



supertek

CHEMISTRY & LAB SUPPLIES

Edition 2017

Company Profile

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We have been working as OEM for some of the best known names in our trade. We have also been successfully participating in global tenders financed by World Bank, Asian Development Bank, African Development Bank and other leading international financial institutions, either on our own or in collaboration with our representatives.

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We are proud of our sincere efforts in the service of science education and our endeavor to continuously make improvements and to offer our quality products at competitive prices.

We shall be glad to receive inquiries for any products not listed in the catalogue.



Shiv Dial Sud & Sons



23, Industrial Estate
Ambala Cantt - 133 006, INDIA



Unit-I : 88 - 89, Industrial Estate, Ambala Cantt.
Unit-II : 54, Industrial Estate, Ambala Cantt.
Unit-III : 333, HSIIDC, Saha, Ambala



+91-171-2699537 / 2699297



info@shivsons.com



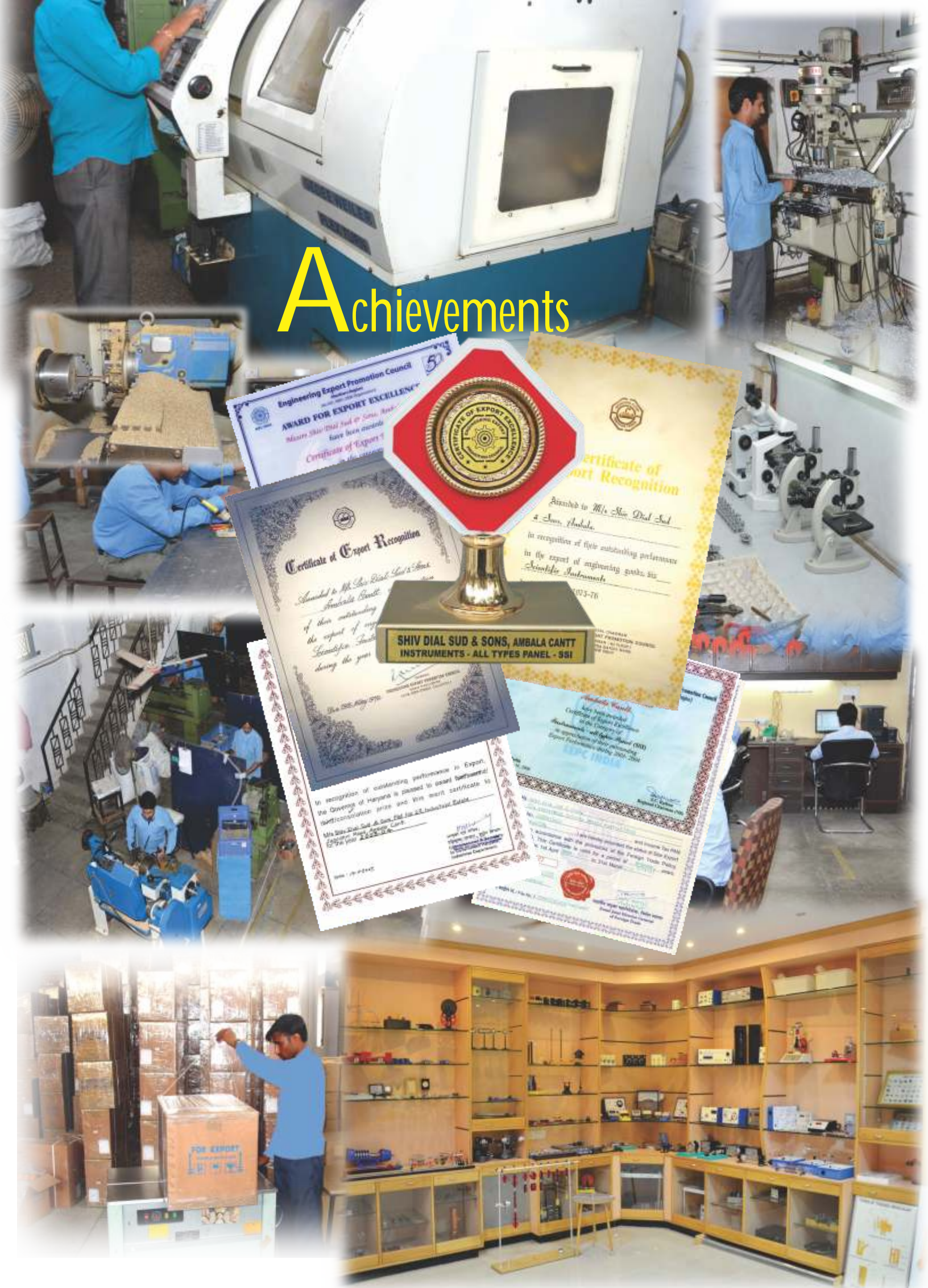
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SHIV DIAL SUD & SONS, AMBALA CANTT
INSTRUMENTS - ALL TYPES PANEL - SSI

In recognition of outstanding performance in Export, the Government of Haryana is pleased to award Best Exporter/Export Promotion prize and Vire merit certificate to Mr. Shiv Dial Sud & Sons, Ambala for All Industrial Export during the year 2002-2003.

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ABSORPTION TUBE, CALCIUM CHLORIDE

Borosilicate Glass, straight form, with one bulb.

	Length, mm	Diam., mm
CH10010/1	100	12
CH10010/3	120	15
CH10010/5	150	18

ABSORPTION TUBE, CALCIUM CHLORIDE

Borosilicate Glass, U form.

	Length, mm	Diam., mm
CH10012/1	100	12
CH10012/3	120	15
CH10012/5	150	18



ABSORPTION TUBE, CALCIUM CHLORIDE

Borosilicate Glass, with side arms.

	Length, mm	Diam., mm
CH10015/1	100	12
CH10015/5	120	15
CH10015/7	150	18



ABSORPTION TUBE, CALCIUM CHLORIDE

Borosilicate glass, with side arms. Limbs closed by hollow glass stoppers.

	Length, mm	Diam., mm
CH10018/1	100	12
CH10018/3	125	20
CH10018/5	150	25



ASPIRATOR BOTTLE

Glass, with ground stopper and tubule.

	Capacity, Liter
CH10020/1	1
CH10020/2	2
CH10020/4	2.5
CH10020/6	3
CH10020/8	5



ASPIRATOR BOTTLE

Borosilicate glass, with socket at bottom.

	Capacity, ml
CH10022/1	250
CH10022/3	500
CH10022/5	1000

ASPIRATOR BOTTLE

Borosilicate glass, with interchangeable stopper and stopcock.

	Capacity, Liter
CH10024/1	1
CH10024/2	2
CH10024/3	5

ASPIRATOR BOTTLE, POLYPROPYLENE

Polypropylene, autoclavable.

The leakproof spigot screwed to the bottle body requires only a half turn to open or close. Threads should be totally disengaged before Autoclaving.

	Capacity, Liter
CH10026/10	2
CH10026/1	5
CH10026/3	10
CH10026/5	20



AUTOCLAVE, GAS

Suitable for natural/bottled gas. The container is made of seamless aluminium body and lid. A rubber gasket makes the lid and body airtight with help of tightening bolts and nuts. Lid is fitted with pressure gauge and double safety valve. Pressure 15 psi.

	Diam., cm	Ht., cm
CH10027G/1	30	30
CH10027G/3	30	38

**AUTOCLAVE, ELECTRIC**

Made of seamless aluminium body and lid. The lid is fitted with pressure gauge and double safety valve. Fitted with 2 kW heater. Pressure 15 psi

	Diam., cm	Ht., cm
CH10027E/1	30	30
CH10027E/3	30	38

**AUTOCLAVE, PORTABLE SINGLE DRUM**

- Portable single drum Autoclave, highly efficient apparatus designed to meet the requirements of Labs.
 - Very simple to operate and economical to use.
 - The container is seamless made of thick stainless steel.
- CH10027P

**AUTOCLAVE**

Stainless Steel

- Stainless steel seamless sterilizer.
 - Thermally insulated and vulcanized polychloroprene (Synthetic Rubber) gasket.
 - Easy and safe handling.
 - Works on any fuel e.g. charcoal, kerosene, Gas or electricity.
 - Size 350 mm (diam.) x 300-325 mm (height)
- CH10027S

**BALANCE, BERANGER**

Beam with central knife edge and pointer, with two pans and heavy base.

	Capacity, Kg
CH10028/1	2
CH10028/3	5
CH10028/5	10

BALANCE, ROBERVAL

Simple Model, body made of steel plate and pans are of metal.

	Capacity, Kg
CH10030/1	2
CH10030/3	5





BALANCE, DOUBLE BEAM

Two pan balance for accurate and rapid weighing upto 2 kg. The balance has two beams with centre reading sliding masses. These weigh up to 0-200 gm x 10 gm & 0-10 gm x 0.1 gm, total 210 gm. Supplementary masses extend the range to 2 kg. With spring loaded zero adjuster and magnetic damping. With stainless steel pans of 150 mm diameter. CH10031

BALANCE, COMPRESSION

Wide view dial, large pan and plastic moulded body.

	Capacity
CH10034/1	500 gm x 2 gm
CH10034/3	1 Kg x 5 gm



BALANCE, PHYSICAL

General purpose balance for student use. Cast alloy beam fitted with balancing nuts, agate bearings and knife edges. The hangers have double hooks for specific gravity experiments. Detachable nickel plated brass pans, enamelled central pillar, and plumb line, mounted in polished wooden case with levelling screws. Capacity 250 gm, sensitivity 2 mg. CH10035



BALANCE, SINGLE PAN

Single pan balance, cap. 311 gm x 10 mg with 4 beams each provided with a non-removable slider and graduated 0 to 200 x 100g, 0 to 100 x 10g, 0 to 10 x 1g and 0 to 1g x 10 mg respectively. Additional masses are not required. With zero adjustment and stainless steel pan 90mm diameter with 2 pouring spouts and handle. A platform housed in the base can be used for density determination. CH10032

BALANCE, CHEMICAL

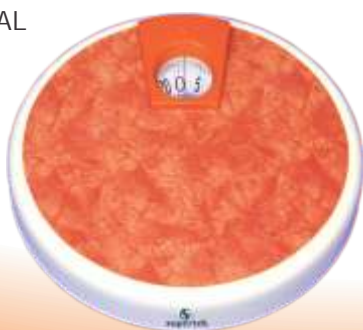
Advanced, Beam engraved with a rider scale, for use with 10 mg rider, balancing nuts, agate bearings and knife edges. Fitted on a wooden board in a polished wooden case. Capacity 200 gm, sensitivity 0.5 mg. CH10036



BALANCE, TRIPLE BEAM CH10045
SEE PAGE NO.4

PLATFORM SCALE, PERSONAL WEIGHING MACHINE

Range 125 x 0.5 kg. CH10033



**BALANCE, ANALYTICAL**

Short triangular beam, with rider scale. The beam supports are extended and relieve the agate knife edges when at rest. Pillar is highly finished and removable pans are suspended by stirrups from double hooks. The balance is mounted in a polished wooden case, fully glazed. Complete with rider slide, leveling screws.

Capacity 200 gm, sensitivity 0.1 mg.

CH10037

BALANCE MASS SET, PHYSICAL

Brass, chrome plated, in case with lid, complete set with forceps and light metal fractional weights.

CH10038/1	1 mg to 50 gm
CH10038/3	1 mg to 100 gm
CH10038/5	1 mg to 200 gm
CH10038/7	1 gm to 1000 gm

**BALANCE MASS SET, ANALYTICAL**

Brass, chrome plated, complete set with light alloy fractional weights, 10 mg rider and forceps, in a nicely polished case. Accuracy class B.

CH10042/1	1 mg to 50 gm
CH10042/3	1 mg to 100 gm
CH10042/5	1 mg to 200 gm

**BALANCE, TRIPLE BEAM**

Single pan, to weigh up to 2610 gm. The balance has three beams with sliding masses giving weighing capacity of 610 gm which can be increased to 2610 gm with three supplementary masses. Stainless steel pan of 150 mm diam. Provided with spring loaded zero adjuster and magnetic damping for rapid weighing.

CH10045	Beams	0-500 x 100 gm
		0-100 x 10 gm
		0-10 x 0.1 gm

**BALANCE, LEVER, DUAL SCALE**

A simple single pan balance with two ranges 0-250 x 1 gm and 0-1000 x 5 gm. Die cast aluminum alloy frame, other parts are chrome plated. With leveling screw to set zero and a pointer for reading without parallax error. With detachable pan having a hook for experiments on specific gravity.

CH10060



BALANCE, TABLE TOP

- High resolution upto 30,000 counts
- Easy to read High bright red LED display
- Built in rechargeable battery for continues use
- Rust proof stainless steel platter
- Fast weighing response time
- Overload protection design
- Auto Power Off, Battery Indicator
- RS-232C Interface (Optional)

	Capacity, kg	Readability, gm	Pan size, mm
CH10062/1	3	0.1	210 x 260
CH10062/2	10	0.5	210 x 260
CH10062/3	30	2	210 x 260
CH10062/4	30	1	210 x 260

BALANCE, TABLE TOP

- High resolution up to 30,000 counts
- Easy to read High bright red LED display
- Built in rechargeable battery for continues use
- Rust proof stainless steel platter
- Fast weighing response time
- Overload protection design
- Auto Power Off, Battery Indicator
- RS-232C Interface (Optional)

	Capacity, Kg	Readability, gm	Pan size, mm
CH10064/1	10	0.1	230 x 320
CH10064/2	20	0.5	230 x 320
CH10064/3	20	0.1	230 x 320
CH10064/4	30	0.5	230 x 320
CH10064/5	30	0.1	230 x 320



BALANCE, ECONOMIC COMPACT

- Compact and space saving
- High quality LED / LCD Display
- Simple Battery Operation (Six AA size)
- DC Adaptor available is it optional
- Auto zero tracking
- Low battery indicator
- Auto calibration with External Weight
- Stable indicator accurate result

	Capacity, gm	Readability, gm	Pan size, mm
CH10066/1	300	0.01	Dia. 120
CH10066/2	600	0.1	155 x 155
CH10066/3	3000	0.5	155 x 155
CH10066/4	6000	1	155 x 155



BALANCE, PRECISION

- 2,00,000 Internal Resolutions
- Multifunction Weighing Units
- RS 232 Interface Available
- Overload Protection Design
- Auto Zero tracking, Low Battery Indicator
- Auto Calibration with External Weight
- Easy to read LCD Display with back light
- S.S. Weighing Pan, Level indicator, Adjustable Fit
- High Resolution, Quick Weighing, Accurate Result
- In built rechargeable battery for continues use

- Response Time : 3 - 4 Sec.
- Calibration : Automatic External
- Tare Range : Full
- Operating Temp. : 10°C to 40°C
- Housing Dimension : 316 x 210 x 308 mm
- Weight Approx. : 6 kgs.



