



Qualiseal

Lab-Instruments



Certificate of Registration

This Certificate certify that the Management System of

CHROMATOGRAPHY WORLD

2nd Floor, 271, Champaklal Industrial Estate, Near Sion Telephone Exchange, Sion East, Mumbai City, Maharashtra, India.

has been audited by ICV and found to be in compliance with the requirements of the standard

ISO 9001: 2015

(Quality Management Systems)

This certificate is valid for the following scope:

Manufacturer for Chromatography Columns & Consumables Scientific & Analytical Instruments, Peripheral Lab Instruments & Furniture, Gas Generator & Gas Management Accessories & Consumables All Consumables Required for Laboratories.

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InertVap

Nitrogen Evaporator & Concentrator

- Nitrogen Evaporator is a Precision Sample Concentrator by Nitrogen Purging.
- It is a newly designed Sample Concentrator for multiplesample pre-concentration of in organic media.
- The unit can be set to a constant Flow and constant Temperature to ensure good evaporation.



Special Features:

- Compact size, plug & play table top model.
- Precise manufacturing using latest technology-Laser Cutting & CNC.
- High Quality Baumer Pressure Gauge.
- Side Handles for easy movement.
- SS316 tank & Nozzle Manifold for durability and low maintenance.
- Fast & uniform heating by silicon heater with precision temperature .
- Digital display & time based automatic shutdown with alarm for temperature & gas flow.
- Best quality Pneumatic Fitting operation.
- Electrically controlled raw wise nitrogen supply with LED indicator.
- Microprocessor-controlled vortex motion increases surface area for faster evaporation.
- Sample capacity:20 Nos/30 Nos/50 Nos/100 Nos/144 Nos
And also available in 100ml/200ml volume flasks..

Product Specifications:

- Vortex Shearing Concentration
- Timer Range: 0 to 99 minutes
- Temperature range: Ambient to 99 °C & Accuracy ± 2 °C
- Start/stop: Green LED indication when process is On
- Gas stations: with LED indication
- Gas regulator range: 0 to 100 PSI (approx.)
- Pressure gauge range: 0 to 100 PSI
- Fully Microprocessor based control
- Power supply: 230 V AC / 3Amp 50 Hzs
- Error indication: LED indication with Buzzer
- ON/OFF switches to turn Nitrogen Flow on or off to the nozzle.

**NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.
ON SITE VALIDATION CHARGES WILL BE EXTRA AS APPLICABLE**

*** Customize Size and Configuration possible ***

HPLC Column Flushing & Dosing Pumps

Completely Indigenous Made in India With Safty Features.

- ➔ Plug & Play Modular Pump with front control panel & display
- ➔ High Precision & Accurate Flow Rate
- ➔ 5 Column Washing Station As Standard Accuracy
- ➔ Continous & Time Base Operation
- ➔ Auto Cut Of Pressure Setting
- ➔ Password Protected

**Single Head -
QCFP - 01-01**



**Double Head -
QCFP - 01-02**



Specifications

	Single Head	Double Head
Operating Temperature	4 to 38 °C (39.3 - 100.4 °F)	
Storage Temperature	0 to 50 C (32-112 F)	
Humidity	0-90%,non-condensing	
Power Requirements	190-270 VAC.	
Material of Wetted Surfaces	Ss316, Ruby,Sapphire, FEP, PTFE	
Flow Rate Range	0.05 to 10 ml/min, 0.01 ml/min increments	
Flow Rate Precision	±2%	±1%
Flow Rate Accuracy	±2%	±2%
Operating Pressure Limit	6000 PSI (414 BAR)	
Compact Size (WxHxD)	W200 x L300 x H205 mm (Approx Weight 9 Kg)	
Make	Qualiseal	

*** Higher Flow Rate Model Available for Preparative Chromatography & Dosing ***

NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.

Portable Digital Gas Flow Meter (GL Science. Japan)

2709-10100, Gas Flow Meter GF 1010

The new pocket sized GF 1010 gas flow meter makes gas flow measurement easier and more accurate, helping to eliminate user errors. The GF 1010 is an essential tool for troubleshooting and routine maintenance of your gas chromatograph. The LCD display with back light makes reading flows clear and easy. As an option, there is a Silicone protection cover available to protect the flowmeter.



Specifications

Flow Range	: 1 - 1200 ml/min No need to select a gas type due to volume flow meter technique. Mixed gas can also be measured.
Accuracy	: $\pm 3\%$ FSD (for calibration gas N ₂)
Operating temp. range:	10 - 40°C (Accuracy Range 15 - 30°C)
Silicone tube	: I.D. = 3mm, O.D. = 7mm (maximum temperature = 200°C)
Measurable gases	: N ₂ , Air, He, Ar, H ₂ , etc. (no corrosive and humidity gas)
Battery	: 2 AA Batteries
Display	: LCD with back light
Standards	: WEEE, RoHS, CE
Dimensions	: 76mm(W)×135mm(D)×35mm(H)
Weight	: approx. 240 gram without battery
Functions	: Zero Adjustment, Battery indicator, selectable auto power off

Handy and Compact
Wide Flow Range
Easy to Operate

VKIT-LFM2 HPLC / UPLC Flowmeter

VKIT-LFM2 HPLC / UPLC Flowmeter

Specially designed for HPLC and UPLC, the V:Kit liquid flowmeter enables easy and accurate measurement of flow rates. The tripod mount and robust carry case make VKIT-LFM2, the perfect tool for field service engineers and laboratory personnel performing OQ/PQ and routine performance verification activities.

Technical Specifications

- 0.05 to 25.00 mL/min flow range
- Flow accuracy $\leq 1.0\%$
- Flow precision $\leq 0.1\%$
- 0.1 $\mu\text{L}/\text{min}$ resolution
- Multi-point calibration with UKAS (UK equivalent of NIST) traceability calibration certificate
- PTFE, PEEK, FEP, EPDM & Acetal wetted parts
- 195 μL sensor volume: 5 readings each minute at 1.00 mL/min.
- 24V DC UK (3pin UK 240V), EU (2-pin 220V) or USA (2-pin 120V) (state when ordering)
- Backlit LCD display
- Weight: 1.8 kg
- Dimensions: 132 mm x 89 mm x 64 mm (HxWxD)
- Integrated tripod stand allows easy positioning on the bench
- Supplied with sturdy carrying case

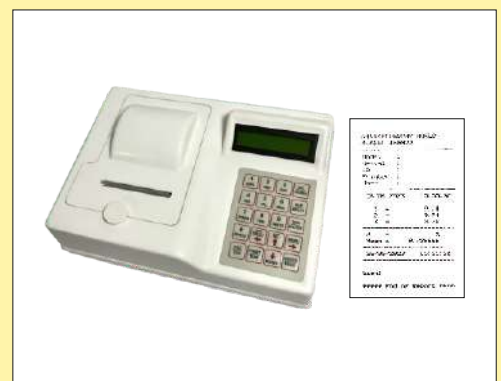


Standard Features

- Rs232 Serial Interface
- Three Level Password Protection
- Built in RTC
- User friendly Alphanumeric keypad
- Buzzer Indication
- Printing Multiple copies
- Single weight / Gross-Tare-Net / Statistical Data Printing
- GLP Data printing

Technical Specification

- Power Requirements
AC 100-240V, 50Hz,
- Dimensions L x W x H
210 x 165 x 100mm
- Weight: 800g
Paper Width: 57mm



V-KIT Digital Pressure Meter with Adaptor for GC

Upgraded pressure meter with greater accuracy, selectable pressure units, and protective holster. Suitable for connection to most GC inlets (supplied with nut and ferrule to connect to Agilent 6890/7890 and HP 5890 GC split-splitless inlets). Supplied with traceable 5-point calibration certificate (0, 10, 15, 25 & 50 psi) and protective rubber holster.

Technical Specifications

- Operating range: 0 to 100 psi,
- Resolution 0.1 psi
- Accuracy ≤ 1.0 % of full scale at 25.0 °C / 77.0 °F
- Precision ≤ 0.5 % of full scale
- Powered by 9V battery
- 11 display units: psi, kPa, mmHg, kg/cm², mbar(hpa), bar, inH₂O, cmH₂O, inHg, ftH₂O, oz/inch², cmH₂O

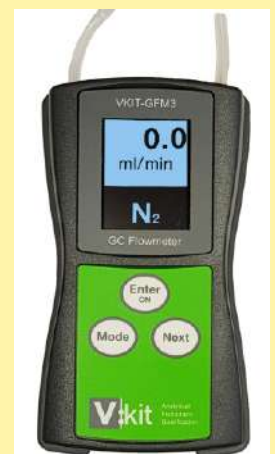


V:KIT GC Digital Gas Flowmeter

GC flowmeter with traceable calibration. Measuring Range 0-500 mL/min, OLED Display, Accuracy ± 2.5 % or 0.4 mL/min of reading. Resolution 0.1 mL/min. Supplied with rechargeable Li-Ion battery and power supply. Simple and accurate measurement of Air, N₂, H₂, He, CO₂, O₂, Ar & Ar/CH₄ for gas chromatographs and other analytical equipment.

