 1/12 HP, TEFC, F – Class Insulation.

Models  
Standard (S)  
or GMP (G)

Models	Wattage (KW)	Internal dim. H.W.D. (cm)	External dim. H.W.D.(cm)	Shelves Nos.
VS 123 A	6.0	90x60x60	173x110x92	5

### Construction

*Interior :* Made of mild steel with heat resistant aluminium paint or Stainless steel with mirror polish

*Exterior :* Made of thick gauge mild steel sheet, finished with epoxy powder coating.

*Insulation :* Fibre glass wool

# INCUBATOR (BACTERIOLOGICAL)

Incubators are available in three models.

- 1) VS 131 (Natural convection).
- 2) VS132 (Forced air draft )
- 3) VS133 (Forced Air circulation)

These series represent modern laboratory Incubators. Precise and gentle temperature control with uniform temperature within the cell makes it best suited for laboratory incubation

## Technical Specification

*Temperature range* : 5°C above ambient to 60°C

*Temp. Accuracy* : ± 0.5°C

*Temp. Uniformity* : ± 1°C

*Heating control* : Auto tuned temperature microcontroller with PID algorithm.

*Safety thermostat* : Stand by Thermostat cuts off heater if temperature over-shoots.

*Heating element* : Spiral type heating coils made of Kanthal wire.

*Air flow* : VS131 – Natural convection

VS132 – Motorised blower unit of 1/12 HP. fit at bottom side.

VS133 – Motorised blower unit of 1/12 HP. fit at top side.

*Glass door* : Full view glass door is provided

## Construction

*Interior* : Made of mild steel with heat resistant aluminium paint or Stainless steel with mirror polish

*Exterior* : Made of thick gauge mild steel sheet, finished with epoxy powder coating.

*Insulation* : Fibre glass wool.



## Models Standard (S) or GMP (G)

Models	Heater Wattage			Internal dim.	External dim.	Shelves Nos.
	VS131	VS132	VS133	H.W.D. (cm)	H.W.D.(cm)	
..	VS131	VS132	VS133	...	..	..
A	115 W	125 W	115 W	35x35x35	90x55x55	2
B	250 W	275 W	250 W	45x45x45	100x65x65	3
C	500 W	550 W	500 W	60x45x45	115x65x65	4
D	750 W	800 W	750 W	60x60x60	115x80x80	4
E	1000 W	1100 W	1000 W	90x60x60	173x110x92	5

## Standard Model Rectangular



Models  
Standard (S)  
or GMP (G)

Models	Wattage (KW)	Internal dim. H.W.D. (cm)	Overall Dim. H.W.D (cm)	Shelves Nos.
VS 141 A	1.30	35x35x35	56x75x56	2
VS 141 B	1.75	45x45x45	66x85x66	3
VS 141 C	3.00	60x60x60	81x100x81	4

## Technical Specification

# VACUUM OVEN (RADIATIVE HEATING)

VS 141 and VS142 Series are vacuum ovens with rectangular and round shaped working chamber respectively, made of stainless steel 304 grade material. It has a rugged construction with strong bracing and is designed to withstand a vacuum pressure of 760 mm. Hg. At 200°C. Toughened glass door fixed on rigid frame gives a clear view of the chamber. It is sealed with silicon rubber gasket. A special heating pad is wrapped around the chamber which transfers heat to the material by radiation. Widely used in various applications such as moisture determination, aging tests, chemical resistance studies, drying of paper, rubber and textiles, desiccating, dry sterilization, vacuum storage and electronic process control.

*Temperature range* : 5°C above ambient to 200°C

*Temp. Accuracy* : ± 2°C

*Heating control* : Auto tuned temperature microcontroller with PID algorithm.

*Safety thermostat* : Stand by Thermostat cuts off heater if temperature over-shoots

*Heating element* : Made of Kanthal wire wound around the vacuum chamber

*Vacuum capacity* : 760 mm Hg. and maintains a maximum leak of 1mm Hg./24Hr.