	Capacity, gm	Readability, gm	Repeatability, gm	Linearity, gm	Pan size, mm
CH10068/1	100	0.001	0.001	0.002	80
CH10068/2	200	0.001	0.001	0.002	80
CH10068/3	300	0.001	0.001	0.002	80
CH10068/4	2000	0.01	0.01	0.02	180 x 170

BALANCE, HIGH PRECISION

- Automatic External Calibration
- Multifunction Weighing Units
- A built in under hook for below weighing
- Easy to read VFD Display
- Density measurement (Optional)
- Standard RS 232 C Interface
- High Resolution, Quick Weighing1
- Based on E.M.F.C. Technology
- Percentage (%) Weighing
- Tare range upto max.
- Capacity of the Balance
- Counting Weighing Mode
- Accurate Result

- Response Time : 3 - 4 Sec.
- Calibration : Automatic External
- Tare Range : Full
- Operating Temp. : 10°C to 40°C
- Housing Dimension : 330 x 200 x 100 mm
- Data Output : RS232C
- Weight Approx. : 8.5 kgs.



	Capacity, gm	Readability, gm	Repeatability, gm	Linearity, gm	Pan size, mm
CH10070/1	2000	0.01	± 0.01	± 0.02	150
CH10070/2	3000	0.01	± 0.01	± 0.02	150
CH10070/3	4000	0.01	± 0.01	± 0.02	150
CH10070/4	5000	0.01	± 0.01	± 0.02	150



BAROMETER, ANEROID, WALL TYPE

100 mm dial graduated from 28" to 31" and 940 to 1040 millibars, with an index pointer, with transparent top cover, mounted in plastic case 160 mm diam approx.
CH10073



BAROMETER, ANEROID, DEMONSTRATION

100 mm dial graduated from 28" to 31" and 940 to 1040 millibar, with an index pointer, demonstration type, in transparent plastic case with pressure pump. For educational demonstration purpose only.
CH10075

BAROMETER, FORTIN'S

For school/college laboratories. Nominal 6 mm bore glass tube. With engine divided dual scales 675 to 820 x 1 mm Hg and 26.5 to 32.5 x 0.05 inch Hg. Verniers reading 0.05 mm and 0.002 inch. Mounted on polished wooden board for wall mounting. Supplied without mercury but with instructions for filling.
CH10076



BASINS, EVAPORATING

Porcelain, round form, with lip, both sides glazed. For bigger dishes, glazed inside and partially outside.

	Diam., mm	Capacity, ml
CH10110/1	25	8
CH10110/2	40	15
CH10110/3	50	20
CH10110/4	60	40
CH10110/5	75	100
CH10110/6	85	125
CH10110/7	100	175
CH10110/8	110	275
CH10110/9	125	450
CH10110/10	140	500
CH10110/11	150	850
CH10110/12	175	1300
CH10110/13	200	1700
CH10110/14	250	3300
CH10110/15	300	4500
CH10110/16	350	7500
CH10110/17	400	14000



BASINS, EVAPORATING

Porcelain, flat form, with lip, both sides glazed

	Capacity, ml	Diam., mm	Ht., mm
CH10115/1	35	65	16
CH10115/2R	50	75	20
CH10115/3	80	85	22
CH10115/4	100	100	23
CH10115/5R	200	110	34
CH10115/6	300	150	29



BASIN, EVAPORATING (SHALLOW FORM)

Evaporating Dish, with lip, shallow form, rounded bottom edge, vertical sides, glazed inside and outside except for bottom and rim.

	Capacity, ml	Ht., mm	Diam., mm
CH10117	100	32	77

**BASIN, FUSED SILICA/QUARTZ**

Round bottom, with spout, translucent.

	Ht., mm	Diam., mm	Capacity, ml
CH10119/1	23	55	20
CH10119/2	27	75	45
CH10119/3	36	94	85
CH10119/4	45	100	100

BASIN, FUSED SILICA/QUARTZ

Deep bottom, with spout, translucent.

	Ht., mm	Diam., mm	Capacity, ml
CH10120/1	18	40	10
CH10120/2	25	50	15
CH10120/3	30	60	45

BASIN, FUSED SILICA/QUARTZ

Flat bottom, with spout, translucent.

	Ht., mm	Diam., mm	Capacity, ml
CH10121/1	15	69	20
CH10121/2	15	79	25

**BATH, SAND**

Shallow form, made of thick G.I. sheet.

	Diam., mm
CH10122/1	125
CH10122/2	150
CH10122/3	200

WATER BATH

Hemispherical, made of thick copper sheet, with a set of concentric rings and 2 handles.

	Diam., mm
CH10122H/1	100
CH10122H/2	125
CH10122H/3	150
CH10122H/4	200

**WATER BATH, ELECTRIC**

Aluminium body, concentric rings, with constant level device and 1 kW heater with automatic cut-out, size 145 x 200 mm (Ht x Diam). Complete with connector plug and 1 meter of 3 core cable.

CH10122E

**WATER BATH, RECTANGULAR, ELECTRIC**

Single wall, chamber made of stainless steel, having 75 mm holes and concentric rings at top with tubules for water level arrangement. 1 kW heater with cut-out device. Complete with connector plug and 1 meter of 3 core cable.

CH10122S/1	300 x 250 x 100 mm (6 Hole)
CH10122S/2	425 x 325 x 100 mm (12 Hole)



WATER BATH, RECTANGULAR, ELECTRIC

Double walled, inner chamber of stainless steel, outer made of stove enamelled mild steel. Top has 75 mm holes with concentric rings. Temperature range upto 100°C, accuracy ±1°C, Heater fitted with automatic cut-out device, thermostat, two indicator lights, mains switch. Works on 220-240V, 50 Hz.

CH10123/1	300 x 250 x 100 mm (6 holes)
CH10123/2	425 x 325 x 100 mm (12 holes)



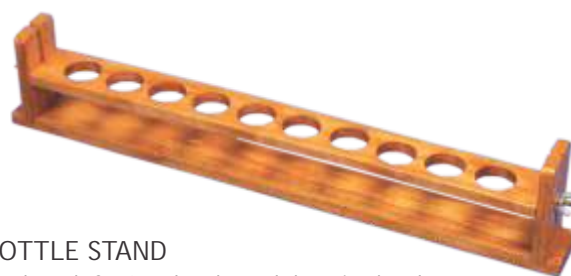
WATER BATH, SEROLOGICAL

Double walled, inner chamber of stainless steel, outer made of stove enamelled mild steel, with insulation in between, Thermostatic temperature control from 5°C above room temperature to 95°C with accuracy ±0.5°C. Bath has a stainless steel dome cover, perforated and removable shelves, drain plug, two indicator lights, thermostat control knob, heater with automatic cut-out. Works on 220-240 V, 50 Hz. With connector plug and 1 metre of 3 core cable. Supplied without racks.

	Inner chamber size, mm
CH10124/1	300 x 250 x 175 (for 2 racks)
CH10124/2	325 x 300 x 175 (for 4 racks)
CH10124/3	450 x 300 x 175 (for 6 racks)

BLOW PIPE

Nickel plated brass, curved head, length 18 cm.
CH10126



BOTTLE STAND

Hardwood, for 30 ml and 60 ml dropping bottle.

CH10128/1	6 holes
CH10128/2	12 holes



BEAKERS

Polypropylene, have excellent clarity and good chemical resistance, raised graduation on outer surface. With spout. Polypropylene.

	Capacity, ml
CH10155/2	25
CH10155/1	50
CH10155/3	100
CH10155/5	150
CH10155/7	250
CH10155/9	500
CH10155/11	1000
CH10155/13	2000
CH10155/15	5000





BEAKERS, TPX

- Manufactured from high purity polymethyl pentene (TPX).
- Tapered stacking style saves space and make it easy to handle.
- All sizes have easy to read silk-screened graduations.
- Precise pouring spouts.
- Can be autoclaved.

	Capacity, ml
CH10157/1	50
CH10157/3	100
CH10157/5	250
CH10157/7	500
CH10157/9	1000
CH10157/10	2000
CH10157/11	5000
CH10157/12	10000

BEAKERS, WITH HANDLE (MEASURING JUGS)

Polypropylene, autoclavable and have non-drip spout. These jugs have raised graduations, provide excellent contact clarity and are provided with excellent thumb grip on handle.

	Capacity, ml
CH10165/1	500
CH10165/3	1000
CH10165/5	2000
CH10165/7	3000
CH10165/9	5000



BEAKERS SET

Available in polypropylene/polycarbonate, these beakers are with screen printed graduation. Set of five beakers (one each of 50, 100, 250, 500 and 1000 ml)

CH10160	Polypropylene
CH10162	Polycarbonate

BEAKERS, WITH HANDLE, TPX

- Manufactured from high purity polymethylpentene (TPX)
- Rectangular handle for easy carrying and pouring
- All sizes have easy to read silk-screened graduations
- Precise pouring spouts
- Can be autoclaved

	Capacity, ml
CH10167/1	100
CH10167/2	250
CH10167/3	500
CH10167/4	1000
CH10167/5	2000
CH10167/6	5000
CH10167/7	10000


BEEHIVE SHELF

Porcelain, glazed inside and outside top diameter.

	Diam., mm
CH10175/1	60
CH10175/3	75
CH10175/4	85
CH10175/5	100

BELL JAR

Glass, with knob at top, ground rim.

	Ht., mm	Diam., mm
CH10177/1	200	100
CH10177/2	225	150
CH10177/3	400	250
CH10177/4	450	250


BELL JAR

Glass, with ground glass stopper at top, ground rim.

	Ht., mm	Diam., mm
CH10179/1	200	100
CH10179/2	225	150
CH10179/3	400	250
CH10179/4	450	250


BOTTLE, REAGENT

Soda Glass, Narrow mouth with dust proof flat stopper.

Clear glass	Amber glass	Capacity, ml
CH10210/1	CH10215/1	30
CH10210/2	CH10215/2	60
CH10210/3	CH10215/3	125
CH10210/4	-	180
CH10210/5	CH10215/5	250
CH10210/6	CH10215/6	500
CH10210/7	CH10215/7	1000
CH10210/8	CH10215/8	2000


BOTTLE, REAGENT

Soda Glass, Wide mouth with dust proof flat stopper.

Clear glass	Amber glass	Capacity, ml
CH10217/1	-	30
CH10217/2	-	60
CH10217/3	CH10220/3	125
CH10217/4	CH10220/4	250
CH10217/5	CH10220/5	500
CH10217/6	CH10220/6	1000
CH10217/7	CH10220/7	2000

**BOTTLE, REAGENT**

Borosilicate Glass, with acid proof polypropylene stopper.

Clear glass	Amber glass	Capacity, ml
CH10225/1	CH10230/1	30
CH10225/2	CH10230/2	60
CH10225/3	CH10230/3	125
CH10225/4	CH10230/4	250
CH10225/5	CH10230/5	500
CH10225/6	CH10230/6	1000
CH10225/7	CH10230/7	2000

**BOTTLE, DROPPING**

T.K. Pattern, with grooved glass grip stopper and spout.

Clear glass	Amber glass	Capacity, ml
CH10258/1	CH10260/1	15
CH10258/3	CH10260/3	30
CH10258/5	CH10260/5	60
CH10258/7	-	125

**BOTTLE, REAGENT**

Polypropylene, with screw cap.

Narrow Mouth	Wide Mouth	Capacity, ml
CH10250/10	-	4
CH10250/12	-	8
CH10250/14	-	15
CH10250/16	CH10252/10	30
CH10250/1	CH10252/1	60
CH10250/3	CH10252/3	125
CH10250/5	CH10252/5	250
CH10250/7	CH10252/7	500
CH10250/9	CH10252/9	1000

BOTTLE, PIPETTE DROPPING

Pipette dropping bottle having a three piece pipette section comprising a glass stopper, high density polythene stopper with dust-proof head & vinyl teat. Both stopper & teat are highly resistant to chemical attack by acid & alkalis.

Clear glass	Amber glass	Capacity, ml
CH10254/1	CH10256/1	30
CH10254/3	CH10256/3	60
CH10254/5	CH10256/5	125

**BOTTLE, DROPPING**

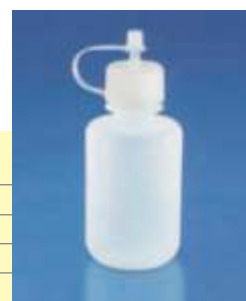
T.K. Pattern, plastic.

	Capacity, ml
CH10264/5	60
CH10264/7	125

**BOTTLE, DROPPING (EURO DESIGN)**

These bottles made in low density polyethylene dispense small uniform drop of liquids. the unique feature of these bottles is the screw cap with lid.

	Capacity, ml
CH10265/1	15
CH10265/2	30
CH10265/3	60
CH10265/4	125
CH10265/5	250

**BOTTLE, MC CARTNEY (BIJOU)**

Narrow mouth, clear glass, with aluminium screw cap and rubber liner, autoclavable.

	Capacity, ml
CH10266/1	7
CH10266/3	14
CH10266/5	28





WIDE MOUTH SQUARE BOTTLE

This autoclavable bottle, made of Polypropylene, can be used for storing & shipping chemicals & reagents. Being wide mouthed, it is always convenient to pour in & take out the reagents. The built in depressions on two sides provide excellent grip while holding this bottle .



Capacity, ml	
CH10282	4000

WASH BOTTLE

Low Density polyethylene squeeze bottle with jet through screw cap.