Technical Specifications

- Accuracy: 0.4 mL/min or ± 2.5 % of reading whichever is greater
- Range: 0-500 mL/min (0-300 mL/min Co₂)
- Resolution: 0.1 mL/min
- Max inlet pressure 25 psi (175 kPa)
- Compatible gases N₂, Air, He, H₂, CO₂, Ar, CH₄/Ar
- Three gas modes: Flow measurement, linear velocity and split ratio
- Multi-point calibration (0-500 mL/min) with traceable calibration certificate
- Backlight OLED display
- Serial output to PC
- Lithium Ion re-chargeable battery, charging via included power adaptor or via micro-USB cable to PC

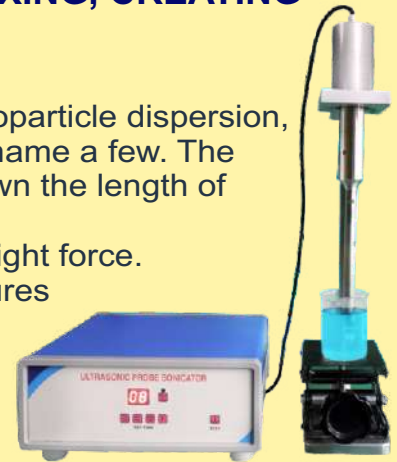


Ultrasonic Probe Sonicator

THE VERSATILE PROBE IS BEST FOR DISPERSION, MIXING, CREATING EMULSIONS, CELL DISRUPTION & HOMOGENISATION

Qualiseal Probe has a powerful ultrasonic processor best for nanoparticle dispersion, mixing, creating emulsions, cell disruption and homogenization, to name a few. The vibration created by the processor is amplified and transmitted down the length of the Probe (also known as Horn).

The probe's tip longitudinally expands and contracts creating the right force. The highly localized intensity of sonication through the Probe ensures efficiency, consistency and desired results. Choose from a wide variety of probes and accessories for many applications.



Experience seamless homogenization & microfined emulsion with **Qualiseal** Probe. The Ultrasonic Processor is very flexible as it can be easily transferred from one batch to the other without intermediately operations like emptying, cleaning & refilling. The mobile unit can be installed at various locations of sample operations.

Qualiseal Ultrasonic Processor consists of:

- Ultrasonic Generator to produce High Frequency Electrical Energy operating at a frequency of 20 KHz and an Ultrasonic Power of 500 W
- S.S. Velocity Horn is fitted with PZT Crystals. This Velocity Horn assembly converts the electrical high frequency energy fed from the Ultrasonic generator to mechanical vibrations at the rate of applied electrical frequency. The amplitude of these mechanical vibrations are magnified by this velocity Horn. The Horns come in various shapes and sizes depending on your application

Models	QS-120	QS-150	QS-250	QS-250
Effective Volume	Up to 250ml	Up to 300ml	Up to 500ml	Up to 1000ml
Probe Size	6mm & 12mm –SS 304 or Titanium alloy	12mm & 20mm –SS 304 or Titanium alloy	12mm & 20mm –SS 304 or Titanium alloy	12mm & 25mm –SS 304 or Titanium alloy
Ultrasonic Power	120 Watts	150 Watts	250 Watts	500 Watts
Frequency(KHz)	20 ± 2KHz	20 ± 2KHz	20 ± 2KHz	20 ± 2KHz
Timer	Cyclic on/off & run time 99 mins.	Cyclic on/off & run time 99 mins.	Cyclic on/off & run time 99 mins.	Cyclic on/off & run time 99 mins.

*** Customize Size and Configuration possible ***

Ultrasonic Bath

Salient Features:

1. Compact, Rugged and Highly Durable System.
2. Easy to operate with single body ss tank.
3. Advanced MOSFET Technology with embedded for longer and safer operation.
4. Digital temperature controller (optional) customization of ultrasonic bath available.

Specification of Ultrasonic Bath:

1. Tank capacity available in standard form 1.5L to 100L.
(as per required user tank size also above 100L).
2. Temperature range for ultrasonic bath with digital temperature controller 5°C above ambient to 70°C
3. Accuracy of Temperature is $\pm 2^\circ\text{C}$.
4. Tank frequency is 33 \pm 3khz.
6. PZT sandwich type bonded transducer on the base of tank.
7. Also available with construction of ss 316,304 (16 gauge)
8. PSP, D-gassing, NORMAL ultrasonic operations are available.



Specification For Ultrasonic Bath with chiller:

1. Tank capacity available in standard form 10L to 100L.
(as per required user tank size also above 100L).
2. Working Temperature range for chiller ultrasonic bath 05°C to 35°C Cut off.
3. Also available chiller with heater in ultrasonic bath as required temperature 5°C to 60 °C
4. Accuracy of temperature is $\pm 2^\circ\text{C}$
5. Tank frequency is 33 \pm 3khz.
6. PZT sandwiched type bonded transducer on the base of tank.
7. MOC is available with construction of ss 316,304 (16 gauge)
8. PSP, D-gassing, NORMAL ultrasonic operations are available.



*** Customize Size and Configuration possible ***

Humidity Chamber / Stability Chamber

- Designed & widely used in application & tests of Electronic/Electrical components, Plant and Animal growth studies, and Shelf life studies in Pharmaceutical & Packaging sector & Other Q/C Labs under controlled temperature and humidity conditions.
- Double walled having Inner Stainless Steel -304 grade chamber and Exterior with CRCA Steel - Powder coat finished.
- Inner made of Stainless Steel – 316 grade and Exterior of Stainless Steel - 304 grade in GMP MODEL.
- Castor Wheel for easy movability.
- Full view observation Acrylic door to observe sample inside the chamber.
- Illumination is provided through fluorescent tubes for clear visibility.
- Air Circulation ensures more stability of condition & even distribution inside the chamber.
- The temperature & humidity controlled by Microprocessor based PID Temperature & RH % Controller & PT – 100 sensor for temperature & Humidity sensing.
- High Efficiency CFC Free Cooling system includes hermetically sealed Emerson Copland make compressor coupled with air cooled condensing unit fitted with Motor, Fan Blade, Electrical Accessories etc. Mounted on bottom of unit on heavy base frame.
- Humidification through steam injection system.
- Reservoir Water Tank having float valve provision.
- Adjustable & removable S.S. Rod shelves.
- Operates on 230 Volts AC Single phase 50 Hz.

Safety Features:-

- Redundant high temperature safety system automatically cuts-off power to heaters if temperature exceeds 70 C.
- A Boiler Tank consisting of Water Heater having auto cut-off facility for low water level.
- Inbuilt verload protection relay for compressor.
- Compressor ON delay timer, to safe guard the compressor.

Specification :

Temperature Range	10°C to 60°C
Temperature Accuracy	± 1°C
Humidity Range	40% RH to 95% RH
Humidity Accuracy	± 3% RH

MODEL	WORKING SPACE (W X D X H)	CAPACITY		SHELVES
		CFT	LTRS	
QS-HC/SC-01	45 X 45 X 50 CM	3 CFT	90	2 NOS.
QS-HC/SC-02	50 X 50 X 70 CM	6 CFT	175	2 NOS.
QS-HC/SC-03	55 X 55 X 90 CM	10 CFT	280	3 NOS.
QS-HC/SC-04	60 X 60 X 90 CM	12 CFT	325	3 NOS.
QS-HC/SC-05	65 X 65 X 90 CM	14 CFT	400	4 NOS.
QS-HC/SC-06	70 X 70 X 90 CM	16 CFT	450	4 NOS.



Optional Accessories:

- A) RS485 for PC Communication with 21 CFR Compliance Software.
- B) Voltage Stabilizer (Recommended).P.O.R.
- C) Programmable logic controller(PLC) with 3.8" HMI with color touch screen.

PC/Printer Interface : Datalogger with or without software is provided.

**NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.
ON SITE VALIDATION CHARGES WILL BE EXTRA AS APPLICABLE.**

*** Customize Size and Configuration possible ***

Deep Freezer (Vertical & Horizontal Model)

- Deep Freezers are designed for storage of biological samples in biotech, life science, clinical research as well as medical & pharmaceutical specimens, serums, vaccines, blood components
- Double walled construction, having Stainless Steel - 304 grade Interior & Exterior CRCA Steel with Powder Coat finish.
- Inner made of Stainless Steel – 316 grade and Exterior of Stainless Steel - 304 grade in GMP MODEL.
- Cooling element is embedded from outer side of the working chamber.
- Units are highly insulated by PUF (Polyurethane Foam) between the walls to minimize the heat exchange
- A key lockable door having magnetic gasket seals door gaps perfectly.
- Full length inner plexi-glass to avoid the temperature loss.
- High Efficiency CFC Free Cooling system includes hermetically sealed Emerson Copland make compressor coupled utilizing an CFC Free eco-friendly refrigerant & with air cooled condensing unit fitted with Motor, Fan Blade, Electrical Accessories etc. Mounted on bottom of unit on heavy base frame.
- Temperature controlled by Dual Display Microprocessor based PID Temp. Controller with & PT – 100 sensor
- Temperature Range: Upto -20°C.
- Temperature Accuracy: $\pm 3^{\circ}\text{C}$ or better.
- Temperature Uniformity : $\pm 2^{\circ}\text{C}$ or $\pm 3^{\circ}\text{C}$
- Castor wheels for easy movability.
- Operates on 230 Volts AC Single phase 50 Hz.



Safety Features:-

- Inbuilt Overload protection relay for compressor.
- Compressor ON delay timer, to safe guard the compressor.

	MODEL	WORKING SPACE (W X D X H)	CAPACITY
VERTICAL	QS-DF-V-01	45 X 40 X 60 CM	100 LTRS
	QS-DF-V-02	50 X 43 X 85 CM	170 LTRS
	QS-DF-V-03	60 X 55 X 90 CM	265 LTRS
	QS-DF-V-04	70 X 65 X 95 CM	425 LTRS
	QS-DF-V-05	78 X 50 X 167 CM	650 LTRS
HORIZONTAL	QS-DF-H-01	60 X 40 X 45 CM	100 LTRS
	QS-DF-H-02	60 X 40 X 70 CM	170 LTRS
	QS-DF-H-03	95 X 40 X 70 CM	265 LTRS
	QS-DF-H-04	110 X 50 X 78 CM	425 LTRS
	QS-DF-H-05	167 X 50 X 78 CM	650 LTRS

N.B. : -40°C and above ultra deep freezers models is also available with Cascade cooling system having CFC free compressor utilizing eco-friendly refrigerants, with air cooled condenser, motor and relay.

**NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.
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*** Customize Size and Configuration possible ***

Orbital Shaking Incubator - Heating

- Double Walled construction, Inner chamber made of Stainless steel - 304 grade & Outer CRCA Steel - Powder coat finished.
- Units are highly insulated with compressed Glass wool between the walls to minimize the heat exchange
- Heating is done by long life Tubular S.S. air heater.
- Temperature Range: 5°C above ambient to 80° C.
- Temperature Controlled by Dual display Microprocessor based PID Temperature Controller & PT – 100 sensors with +/- 1°C Accuracy.
- Shaking mechanism comprises of Variable speed PMDC geared motor with Triple-eccentric counterbalanced drive.
- Shaking amplitude: 25 MM.
- Shaking speed can be controlled by means of Variable frequency drive with Digital RPM indication between 20 RPM to 200 RPM.
- Universal Platform to accommodate interchangeable lotus clamps of assorted sizes for different capacity of flasks.
- Illumination lamp fitted for clear visibility.
- Operates on 230 Volts AC Single phase 50 Hz..



MODEL	WORKING SPACE (W X D X H)	UNIVERSAL PATFARM SIZE	MAXIMUM NO OF CLAMPS				MAXIMUM SHAKING CAPACITY
			100 ML	250 ML	500 ML	1000 ML	
QS-OSI-H-01L	40 X 40 X 30 CM	35 X 35 CM	16	09	09	04	5 LTRS
QS-OSI-H-02L	50 X 50 X 30 CM	45 X 45 CM	25	16	16	09	10 LTRS

REMOVABLE S.S. LOTUS CLAMPS CAPACITY : 100 ML, 250 ML, 500 ML, 1000 ML

Note: SS Lotus clamps for holding the flasks in the shakers to be order separately.

Optional Accessories:

Digital Timer of 999 Minutes for timed shaking with Alarm.

PC/Printer Interface : Datalogger with or without software is provided.

**NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.
ON SITE VALIDATION CHARGES WILL BE EXTRA AS APPLICABLE.**

*** Customize Size and Configuration possible ***

Orbital Shaking Incubator - Cooling

- Orbital Shaking Incubators are specifically designed to have combined advantage of closely controlled incubation with orbital shaking applications required in fermentation studies, tissue cultures, enzyme reactions, life science and biotechnology research labs.
- Double Walled construction, Inner chamber made of Stainless steel - 304 grade & Outer CRCA Steel - Powder coat finished.
- Units are highly insulated with compressed Glass wool between the walls to minimize the heat exchange.
- A key lockable insulated door having magnetic gasket seals door gaps perfectly.
- Toughened glass window allows clear observation of specimens.
- Illumination lamp fitted for clear visibility.
- Mechanical convection system (Motorized Blower) ensures even air distribution within the chamber.
- Heating by long life SS air heaters.
- Cooling is done by hermetically sealed Emerson Copland make compressor utilizing CFC Free R-134 A refrigerant.
- Temperature Range : 5° C to 60° C.
- Temperature Controlled by Dual display Microprocessor based PID Temperature Controller & PT – 100 sensors with +/- 1° C Accuracy.
- Digital Timer of 999 Minutes for timed shaking with audio visual alarm.
- Shaking mechanism comprises of Variable speed PMDC geared Motor.
- Shaking amplitude : 25 MM
- Shaking speed can be controlled by means of Digital RPM Indicator cum Controller between 20 RPM to 250 RPM.
- Universal Platform to accommodate interchangeable lotus clamps of assorted sizes for different capacity of flasks.
- Adjustable & removable S.S. Rod shelves for Holding Petri Dishes & Flasks.
- Operates on 230 Volts AC Single phase 50 Hz.



Safety Features:-

- A) Redundant high temperature safety system automatically cuts-off power to heaters if temperature exceeds 70°C.
- B) Overload protection relay & time delay for compressor.

MODEL	WORKING SPACE (W X D X H)	CAPACITY	UNIVERSAL PLATFORM SIZE	MAXIMUM NO OF CLAMPS				MAXIMUM SHAKING CAPACITY	NO.OF TRAYS
				100ML	250 ML	500 ML	1000 ML		
QS-OSI-C-125L	45 X 45 X 50 CM	125 LTRS	35 X 35 CM	16	09	09	04	5 LTRS	1
QS-OSI-C-200L	55 X 55 X 70 CM	200 LTRS	45 X 45 CM	25	16	16	09	10 LTRS	2

REMOVABLE S.S. LOTUS CLAMPS CAPACITY : 100 ML, 250 ML, 500 ML, 1000 ML

Note: SS Lotus clamps for holding the flasks in the shakers to be order separately.

PC/Printer Interface : Datalogger with or without software is provided.

**NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.
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*** Customize Size and Configuration possible ***

Bacteriological Incubator

- Triple walled in construction with Inner made of SS304 Grade & Exterior of CRCA steel with powder coat finish
- Interior made of SS316 grade and Exterior of Stainless Steel 304 grade matt finish in all GMP MODELS
- Food grade Silicon Rubber gasket which acts as a perfect sealant.
- A transparent full length Acrylic inner door is provided to have a clear inner view of the samples/specimens put in, without disturbing the Thermal Conditions inside the incubator
- Heating elements are made of high grade Nichrome wire and placed at the both sides
- Temperature controlled by Dual Display Microprocessor based PID Temperature Controller & PT- 100 sensor.
- Air circulation by motorized blower placed on top of the incubator.
- Available with removable S.S. Rod shelves.
- Temperature Range: 5°C above ambient to 60°C.
- Temperature Accuracy: $\pm 1^\circ\text{C}$ or better.
- Temperature Uniformity: $\pm 1^\circ\text{C}$ or better.
- Operates on 230 Volts AC Single phase 50 Hz.
- Safety Feature: Capillary type Thermostat provided to take care of temperature overshoots & in case the PID Controlling system fails.



MODEL NO.	WORKING SPACE (W x D x H)	CAPACITY (LTRS.)	WATTS	SHELVES	STANDARD / GMP	
					THERMOS TATIC	DIGITAL
QS-BI-45L	14" x 14" x 14"	45 LTRS	300	2 NOS		
QS-BI-90L	18" x 18" x 18"	90 LTRS	400	3 NOS		
QS-BI-120L	18" x 18" x 24"	120 LTRS	750	3 NOS		
QS-BI-220L	24" x 24" x 24"	220 LTRS	1000	3 NOS		
QS-BI-250L	24" x 18" x 36"	250 LTRS	1250	3 NOS		
QS-BI-325L	24" x 24" x 36"	325 LTRS	1500	4 NOS		

Optional Accessories:

PC/Printer Interface : Datalogger with or without software is provided.

