



LABORATORY

EQUIPMENT



YORCO
S A L E S P V T . L T D .

**MODEL NO.: YSI-471****YSI TISSUE HOMOGENIZER
HAND OPERATED**

For the reduction of small tissue samples to a homogeneous suspension for pathological, immunological and biochemical studies. It consists of a Teflon pestle mounted on stainless steel rod and replaceable grinding vessel of Borosilicate ground glass for preparation of tissue homogeneities.

Available in following capacities :

Working Capacity: (ml) 5, 10, 30, 50, 100

Spare Glass Tube : (ml) 5, 10, 30, 50, 100

**MODEL NO.: YSI-472****YSI TISSUE HOMOGENIZER**

YSI-472 Description same as above but electrically operated by 1/20 H.P, 4000 rpm highly reliable motor with a chuck to hold the tissue grinder, fitted on a stand and is supplied with a speed regulator.

Suitable to work on 220 Volts, 1 Ph, 50 Hz AC supply.

**MODEL NO.: YSI-474****YSI MICRO TISSUE HOMOGENIZER
DISINTEGRATOR**

—Virtis Type,

Designed to meet the varied homogenizing needs of biological and chemical laboratories. Rapidly rotating razor sharp blades provide fast and thorough reduction of tissues, for preparation of emulsion of difficult solutions etc. Powerful (1/10 hp) high speed upto (10000 rpm) AC/DC motor is mounted above homogenizing flask/bottle. Motor speed is controlled by a speed regulator. The stainless steel shaft with Micro cutting Blades, Micro homogenizing Flask/Bottle for sample of 2 ml to 25 ml, 5 ml to 30 ml, 10 ml to 50 ml. Supplied complete in all respects.

Suitable to work on 220 volts, 1 ph, 50 Hz, AC supply.

Optional Accessories :

- Attachment for 220 ml with set of shaft blade and flask.
- Attachment for 500 ml with set of shaft blade and flask.

MODEL NO.: YSI-475

**YSI TISSUE HOMOGENIZER
ELECTRIC DISINTEGRATOR**

—Virtis Type,
High speed tissue homogenizer is electrically operated by 230 Volts AC/DC, 1/4 H.P, 15000 rpm motor. It has an aerosol assembly of stainless steel which eliminates the hazard of dangerous aerosol homogenizing procedure. The speed is controlled with speed regulator. Complete in all respects with friction free top.

Capacity: 100 ml and 500 ml assembly bottle/flask.



MODEL NO.: YSI-476

YSI TISSUE HOMOGENIZER

YSI-476 Other details as per YSI-475 but with S.S. cup.



MODEL NO.: YSI-507

YSI LABORATORY STIRRER

It is specially designed for Laboratory bench work and has a speed range upto - 4000 rpm. It is fitted with variable speed controller for general purpose every day laboratory stirring work.

The motor is mounted on a stand consisting of metal base which can be placed at any hard working bench of the laboratory at best suited working position. Accurate positioning of stirrer will help reducing noise. The motor position can easily be adjusted on the stand. Fitted with an universal motor 1/20HP, 4000 rpm and electronic regulator. Suitable to work at 220Volt, single phase 50 Hz AC supply.



MODEL NO.: YSI-512

YSI VORTEX MIXER

—Test Tube Mixer,
It is useful for rapidly mixing/agitating solution in test tubes. The vibrating neoprene rubber cup accommodates a variety of sizes of test tube/flasks.

Short, rapid, eccentric stroke, motor driven Neoprene cup imparts vigorous agitation to tubes or small flask held in or against it. Particularly efficient for dislodging sediments from tips of centrifuge tubes. The housing is 150 x 150mm approx. The Vacuum Rubber pads are provided at bottom. Machine supplied complete with speed control, cord and ON/OFF switch and indicator to work on 220V, 1 Ph, 50 Hz. AC supply.



MODEL NO.: YSI-518

YSI ROTARY SHAKER



—Heavy Duty, Continuous Rating with Speed Controller. For shaking solution in Glass Flasks in Research Institutions, Workshops, Chemical & Agriculture Laboratories. It is a compact unit. The heavy platform is fitted With rubber discs to hold Erlen Meyer Flasks for 50 ml. to 1000 ml. capacity. The platform is mounted on ball bearing crankshafts to give an orbital circular motion to flasks. The diameter of the orbit is approximately 2". The entire assembly is mounted on a metal casing which houses a motor coupled by means of V Belt with pitch pulley. The motor supplied is of CROMPTON / GE or equivalent make.

Available in following sizes :

65 cm x 65 cm	36 flask of 250 ml	0.2 hp
100 cm x 100 cm	81 flask of 250 ml	1.0 hp
105 cm x 105 cm	81 flask of 500 ml	1.0 hp
105 cm x 105 cm	49 flask of 1000 ml	1.0 hp

MODEL NO.: YSI-530

YSI VACUUM PUMP



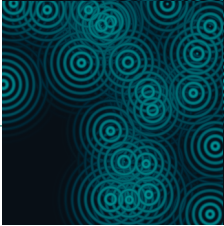
Range of oil sealed single and double stage high vacuum rotary pumps. These are designed to be easy to install and maintain. Quite and reliable in performance. These can be used for many Laboratory & Industrial applications without accessories. Vacuum pumps are V Belt driven and fitted with capacitor start Crompton/GE or equivalent electric motor mounted on base plate. All the parts are precisely machined, and assembled to close tolerance for high efficiency. Pumps are supplied either single stage or double stage. Single stage pump creates maximum vacuum of 0.01 mm Hg. column and double stage creates 0.001 mm Hg.