Capacity, ml	
CH10275/1	125
CH10275/3	250
CH10275/5	500



HEAVY DUTY VACCUM BOTTLE

This autoclavable bottle, made of Polypropylene, has thick walls, is rugged & can be used for repeated applications of vaccum .



Capacity, ml	
CH10284	2000

WASH BOTTLE

Made of Low Density Polyethylene, translucent & unbreakable. With built in delivery tube making it a one piece wash bottle. These bottles are graduated on the outer surface to give an approximate idea about the volume of solution filled or dispensed.

Capacity, ml	
CH10278/1	250
CH10278/3	500
CH10278/4	125

CARBOY

Carboys, made of Polypropylene, are much lighter than glass. These autoclavable, dependable & durable Carboys are provided with wide handles making it convenient while carrying or pouring purposes.



Capacity, Ltr.	
CH10286/1	10
CH10286/3	20

NARROW MOUTH BOTTLE

This autoclavable bottle, made of polypropylene, can be used for storing & transferring chemicals and other reagents safe & sound.

Capacity, ml	
CH10280	4000



CARBOY WITH STOP COCK

Adding in line of Aspirators, these Polypropylene Carboys are autoclavable, dependable & durable. These are also equipped with a leakproof spigot screwed to the body. These carboys are in excellent replacement for glass carboys and are used for storing & dispensing distilled water & other laboratory solutions



Capacity, Ltr.	
CH10288/1	10
CH10288/3	20

**BRUSH, BEAKER**

Hard nylon bristles on twisted G.I. wire, head 140 x 63 mm, overall length 400 mm approx.

CH10305

**BRUSH, BOTTLE**

Hard nylon bristles, mounted on twisted G.I. wire, head 120 x 65 mm, overall length 500 mm.

CH10310

**BRUSH, BEAKER**

Hard nylon bristles on stainless steel wire, head 150 x 85 mm, overall length 400 mm.

CH10307

**BRUSH, BURETTE**

Hard nylon bristles, mounted on twisted G.I. wire, Available in following sizes

CH10314/1	Head 15 x 150 mm., overall length 900 mm
CH10314/3	Head 25 X 150 mm., overall length 915 mm

**BRUSH, BEAKER**

Hard nylon bristles on wooden handle, head 150 x 75 mm, overall length 325 mm approx.

CH10309

**BRUSH, TEST TUBE**

Hard nylon bristles, mounted on twisted G.I. wire, head 90 x 45 mm., overall length 250 mm.

CH10317

**BRUSH, SEMI MICRO TEST TUBES**

For small test tube of 6-10 mm diam., head 10 x 70 mm, overall length 175 mm. Nylon White.

CH10319



BRUSH, FLASK

Hard nylon bristles, mounted on twisted G.I. wire, head 130 x 50 mm. overall length 360 mm.

CH10320



BRUSH, FLASK

For round bottom flask upto 100 mm diam., Nylon bristles on twisted G.I. wire handle. Overall length 330 mm.

CH10322



BRUSH, PIPETTE

Nylon Bristles on twisted G.I. Wire, head size 125 x 10 mm, overall length 650 mm for pipettes and tubes from 8-12 mm dia.

CH10324

BURETTE, ACRYLIC

Transparent acrylic body and a leakproof stopcock fitted with a self lubricating PTFE plug. Each Burette is individually calibrated to give maximum accuracy. Acrylic body is unaffected by dilute mineral acids and bases except Hydrofloric Acid and Ammonium Hydroxide.

	Capacity, ml	Subdivision, ml
CH10500/1	25	0.1
CH10500/3	50	0.1
CH10500/5	100	0.1



Refer Glassware Catalogue For Glass Burettes

BURETTE

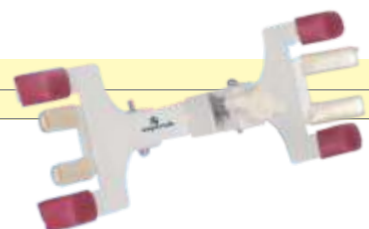
Glass, with pinch clip, rubber tubing and glass jet.

	Capacity, ml	Subdivision, ml
CH10502/1	25	0.1
CH10502/2	50	0.1
CH10502/3	100	0.2

BURETTE CLAMP

Holds burette in vertical position, die pressed burette clamp of plated steel, jaws having V grooves, with boss to accommodate rods upto 16 mm diam.

CH10540/1	For One Burette
CH10540/2	For Two Burettes



BURETTE CLAMP, SHEET METAL

For holding burettes vertically in a retort stand, sheet metal, die pressed with built-in boss head and spring loaded jaws covered with rubber sleeve.

CH10543/1	For One Burette
CH10543/2	For Two Burettes



info@shivsons.com
www.shivsons.com

**BURETTE CLAMP, METAL, DIE CAST**

Complete body of die cast metal making it light weight, durable and sturdy. Provided with a spring loaded positive grip and release. The special design provides vice like grip to the burette for a positive clamping. Boss head clamp secures a firmly at desired position on the rod of about 13 mm diameter.

CH10546/1	For One Burette
CH10546/2	For Two Burettes

**BURETTE CLAMP**

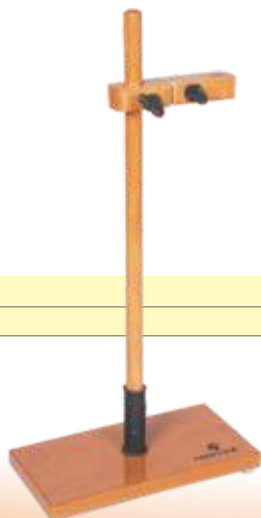
High density polythene body, non-corrosive, unbreakable, easy to fit burette, graduation can be seen clearly along its entire length.

CH10550/1	For One Burette
CH10550/2	For Two Burettes

BURETTE STAND

Cork lined wooden clamp with plastic screw, base with four rubber feet, rod fitted with plastic socket with thread which fits into the base, polished.

CH10552/1	For One Burette
CH10552/2	For Two Burettes

**BURETTE & FUNNEL STAND**

Stand as CH10552 but can hold one burette and one funnel.
CH10557/1

**BURETTE DRAINING AND STORAGE**

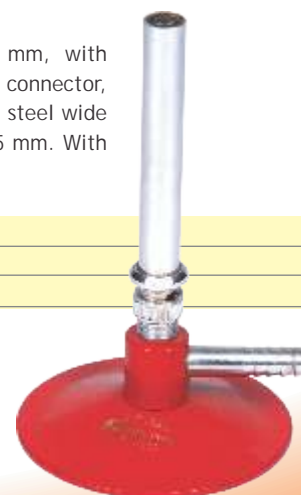
Rack Hardwood construction, for mounting on the wall, holding 12 burettes, capacity 50 ml, in the vertical position. Complete with fixing plates.

CH10560/1

BUNSEN BURNER

Nickel plated burner tube 100 x 12 mm, with adjustable screwed air regulator, riffled connector, mounted on a stove enamelled, pressed steel wide base of 80 mm diam. Overall height 125 mm. With one spare jet.

CH10600/1	LP (Bottled) Gas
CH10600/3	Natural Gas
CH10600/5	Artificial (Coal) Gas



BUNSEN BURNER, WITH STOPCOCK

As CH10600 but fitted with a stopcock in the inlet tube to control flow of gas.

CH10604/1	LP (Bottled) Gas
CH10604/3	Natural Gas
CH10604/5	Artificial (Coal) Gas



BUNSEN BURNER

Nickel plated burner tube 115 x 13 mm, with rotatable air regulator, riffled connector, mounted on a stove enamelled, heavy die cast base of 80 mm diam, overall height approx. 140 mm.

CH10610/1	LP (Bottled) Gas
CH10610/3	Natural Gas



BURNER, NATURAL GAS

Efficient and durable burner. Gas flow is controlled by a needle valve, permitting easy flame adjustment and minimizing possibility of tipping. Air flow is adjusted by a heavy gauge mixing tube threaded into a heavy die-cast zinc alloy base.
CH10606



BUNSEN BURNER

With one piece Die-cast base and riffled Nozzle, Air Regulator.

CH10613/1	LP (Bottled) Gas
CH10613/3	Artificial (Coal) Gas
CH10613/5	LP (Bottled) Gas



BURNER WITH FLAME STABILIZER

These burners control gas flow by a needle valve for easy flame adjustment. The stabilizer top allows gas to emerge at a low velocity in an annular ring acting as a pilot for the principal flame and steadying it.

CH10608/1	LP (Bottled) Gas
CH10608/3	Natural Gas



BUNSEN BURNER

As CH10613, with Flame retainer for use with Natural Gas.
CH10615



BUNSEN BURNER, ADJUSTABLE

With one piece die-cast heavy base and riffled nozzle and adjustable gas and air inlets. A brass threaded needle valve and a rubber O ring for gas regulation, and air vents for air regulation. With flame retainer at top, for natural gas.

CH10620/1	Natural Gas
CH10620/3	LP (Bottled) Gas



BUNSEN BURNER, MICRO

Miniature, 9 cm high with fine gas control needle and adjustable air regulator, with built-in flame retainer.

CH10623/1	Natural Gas
CH10623/3	LP (Bottled) Gas

**BURNER, HIGH TEMPERATURE**

Designed to burn all gases in large volume with a short, wide and uniformly high - temperature flame. A special micrometer needle valve is used to regulate the gas and a safety cap prevents dangerous back flashes. The burner features a plated, injector shaped venturi tube and a direct feed inlet for compressed air. Operates on 5-PSI air pressure. Supplied complete with die-cast alloy, plated octagonal base.

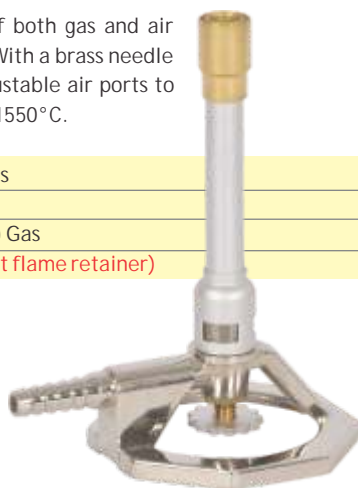
CH10626

**BURNER TIRRILL**

Tirrill burner allows adjustment of both gas and air supply resulting in a hotter flame. With a brass needle valve to adjust gas supply and adjustable air ports to regulate air supply. Can reach up to 1550°C.

CH10624/1	LP (Bottled) Gas
CH10624/3	Natural Gas
CH10624/5	Artificial (Coal) Gas

Artificial (Coal) gas burner is without flame retainer

**BUNSEN BURNER, PILOT FLAME**

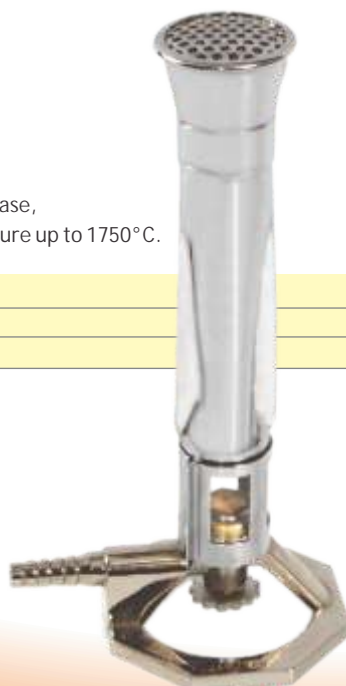
With pilot flame, saves time when the burner is only needed on an intermittent basis. Base is stamped steel with chrome plating. Sleeve- type regulator and stopcock for reliable gas control. Pilot light tube has a screw adjustment for flame control.

CH10627

**MEKER BURNER**

Superior quality, one piece die-cast base, with gas and air regulators, temperature up to 1750°C.

CH10625/1	LP (Bottled) Gas
CH10625/3	Natural Gas
CH10625/5	Artificial (Coal) Gas

**TECLU BURNER**

Natural gas burner with conical mixing section, screwed air regulator & gas control needle. It gives a very hot flame suitable for glasswork and soldering. Burner tube 125 x 13 mm (H x D). Base dia 80 mm, 9 mm inlet.

CH10628



MEKER BURNER, HEAVY BASE

For high temperature work. Nickel plated burner tube with perforated plate of 25 mm diam. at top, which provides flame stability and ensures high and evenly distributed temperature. With rotatable air regulator around the jet. Heavy wide die cast metal base of 80 mm diam. With riffled gas inlet, overall height 150 mm.

CH10630/1	LP (Bottled) Gas
CH10630/3	Natural Gas



SPIRIT LAMP, POLYHEDRAL SHAPED, GLASS

Polyhedral, heavy duty, complete with cap and one wick. Capacity 100 ml approx. CH10645

BURNER MEKER - ECONOMY

Economical burner for routine use. The burner comprises of a perforated mesh plate on a nickel plate burner tube with a tapered bottom, mounted on a casted base with riffled gas inlet tube 10 mm OD, burner plate dia 25 mm, Overall height 175 mm base dia 80 mm approx. CH10632



ALCOHOL BURNER, STAINLESS STEEL

With knurled wheel to raise the wick and cap to extinguish the flame. Capacity 60 ml. CH10647

BURNER TUBE

With reinforced ends for fitting to bunsen burner and gas tap. Length 1 meter. CH10635



FLAME SPREADER

Produce a fishtail flame for glass working. The 18 mm top is excellent for burners with flame stabilizer. CH10640



BURNER, METHYLATED SPIRIT

Glass, with cap, wick and metal wick holder.

	Capacity, ml
CH10642/1	60
CH10642/3	125



BURNER, METHYLATED SPIRIT

Metal, complete with wick, wick holder and cap.

CH10648/1	Aluminium, 60 ml
CH10648/3	Aluminium, 125 ml
CH10648/5	Brass, 60 ml
CH10648/7	Brass, 125 ml





ALCOHOL BURNER, WICKLESS

A safe alternative to conventional alcohol burner, chrome plated tank has a screw top with rubber gasket. Uses a copper torch instead of a wick. capacity approx. 100 ml, fully leakproof.

CH10652



CENTRIFUGE, ECONOMICAL

Economical unit for small capacity centrifuging requirements. The standard unit is fitted with resiliently mounted motor with 3500 RPM for vibration free performance, a built in 5 step speed regulator and one non removable angle motor. complete with tube carriers. Available with following angle head rotors.