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*** Customize Size and Configuration possible ***

Laboratory Incubator - (Bottom Heater Type)

- Double wall construction with Inner chamber made of Stainless Steel – 304 Grade
- Exterior of CRCA steel with powder coat finish.
- High density glass wool insulation between walls to prevent heat dissipation.
- Heating elements are made of high grade Nichrome wire and placed at the bottom, of the unit.
- A transparent full length Acrylic inner door is provided to have a clear inner view of the samples
- Temperature Range: 5°C above ambient to 60°C.
- Temperature controlled by Capillary Thermostat with +/- 2°C Accuracy.
- Gravity convection & Shelves are made of Galvanized wire mesh.
- Operates on 230 Volts AC Single phase 50 Hz.



MODEL NO.	WORKING SPACE (W x D x H)	CAPACITY (LTRS)	SHELVES	WATTS	STANDARD / GMP	
					THERMOSTATIC	DIGITAL
QS-LI-27L	12”X12”X12”	27 LTRS	1 NOS.	250		
QS-LI-45L	14”X14”X14”	45 LTRS	2 NOS.	300		
QS-LI-90L	18”X18”X18”	90 LTRS	3 NOS.	400		
QS-LI-120L	18”X18”X24”	120 LTRS	3 NOS.	750		
QS-LI-220L	24”X24”X24”	220 LTRS	3 NOS.	1000		
QS-LI-250L	24”X18”X36”	250 LTRS	3 NOS.	1250		
QS-LI-325L	24”X24”X36”	325 LTRS	4 NOS.	1500		

PC/Printer Interface : Datalogger with or without software is provided.

NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.
ON SITE VALIDATION CHARGES WILL BE EXTRA AS APPLICABLE.

★ Customize Size and Configuration possible ★

BOD Incubator / Cooling Incubator

- Designed for Biochemical Oxygen Demand (B.O.D.) Determination and other application like preservation of vaccines, storage of sensitive cultures, microorganism, serum incubation etc
- Double walled construction with backside triple, having Stainless Steel - 304 grade Interior & Exterior CRCA Steel with Powder Coat finish.
- Interior made of Stainless Steel-316 grade and Exterior of Stainless Steel 304 grade matt finish in all GMP Model.
- Castor wheels for easy movability.
- Units are highly insulated by Glass Wool between the walls to minimize the heat exchange.
- A key lockable Insulated door having magnetic gasket seals door gaps perfectly.
- A transparent full length Acrylic inner door is provided to have a clear inner view of the samples/specimens put in, without disturbing the Thermal Conditions inside the incubator.
- Illumination lamp fitted for clear visibility.
- Mechanical convection system (Motorized Blower) ensures even air distribution within the chamber.
- Heating by long life 'U' type S.S. tubular heaters.
- Cooling is done by CFC Free Hermetically sealed Emerson Copland make compressors utilizing R-134 A an eco-friendly refrigerant.
- Adjustable & removable SS rod type shelves.
- Temperature controlled by Dual Display Microprocessor based PID Temp. Controller with & PT – 100 sensor.
- Temperature Range: 5°C to 60°C.
- Temperature Accuracy : ± 1°C.
- Temperature Uniformity : ± 1 °C.
- Operates on 230 Volts AC Single phase 50 Hz.



Safety Features:-

Redundant high temperature safety system automatically cuts-off power to heaters if temperature exceeds 70° C.
Inbuilt Overload protection relay for compressor.
Compressor ON delay timer, to safe guard the compressor.

MODEL NO.	WORKING SPACE (W x D x H)	CAPACITY CFT	CAPACI TY CFT	SHELVES	STANDARD / GMP	
					THERMO STATIC	DIGITAL
QS-BODI-90L	45 X 45 X 50 CM	3	3	2 NOS		
QS-BODI-175L	50 X 50 X 70 CM	6	6	3 NOS		
QS-BODI-280L	55 X 55 X 90 CM	10	10	3 NOS		
QS-BODI-325L	60 X 60 X 90 CM	12	12	3 NOS		
QS-BODI-400L	65 X 65 X 90 CM	14	14	4 NOS		
QS-BODI-450L	70 X 70 X 90 CM	16	16	4 NOS		

Optional Accessories:

PC/Printer Interface : Datalogger with or without software is provided.

**NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.
ON SITE VALIDATION CHARGES WILL BE EXTRA AS APPLICABLE.**

*** Customize Size and Configuration possible ***

Rotary Shaker / Orbital Shaker-Heavy Duty

- Useful for Shaking in Research Institutions, Chemical & Agriculture Laboratories.
- The housing made of CRCA Steel - Powder Coat finished.
- Universal Platform made from S.S. 304 Grade to accommodate interchangeable lotus clamps of assorted sizes for different capacity of flasks.
- Shaking Speed can be controlled by Digital RPM Indicator cum Controller between 20 RPM to 250 RPM.
- Permanent Magnet D. C. (PMDC) geared motor for shaking.
- Shaking Stroke: 25 MM.
- Operates on 230 Volts AC Single phase 50 Hz.



Supplied with Clamp Holders for Heavy Duty

MODEL NO	UNIVERSAL PLATFORM SIZE	MAXIMUM NO. OF CLAMPS			
		100 ML	250 ML	500 ML	1000 ML
QS-OS-01	350 X 350 MM	16	9	9	4
QS-OS-02	450 X 450 MM	25	16	16	9
QS-OS-03	600 X 600 MM	64	36	25	16
QS-OS-04	750 X 750 MM	81	49	36	25
QS-OS-05	900 X 900 MM	100	64	49	36

Optional Accessories:

A) Digital Timer for Timed shaking process of 999 Minutes

S.S. LOTUS CLAMPS CAPACITY : 100 ML, 250 ML, 500 ML, 1000 ML

Note: S.S. Lotus clamps for holding the flasks in the shakers to be order separately.

NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.

*** Customize Size and Configuration possible ***

Rotary Shaker / Orbital Shaker- Light Duty

- Useful for Shaking in Research Institutions, Chemical & Agriculture Laboratories.
- The housing made of CRCA Steel - Powder Coat finished.
- Universal Platform made from S.S. 304 Grade to accommodate interchangeable lotus clamps of assorted Sizes for different capacity of flasks.
- Shaking Speed : 20 RPM to 200 RPM.
- Shaking Stroke: 25 MM.
- Operates on 230 Volts AC Single phase 50 Hz.

Supplied with Clamp Holders.

MODEL NO	UNIVERSAL PLATFORM SIZE	CAPACITY
QS-OB-L-01	325 X 325 MM	250 OR 500 ML X 8 FLASK
QS-OB-L-02	425 X 425 MM	250 OR 500 ML X 16 FLASK

Optional Accessories:

- Digital Timer for Timed shaking process of 999 Minutes
- Digital RPM Controller Cum Indicator

N.B.: Light Duty Rotary Shaker has operation limit of maximum 8 Hours, do not run the shaker continuously above the given limit.

NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.

*** Customize Size and Configuration possible ***

Autoclave - Fully Automatic (Vertical)

- Vertical autoclave widely used in Microbiology, Medicine, Waste treatment Pharma QC / QA / R & D and all applications requiring sterilization.
- Double walled construction with Inner chamber (boiler) made of Stainless Steel 16 SWG sheet – 304 grade and Outer shell of Stainless Steel sheet - 304 grade, mirror polish.
- The Boiler and outer shell is provided with air insulation.
- Lid is made of die pressed Thick Stainless Steel plate & is equipped with Pressure gauge, Steam release/Exhaust valve & spring loaded safety valves & 1/4" BSP Port fitted with coupling for validation purpose.
- Foot lifting arrangement for the lid.
- Fully Argon welded to avoid steam and pressure leakage.
- Heavy duty industrial flange heaters.
- Full sterilization cycle including Air purging, Sterilizing hold time, Cycle end with release/exhaust of pressure & alarm is automatic.
- Microprocessor based Controller with time and temperature programmable by user
- Timer Range : 1- 99 Minutes.
- Temperature Sensor : PT-100. with accuracy $\pm 1^\circ\text{C}$
- Low water level alarm with heater cut off.
- Perforated basket made of Stainless Steel sheet – 304 grade.
- Operates on 230 Volts AC Single phase 50 Hz..



Temperature Range	121°C to 125°C
Temperature Resolution	0.1 °C
Pressure range	15 PSI to 20 PSI. Factory Set at 15 PSI.