## Standard Model Circular



Models  
Standard (S)  
or GMP (G)

Models	Wattage (KW)	Internal dim. (cm)	Overall Dim. H.W.D (cm)	Shelves Nos.
VS 142 A	0.60	dia 25x30	45x58x48	2

## Construction

*Interior* : Made of stainless steel with Mirror polish

*Exterior* : Made of thick gauge mild steel sheet and epoxy powder coated

*Insulation* : Glass wool

# HUMIDITY OVEN

VS501 Series are humidity ovens with electronically controlled evaporative humidifier and temperature micro controller. With advanced RH sensors it gives precise humid conditions. Steam injection system is incorporated with stainless steel boiler and reservoir. It has a clear view glass inner door. Motorised blower recirculates air which ensures uniform temperature and humidity inside the chamber. Poly-Urethane is used for efficient insulation. Widely used to test performance of samples in humid atmosphere.

## Technical Specification

*Standard model* : Interior SS 304 with mirror polish. Exterior MS. With epoxy coating.

*GMP model* : Interior SS 316 with mirror polish. Exterior SS 304 with matt finish.

*Temp. Range* : 5°C above ambient to 60°C

*Temp. Accuracy* : ± 0.5°C

*Temp. control* : Auto tuned temperature microcontroller with PID algorithm.

*Humidity Range* : 5% above ambient to 90%

*Humidity Accuracy* : ± 3% RH

*Humidity control* : Advanced RH micro controller with PID algorithm and %RH display.

*Heating* : "U" shaped SS tubular air heater.

*Air Flow* : Forced air re-circulation by means of a motorised blower.

*Motor* : 1/12 HP, TEFC, F - Class Insulation.

*Insulation* : PUF (Poly Urethane Foam)

*Safety features* : Stand by Thermostat cuts off heater if temperature over-shoots



## Models Standard (S) or GMP (G)

Models	Capacity Litres	Internal dim. H.W.D. (cm)	External dim. H.W.D.(cm)	Shelves Nos.
VS 501 S/G	100	50x50x40	142x66x72	2
VS 502 S/G	170	70x60x40	162x76x72	3
VS 503 S/G	225	75x60x50	167x76x82	3
VS 504 S/G	325	90x60x60	182x76x87	4



## STABILITY CHAMBER

VS511 Series are Stability Chambers designed and manufactured in accordance with ICH guidelines for stability testing. They have a superior accuracy and uniformity of temperature and humidity. Used for Conditioning of samples, Accelerated shelf life studies, Stability testing for drugs and pharma industries, Climate conditioning, etc. It works on CFC free refrigerant and hermetically sealed compressor. Digitally controlled evaporative humidifier, RH Microcontroller with PID algorithm and advanced RH sensor gives precise humid conditions inside the chamber. Steam injection system has a stainless steel boiler and reservoir. It has a clear view glass inner door. Motorised blower develops air recirculation system which ensures uniform temperature and humidity inside the chamber. Poly-Urethane is used for efficient insulation.

### Technical Specification

*Standard model* : Interior SS 304 with mirror polish. Exterior MS. With epoxy coating.

*GMP model* : Interior SS 316 with mirror polish. Exterior SS 304 with matt finish.

*Temp. Range / Accuracy* : 20°C to 60°C /  $\pm 0.2^\circ\text{C}$

*Temp. Uniformity* :  $\pm 2^\circ\text{C}$

*Humidity Range / Accuracy* : 40% RH to 95% RH /  $\pm 2\% \text{RH}$

*Humidity Uniformity* :  $\pm 3\% \text{RH}$

*Temp. control* : Auto tuned temperature microcontroller with PID algorithm.

*Humidity control* : Advanced RH micro controller with PID algorithm and %RH display.

*Heating* : "U" shaped SS tubular air heater.

*Refrigerant* : R134a; CFC free refrigerant.

*Air Flow* : Forced air re-circulation by means of a motorised blower.

*Motor* : 1/12 HP, TEFC, F – Class Insulation.