CH10654/1	15 ml x 4 tubes
CH10654/3	15 ml x 6 tubes
CH10654/5	15 ml x 8 tubes



CENTRIFUGE, UNIVERSAL

Compact model for routine work in laboratories. The special features include easy lid lock, stepless speed regulator and timer. Available with following rotors.

CH10655/1	15 ml x 4 tubes, 5000 RPM, Swing out head
CH10655/2	15 ml x 6 tubes, 5000 RPM, Swing out head
CH10655/3	15 ml x 8 tubes, 5000 RPM, Swing out head
CH10655/4	15 ml x 12 tubes, 4200 RPM, Angle head
CH10655/5	50 ml x 4 tubes, 2800 RPM, Angle head
CH10655/6	50 ml x 6 tubes, 2400 RPM, Angle head
CH10655/7	100 ml x 4 tubes, 2500 RPM, Angle head



CENTRIFUGE, MEDICO

For general purpose use in pathology labs, small hospitals, schools and colleges. The centrifuge with 5 step speed regulator is provided with swing out rotor head. Available in two models with 4 x 15 ml and 8 x 15 ml rotors.

Technical Data	CH10656/1 1	CH10656/3 2
Max. speed	3700 RPM	3500 RPM
Max. RCF	1950 xg	1900 xg
Max. tube size	15 ml	15 ml
Max. capacity	60 ml	120 ml
Connected load	0.11 kVA	0.13 kVA



CENTRIFUGE, CLINICAL

For general purpose use in pathology labs, small hospitals, schools and colleges. The centrifuge with 5 step speed regulator is provided with fixed angle rotor head.

Technical Data	CH10658/1	CH10658/3
Max. speed	4500 RPM	4000 RPM
Max. RCF	2050 xg	1650 xg
Max. tube size	15 ml	5 ml
Max. capacity	120 ml	120 ml
Connected load	0.13 kVA	0.13 kVA



CENTRIFUGE, LABORATORY

For Clinical & Pathological Laboratories. Suitable for infertility labs where low speed is recommended.

- Brush less AC Motor
- Sea thru acrylic lid.
- Digital Timer 0-99 minutes.
- Maximum speed 3000 r.p.m. without load and 2850 rpm on load.
- With 8 x 15ml Swing out head
- With 8 reduction adopter to accept test tubes of size 12 x 100 mm. CH10671



CENTRIFUGE, MINI

Micro processor controlled Centrifuge machine with speed from 1000 to 10000 r.p.m.

- Digital display of time and RPM
- High quality brushless Motor
- R.P.M. in steps of 1000 rpm.
- Fitted with 0-15 minute electronic digital timer.
- Completed with one rotor each for 6 micro
- Centrifuge of 1.5 ml capacity and 12 micro
- Centrifuge of 0.5 ml capacity. CH10670



CENTRIFUGE, MICRO

Microprocessor based high speed Micro Centrifuge Max. R.P.M. 16000 Heavy duty plastic injection moulded body Stainless Steel projection bowl Fitted with well balanced universal motor Microprocessor based Digital Timer of range 0-15 min. with LCD display. Microprocessor controlled Preset speed from 2000 to 16000 r.p.m. Digital display shows Set Time/Run Time/R.P.M. Rotor head for 12 eppendorf tubes of 1.5ml/2ml. CH10672

ROTOR HEAD

For use with CH10672, accommodates 24 Micro Tubes. CH10672S



CENTRIFUGE, HAEMATOCRITE

Microprocessor based Haematocrite Centrifuge Machine, Max. speed 13000 r.p.m. Compact plastic injection moulded body
 Inner safety bowl made of stainless steel
 Well balance universal motor having long life with imported carbons.
 Digital display shows Set time/Run time/R.P.M.
 Microprocessor based Digital timer of range 0-15 min with LCD display.
 Microprocessor controlled Preset speed from 2000 to 13000 r.p.m.
 With following accessories:
 Micro Hematocrite rotor to accommodate 24 capillaries of 75 mm x 1mm
 Heparinised capillary tubes 75 mm long x 1mm bore (Pack of 100)
 Non-Heparinised capillary tubes 75 mm long x 1mm bore (Pack of 100.)
 Reading device
 Sealing wax-1 tray.
 CH10673

CENTRIFUGE, HAND

Cast metal body, removable crank handle and head, for bench mounting, supplied complete with aluminium buckets for 15 ml glass tubes.

CH10700/1	For 2 Tubes
CH10700/3	For 4 Tubes



Centrifuge Accessories

CENTRIFUGE TUBES

Printed graduations and writing area for Sample Identification.
 Caps can be closed with one hand.
 Available in bulk non-sterile and pre-sterilized formats.
 50ml rated to 13,000g; 15ml to 13,000g.
 Certified RNase/DNase free.
 Available in Racked Formats.
 Conical Bottom tube with Cap

	Capacity, ml	Qty/pack
CAC10102/1	15	500
CAC10102/2	15, Pre-sterilized	500
CAC10102/3	15, Racked	500
CAC10102/4	15, Racked, Pre-sterilized	500
CAC10102/5	50	500
CAC10102/6	50, Pre-sterilized	500
CAC10102/7	50, Racked	300
CAC10102/8	50, Racked, Pre-sterilized	300



CENTRIFUGE TUBE ROUND BOTTOM

Centrifuge tubes with round bottom are moulded in Polypropylene & Polycarbonate. Tubes have excellent clarity and are strong enough to be used upto 50,000xG. These tubes can be autoclaved, however, repeated autoclaving in PC tubes reduces their mechanical strength.



	Capacity
CAC10104/1	16 ml Cent. Tube PP
CAC10104/2	50 ml Cent. Tube PP
CAC10104/3	16 ml Cent. Tube PC
CAC10104/4	50 ml Cent. Tube PC
CAC10104/5	Cap. For 16ml Cent. Tube
CAC10104/6	Cap. For 50ml Cent. Tube

OAK RIDGE CENTRIFUGE TUBES

Oak ridge centrifuge tubes, made of Polypropylene, have excellent contact clarity and can be used upto 50,000xG. The screw cap is fitted with silicon O-Ring making it totally leakproof. These tubes should not be used below 4°C



	Capacity, ml
CAC10106/1	30
CAC10106/2	50
CAC10106/3	100

CENTRIFUGE TUBE BOX, PP

- Provides durable and rugged alternative to cardboard or foam racks
- Can withstand temperature from -90°C to 121°C
- With distinctive green color on 15 ml and blue color on 50 ml.
- All grids are properly indexed with clear lid that provides easy tube identification.
- Can be autoclaved.

	Capacity, ml
CAC10150/1	15
CAC10150/2	50



MICRO CENTRIFUGE TUBES

Qty. 1000 per pack

*ClickSeal High-Capacity Microcentrifuge tubes fit all popular microcentrifuge rotors

*Writing surface on flat cap and side wall for quick sample ID

* Superior clarity and external graduations ensure accurate, reproducible lab results

* Withstands temperatures from +121°C to -80°C and RCF of 27,000xg with proper rotor support

* Positive Click Seal design allows repeated cap closure and eliminates pressure-induced popping of caps during incubation

* Certified RNase-DNase Safe for Total Sample Integrity.

* Thin membrane in Cap Center Allows easy access to Sample by Syringe Needle.

* Click Seal Microcentrifuge Tubes 0.5ml, 1.5ml, 2.0ml are engineered to close with a "snap" and stay closed during centrifugation up to 18,000 RCF - even during boiling or autoclaving.

* A wide range of colored tubes for easy sample identification.

* The tubes are manufactured of a copolymer material to offer exceptional strength and chemical resistance.

* These tubes feature ultra-smooth conical bottoms, which allow for 100% visibility and no sharp "gates" to cause cuts and scratches.

* Diamond polished molds allow tubes to be manufactured without contaminating releasing fluids.

CAC10202/1	Click Seal MC Tube 0.65ml, Natural
CAC10202/2	0.65ml Graduated MCT, Rainbow
CAC10202/3	0.65ml Graduated MCT, Red, Yellow, Green, Blue, Violet
CAC10202/4	0.65ml Graduated MCT, Amber
CAC10202/5	Click Seal MC Tube 1.7ml, Natural
CAC10202/6	Graduated MCT, Rainbow
CAC10202/7	1.7ml Graduated MCT, Red, Yellow, Green, Blue, Violet
CAC10202/8	1.7ml Graduated MCT, Amber
CAC10202/9	Click Seal MC Tube 2.0ml, Natural
CAC10202/10	Graduated MCT, Rainbow
CAC10202/11	2.0ml Graduated MCT, Red, Yellow, Green, Blue, Violet
CAC10202/12	Graduated MCT, Amber

LOW RETENTION TUBES

CAC10202/13	Click Seal MC Tube 0.65ml, Natural, Low Retention
CAC10202/14	Click Seal MC Tube 1.7ml, Natural, Low Retention
CAC10202/15	Click Seal MC Tube 2.0ml, Natural, Low Retention

MICRO PESTLE

This double ended pestle's one end fits 1.5ml. Micro centrifuge tube & the other one fits 0.5 ml. Micro centrifuge tube.

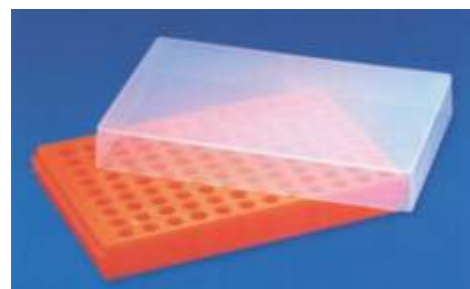
CAC10210/1



MCT FLOAT RACK

This Float Rack mould in Polypropylene is quite compact, autoclavable and can hold 16 micro centrifuge tubes for incubation in water baths. Easy to load, these are essential in microbiology & immunology labs. The surface of the rack has raised alpha-numeric index for easy identification and has a central rod handle for convenient lifting.

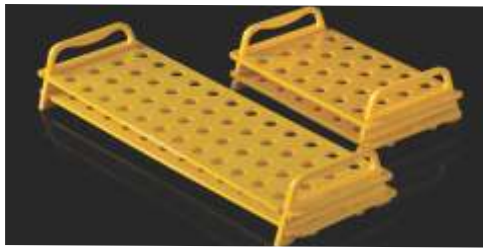
	Type
CAC10250	16 MCTs of 1.5 ml.



MCT TWIN RACK

Supertek provides this Polypropylene Twin Purpose Rack for both 0.5 ml and 1.5 ml micro centrifuge tubes. Each side has 108 holes for 0.5 & 1.5 ml. MCT's respectively. The transparent top provides an excellent view as well as a protection cover for the tubes stored. Each face of the base has a unique alpha-numeric index for easy identification of the tube.

	Size
CAC10252	Rack for 0.5ml & 1.5ml. MCTs.



RACK FOR MICRO CENTRIFUGE TUBE, PC

- Easy to hold ergonomic design
- Each hole has molded in numbers and letters for easy sample identification.
- Racks are stackable when empty or full .
- Compatible with both 1.5 ml and 2.0 ml micro centrifuge tube.
- Easy removal and insertion of tubes.
- Can be used in wide temperature range.
- Can be autoclaved.

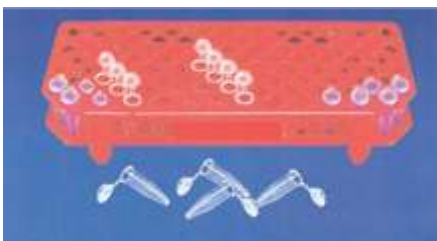
	Tube Capacity, ml	Places	Array	Color
CAC10254/1	1.5 and 2.0	24	6 x 4	White
CAC10254/2	1.5 and 2.0	24	6 x 4	Yellow
CAC10254/3	1.5 and 2.0	48	12 x 4	White
CAC10254/4	1.5 and 2.0	48	12 x 4	Yellow



RACK FOR MICRO CENTRIFUGE TUBES

Moulded in Polycarbonate, these autoclavable rack are made for holding 1.5ml micro centrifuge tubes. These racks have a unique stacking feature which prevents movement in any direction. The holes are numbered & lettered for easy identification.

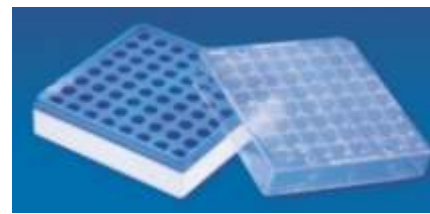
	Type
CAC10256/1	24 Tubes
CAC10256/2	48 Tubes



RACK FOR MICRO CENTRIFUGE (FOLDING)

These two-tier versatile racks, made of Polypropylene, are autoclavable & can be used dry, in water baths or in freezers. These racks are provided with alpha numeric index for easy sample identification. Racks are stackable even when loaded and have purpose designed label spaces on each side.

	Size
CAC10258/1	100 Places for 1.5 ml MCTs



MCT BOX

MCT boxes are moulded in polycarbonate and are therefore strong as well as autoclavable. One size can hold 64 MCTs of 1.5ml & the other can hold 100 MCT's of 0.5ml. These boxes are designed to work at temperatures ranging from -190°C to +121°C The transparent cover provides a good view of the contents inside & is numbered for better inventory control.

	Size
CAC10265/1	Rack for 100 MCTs of 0.5ml
CAC10265/2	Rack for 64 MCTs of 1.5ml



PCR TUBE

* Quantitative PCR compatible tubes and plates. Certified to be RNase- and Endotoxin safe.

* Ultra-thin and consistent wall thickness manufactured from 99.9% pure virgin polypropylene.

* Unique cap design prevents sample evaporation.