MODEL NO.	INNER DIMENSION	WATTS.	NO.OF BASKETS
QS-AC-22L	10 Dia X 18 Depth	2000	1
QS-AC-35L	12 Dia X 20 Depth	2000	1
QS-AC-52L	14 Dia X 22 Depth	3000	1
QS-AC-90L	16 Dia X 24 Depth	4000	1
QS-AC-95L	18 Dia X 24 Depth	4000	1
QS-AC-120L	18 Dia X 30 Depth	4500	2
QS-AC-175L	22 Dia X 30 Depth	5000	2
QS-AC-200L	22 Dia X 36 Depth	6000	2

NOTE : PC/Printer Interface : Datalogger with or without software is provided. We provided manual Autoclave also

NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.
ON SITE VALIDATION CHARGES WILL BE EXTRA AS APPLICABLE.

*** Customize Size and Configuration possible ***

Laminar Air Flow Cabinet

Ideal for Microbiological Manipulations, Sterility Testing, research work & for general dry-processing work in semiconductor industry etc.

- Construction Standard** : Full Cabinet made from CRCA Steel Sheet - Powder coat finished.
GMP: Full Cabinet made from Stainless Steel (304 Grade).
- Working Table Top** : Made from Stainless Steel (304 Grade)
- Side panels** : Thick transparent Acrylic.
- Motor Mounting** : Unique spring suspension system with bellow which helps to reduce Vibration and noise.
- HEPA Filter** : Mini Pleat - High Efficiency Particular Air Filter with Efficiency 99.97% down on 0.3 micron.
- Pre Filter** : Washable Filter having efficiency of 95 % down to 5 micron.
- Air Flow Velocity** : 90 FPM (0.45 m/s) 10 FPM (0.05 m/s) average velocity measured 6 in. (153.4 mm) from the diffuser screen. Uniformity 20% of average or better.
- Air Circulation** : Balanced blowers fitted with direct driven FHP Motor.
(For Variable air flow speed in accordance with filter loading)
- Static Pressure Indicator** : Oil Filled Manometer
- Inner chamber Sterilization** : Through UV Germicidal tube.
- Inner chamber Illumination** : Fluorescent tube light
- Noise Level** : < 65 DB measured at 1 Mtr from filter face.
Gas Cock Provision.
Castor Wheel for movability.



	MODEL	WORKING AREA (L X W X H)	HEAPA FILTER DIMENSIONS	PRE-FILTER	ILLUMINATION	STADARD / GMP
ORIENTAL	QS-LAFC-01H	2 X 2 X 2 Feets	24" x 24" x 6"	1 NO.	1 X 20 WATTS	
	QS-LAFC-02H	3 X 2 X 2 Feets	36" x 24" x 6"	1 NO.	1 X 20 WATTS	
	QS-LAFC-03H	4 X 2 X 2 Feets	48" x 24" x 6"	1 NO.	1 X 40 WATTS	
VERTICAL	QS-LAFC-01V	2 X 2 X 2 Feets	24" x 24" x 6"	1 NO.	1 X 20 WATTS	
	QS-LAFC-02V	3 X 2 X 2 Feets	36" x 24" x 6"	1 NO.	1 X 20 WATTS	
	QS-LAFC-03V	4 X 2 X 2 Feets	48" x 24" x 6"	1 NO.	1 X 40 WATTS	

**NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.
ON SITE VALIDATION CHARGES WILL BE EXTRA AS APPLICABLE.**

*** Customize Size and Configuration possible ***

Hot Air Oven

- Triple walled in construction with Inner made of Stainless Steel – 304 Grade & Exterior of CRCA steel with powder coat finish.
- Interior made of Stainless Steel – 316 grade and Exterior of Stainless Steel - 304 grade matt finish in all GMP MODELS.
- Food grade Silicon Rubber gasket which acts as a perfect sealant.
- Temperature controlled by Dual Display Microprocessor based PID Temperature Controller & PT – 100 sensor.
- Heating elements are made of high grade Nichrome wire and provided on the side walls of the chamber.
- Air circulation by motorized blower placed on top of the oven.
- Available with removable SS Rod shelves.
- Temperature Range: 5°C above ambient to 250°C.
- Working Temperature range : 5°C above ambient to 200°C.
- Temperature Accuracy: $\pm 2^\circ\text{C}$ or better.
- Operates on 230 Volts AC Single phase 50 Hz.



Safety Feature: Capillary type Thermostat provided to take care of temperature overshoots & in case the PID Controlling system fails.

MODEL	WORKING SPACE W x D x H	CAPA CITY (LTRS)	WATTS	SHELVES	STANDARD / GMP	
					THERMO STATIC	DIGITAL
QS-HAO-45L	14"x14"x14"	45 LTRS	1500	2 NOS.		
QS-HAO-95L	18"x18"x18"	95 LTRS	2000	3 NOS.		
QS-HAO-125L	18"x18"x24"	125 LTRS	2500	3 NOS.		
QS-HAO-224L	24"x24"x24"	224 LTRS	3000	3 NOS.		
QS-HAO-250L	24"x18"x36"	250 LTRS	3000	3 NOS.		
QS-HAO-325L	24"x24"x36"	325 LTRS	3500	4 NOS.		

Optional Accessories:

PC/Printer Interface : Datalogger with or without software is provided.

**NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.
ON SITE VALIDATION CHARGES WILL BE EXTRA AS APPLICABLE.**

*** Customize Size and Configuration possible ***

Laboratory Oven - (Bottom Heater Type)

- Double wall construction with Inner chamber made of Stainless Steel – 304 Grade
- Exterior of CRCA steel with powder coat finish.
- High density glass wool insulation between walls to prevent heat dissipation.
- Heating elements are made of high grade Nichrome wire and placed at the bottom.
- Temperature Range: 5°C above ambient to 200°C
- Digital Temperature controlled by Capillary Thermostat with +/- 2°C Accuracy.
- Gravity convection & Shelves are made of Galvanized wire mesh.
- Operates on 230 Volts AC Single phase 50 Hz.



MODEL	WORKING SPACE W x D x H	CAPACITY (LTRS)	WATTS	SHELVES	STANDARD / GMP	
					THRMO STATIC	DIGITAL
QS-LO-27	12"x12"x12"	27 LTRS	750	1 NOS.		
QS-LO-45	14"x14"x14"	45 LTRS	1000	2 NOS.		
QS-LO-90	18"x18"x18"	90 LTRS	1500	3 NOS.		
QS-LO-120	18"x18"x24"	120 LTRS	2000	3 NOS.		
QS-LO-220	24"x24"x24"	220 LTRS	2500	3 NOS.		
QS-LO-250	24"x18"x36"	250 LTRS	2500	3 NOS.		
QS-LO-325	24"x24"x36"	325 LTRS	3000	4 NOS		

Optional Accessories:

A)PID Temperature Controller with timer of 999 minutes

PC/Printer Interface : Datalogger with or without software is provided.

Note .Air circulation is recommended to achieve better Temperature uniformity across the chamber

**NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.
ON SITE VALIDATION CHARGES WILL BE EXTRA AS APPLICABLE.**

*** Customize Size and Configuration possible ***

High Temperature Oven

- Used for Pre-heating, Drying, Sterilizing, Baking, Aging etc.
- Triple walled in construction. Inner chamber made of Stainless Steel – 304 Grade & Exterior Heavy gauge CRCA steel with powder coat finish.
- Interior made of Stainless Steel – 304/316 grade and Exterior of Stainless Steel 304 grade matt finish in all GMP MODELS.
- High quality compressed 100 mm Glass wool insulation between walls to prevent heat loss.
- Insulated rigid door fitted with Heavy duty hinges & Ball catch locking system.
- Asbestos rope as a perfect door sealant.
- Forced air through Dynamically balanced Fan driven by Heavy Duty Motor fitted in the centre on top of the oven.
- Incoloy sheathed Tubular Air Heaters provided on the side walls of the chamber.
- Left & Right sides of the inner chamber are duly perforated for proper Air Circulation & to maintain uniform temperature within the chamber.
- Temperature controlled by Dual Display Microprocessor based PID Temperature Controller & Cr/Al Thermocouple sensor.
- Available with removable SS Rod shelves.
- Temperature Range: +5 °C. from ambient to 400°C.
- Temperature Accuracy: $\pm 2^{\circ}\text{C}$ or better.
- Operates on 230 Volts AC Single phase 50 Hz. (32 amp.socket is required)



MODEL	CHAMBER SIZE W x D x H	WATTS	NO OF SHELVES	STANDARD / GMP	
				THERMOSTATIC	DIGITAL
QS-HTO-01	14"x14"x14"	3000	2		
QS-HTO-02	18"x18"x18"	4000	3		
QS-HTO-03	18"x18"x24"	6000	3		
QS-HTO-04	24"x24"x24"	7500	3		
QS-HTO-05	24"x24"x36"	9000	4		

Optional Accessories:

PC/Printer Interface : Datalogger with or without software is provided.

**NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE .
ON SITE VALIDATION CHARGES WILL BE EXTRA AS APPLICABLE.**

*** Customize Size and Configuration possible ***

Vacuum Oven - Round, Rectangular Models

- Double Wall Construction, Inner chamber made of Stainless Steel- 304 grade with Exterior CRCA Steel with Powder coat finish.
- Inner made of Stainless Steel – 316 grade and Exterior of Stainless Steel - 304 grade in GMP MODEL.
- Gap between the two walls filled with high density low thermal mass glass wool insulation to minimize the skin temperature.
- Vacuum levels are controlled up to -760 MM/Hg.
- Food grade Silicon door gasket and positive door latch assures tight seal at all vacuum levels.
- Toughened glass window allows clear observation of load.
- Two stop cocks are fitted on the side of Oven. One stop cock is continuously connected to the Vacuum Pump and the second one is used to release the Vacuum or for purging inert gases inside the Chamber.
- Perforated Stainless Steel trays.
- Heating element made of best quality 80:20 Nichrome wire is wound on the outer surface of the inner chamber.
- Temp Range : 50°C to 200°C.
- Temperature controlled by Dual display Microprocessor based PID Temp. Controller & PT – 100 Sensor with $\pm 3^{\circ}\text{C}$ accuracy.
- Operates on 230 Volts AC Single phase 50 Hz.



VACUUM OVEN – ROUND MODELS

MODEL	CHAMBER SIZE	RATING WATTS	TRAYS
QS-VO-R-01	9" DIA x 12" DEPTH	700 W.	2 NOS.
QS-VO-R-02	12" DIA x 15" DEPTH	950 W.	2 NOS.
QS-VO-R-03	15" DIA x 18" DEPTH	1100 W.	3 NOS.

VACUUM OVEN – RECTANGULAR MODELS

MODEL	CHAMBER SIZE W x D x H	RATING WATTS	TRAYS
QS-VO-RT-01	8" X 8" X 12"	1000	2 NOS.
QS-VO-RT-02	12" X 12" X 12"	1200	2 NOS.
QS-VO-RT-03	12" X 12" X 16"	1750	2 NOS.
QS-VO-RT-04	14" X 14" X 20"	2000	3 NOS.
QS-VO-RT-05	18" X 18" X 24"	2250	3 NOS.



- Optional Accessories:**
- 1) Digital Vacuum Oven
 - 2) Digital Controller with timer
 - 3) Datalogger with or without software is provided.

**NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.
ON SITE VALIDATION CHARGES WILL BE EXTRA AS APPLICABLE.**

*** Customize Size and Configuration possible ***

Tray Dryer

- Electrically operated Tray Dryer by specially designed for Pharmaceutical, Food, Chemical & other industries for Economical drying of Granules, Powder, Foods, and Chemical.
- The Construction is double walled, both walls made of CRCA Sheet.
- Interior is painted with Heat Resistant Aluminum Paint to with stand long duration Heating cycles normally required in Industrial applications.
- Exterior body either Powder coated or Painted by long lasting Duco Paint. Gap Between the walls filled with Glass wool insulation to avoid Heat loss.
- Insulated Rigid Doors fitted with Strong Hinges with Ball Cage Locking arrangements. Brackets to support the heavily laden trays on the side of Inner Chamber.
- Air circulated by heavy duty blower to maintain the temperature uniformity throughout the working chamber.
- Tubular Air Heaters placed in the moving air path & Heaters are interlocked with blower.
- Ventilation with adjustable opening on the top facilitates flowing the fumes or vapors produced during the process.
- Control panel having Microprocessor based PID Temperature controller with PT-100 Temperature Sensor (Accuracy $\pm 2^{\circ}\text{C}$), Ammeter, Volt Meter, Phase Indicating lamps, Heater ON Indicators, Booster Heater Switch, Motor Switch/push Buttons.
- Tray Size: 16" X 32" X 1 1/4" (L x W x H)
Supplies without Tray and Trolleys.
Unit works on either 230 V AC Single Phase 50 Hz. OR 415 V AC, 50 Hz.3 Phase Supply.

MODEL	NO. OF TRAYS	CHAMBER SIZE W x D x H	RATING	NO. OF DOORS	NO. OF BLOWER	NO. OF MOTOR
			200°C			
QS-TD-01	12	33" x 18" x 36"	6 KW	2	1	1 X 0.5 HP
QS-TD-02	24	35" x 34" x 36"	15 KW	2	2	2 X 0.5 HP
QS-TD-03	30	72" X 30" X 14"	15 KW	2	2	2 X 0.5 HP



OPTIONAL ACCESSORIES :

- A) Digital Timer
- B) Round cornered Aluminum Tray
- C) Stainless Steel Trays: 304 OR 316 Grade (P.O.R.)
- D) Stainless Steel Inner Chamber (P.O.R.)
- E) Complete Stainless Steel (P.O.R.)

N.B. :48 TRAYS & 96 TRAYS DRYER MODELS ALSO AVAILABLE – (P.O.R.)

NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE .

*** Customize Size and Configuration possible ***

Muffle Furnace

- Furnace finds application in Industries & Laboratories for Ashing, Heat treatment, Ignition test, Gravimetric analysis, Determination of volatile and suspended solids & Cement testing.
- Standard Model & GMP Model
- Heavy gauge Mild Steel construction for durability having powder coating finish.
- Outer Casing Made from Stainless Steel – 304 grade in all GMP Models.
- Un-exposed long lasting KANTHAL A-1 heating elements.
- Light Weight, Ceramic Fiber Wool insulation of High quality to give maximum thermal efficiency.
- Temperature controlled by Dual Display Microprocessor based PID Temp. Controller.
- Temperature Sensor : “K” Type (Cr/Al) Thermocouple sensor.
- Working Temperature Range: 400°C to 900°C
- Temperature Control Accuracy: $\pm 5^\circ\text{C}$ or Better.
- Operates on 230 Volts AC Single phase 50 Hz.



Safety Features : Thermal Safety fuse provided to avoid overheating.

MODEL	MUFFLE SIZE (H X W X D)	CAPACITY IN LTRS	RATING WATTS	STANDARD / GMP
QS-MF-2.30L	4" X 4" X 9"	2.30	2000 W	
QS-MF-4.25L	5" X 5" X 10"	4.25	2500 W	
QS-MF-6.75L	6" X 6" X 12"	6.75	3500 W	
QS-MF-12.00L	8" X 8" X 12"	12.00	4500 W	
QS-MF-23.80L	9" X 9" X 18"	23.80	7000 W	

Standard Model



Optional Accessories: Digital Timer of 999 Minutes

**NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.
ON SITE VALIDATION CHARGES WILL BE EXTRA AS APPLICABLE.**

Portable Autoclave

- All the parts are made of Stainless steel – 304 grade.
- Easily replaceable heater and rubber gasket.
- Pressure gauge and Spring loaded safety valves & steam release / exhaust valve fitted on lid.
- Operates on 230 Volts AC Single phase 50 Hz.
- Supplied without Basket/Dressing Drum.



MODEL	SIZE	RATING	PRICE/EACH
QS-PA	12" X 12"	2000 W.	-

DRESSING DRUM / S.S. BASKET AT EXTRA COST

Bunsen Burner

- Electric Bunsen Burners are designed & used for evaporation of solutions in Crucible, China Dish & can be used for any routine heating application in the laboratory.
- Heating element is fixed within the conically shaped refractory cup.
- Cup is enclosed in a stainless steel casing and well insulated.
- S.S. casing is mounted on a stainless steel body with perforations to prevent temperature rise.
- Temp. Controlled by Energy regulator.
- Operates 230 Volts AC Single phase 50 Hz.



MODEL	RATING	MAXIMUM TEMPERATURE	PRICE/EACH
QS-BB	300 W.	450°C	-

Heating Mantle

- Non rusting Aluminum housing - Powder Coat Finish
- Thick hand knitted fiber glass netting.
- High density glass wool insulation.
- Energy regulator – Power controller.
- Maximum surface temperature 300°C.
- Booster heaters for bigger sizes beyond 10 Ltrs.
- High grade chrome plated Nichrome heating elements.
- Operates on 230 Volts AC Single phase 50 Hz.



MODEL NO.	FLASK CAPACITY	WATTS	STANDARD PRICE (S) PRICE/EACH	SPARE NETTING WITH COIL
QS-HM-100ML	100 ml	60	–	–
QS-HM-250ML	250 ml	150	–	–
QS-HM-500ML	500 ml	200	–	–
QS-HM-1L	1 Liter	300	–	–
QS-HM-2L	2 Liter	450	–	–
QS-HM-3L	3 Liter	500	–	–
QS-HM-5L	5 Liter	600	–	–
QS-HM-10L	10 Liter	2 (Coil) x 600	–	–
QS-HM-20L	20 Liter	3 (Coil) x 600	–	–

NOTE: NO WARRANTY FOR HEATING COIL.