*Insulation* : PUF (Poly Urethane Foam)

### Models Standard (S) or GMP (G)

Models	Capacity, Litres	Internal dim. H.W.D. (cm)	External dim. H.W.D. (cm)	Shelves Nos.
VS 511 S/G	100	50x50x40	142x66x72	2
VS 512 S/G	170	70x60x40	162x76x72	3
VS 513 S/G	225	75x60x50	167x76x82	3
VS 514 S/G	325	90x60x60	182x76x87	4
VS 515 S/G	400	110x60x60	202x76x87	5
VS 516 S/G	800	125x80x80	217x96x107	6
VS 517 S/G	1000	157x80x80	249x96x107	7

# BOD INCUBATOR

VS521 Series are BOD incubators designed to suit various tests and storage needs in laboratories at temperatures below ambient. Used for Biological Oxygen Demand tests, Storage of sensitive cultures, vaccines, culture of bacteria, microorganism, Serum incubation, seed germination etc. It works on CFC free refrigerant and hermetically sealed compressor. Auto tuneable microcontroller with PID logic gives accurate heating and cooling conditions inside the chamber. It has a clear view glass inner door. Motorised blower develops air re-circulation system which ensures uniform temperature inside the chamber. Poly-Urethane is used for efficient insulation.



## Technical Specification

*Standard model* : Interior SS 304 with mirror polish, Exterior MS with epoxy coating.

*GMP model* : Interior SS 316 with mirror polish, Exterior SS 304 with matt finish.

*Temp. Range / Accuracy* : 20°C to 60°C /  $\pm 0.2^\circ\text{C}$

*Temp. Uniformity* :  $\pm 2^\circ\text{C}$

*Temp. control* : Auto tuned temperature microcontroller with PID algorithm.

*Heating* : "U" shaped SS tubular air heater.

*Refrigerant* : R134a; CFC free refrigerant.

*Air Flow* : Forced air re-circulation by means of a motorised blower.

*Motor* : 1/12 HP, TEFC, F – Class Insulation.

*Insulation* : PUF (Poly Urethane Foam)

*Safety features* : Stand by Thermostat cuts off heater if temperature over-shoots.  
Low water alarm for humidifier.  
Time delay for compressor safety.

## Models Standard (S) or GMP (G)

Models	Capacity Litres	Internal dim. H.W.D. (cm)	External dim. H.W.D.(cm)	Shelves Nos.
VS 521 S/G	100	50x50x40	142x66x72	2
VS 522 S/G	170	70x60x40	162x76x72	3
VS 523 S/G	225	75x60x50	167x76x82	3
VS 524 S/G	325	90x60x60	182x76x87	4



## WATER BATHS (SEROLOGICAL)

VS 301 Series are Serological water baths with high grade stainless steel contact surface, double wall construction and glass wool insulation. PID microcontroller for accurate temperature control.

### Technical Specification

Temperature range :  
Ambient to 95°C. Accuracy:  $\pm 0.5^\circ\text{C}$

### Models Standard (S) or GMP (G)

Models	Wattage (KW)	Internal dim. H.W.D. (cm)	Optional accessory
VS 301 A	500 W	25x13x13	Pyramidal lid Test tube racks
VS 301 B	750 W	38x25x13	
VS 301 C	1000 W	38x30x13	



## WATER BATHS (UNIVERSAL)

VS 302 Series are rectangular shaped water baths, supplied with lid and concentric rings. It has stainless steel contact surfaces with Double wall construction and glass wool insulation . PID microcontroller for accurate temperature control.

Temperature range :  
Ambient to 95°C. Accuracy:  $\pm 0.5^\circ\text{C}$

Models	Wattage (KW)	Internal dim. H.W.D. (cm)	Opening on Lid
VS302 B	1000 W	30x25x13	Dia. 7.5 cm. x 4 nos. Dia. 12.5 cm. x 1 nos.
VS302 B	1000 W	38x25x13	Dia. 7.5 cm. x 6 nos.
VS302 C	1500 W	40x30x13	Dia. 7.5 cm. x 12 nos.



## SHAKER BATHS

VS 311 Series are water baths with robust shaking mechanism. The mechanism has a variable speed ranging from 40 to 120RPM. Contact surfaces are of stainless steel and exterior body is of MS, finished with epoxy powder coating. Double wall construction with glass wool insulation. PID microcontroller for accurate temperature control.