8 STRIP PCR TUBES & CAPS

Qty./pack 125 Strips

CAC10302/1	8-Strip PCR Tubes w/caps; Clear 0.2 ml
CAC10302/2	8-Strip PCR Tubes and Flat Caps 0.2 ml
CAC10302/3	8-Strip PCR Tubes w/caps; Assorted 0.2 ml (colors)
CAC10302/4	8-Strip PCR Tubes w/o cap 0.2 ml
CAC10302/5	8-Strip 0.2ml Domed PCR Caps
CAC10302/6	8-Strip 0.2ml Flat PCR Caps

8 STRIP PCR TUBE WITH ATTACHED CAPS

Qty./pack 240 Strips

CAC10302/7	0.2ml 8-Strip PCR Tubes w/attached Flat caps
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NON-STERILE MICRO TUBES & CAPS

CAC10302/8	0.1ml 4-Tube & 4-Cap Strips, Roto-Gene Compatible
CAC10302/9	PCR Tubes, Flat Cap, Clear 0.2ml
CAC10302/10	PCR Tubes, Domed Cap, Clear 0.2ml
CAC10302/11	PCR Tubes, Flat Cap, Clear 0.2ml
CAC10302/12	PCR Tubes, Flat Cap, Clear 0.5ml

PCR TUBE RACK

This rack, as the name suggests, is used for keeping PCR tubes. Top & base of this rack are made of tough & transparent polycarbonate while the middle portion is made of Polypropylene. The tube holding spaces are uniformly placed so as to facilitate the use of multi-pipettes. A no. of racks can be stacked together to save shelf space.



	Size
CAC10350/1	Rack for 96 PCR Tubes of 0.2ml



CHARCOAL BLOCK

Compressed, for blow pipe work, rectangular blocks, size 100 x 25 x 25 mm, pack of 12.

CH10716

CHARCOAL BORER

Mounted on wooden handle.

CH10718



CORK BORER

Chrome plated brass, various size tubes, each with cutting edge at bottom and handle at top, with cleaning rod.

CH10720/1 Set of 6 borers, 4-12 mm

CH10720/3 Set of 12 borers, 4-19 mm

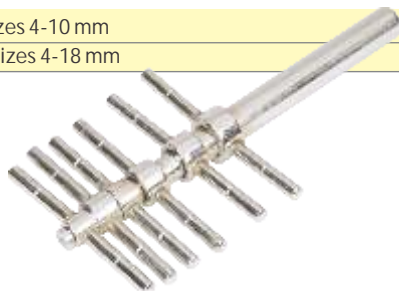


CORK BORER, SUPERIOR

Chrome Plated Brass. Complete with cleaning rod having good grip and pipes of thick gauge.

CH10724/1 Set of 6, Sizes 4-10 mm

CH10724/3 Set of 12, Sizes 4-18 mm



CORK BORER SHARPENER

Plated metal cone with hinged cutter blade set in slot, with wooden handle.

CH10730



CORK STOPPER, BARK

Pack of 100.

	Bottom, mm	Top, mm	Length, mm
CH10735/1	4	6	13
CH10735/2	5	8	13
CH10735/3	7	10	13
CH10735/4	8	11	16
CH10735/5	9	13	17
CH10735/6	10	14	19
CH10735/7	11	16	20
CH10735/8	12	17	22
CH10735/9	13	19	24
CH10735/10	14	21	25
CH10735/11R	17	22	27
CH10735/12	18	24	29
CH10735/13	20	25	31
CH10735/14	21	27	31
CH10735/15	22	29	31
CH10735/16	24	30	31
CH10735/17	25	32	31
CH10735/18	27	33	31
CH10735/19	27	35	38
CH10735/20	30	36	38
CH10735/21	31	38	38
CH10735/22R	33	40	38
CH10735/23	34	41	38
CH10735/24	36	43	38
CH10735/25	38	45	38
CH10735/26	39	46	38

CLIP, MOHR

For use with tubes upto 11 mm outer diameter.

CH10738/1 Plated Metal

CH10738/3 Plated Brass

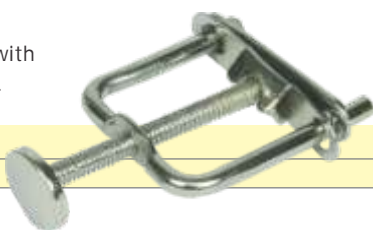


CLIP, HOFFMAN

Screwed, hinged side bar, for use with tubes upto 20 mm outer diameter.

CH10740/1 Plated Metal

CH10740/3 Plated Brass

**COMBUSTION BOAT, PORCELAIN**

Glazed /unglazed max. use temp. 1150° C



	Ht. , mm	Width, mm	Length, mm
CH10742/1	11	13	90
CH10742/3	10	12	80

COMBUSTION BOAT, ALUMINA

99.7% alumina Combustion Boat, with Tail and Hole unglazed. Max. use temp. 1750° C.

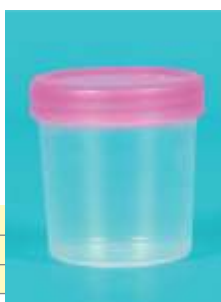


	Ht. , mm	Width, mm	Length, mm
CH10744/1	11	12	90
CH10744/2	13	15	86
CH10744/3	17	20	108
CH10744/4	19	30	119

CONTAINER, URINE

These containers can be used for collecting a wide range of samples of sputum, urine etc. Moulded in polypropylene these container have excellent contact clarity and the cap has built-in seal that makes it completely leakproof.

	Capacity, ml
CON10002/1	30
CON10002/2	60

**CONTAINER, STOOL**

These containers, as the name suggests, are used for collecting stool samples. The cap is provided with a spoon like structure that proves helpful in lifting samples.

	Capacity, ml
CON10004/1	30
CON10004/2	60

**CONTAINER, STOOL**

In addition to the range of existing sample containers, this Stool Container has the unique feature of one piece moulded cap-spoon combination.

	Capacity, ml
CON10006	25

**MAGENTA BOX**

Magenta Box is very often used in tissue culture & Agricultural research experiments. Main body of this box is made of tough & transparent Polycarbonate which provides excellent view of the contents inside while the cover is made of Polypropylene. This autoclavable box is square in shape giving itself a space saving feature.

CON10008

**STORAGE BOXES**

These Storage Boxes, made of Polypropylene, to be an excellent option for storage of different powdered reagents & other material in the laboratory. Square shape of these boxes help in saving shelf space. Available in three different sizes, these boxes have Polypropylene caps, are autoclavable, provide good chemical resistance & heavy duty service.



	Capacity, ml
CON10010/1	250
CON10010/2	500
CON10010/3	1000

SAMPLE CONTAINER (PRESS & FITTYPE)

Made of Polypropylene, these disposable containers are used for collecting sample of sputum or urine etc. Graduated on the outer surface, these containers have cap that work in a press & fit manner & make these containers leakproof. These disposable containers are E. T.O. Sterilized.



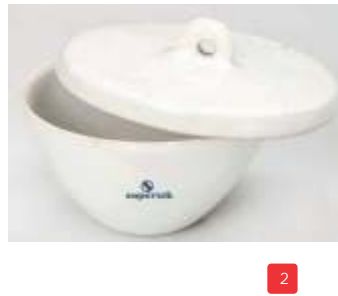
	Capacity, ml
CON10012/1	50
CON10012/2	25

MEDICINE CUP

These transparent polypropylene cups can be used to measure different volumes of medicines to be administered . The inbuilt graduations make measuring very easy .



	Capacity, ml
CON10014/2	25



CRUCIBLE, GOOCH 1

Porcelain, with fixed perforated bottom, glazed inside and outside, except for outside bottom surface and rim.

	Diam., mm	Ht., mm	Capacity, ml
CH10760/1R	29	32	15
CH10760/5R	36	45	30
CH10760/7R	40	49	50
CH10760/9	55	83	140

CRUCIBLE, SQUAT 2

Porcelain, Squat form with lid, glazed inside and outside, except for outside bottom surface and rim.

	Diam., mm	Ht., mm	Capacity, ml
CH10765/0	24	20	5
CH10765/1R	32	20	10
CH10765/5R	41	26	20
CH10765/7	50	31	30
CH10765/9	61	37	50
CH10765/13R	76	46	100
CH10765/15R	84	52	150
CH10765/19R	102	60	250
CH10765/21R	120	87	500

CRUCIBLE, TALL

Porcelain, Tall form with lid, glazed inside and outside, except for outside bottom surface and rim.



	Diam., mm	Ht., mm	Capacity, ml
CH10768/0	15	15	1.3
CH10768/00	24	20	5
CH10768/1R	31	26	10
CH10768/3R	35	29	15
CH10768/4	40	32	25
CH10768/5R	43	37	30
CH10768/6R	50	40	40
CH10768/7R	53	43	50
CH10768/9R	65	54	100
CH10768/10R	88	72	250

CRUCIBLE, BITUMEN

Porcelain, with perforated bottom, glazed inside and out except for outside bottom surface and rim. Used for similar applications as Gooch crucibles.

	Diam., mm	Ht., mm	Capacity, ml
CH10770	44	24	28



CRUCIBLE, ROSE

Porcelain, Rose, unglazed for High Temperature Applications.

	Diam., mm	Ht., mm	Capacity, ml
CH10772	50	60	75



CASSEROLE

Porcelain, With lip and flat porcelain handle, glazed inside and out except for rim and top of handle.

	Diam., mm	Ht., mm	Capacity, ml
CH10774/1	40	22	25
CH10774/2	70	33	65
CH10774/3	85	42	140
CH10774/4	100	52	200
CH10774/5	125	75	500
CH10774/6	150	88	760
CH10774/7	175	98	1250



CRUCIBLE, POROUS 1

Porcelain, Porous bottom crucible, with porous disc permanently formed into walls. Stable porosity and rate of flow. Available with very fine (1.2 micron), fine (5 micron) and medium (15 micron) pore dia. Discs.

	Apx. Pore Diam., microns	Ht., mm	Capacity, ml
CH10776/1	1.2	42	25
CH10776/2	5.0	42	25
CH10776/3	15	42	25

CRUCIBLE, ALUMINA (HIGH FORM) 2

99.7% Alumina Crucible, High Form, unglazed. Max. use temp. 1750°C.

	Diam., mm	Ht., mm	Capacity, ml
CH10778/1	23	28	5
CH10778/2	29	33	10
CH10778/3	40	35	20
CH10778/4	51	47	50
CH10778/5	60	62	100
CH10778/6	82	93	250
CH10778/7	96	116	500
CH10778/8	110	132	750
CH10778/9	126	148	1000

CRUCIBLE, ALUMINA (CYLINDRICAL FORM)

99.7% Alumina Crucible, Cylindrical Form, unglazed.

Max. use temp. 1750°C.

	Diam., mm	Ht., mm	Capacity, ml
CH10780/1	17	48	5
CH10780/2	28	29	10
CH10780/3	28	42	15
CH10780/4	31	40	20
CH10780/5	35	47	30
CH10780/6	42	58	50
CH10780/7	54	39	60
CH10780/8	40	92	80
CH10780/9	52	68	100



CRUCIBLE, ALUMINA (CONICAL FORM)

99.7% Alumina Crucible, Conical Form, unglazed. Max. use temp. 1750°C.

	Diam., mm	Ht., mm	Capacity, ml
CH10782/1	18	18	2
CH10782/2	27	35	5
CH10782/3	33	44	20
CH10782/4	48	45	30
CH10782/5	46	53	50
CH10782/6	64	86	100



CRUCIBLE, SILICA, QUARTZ, SQUAT

Translucent, complete with lid.

	Diam., mm	Ht., mm	Capacity, ml
CH10784/1	25	41	15
CH10784/2	28	47	25
CH10784/3	37	57	50
CH10784/4	67	45	80
CH10784/5	71	50	100
CH10784/6	82	51	150

CRUCIBLE, PURE NICKEL

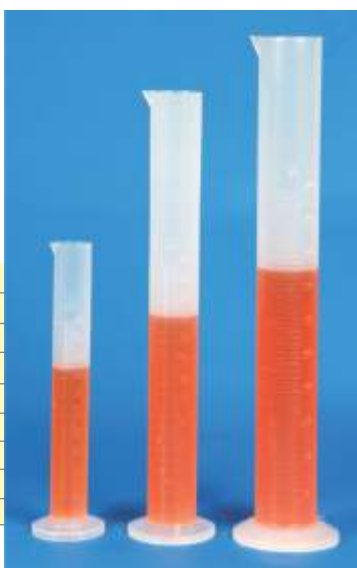
Polished, complete with lid.

	Capacity, ml
CH10786/1	15
CH10786/2	25
CH10786/3	50
CH10786/4	100
CH10786/5	200
CH10786/6	250



MEASURING CYLINDER, ROUND

Measuring cylinders, moulded in polypropylene, are single piece cylinders. These autoclavable cylinders have raised prominent graduations for easy reading and have excellent contact clarity. The broad base provides good stability.

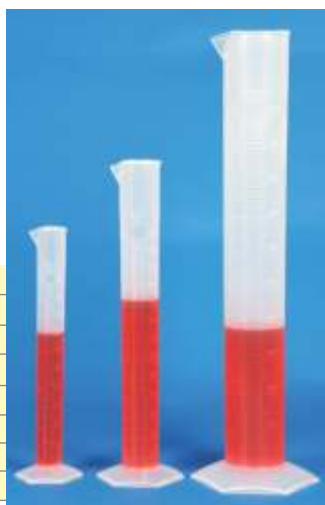


	Capacity, ml
CH10810/1	10
CH10810/2	25
CH10810/3	50
CH10810/6	100
CH10810/7	250
CH10810/10	500
CH10810/12	1000
CH10810/15	2000



MEASURING CYLINDER, HEXAGONAL

The hexagonal base provides excellent stability to the cylinder where as the tapered spout works well while pouring any reagent. Polypropylene.



	Capacity, ml
CH10815/1	10
CH10815/2	25
CH10815/3	50
CH10815/5	100
CH10815/6	250
CH10815/9	500
CH10815/10	1000

MEASURING CYLINDER, TPX CLASS "B"

- Transparent graduated cylinders have excellent value.
- Molded in large neat and easy to read graduations.
- Hexagonal shape gives stability to the base.
- Cylinders have generous pour spout for smooth flow of liquid during pouring.
- Can be autoclaved.
- Meets accuracy requirements of class B under DIN 1261/ ISO 6706

	Capacity, ml	Sub Division, ml	Error Limit, mm
CH10819/1	10	0.2	. ± 0.2
CH10819/2	25	0.5	. ± 0.5
CH10819/3	50	1	. ± 1
CH10819/4	100	1	. ± 1
CH10819/5	250	2	. ± 2
CH10819/6	500	5	. ± 5
CH10819/7	1000	10	. ± 10
CH10819/8	2000	20	. ± 20

CONICAL MEASURES

These conical measures are very good for measuring small quantities of reagents. Moulded in Polypropylene, these autoclavable measures have a hexagonal base which provides it excellent stability. The measures are clear, have good chemical resistance and have raised graduations for easy reading.