Soxhlet Apparatus (Extraction Unit)

- The complete Soxhlet Extraction Apparatus consists of solvent reservoir extraction assembly with 3, 4 & 6 extraction heaters of various diameters to suit 250 ml flasks to 1 ltr ml flasks.
- Outer casing is made of CRCA Steel - finished with powder coated paint.
- Gap between casing & heater is filled with high grade glass wool insulation.
- Extraction Heaters made of Fiber glass hand knitted netting having Nichrome heating elements.
- Heating Elements having individual Regulators & Pilot Lamps to indicate working of the heaters.
- Control box is away but junctioned with the heating console.
- Complete with Two retort rods, Cross bar.
- Operates on 230 Volts AC Single phase 50 Hz.



Model No.	Flask Capacity	Flask Recesses	No of Regulators & Switch	Total Rating
QS-SA-01-250ML	250 ml	3	3	450 W
QS-SA-02-500ML	500 ml	3	3	600 W
QS-SA-03-1000ML	1000 ml	3	3	900 W
QS-SA-04-250ML	250 ml	4	4	600 W
QS-SA-05-500ML	500 ml	4	4	800 W
QS-SA-06-1000ML	1000 ml	4	4	1200 W
QS-SA-07-250ML	250 ml	6	6	900 W
QS-SA-08-500ML	500 ml	6	6	1200 W
QS-SA-09-1000ML	1000 ml	6	6	1800 W

NOTE: NO WARRANTY FOR HEATING COIL.

Hot Plate / Round & Rectangular

- Plates are in Rectangular/Round Shape.
- Top plate made form Cast Iron with Body made of thick CRCA Steel duly powder coat finished.
- Body & Top plate made of Stainless Steel – 304 grade in Complete S.S. model.
- Long Lasting Nichrome Elements embedded with porcelain insulation beads.
- Temperature controlled by Thermostatic/digital controller/ Energy regulator with pt-100 sensor with Heater Switch & accuracy with digital PID controller is $\pm 3^{\circ}\text{C}$.
- Max. Surface Temp. 300°C .
- Operates on 230 Volts AC Single phase 50 Hz.



	MODEL	PLATE SIZE	WATTS	STANDARD (S)	GMP	OUTER DIMENSION
				ENERGY REGULATOR	THERMO STATIC	
ROUND	QS-HP-R-8	8" Dia	1200			
	QS-HP-R-9	9" Dia	1500			
	QS-HP-R-12	12" Dia	2000			
RECTANGULAR	QS-HP-RT-10X12	10" X 12"	1200			
	QS-HP-RT-10X16	10" X 16"	1500			
	QS-HP-RT-12X18	12" X 18"	2000			
	QS-HP-RT-18X24	18" X 24"	3000			

NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.

*** Customize Size and Configuration possible ***

C.O.D. Digester

- Designed for Chemical Oxygen Demand method for monitoring wastewater influent and effluent, industrial process water in Pollution control Labs.
- Double walled construction. Complete Equipment made from CRCA Steel, Duly powder coat finished.
- Highly insulated with compressed Cerawool between the walls to minimize the heat dissipation.
- Aluminum Block having holes used to hold Glass tubes & is heated to maintain temperature up to 180 °C.
- Dual Display Microprocessor based PID Temp. Controller cum Timer with & PT-100 sensor.
- Timer facility with alarm to set the Digestion period (Refluxing).
- Timer Range : 999 Minutes.
- Temperature Range: 5°C Above ambient to 180°C with Accuracy of $\pm 1^\circ\text{C}$.
- Block Hole Dimension: 40 mm Dia X 80 mm Depth.
- Glass Tube Size : 38 mm Dia.
- Air Condenser : 600 mm Height.
- Operates on 230 Volts AC Single phase 50 Hz.



Available With Below Accessories.

- A) Glass Tubes
- B) Air Condensers
- C) Tube Stand
- D) Condenser Stand

MODEL	CAPACITY	HEATER RATINGS	NO OF TUBES & AIR CONDENSER
QS-COD-01	06 Nos. (3 x 2 Rows)	400 Watts.	06
QS-COD-01	10 Nos. (5 x 2 Rows)	500 Watts.	10
QS-COD-01	15 Nos. (5 x 3 Rows)	750 Watts.	15

Spare Accessories:

- A) C.O.D. Tube – 38 Dia
- B) Air Condenser

NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.

Water Bath - Rectangular (Digital/Thermostatic)

- Double walled with Inner SS- 304 grade & Exterior MS Powder Coat finish.
- High Density glass wool insulation in between the walls to minimize the heat loss.
- Heating by 'U' type SS Immersion Heater.
- Concentric rings to use flask from 50ml to 500ml capacity.
- Digital PID Temperature controller with pt-100 sensor and accuracy is $\pm 1^{\circ}$ C and also if required Capillary thermostat models are provides.
- Temp. Range: 5°C Above ambient to 99°C.
- Operates on 230 Volts AC Single phase 50 Hz.



MODEL	BATH SIZE L X W X D	LID	WATTS
SEE-1WBR	35 X 25 X 10 CM	6 HOLES OF 7.5 CM DIA	1000 W.
SEE-2WBR	40 X 30 X 10 CM	12 HOLES OF 7.5 CM DIA	1500 W.

Optional Accessories:

- A) Dual Display Microprocessor based PID Temp. Controller with PT-100 Sensor with +/- 1°C accuracy
 B) Auto Heater cut-off facility for Low Water Level.

NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.

* Customize Size and Configuration possible *

Water Bath-Round

- Inner tank made of Stainless Steel – 304 grade & Exterior made of CRCA Steel -Powder coat finish.
- Inner tank & Body made of Stainless Steel –304 grade in complete SS Model.
- Heating is done by SS Immersion Heater.
- Walls contain High density glass wool insulation to minimize the heat loss.
- Temperature controlled by Capillary Thermostat or digital pid temperature controller with pt-100 sensor and accuracy is ± 2 deg.c
- Supplied without lid.
- Temp. Range 5°C Above ambient to 99°C.
- Operates on 230 Volts AC Single phase 50 Hz.

MODEL	CAPACITY	RATING	SIZE
QS-WB-R-01	2 Litre flask	1000 W.	8" X 8"
QS-WB-R-02	5 Litre flask	1500 W.	10" X 10"
QS-WB-R-03	10 Litre flask	2000 W.	12" X 12"
QS-WB-R-04	20 Litre flask	2000 W.	16" X 16"



NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE .

*** Customize Size and Configuration possible ***

Constant Temperature Bath (Circulating Water Bath)

- Double walled, Exterior made of CRCA Steel - Powder coat finished.
- Inner Leak proof tank made of Stainless Steel - 304 Grade.
- High density glass wool insulation to prevent heat loss & ensure constant temperature.
- Pump cum stirring assembly for high accuracy and temperature uniformity.
- Temperature controlled by Dual Display Microprocessor based PID Temp. Controller with PT-100 Sensor & Accuracy $\pm 0.5^{\circ}\text{C}$.
- Temperature Range from 5°C above ambient to 99°C .
- Temperature Uniformity : $\pm 0.5^{\circ}\text{C}$.
- Drainage at the side of the bath is provided as outlet.
- Operates on 230 Volts AC Single phase 50 Hz.
- Supplied without Glass Window.

MODEL	BATH SIZE (L X W X D)		RATING
	INCH	CM	
QS-CTB-01	12" X 10" X 08"	30 X 25 X 20	1500 W.
QS-CTB-01	18" X 12" X 10"	45 X 30 X 25	2000 W.
QS-CTB-01	18" X 14" X 12"	45 X 35 X 30	2500 W.

Optional Accessories:

- A) Digital Timer with Temp. Controller of 999 minutes
 B) External Recirculation - C.Glass Window P.O.R.

NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE .

*** Customize Size and Configuration possible ***

High Temperature Oil Bath

- Oil baths are ideal for reactions, extraction, analysis & other lab tests.
- Double walled in construction.
- Leak proof argon welded Inner made of Stainless Steel – 304 grade & Exterior made of CRCA Steel -powder coat finish.
- Inner tank of Stainless Steel 304/316 grade & Body made of Stainless Steel – 304 grade Matt finished.
- Walls contain High density glass wool insulation to minimize the heat loss.
- Temperature controlled bY PID temperature controller with pt-100 sensor +/- 2°C accuracy and also we provides Capillary thermostatic.
- Temp. Range 5°C Above ambient to 250°C.
- Supplied without lid.
- Operates on 230 Volts AC Single phase 50 Hz.