Suitable to work on 220 V, 1 Ph, 50 Hz AC Supply. Following is the range of Vacuum Pumps (Single/Double Stage)

Capacity	Motor Rating	Capacity	Motor Rating
25 lt./mt	0.25 hp	150 lt./mt	0.5 hp
45 lt./mt	0.25 hp	200 lt./mt	1.0 hp
75 lt./mt	0.25 hp	300 lt./mt	2.0 hp
100 lt./mt	0.5 hp		

Optional Accessories :

- High Vacuum Oil, Vacuum gauge and regulator, Moisture trap.



MODEL NO.: YSI-532

YSI MUFFLE FURNACE RECTANGULAR



Muffle Furnaces are designed to meet the requirements of varied customers in Educational Research and Industrial fields. The casing is made of thick mild steel sheet reinforced with iron angles, riveted at joints. Heating elements are made of Kanthal wire wound externally on the muffle and embedded in best quality high temperature embedding cement. Maximum temperature upto 1200°C or 1000°C, working temperature 1100°C or 900°C, controlled by Sunvic simerstat energy regulator fitted in front of the furnace with two indicating lights and indicating type pyrometer, thermocouple, silver fuse and lead wire Light weight, with ceramic wool insulation.

Suitable to work on 220 V, single phase, 50 Hz, AC supply.

Available in following Temperature Ranges :

Working	Maximum
900°C	1000°C
1100°	1200°C

Available in following sizes :

- Solid State Temp. Controller Cum Digital Display in lieu of energy regulator & pyrometer.
- Micro processor based PID temp. controller cum indicator in lieu of energy regulator & pyrometer

MODEL NO.: YSI-535

YSI SEITZ FILTER

To remove submicron particles for bacteriological and other, laboratory work. Made of Stainless Steel. Filter Pads (not supplied and used as the filtering medium) can be used until clogged but can not be regenerated.

Filters are designed for different capacities. Screw cap has air tight fitting. For use with pressure vacuum or gravity with the top closed and with either gravity or vacuum with top removed. Body is clamped tightly on the fitter holder by bolts and wing nuts. Supplied complete but without filter pads.

Pad Size	Capacity
3 cms	50 cc
6 cms	100 cc
7.5 cms	250 cc
7.5 cms	500 cc
14 cms	1000 cc

Available in following sizes :

Muffle size (inside)	Rating
• 100x100x225mm	1.5 KW
• 150 x 150 x 300 mm	3.5 KW
• 125 x 125 x 250 mm	2.5 KW
• 200 x 200 x 300 mm	5.0 KW
• 125 x 125 x 300 mm	3.0 KW
• 175 x 175 x 475 mm	5.0 KW





MODEL NO.: YSI-551

YSI FERMENTOR

The Fermentor vessel is made of Stainless steel and heated through steam heating system with electric element. Having opening lid on the top of vessel suitable for cleaning and filling purpose. The vessel fitted with pressure gauge pressure release valve disable at 17 psi pressure. Provided with in line filter for sterile incoming and outgoing air. Vessel is also provided with built in cooling coil for inlet and outlet of cold water.

The inoculation port and sampling ports, one port fitted with temperature gauge. The entire fermentor assembly is

covered with steam jacket having safety valve and auto pressure cutoff device.

Working capacity	:		
Working Capacity	:	15Lit.	10Lits
Overall capacity	:	70Lit.	50Lits
Working capacity	:	140Lit.	100Litrs.
Overall capacity	:	280Lit.	200Litrs.

Optional Accessories :

- Oil free compressor for supply of Air to fermentor for shaking.

MODEL NO.: YSI-555
YSI AUTOMATIC FERMENTOR

Basic equipment with autoclavable glass vessel Agitation, Aeration & Digital temperature control with required heating & cooling arrangements. The system (unit) will have facility for firm ware up grading. Working volume: 600 ml / 5 Ltrs., Total Volume: 7 Ltrs., Stirrer : Stirrer shaft with single mechanical seal or magnetic

Culture Vessel: Consists of suitable sparger and overhead aeration sparging arrangement via. 0.2 micron sterile filter for cell culture application and ring sparger for microbial fermentation with toolkit and one set of spare 'O' rings for culture vessel.

Temperature : 8°C, TO 80°C.

Temperature controlled by thermostat with two temperature sensor, one to measure the jacket temperature and second sensor to measure the temperature of jacket liquid to ensure precise temperature control with rapid heating & cooling rates with circulation pump.

Agitation System: Agitation system with maintenance free servomotor (20 to 1500 RPM) user configurable RPM.

Controls :

- (a) pH Amplifier PID type indicating controller with digital readout.
- (b) Steam sterilizable / autoclavable.
 - Antifoam controller with stainless steel probe.
 - Peristaltic pumps at each, one for antifoam
 - Dissolved Oxygen Amplifier, PID indicating controller with sterilizable electrode
 - Two External variable speed pumps for substrate feed.
 - Continuous culture control system with 2 peristaltic pumps one for feeding and one for harvesting
 - All the above controllers are microprocessor based and integral independent connection to a serial printer through RS 232 connection.



Optional Accessories :

- Chiller for below ambient temperature operation.
- Air compressor with filter & accessories .
- Cartridge disposable Filters (set of 10 nos.)
- Gas mixing unit for 3 gases with individual Rotameter, pressure gauge and needle valves, housed in a single cabinet.
- Basic unit itself include in built gas mixing of Air
- Oxygen, Nitrogen and carbon dioxide controlled via. PH & DO controller, two Rota meter, to control the flow of air, O₂, N₂, CO₂ and one Rota meter to control the flow of overlay.
- Computer control software with computer, and printer RS-232 balance interface and suitable window based software through.



STERI CLEAN



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