	Capacity, ml
CH10817/1	12
CH10817/2	25
CH10817/3	50
CH10817/7	125
CH10817/9	200



MEASURING CYLINDER, TPX CLASS "A"

- These transparent graduated cylinders have excellent value.
- Molded in large neat and easy to read graduations
- Hexagonal shape gives stability to the base
- Cylinders have generous pour spout for smooth flow of liquid during pouring.
- Autoclaving at 121 °C does not affect accuracy.
- Meets accuracy requirements of class A under DIN 12681
- Supplied with conformity test certificate that indicates batch number and year of production that is also marked on the cylinder.

	Capacity, ml	Sub Division, ml	Error Limit, mm
CH10821/1	10	0.2	. ± 0.1
CH10821/2	25	0.5	. ± 0.25
CH10821/3	50	1	. ± 0.5
CH10821/4	100	1	. ± 0.5
CH10821/5	250	2	. ± 1
CH10821/6	500	5	. ± 2.5
CH10821/7	1000	10	. ± 5
CH10821/8	2000	20	. ± 10

DEFLAGRATING SPOON 1

Die pressed steel spoon, 20 mm diam., welded with rod. Complete with cover of 90 mm diam having cork in centre for holding the rod.

CH10825

**DEFLAGRATION SPOON 2**

Deflagrating and combustion spoon, designed for burning phosphorus, sulfur etc. stainless steel spoon with 16" handle and 3/4" diameter.

CH10827

**DISTILLATION APPARATUS**

To separate mixture of two liquids by raising the temperature of the mixture to a point where one of the liquids will boil but the other remains liquid. Kit consists of 300 mm Liebig condenser, 50 mm diam. Kjeldahl flask, 500 ml boiling flask, cast iron base with support rod, clamp, tripod, wire gauze, and a 500 ml Erlenmeyer flask.

CH10850

DISTILLATION APPARATUS SET

An inexpensive but versatile distillation apparatus. The Kit consists of :

- 500 ml filtering flask
- 500 ml round bottom borosilicate flask with side tube
- 300 mm Graham condenser
- 250 ml Erlenmeyer flask
- Glass stopper
- Support stand with rod
- Burette clamp
- Extension clamp
- Clamp holder
- Activity guide.

CH10852

**DISTILLATION APPARATUS**

With ground glass standard interchangeable joints. Borosilicate glass. Consisting of round bottom flask with 24/29 socket, still head with 24/29 and 19/26 cones, condenser with 19/26 socket and cone, and receiver adapter with 19/26 socket.

CH10854/1	Flask capacity 1 liter, condenser 200 mm
CH10854/2	Flask capacity 2 liters, condenser 400 mm
CH10854/3	Flask capacity 3 liters, condenser 450 mm

**DISTILLATION APPARATUS**

With ground glass standard interchangeable joints. Borosilicate glass. Comprises round bottom flask with 24/29 socket, still head with 24/29 & 19/26 cones and 19/26 socket, condenser with 19/26 socket and cone, receiver with 19/26 socket, separating funnel 100 ml with 19/26 cone.

CH10856/1	Flask capacity 1 litre, condenser 300 mm
CH10856/2	Flask capacity 2 litres, condenser 400 mm
CH10856/3	Flask capacity 3 litres, condenser 450 mm
CH10856/4	Flask capacity 5 litres, condenser 600 mm

DISTILLATION APPARATUS, VERTICAL TYPE

Borosilicate glass. Consists of double walled condenser, with standard interchangeable ground joints.

Capacity, Ltr.	Single Stage	Double Stage
1	CH10858/1	CH10860/1
2	CH10858/2	CH10860/2
3	CH10858/3	CH10860/3
4	CH10858/4	CH10860/4
5	CH10858/5	CH10860/5



DISTILLATION COLUMN, FRACTIONATING, YOUNG'S

Borosilicate glass, pear shaped bulbs, with side tube.



	No. of bulbs
CH10862/1	8
CH10862/2	12



DISTILLATION COLUMN, FRACTIONATING

Borosilicate glass, rod and disc type, with side tube.

	No. of discs
CH10864/1	15
CH10864/2	20

DESSICATOR

Soda Glass, with ground glass cover. having knob at top.



	Diam., mm
CH10905/1	100
CH10905/3	125
CH10905/5	150
CH10905/7	200
CH10905/9	250

DESSICATOR, VACUUM

Soda Glass, ground glass cover. fitted with stopcock.



	Diam., mm
CH10907/5	150
CH10907/7	200
CH10907/9	250

DESSICATOR

Borosilicate glass, with cover.



	Diam., mm
CH10910/1	110
CH10910/3	160
CH10910/7	200
CH10910/8	250

DESSICATOR, VACUUM

Borosilicate glass, cover fitted with stopcock.



	Diam., mm
CH10912/1	160
CH10912/3	210
CH10912/5	240
CH10912/7	300

DESSICATOR PLATE

Porcelain plates, perforated to fit diameters of desiccator.

	Diam., mm	No. of Holes
CH10913/1	95	3
CH10913/3	115	3
CH10913/5	140	6
CH10913/7	165	7
CH10913/9	190	8
CH10913/11	230	10
CH10913/13	290	13



DESSICATOR PLATE

Porcelain, Desiccator, on three feet, 16 mm High, glazed on top surface.

	Diam., mm	No. of Holes
CH10914/1	95	3
CH10914/2	115	3
CH10914/3	142	5
CH10914/4	146	7
CH10914/5	190	7
CH10914/6	230	8





DESSICATOR (VACUUM)

These Desiccators are made of Polypropylene and Polycarbonate. These autoclavable vacuum desiccators can hold vacuum upto 740 mm of Hg for 24 hrs. Without any greasing. The top dome, moulded in rigid and transparent Polycarbonate, gives a crystal clear view of the desiccant placed inside. The knurled knob on the top provides easy handling of the dome. The lower part is made of Polypropylene. An internal groove is provided on the flange to hold a silicon rubber O-Ring. The Polypropylene stopcock is fitted with a self lubricating PTFE plug. This plug works three way i.e. vacuum creations, shutting off and vacuum releasing.

	Size, mm
CH10915/2	150
CH10915/4	200
CH10915/6	250
CH10915/7	300



DESSICATOR (VACUUM) ALL CLEAR

These Vacuum Desiccator are provided with a transparent polycarbonate bottom that makes it more robust and provides excellent view of the desiccator. All the other features are same as PP/PC vacuum desiccator.

	Size, mm
CH10917/1	150
CH10917/2	200
CH10917/3	250
CH10917/4	300

DESSICATOR (PLAIN)

Plain Desiccator are physically the same as Vacuum Desiccator. Only difference is the absence of stop cock. Grease should be applied on the flanges to make it air tight.

	Size, mm
CH10919/1	150
CH10919/3	200
CH10919/5	250
CH10919/6	300



PETRI DISH

Borosilicate Glass. Fused edges, complete with cover.

	Diam., mm
CH10927/1	50
CH10927/2	75
CH10927/3	90
CH10927/4	100
CH10927/5	125

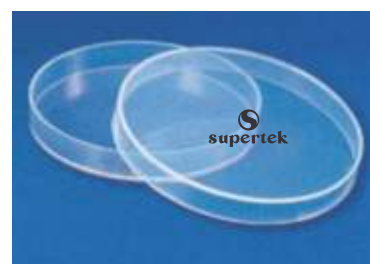


PETRI DISH, WITH COVER

Disposable, clear polystyrene, supplied in sterilized pack.

Diam. 55 mm.

CH10930/1



PETRI DISH

Polypropylene, clear, unbreakable and autoclavable.

	Diam., mm
CH10933/1	50
CH10933/3	75
CH10933/5	100
CH10933/6	125
CH10933/7	150





RACK FOR PETRI DISHES 1

Clear acrylic with polycarbonate posts. Useful during inoculation, incubation & storage. Visibility from all sides enables the culture to be seen and check during incubation.

CH10935/1	Rack for 90 mm petri dishes
CH10935/3	Rack for 60 mm petri dishes

CONDUCTIVITY METER

A simple apparatus for testing the electrical conductivity of liquids. Connect the apparatus to the main supply and place the electrodes in the liquid used for testing. A strong conductor is a material that will let electric charges to flow through it very easy and therefore the bulb of conductivity meter glows brightly. The weak conductors allow electric charges to flow through it slowly and therefore the bulb of conductivity meter glows dimly. The bad conductors do not allow electric charges to flow through it and therefore the bulb of conductivity meter does not glow at all. Bulb provided is large and bright enough to be seen by the entire class. The conductivity meter includes a clamp on the back for attaching to a support stand. Instructions and appliance bulb are also included.



CH10936

DRAINING BASKET 2

As the name suggests, this basket with wide net like structure on all sides prove really useful for draining different laboratory apparatus after washing them. Made of Polypropylene, this basket can be repeatedly autoclaved.

	Size
CH10936A	400 mm x 400 mm x 100 mm

ELECTROLYSIS OF WATER

Economical and compact design to observe the electrolysis of water and collect small volumes of hydrogen and oxygen gases. Consists of a stand assembly, electrodes, 2 attached wires with alligator clips, 2 test tubes, and trough. Requires a 6- or 9-V battery (not included). Supplied without solutions. With instructions.

CH10938

DRAINING RACK 3

Draining Rack provides an excellent option for post wash draining of tubes & bottles in the laboratory. The back plate has 20 holes into which pegs are tightened with the help of screw-nuts. Bottom of the rack is provided with a tray which collects all the waste water drained down which can further be collected in a container via drain tube. This rack does not rot, stain or rust.

CH10936B

CONDUCTIVITY METER 4

To quantitatively measure the conductivity of solutions. This conductivity meter uses a green and a red light emitting diode (LED) to indicate relative conductivity. The light varies with the conductivity. requires 9 volt battery (not supplied). With instruction manual.

CH10937



HOFFMAN VOLTMETER, COMPLETE SET 5

To Observe the effects of electric currents on liquids. Eudiometer tube having capacity of 50 ml and graduation of 0.2 ml is made of sturdy Borosilicate glass with a large center reservoir bulb. The unit comes with a stand and a pair each of carbon and platinum electrodes. It runs on a 6 V battery or low-voltage power supply (not included). Includes instructions. Ready to use.

CH10939

HOFFMAN VOLTAMETER, GLASS PART 6

The glass unit has two connected limbs, each graduated 50 x 0.2 ml, with stopcocks, with a tube and a funnel shaped reservoir Bulb. Borosilicate Glass.

CH10940

METAL STAND

For above metal enamelled base chrome plated rod, one clamp and one support for holding Hoffman Voltmeter.

CH10942





PLATINUM



CARBON

ELECTRODES, PLATINUM

Platinum wire or foil fused into glass rod with internal lead, with rubber stopper and glass protection tube, per pair.

CH10945

ELECTRODES, CARBON

Carbon electrodes in rubber stoppers, fitted with terminals, per pair.

CH10947



BROWNLEE ELECTROLYSIS APPARATUS

Improved design with greater safety for accurate and precise use. The apparatus features front spring clips for easy removal of the test tubes while they remain submerged. With both ungraduated and graduated test tubes. Supplied with battery jar and instructions.

CH10948



STUDENT WET CELL & POROUS CUP

The set consists of a cell body of transparent plastic; a screw-on plastic ring; two brass electrode holders; 1 porous ceramic cup; ten electrodes: one each of aluminum, nickel, graphite, and iron; two each of copper, lead and zinc; and instructions.

CH10949

SALT BRIDGE

Inverted "U" tube with its ends closed by sintered discs. Dia of arms 13 mm, overall width 80 mm., overall height 100 mm.

CH10950



ELECTROLYSIS CELL

Open ended glass tube, 75 x 25 mm fitted with 2 carbon electrodes through a rubber cork, separated by a plastic sheet, complete with two collecting tubes of size 75 x 10 mm.

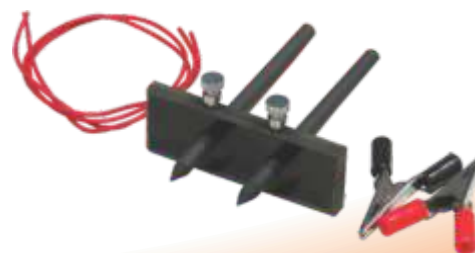
CH10951



ELECTRODE ROD HOLDERS

Plastic strip 75 x 25 x 8 mm, with two 6.5 mm holes, fitted with two knurled head screws. Supplied complete with 2 crocodile clips and two 300 mm long PVC covered wires.

CH10952



VOLTAMETER, COPPER 1

Two copper plates, size 120 x 50 mm, each fitted with a terminal on wooden support. Complete with glass jar, 150 x 100 mm. ht x diam.
CH10953



VOLTAMETER, COPPER 2

With two outer 75 x 50 mm and a central 70 x 45 mm copper plates, suspended from copper wires fitted with 4 mm connectors and supported by two insulated bars. With glass jar, 150 x 100 mm.
CH10954

SIMPLE CELL POT

Simple Cell pot, as the name suggests, is used for making Simple Cell & Voltmeters etc. Moulded in Polypropylene, this Pot has very good contact clarity and excellent chemical resistance. Being in Polypropylene, this Pot is much durable than the one use conventionally.
CH10955/2



FILTER PAPER

Supertek Cellulose filter papers are manufactured from virgin cellulose fiber and are used for general filtration. At present, we offer 3 grades of Qualitative filter papers with particle retention up to 5 µm to suit different laboratory applications. Supertek filter papers are made on high tech machines and undergo a strict Quality control both during production as well as packing.

GRADE 1

Suitable for medium retention & flow rate applications. Grade 1 is the standard filter paper and is mostly used filter paper for routine applications in the laboratory. This grade is widely used for clarifying liquids and in qualitative separations for precipitates such as lead sulfate, calcium oxalate & calcium carbonate.