MODEL	FLASK CAPACITY	RATING	WORKING SIZE Dia x Ht	STANDARD PRICE/ EACH	GMP PRICE/EACH
				THERMOSTATIC	DIGITAL
QS-OB-1L	1 Ltr	1000	7" X 5"	–	–
QS-OB-2L	2 Ltr	1000	8" X 6"	–	–
QS-OB-3L	3 Ltr	1500	9" X 7"	–	–
QS-OB-5L	5 Ltr	2000	11" X 9"	–	–
QS-OB-10L	10 Ltr	2000	13" X 11"	–	–
QS-OB-20L	20 Ltr	2500	15" X 13"	–	–

NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE .

*** Customize Size and Configuration possible ***

Viscosity Bath

- Used for Determination of Viscosity of Fuels, Oils & Lubricants & Petrochem Raw Materials at constant temperatures
- Double walled, Exterior made of CRCA Steel - Powder coat finished.
- Inner Leak proof argon welded tank made of Stainless steel – 304 Grade.
- High density glass wool insulation to prevent heat loss & ensure constant temperature.
- Perfectly sealed Toughened glass window for clear visibility.
- Pump cum Stirring assembly for High accuracy and temperature uniformity.
- Illumination by Fluorescent tube/lamp for clear visibility.
- Temperature controlled by Dual display Microprocessor based PID Temp. Controller with PT-100 Sensor.
- Temperature range from 5°C above ambient to 95°C.
- Control Accuracy: $\pm 0.5^\circ\text{C}$.
- Temperature controller resolution: 0.1°C .
- Drainage at the side of the bath is provided as outlet.
- Operates on 230 Volts AC Single phase 50 Hz.



MODEL	VISCOMETER ACCOMMODATION	BATH WORKING SIZE L x W x D	RATING
QS-VB-01	4 VISCOMETERS	10" x 9" x 14"	1500 W.
QS-VB-02	6 VISCOMETERS	14" x 9" x 14"	2500 W.

Optional Accessories:

A) Bakelite Viscometer Clamp Holder

B) Special application accuracy of 0.01°C Indicating Controller

Note: Cooling models for below ambient set points are also available

NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.

Shaking Water Bath

- 230 Volts AC Single phase 50 Hz. Hinged Pyramid shape lid provided avoids Evaporation of water and makes condensed water to fall back in the bath.
- Shaking tray consist of Lotus clamps to hold Erlenmeyer flasks.
- Shaking mechanism comprises of Variable speed PMDC geared motor fixed on right side & coupled to the shaking tray which shakes linearly
- Shaking stroke : 25 mm
- Shaking speed can be controlled by means of Electronic Speed Controller cum Digital RPM Indicator between 50 RPM to 150 RPM.
- Temperature controlled by Dual Display Microprocessor based PID Temperature controller & PT – 100 Sensor.

Temperature Range : 5° C above ambient to 95° C with Accuracy of $\pm 1^\circ$ C or better.
- Operates on 230 Volts AC Single phase 50 Hz..



MODEL	BATH SIZE L X W X D	CAPACITY	WATTAGE	MAXIMUM SHAKING CAPACITY
QS-SWB-01	16" X 12" X 10"	100 MI X 12 Nos.	1000	1.5 Ltrs.
		250 MI X 6 Nos.		
QS-SWB-02	18" X 14" X 10"	500 MI X 6 Nos.	1500	2 Ltrs.
QS-SWB-03	20" X 16" X 10"	250 MI X 12 Nos.	2000	3 Ltrs.

Optional Accessories:

A) Digital Timer of 999 Minutes for Timed shaking process

NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.

*** Customize Size and Configuration possible ***

Water Bath-Serological

- Seriological water bath uses include tissue culture applications, enzyme reaction studies, growth observation studies, coliform determinations and fermentation analysis.
- Pyramid shape lid provided avoids evaporation of water and makes condensed water to fall back in the bath.
- Inner tank made by SS-304 and outer body by MS powder coated.
- inner and outer we provided ss-304 and ss-316 for GMP models.
- Heating is done by U shaped immersion heater double walls construction made in it. glasswool is filled in between walls minimize heat losses.
- Digital Temperature /capillary Thermostatic controlled with +/- 1°C accuracy.
- Operates on 230 Vac, 50 Hz.

MODEL	BATH SIZE	RACKS ACCOMMODATE	RATING
QS-WBS-01	10" X 7" X 7"	2 RACK	500 W.
QS-WBS-02	14" X 10" X 7"	4 RACK	1500 W.
QS-WBS-03	18" X 12" X 7"	6 RACK	2000 W.

Optional Accessories:

- A) Dual Display Microprocessor based PID Temp. Controller & PT-100 Sensor with +/- 1°C accuracy
 B) Auto Heater cut-off facility for Low Water Level.

NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE .

*** Customize Size and Configuration possible ***

ANTI VIBRATION TABLE

Size :- 900mm L x 750mm D x 900mm H

- Micro balance Top 18mm Thick Jet Black Granite
- supported on frame work made of 40x40x1.6mm Thick
- ERW CRCA Square Tube Coated With epoxy powder
- (70 Micron), And Supplied with 4 Nos vibration dampers. Below
- Granit Top & 4 Nos Leveling + Vibration Dampers Below Leg.
- With 2 Nos Ele.Switch Sockets On Top Portion On Rear Side

Antivibration Table



PORTABLE ANTI VIBRATION STATION

Size :- 530mm L x 530mm D x 110mm H

- Micro balance Top 18mm Thick Jet Black Granite
- Top supported on frame work made of 30x30x1.6mm Thick
- ERW CRCA Square Tube Coated With epoxy powder
- (70 Micron), And Supplied with 4 Nos vibration dampers. Below
- Granit Top .
- Granite Top Size Approximate 53.5 Cm x53.5 Cm

Portable Antivibration Station



**NOTE : IQ/OQ/PQ DOCUMENT CHARGES WILL BE EXTRA AS APPLICABLE.
ON SITE VALIDATION CHARGES WILL BE EXTRA AS APPLICABLE.**



UDYAM REGISTRATION CERTIFICATE



UDYAM REGISTRATION NUMBER	UDYAM-MH-19-0078510				
NAME OF ENTERPRISE	CHROMATOGRAPHY WORLD				
TYPE OF ENTERPRISE *	MICRO (Based on FY 2020-21) (MICRO During FY 2019-20)				
MAJOR ACTIVITY	MANUFACTURING				
SOCIAL CATEGORY OF ENTREPRENEUR	GENERAL				
NAME OF UNIT(S)	S.No. Name of Unit(s)				
OFFICAL ADDRESS OF ENTERPRISE	1 217, CHAMPAKLAL INDUSTRIAL ESTATE, 2ND FLOOR, SION EAST, MUMBAI 400022				
	Flat/Door/Block No.	217	Name of Premises/ Building	CHAMPAKLAL INDUSTRIAL EST	
	Village/Town	MUMBAI	Block	2nd floor	
	Road/Street/Lane	217, CHAMPAKLAL INDUSTRIA	City	MUMBAI	
	State	MAHARASHTRA	District	MUMBAI , Pin 400022	
	Mobile	9594931999	Email:	dhiren@chromatographyworld.com	
	DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE	01/02/2009			
DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS	01/02/2009				
NATIONAL INDUSTRY CLASSIFICATION CODE(S)	S.No.	NIC 2 Digit	NIC 4 Digit	NIC 5 Digit	Activity
	1	25 - Manufacture of fabricated metal products, except machinery and equipment	2599 - Manufacture of other fabricated metal products n.e.c.	25999 - Manufacture of other fabricated metal products n.e.c.	Manufacturing
	2	26 - Manufacture of computer, electronic and optical products	2651 - Manufacture of measuring, testing, navigating and control equipment	26516 - Manufacture of laboratory analytical instruments and miscellaneous laboratory apparatus for measuring and testing such as scales, balances, incubators etc.	Manufacturing
	3	32 - Other manufacturing	3250 - Manufacture of medical and dental instruments and supplies	32502 - Manufacture of laboratory apparatus (laboratory ultrasonic cleaning machinery, laboratory sterilizers, laboratory type distilling apparatus, laboratory centrifuges etc.)	Manufacturing
	4	33 - Repair and installation of machinery and equipment	3319 - Repair of other equipment	33190 - Repair of other equipment	Manufacturing
	5	71 - Architecture and engineering activities; technical testing and analysis	7120 - Technical testing and analysis	71200 - Technical testing and analysis	Services
DATE OF UDYAM REGISTRATION	10/08/2021				

* In case of graduation (upward/reverse) of status of an enterprise, the benefit of the Government Schemes will be availed as per the provisions of Notification No. S.O. 2119(E) dated 26.06.2020 issued by the M/o MSME.

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For any assistance, you may contact:

1. District Industries Centre: MUMBAI CITY (MAHARASHTRA)
2. MSME-DFO: MUMBAI (MAHARASHTRA)

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