Temperature range :  
Ambient to 95°C. Accuracy:  $\pm 0.5^\circ\text{C}$

Models	Wattage (KW)	Platform Capacity	Plat form Size (cm)
VS 311 A	1000 W	9 Flasks of 100ml.	20x20
VS 311 B	1500 W	9 Flasks of 250ml.	30x30

# MUFFLE FURNACE (RADIATIVE HEATING)

VS 201 and VS 202 series are muffle furnace designed to suit Laboratory and Industrial use. It has a muffle type ceramic heating chamber. It is extensively used for soil and aggregate testing, cement testing, ashing organic and inorganic sample, gravimetric analysis, loss on ignition test, etc. It is also used in industries for heat treatment, annealing, curing, etc at high temperature.



*Technical Specification*

Available in Two Models.

**VS201 Maximum Working Temperature: 930°C**

**VS202 Maximum Working Temperature: 1150°C**

Heating element is made of best quality Nichrome/ Kanthal wire.

Temperature controlled by Micro controller, running a PID algorithm with an accuracy of  $\pm 1^\circ\text{C}$

Energy regulator switch is provided to control temperature raise, giving better durability to heating elements.

Ceramic wool, max temp. of 1200°C and 1400°C respectively are used as insulation material.

External body is made out of mild steel plates and painted with corrosion resistant silver grey hammer tone enamel paint.

*Models Standard (S) or GMP (G)*

## Standard Models (930°C)

Models	Wattage (KW)	Internal dim. H.W.D. (cm)	External dim. H.W.D.(cm)
VS 201 A	1.60	10x10x23	63x42x61
VS 201 B	3.3	15x15x30	68x47x68
VS 201 C	4.0	20x20x30	73x52x68
VS 201 D	6.0	23x23x45	78x57x85

## Standard Models (1150°C)

Models	Wattage (KW)	Internal dim. H.W.D. (cm)	External dim. H.W.D.(cm)
VS 202 A	1.8	10x10x23	63x42x61
VS 202 B	3.5	15x15x30	68x47x68
VS 202 C	4.5	20x20x30	73x52x68
VS 202 D	7.0	23x23x45	78x57x85

# HOT PLATE (CONDUCTION HEATING)

VS401 are a range of hot plate with grooved & machined cast iron top and are hydraulic thermostat controlled. Heating element is electrically insulated with porcelain beads and embedded in the grooves under the top plate. It resists high corrosive environment and durable over a long period of operation. Available in round and rectangular shape. Automotive, Pharmaceutical and Chemical are a few of the industries where our Hot Plates are used.

Standard Model  
(Round shape)



Standard Model  
(Rectangular shape)



## Technical Specification

*Temp. Range* : Maximum Temperature range is up to 300°C.

*Temp. Range* : Maximum Temperature range is up to 300°C.

## Models Standard

Models	Wattage (KW)	Dimension (cm.)
VS 401	1.20	Dia. 20x15

Models	Wattage (KW)	Dimension L.W.H. (cm.)
VS 411 A	1.2	40x25x20
VS 411 B	2.0	45x30x20
VS 411 C	3.0	60x45x22



## INDUSTRIAL OVENS

Industrial ovens are an absolute solution to industrial heavy duty heat processes. Abrasive baking, composite material polymer curing, tray drying and more such varied applications, the system is designed and tuned to suit your specific process.

The most important aspect of an industrial oven is the strength and dynamics of its body. We have a dedicated sheet metal engineering and manufacturing facility and our team of enthusiast professionals is at disposal to design and develop solutions for your advanced processes.

### *Technical Specification*

Temperature range: 40°C to 250°C.

High temperature Ind. ovens, range up to 600°C.

Custom built shelves, trolleys and racking systems are designed to suit specific applications and processes.

### Type of Industrial ovens widely used

Heavy duty batch, conveyor and walk-in ovens are used in industries for controlled finishing and heat treating.

Curing ovens, for curing polymers, composite materials, epoxy powder coating and bonding process in abrasive industry are few of the applications.

High Temperature ovens are used for processes requiring temperatures beyond 250°C and up to 600°C.

Industrial Tray Dryers are an indispensable process equipment for drying applications in Pharmacy, food, Chemicals, Paints, Textile, Plastic and many other industries.

**VELIYATH**  
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