GRADE 2

Grade 2 filter paper is little more retentive & having more absorbing power than Grade 1 filter paper with a corresponding increase in filtration time.

GRADE 3

Grade 3 filter paper is almost double to filter paper Grade 1 with a still finer particle retention and excellent loading capacity. The extra thickness gives more increasing wet strength.

Grade 1	Grade 2	Grade 3	Diam., mm	Qty / Pack
FP-001-090	FP-002-090	FP-003-090	90	100
FP-001-110	FP-002-110	FP-003-110	110	100
FP-001-125	FP-002-125	FP-003-125	125	100
FP-001-150	FP-002-150	FP-003-150	150	100
FP-001-185	FP-002-185	FP-003-185	185	100
FP-001-215	FP-002-215	FP-003-215	215	100
FP-001-240	FP-002-240	FP-003-240	240	100

General Properties of Filter Papers

Grade	Particle Retention Liquid, µm	Initial Filtration Speed (Secs/100ml)	Thickness mm	Weight g/m ²	Dry Bursting Strength kPa
Qualitative					
1	9	155	0.20	87	89
2	9	250	0.21	98	108
3	5	325	0.40	180	187

FILTER PAPERS

For routine Student use, pack of 100.

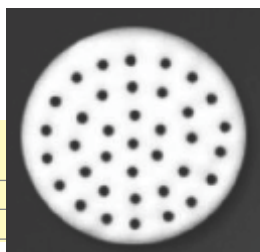
	Size, mm
CH11010/1	90
CH11010/2	110
CH11010/3	125
CH11010/4	150
CH11010/5	185
CH11010/6	215
CH11010/7	240



FILTER DISC

Porcelain, Glazed all over except bottom, perforated small holes all over the surface.

	Diam, mm
CH11013/1	12.00
CH11013/2	20.23
CH11013/3	25.50



EXTRACTION THIMBLES

Cellulose and glass microfibre extraction thimbles are known for their purity and consistent high quality. The thimbles are widely used in Soxhlet extraction units, providing a safe, convenient, and efficient method of solvent extraction of solids and semi-solids. Soxhlet extraction is a widely used technique for the analysis of fats in foods and pesticides in soil materials as well as many other procedures that involve a solid liquid extraction.

	Size, mm
CH11014/1	18 x 55
CH11014/2	19 x 90
CH11014/3	22 x 65
CH11014/4	22 x 80
CH11014/5	25 x 80
CH11014/6	25 x 100
CH11014/7	28 x 80
CH11014/8	28 x 100
CH11014/9	28 x 120
CH11014/10	30 x 80
CH11014/11	30 x 100



PLATINUM WIRE

Platinum wire fused into glass rod, protected in a glass tube.

CH11015



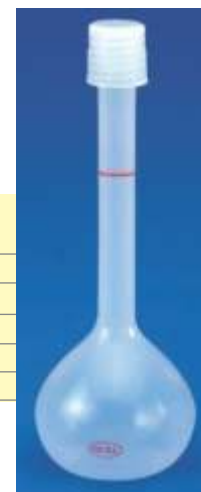
FLASK SUPPORT, POLYPROPYLENE

For round bottom flasks upto 10 litres, autoclavable.
CH11076

FLASK, VOLUMETRIC, POLYPROPYLENE

Blown in polypropylene, are strong, unbreakable and have good contact clarity. These autoclavable flasks are provided with screw caps to prevent leakage.

	Capacity, ml
CH11078/1	25
CH11078/2	50
CH11078/3	100
CH11078/4	250
CH11078/5	500
CH11078/6	1000



FLASK, CONICAL, POLYPROPYLENE

These cone shaped flasks are rigid, translucent and autoclavable. The screw cap keeps the contents of the flask contamination free and makes the flask leakproof. Threads should be disengaged before autoclaving.

	Capacity, ml
CH11080/1	100
CH11080/2	250
CH11080/3	500



FILTER FUNNEL, POLYTHENE

Plain, long stem.

	Diam., mm
CH11087/7	100
CH11087/9	125
CH11087/11	150





ANALYTICAL FUNNEL

Designed specifically for analytical chemistry, the body of the funnel is 60°. Moulded in PP, these funnels are provided with internal & external ribs to prevent air blockage.

	Size, mm
CH11089/10	35
CH11089/1	50
CH11089/2	62
CH11089/3	75
CH11089/4	100

POWDER FUNNEL

These polypropylene funnels are best suited for transferring powdered reagents. The unique feature of these funnels is its parallel stem that minimizes bridging of powder. These funnels are steam autoclavable at 121°C



	Size, mm
CH11091/1	65
CH11091/2	80
CH11091/3	100
CH11091/4	150

INDUSTRIAL FUNNEL

Industrial Funnels are designed in such a way that they make filling of carboys, drums and barrels very convenient. The handles of these funnels make their handling very easy.

	Size, mm
CH11093/1	200
CH11093/2	250



FUNNEL, BUCHNER

Porcelain, straight sides, integral perforated plate, glazed inside and outside.

	Diam., mm
CH11108/1	35
CH11108/2	50
CH11108/4	60
CH11108/5	75
CH11108/6	100
CH11108/7	125
CH11108/8	150
CH11108/9	200
CH11108/10	300
CH11108/11	400



FUNNEL, HIRSCH

Porcelain, Hirsch, with fixed perforated plate. Glaze except for rim.

	Diam., mm	Ht., mm	Capacity, ml
CH11109/1	30	50	10
CH11109/2	40	70	12
CH11109/3	50	75	25
CH11109/4	75	130	50
CH11109/5	100	175	140



FUNNEL TABLE

Porcelain, Buchner, table type, one piece, with side outlet for vacuum filtration. Glazed inside and out except for rim.

	Diam., mm	Ht., mm	Capacity, Ltr.
CH11111/1	145	107	1
CH11111/2	220	120	2

FUNNEL, BUCHNER

Polypropylene, two piece funnels easy to clean and autoclavable.

	Size, mm
CH11112/1	70
CH11112/2	90
CH11112/3	110

**THISTLE FUNNEL** 1

Borosilicate Glass.

	Length, mm
CH11114/1	200
CH11114/3	250
CH11114/5	300

**THISTLE FUNNEL, SHORT STEM** 2

Borosilicate Glass, for filling barometer tubes, burette etc.
CH11116

THISTLE FUNNEL, SAFETY 3

Borosilicate glass, with bend and two safety bulbs, length of stem 300 mm.
CH11118

FUNNEL STAND

Cork lined wood clamp with plastic screw, base with four feet, rod fitted with plastic socket, one end having threads which fit into the base.

CH11124/1	For 1 Funnel
CH11124/3	For 2 Funnels

**SEPARATORY FUNNEL**

Separatory funnel is made of polypropylene, giving it excellent contact clarity and strength. This pear shaped, autoclavable separating funnel has a leakproof threaded screw cap. The Polypropylene stopcock, fitted with a self lubricating PTFE plug, is push fitted to the stem of the separatory funnel

	Capacity, ml
CH11125/1	100
CH11125/3	250
CH11125/5	500

**FUNNEL HOLDER** 4

Made of Polypropylene these corrosion free funnel holders can hold funnels with dia 3" to 6". The extra plate provided can be placed to hold funnels bearing dia 1" to 3". Two tapered wedges are provided to ensure firm grip on Rods having dia 1/2" or 3/8".

CH11126/1	Single
CH11126/2	Double

SEPARATORY FUNNEL HOLDER 5

This non-corrosive Separatory Funnel Holder, moulded in Polypropylene, has a front opening which provides clear view of the solution and allows unobstructed placement of separating funnels. Two tapered wedges are provided to ensure firm grip on Rods having dia 1/2" or 3/8".

CH11127

GAS TUBE

Graduated, glass, sealed at one end. Capacity 50 x 0.2 ml.
CH11128

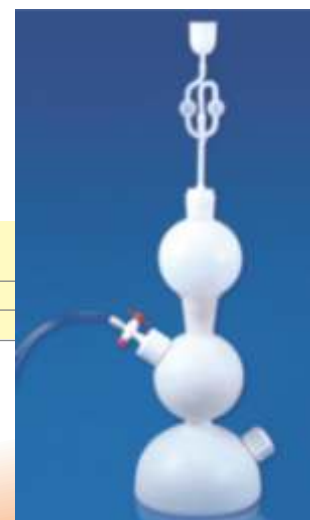


info@shivsons.com
www.shivsons.com

KIPP'S APPARATUS

Made of polyethylene, unbreakable, leakproof, detachable for easy cleaning.

	Capacity, ml
CH11134/2	250
CH11134/4	500
CH11134/6	1000



GAS JAR

Glass, with foot and ground flange.

	Diam., mm	Height, mm
CH11136/1	50	150
CH11136/2	50	200
CH11136/3	50	250
CH11136/5	75	200
CH11136/7	75	250
CH11136/9	75	300



GAS JAR COVER

Ground glass, circular, diam. 75 mm.

CH11140

GAS JAR

These transparent polystyrene gas (specimen) jar are used to preserve different specimens in the lab are provided with a cap that fits in tight. These Jars provided excellent protection to the species preserved in it.

	Size, mm
CH11143	Ø50 mm X h 200 mm



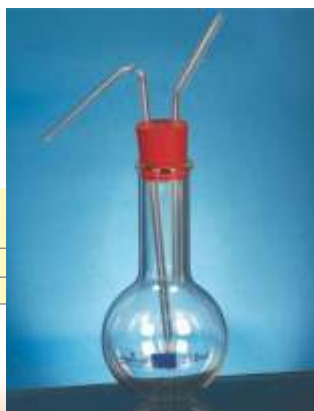
BUNSEN EUDIOMETERS

For demonstrating combining volume ratios of gases. Long, sturdy tubes have platinum electrodes sealed at the closed end, Amber graduation capacity 50 ml. CH11145

GAS WASHING BOTTLE

Flat bottom flask with stopper and two glass tubes.

	Capacity, ml
CH11150/2	250
CH11150/3	500
CH11150/5	1000



GAS WASHING BOTTLE, DRESCHEL'S

Borosilicate glass, inlet and outlet tubes in a stopper which fits the bottle having interchangeable 19/26 ground glass joint.

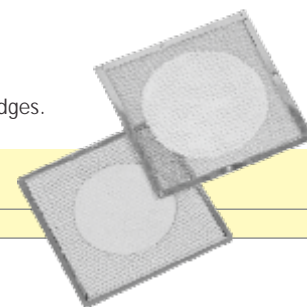
	Capacity, ml
CH11155/1	125
CH11155/2	250



GAUZE, IRON

Ceramic Center, with folded edges.

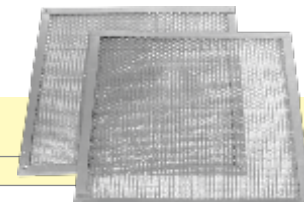
	Size, mm
CH11157/2	125 x 125
CH11157/5	150 x 150



GAUZE, IRON

Plain.

	Size, mm
CH11157P/2	125 x 125
CH11157P/5	150 x 150



HEATING MANTLE

Glass yarn heating net in one piece aluminium body, with mineral wool lagging, for 220-240 V AC, to work upto 350°C. With Energy regulator for temperature control.

With Energy Regulator	Capacity, ml	Rating (W)
CH11161/1	50	60
CH11161/2	100	60
CH11161/3	250	150
CH11161/4	500	200
CH11161/5	1000	300
CH11161/6	2000	450
CH11161/7	3000	450



SOXHLET EXTRACTION HEATING UNIT

Unit comprises a compact box section of mild steel housing, Heating mantles consist of coiled element supported by glass yarn net. These flexible units ensure close contact with flask surface and even distribution of heat. The housing has two vertical and two horizontal rods with clamps to fix glass apparatus. Each heating mantle is provided with an energy regulator and indicator lamp. Without glass parts.

CH11164/3 Unit of three mantles, 375 watt

CH11164/6 Unit of six mantles, 750 watt

GLASS PARTS FOR ABOVE

CH11164S



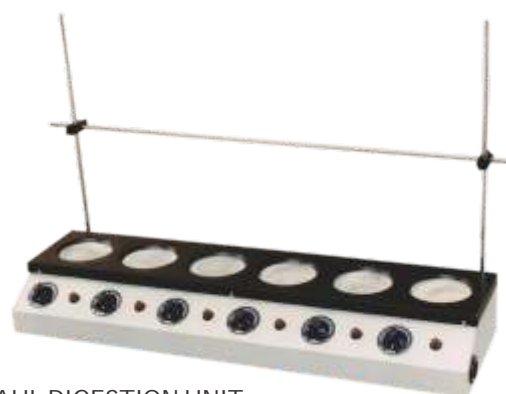
KJELDAHL DISTILLATION UNIT

Useful for distillation for 300 and 500 ml flasks, provided with tubular stand and brass condenser rack. Each heating mantle is provided with an energy regulator and indicator lamp, with six heating mantles, without glass parts.

CH11165

GLASS PARTS FOR ABOVE

CH11165S



KJELDAHL DIGESTION UNIT

Useful for estimation of nitrogen contents of substances by digestion, for 300 and 500 ml flasks. Provided with lead fume duct, mild steel stand and pair of hangers. Each heating mantle has an energy regulator and indicator lamp, without glass parts. Unit with six heating mantles.

CH11166

GLASS PARTS FOR ABOVE

CH11166S



LABORATORY HOT PLATE , ROUND

Cast Iron Hotplate of diam. 20 cm mounted on steel body. Maximum surface temp. Approx. 300° C, temp. is controlled by a three position rotary switch. Works on 220 VAC/50 Hz.

CH11168



LABORATORY HOT PLATE , RECTANGULAR

Body made out of mild steel sheet. Hot plate made of cast iron. Heavy duty heating elements to work on 220V AC. Temp. is controlled by a three position rotary switch. Hot plate dia 20 cm. (8") to work on 220 VAC. Hot plate is rectangular in shape.

CH11170/1 30 x 25 cm (12 x 10")

CH11170/2 40 x 25 cm (16 x 10")

CH11170/3 45 x 30 cm (18 x 12")



INCUBATOR, UNIVERSAL

Double walled, inner chamber made of thick anodized aluminium or stainless steel and outer of mild steel, The gap of 75 mm between two walls is filled with glass wool for heat insulation. The door has double viewing to permit observation without opening. Heating elements are placed in ribs at the bottom and at sides. Built-in L-shape horizontal thermometer 0 to 110°C. for uniform heating. Temperature is controlled by a precision thermostat from 5° C above room temperature to 70°C, with sensitivity of ±1°C. Complete with 2 indicator lamps, Adjustable perforated shelves. Having arrangement to fit an automatic timer. Works on 220-240 V, 50 Hz. Supplied complete with 1.5 meter of 3-core cable.

Aluminium	Stainless Steel	Inner Size, mm	No. of Shelves
CH11177/1	CH11178/1	300 x 300 x 300	2
CH11177/2	CH11178/2	350 x 350 x 350	2
CH11177/3	CH11178/3	450 x 450 x 450	2
CH11177/4	CH11178/4	450 x 600 x 450	2
CH11177/5	CH11178/5	600 x 600 x 600	2
CH11177/6	CH11178/6	600 x 900 x 450	3
CH11177/7	CH11178/7	600 x 900 x 600	3

OPTIONAL ACCESSORIES

Factory fitted, in any of the above sizes.

CH11179T	Timer
CH11179C	Circulatory Fan
CH11179E	Electronic digital temperature indicator.



DIGITAL PHOTO COLORIMETER, 8 FILTERS

8 filters mains operated with optical density in 2½ digit LED display, Range 400 to 700 nm, 1 ml solution measurement.

Designed to deliver stable, direct readout of absorbance. Available in compact and easy to operate finish, these systems are capable for analyzing any level of concentration of solution.

Technical Specifications :-

Std. Glass Filter	: 8
Mini Volume	: 1 ml
Display	: 2½ Digit LED
Range	: 400-700 nm
Output	: OD (0 to 1.99)
Resolution	: OD : 0.01
Accuracy	: 0.5% FSI
Detector	: Selenium Photocell
Light Source	: 6.8v, 300mA
Power	: 230V ±10%, 50 Hz, AC
Accessories	: Test Tube Set of 5, Spare Lamp, Dust Cover, Manual
Filters	: 8 Filters - 400, 420, 480, 500, 520, 540, 620, 680 nm

CH11180

DIGITAL PHOTO COLORIMETER, 5 FILTERS

5 filters mains operated with optical density in 2½ digit LED display, Range 400 to 700 nm, 1 ml solution measurement.

Technical Specifications :-

Std. Glass Filter	: 5
Mini Volume	: 1 ml
Display	: 2½ Digit LED
Range	: 400-700 nm
Output	: OD (0 to 1.99)
Resolution	: OD : 0.01
Accuracy	: 0.5% FSI
Detector	: Selenium Photocell
Light Source	: 6.8v, 300mA
Power	: 230V ±10%, 50 Hz, AC
Accessories	: Test Tube Set of 5, Spare Lamp, Dust Cover, Manual
Filters	: 5 Filters - 420, 480, 540, 620, 680 nm

CH11181





CONDUCTIVITY METER

Useful for measuring conductivity of homogeneous electrolytic solutions. Supplied with conductivity cell of cell constant 1, cell stand and standard conductivity solution.

Range : 0.01 micro siemen/ cm to 199.9 milli siemens/ cm in 5 ranges of 20 micro s/cm, 200 micro s/cm, 2 milli s/cm, 20 milli s/cm and 200 milli s/cm.

Accuracy : $\pm 3\%$ of range

Re-Calibration: Front panel control with the help of standard conductivity solution supplied with the meter, helps in easy re-calibration of the conductivity meter.

Display: $3\frac{1}{2}$ digit, 7 segment, bright LED type of 12.5 mm height. Decimal point and over-range indications are provided.

Power Requirements : $230 \pm 10\%$ volts AC, 50/60 Hz, 5 VA

Standard Accessories: Conductivity cell of cell constant 1, cell stand, standard conductivity solution and instruction manual.

CH11182



WATER AND SOIL ANALYSIS KIT $3\frac{1}{2}$ DIGIT LCD DISPLAY COVERING 5 PARAMETERS

pH, Conductivity, TDS, ORP and Temperature. Battery cum mains operated, complete with accessories, fitted in briefcase.

CH11184



SINGLE BEAM MICROPROCESSOR UV-VIS SPECTROPHOTOMETER

Range 195 to 1000 nm with facility for automatic concentration, %Transmission, Absorbance and K Factor measurements. Manual wavelength calibration and selection. Sample holder with 4 position selector control for 10 mm path length cuvettes. Interface (RS 232). Set of 2 quartz and 4 glass cuvettes is provided. Software included (Imported).

Features:

- Cover 195 to 1000 nm
- 4 Position Cuvette Holder
- RS-232C Computer Interface
- High wavelength Precision
- Compact and Good Looking Shape
- Highly Accurate and Stable

Technical Specifications :

Photometric Range	: %T : 0 to 100%, Abs. : 0 to 1.999 Conc. : 0 to 1999, K-Factor : 0 to 1999
Accuracy	: ± 0.005 Abs at 1.0 Abs ± 0.010 Abs at 1.0 Abs
Stray Light	: Less than 0.1% Abs at 320 nm
Readability	: ± 1 Count
Data Readout	: Single Line LCD display
Key Board	: 4 KEYS, Soft touch membrane type
Painter Interface	: Printer interface for any printer
Serial Interface	: RS 232C interface
Light Source	: a) Tungsten Halogen Lamp b) Deuterium Lamp (D2)
Detector	: Wide range Silicon Photodiode
Optics	: Complete mirror optics with resolution 1200 grooves/mm grating
Sample Holder	: 4 position adjustable sample holder
Power	: $230V \pm 10\%$, 50 Hz. AC
Dimensions	: 420 x 350 x 240 mm (l x b x h) Approx.
Weight	: 10 Kg. (Approx.)
Wavelength	: 195 to 1000 nm
Spectral Bandwidth	: 2 nm
Accuracy	: ± 0.5 nm
Repeatability	: ± 0.3 nm
Resolution	: 0.1 nm

CH11186



DIGITAL COLONY COUNTER

4 digit LED display Range 0-9999 with 125 memory, hold and count correction facility. Data restored even after power failure.

Technical Specifications :

- Digital Display : 4 digit, 999 Max. Count
- Dish size : 110 mm
- Magnification : x 1.7
- Dimensions : L 210 x B 270 x H 125 mm (approx.)
- Weight : 3 Kgs. (approx.)
- Packaging : 23 cm x 28 cm x 20 cm
- Power : 230V - 10% AC, 50 Hz, 40W
- Accessories : Marking Pen (1 No.)
Magnifier Lens (1 No.)

CH11187

AUTOMATIC MELTING POINT APPARATUS 1

High Precision Melting Point is Displayed on 3½ digit display on front panel. Automatic Furnace cut off with audio and visual indication. Range 40°C to 350°C, readability 1°C. Fully automatic operation.

Technical Specifications :

- Display : Digital 3½ Digit, Bright LED
- Accuracy : 1%
- Operation : Fully Automatic
- Dimensions : L 405 x B 360 x H 235mm (approx.)
- Weight : 5 Kg. (approx.)
- Power : 230V + 10, 50Hz.
- Accessories : Capillary Tube - 100 No
Cleaning Tool - 1 No.

Features:

- Fully Automatic
- Range upto 350°C
- Highly Accurate
- No Silicon Oil/Heating Media Required

CH11188



DIGITAL DISSOLVED OXYGEN METER

3½ digit LED display with Gold/Silver D.O. Probe. (Table Model)

These are used to evaluate oxygen liquefy in water and index of biological and physical processes in water. With the specification of power 230V A.C. 50 Hz. and range between D.O. 0 to 20.0 PPM, these are highly durable and accurate.

Technical Specifications :

- Range D.O. : 0 to 20.0 ppm
- Resolution D.O. : 0.1 ppm
- Accuracy D.O. : 0.1 ppm + 1 count
- Temp. Compensation : 0°C to 50°C Manual
- Compensation D.O. : + 3%
- D.O. Sensor type : Amperometric Gold/Silver membrane

General :

- Display : 3½ digit LED display
- Power : 230V A.C. 50 Hz.
- Weight : 2 Kg.

Standard Accessories :

- DO Electrode : 1 No.
- Instruction Manual : 1 No.
- D.O. Membranes : 10 Nos.

CH11189



1



AUTO KARL FISHER TITRIMETER

Auto Karl Fisher Titrimeter having array of LED's provided with inbuilt stirrer, auto zero burette, adjustable timer, dual platinum electrode and other accessories.

Features :

- Durable
- High Performance
- Superior Efficiency
- Reliable Operations

Technical Specifications :

Display	:	Array of 10 LED's in line
Sample Size	:	1-50 mg of water
K.F. Dispensing	:	0.05 ml
Resolution		
Indication	:	RUN ADD END Display in Auto Mode
Power	:	230V + 10/50 Hz.
Size	:	435 x 305 x 150mm
Weight	:	5 Kg. (Approx.)
Buzzer	:	Yes
CH11190		

JAR, COUPLIN

With cover, for 5 slides in vertical position.
CH11192



JAR, COUPLIN

Coplin Jar made of Polypropylene can hold 10 slides of the size 1"x3" back to back. The interior of the Coplin Jar is grooved in a way to hold slides in vertical position. Domed & shallow thread screw cap provides protection to the slides.
CH11193



JAR, STAINING, RECTANGULAR

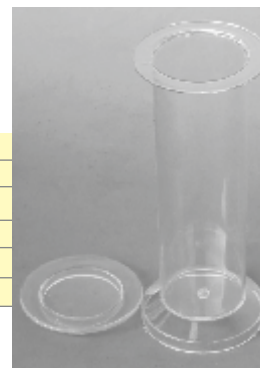
With cover, for 10 slides in horizontal position.
CH11194



JAR, SPECIMEN

Round, with ground flange,
Knobbed stopper.

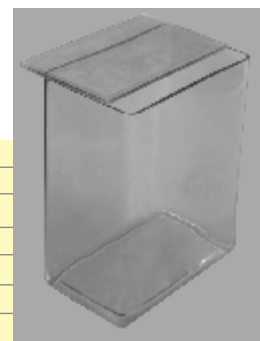
	Ht. x diam., mm
CH11196/1	150 x 50
CH11196/2	200 x 50
CH11196/3	250 x 50
CH11196/4	200 x 75
CH11196/5	250 x 75



JAR, SPECIMEN

Rectangular, with cover,
but without stopper.

	Ht. x length x width., mm
CH11198/1	50 x 50 x 30
CH11198/2	100 x 50 x 60
CH11198/3	150 x 100 x 50
CH11198/4	150 x 90 x 60
CH11198/5	150 x 120 x 90
CH11198/6	200 x 100 x 150



STAINING BOX

Moulded in Polypropylene, this staining box helps in staining, fixing, de-staining and handling fragile electrophoresis gels and membranes. Box as well as cover will resist temperatures from - 70°C to +70°C. The LDPE plug provides leakproof seal and allows easy liquid drainage.



	Size
CH11199	125mm x 125mm x 50mm

LABORATORY FITTINGS

WATER TAP, SWAN NECK

Inlet tail is threaded 1/2 in. BSP, The outlet brass tube is coupled to the tap standard by means of a sleeve nut allowing the neck to swivel or to be locked in any desired direction, leakproof operation, designed for pressures upto 80 p.s.i. finished in hard chrome plating.

CH11200/1	Water Tap, Single
CH11200/2	Water Tap, Single, heavy
CH11200/3	Water Tap, Two way
CH11200/4	Water Tap, Two way, heavy
CH11200/5	Water Tap, Three way
CH11200/6	Water Tap, Three way, heavy





GAS TAPS

Made of selected material, heavy construction, made to ensure leak proof performance. Each piece is tested for pressure. Lever handle is spring loaded and has locking arrangement to ensure that rotation does not go beyond 90°, standard nozzles have 1 mm bore, inlet 1/4 in. BSP, flange diam. 54 mm with three holes to screw on bench or any other surface. Designed to operate pressure upto 2 P.s.i (0.14 Kg/cm²), suitable for coal gas, natural gas or bottled L.P.G., supplied complete with adaptor.

CH11205/1	One way gas tap
CH11205/3	Two way gas tap
CH11205/5	Three way gas tap
CH11205/7	Four way gas tap

Accessories

CH11207/1	Adaptor, spare
CH11207/3	Nut for joining adaptor to copper tube
CH11207/5	T-joint, flared, forged brass with 3 nuts, size 5/16"



DRAWING MATHEMATICAL SET

For students use, set comprises 1 compass, 1 divider, 1 protractor, 1 set square 60°, 1 set square 45°, 1 plastic ruler 15 cm, 1 eraser and 1 pencil. Complete set in sheet metal Box.
CH11215

DRAWING BOARD

Soft wood, clamped edges.

CH11218/1	440 x 320 mm
CH11218/3	630 x 450 mm



MICROMETER SCREW GAUGE

Brass Body, with steel screw of 0.5 mm pitch, thimble with ratchet stop, range 0 to 25 mm, reading to 0.01 mm, in plastic pouch.
CH11219



METRIC MICROMETER

Stain finish frame, calibrated to 25 mm x 1 mm pitch with friction thimble to permit consistent measurements. Machine-cut graduations, with ratchet stop.
CH11220



VERNIER CALLIPERS

Plated steel. Double scale, reading 0-12 cm x 0.1 mm and 5 x 0.01 inch, with depth gauge and thumb wheel for fine adjustment, in plastic pouch.
CH11225



VERNIER CALLIPERS, IME TYPE

Chrome plated steel, heavy type, scale 150 x 0.1 mm and 6 x 0.01 inch, sliding jaw with thumb movement for fine adjustment.
CH11230



VERNIER CALLIPERS

Plastic with scale printed black.
CH11235





METER RULE

Non-warping wood, 25 mm wide, double scale in mm, figured every cm. The scales on the two edges read in opposite directions.

CH11500/1	1 meter
CH11500/3	½ meter



MEASURING TAPE

Woven metal wired tape in ABS case, with handle for rewinding.

	Length, metre
CH11510/1	5
CH11510/2	10
CH11510/3	20
CH11510/4	30
CH11510/5	50



METER STICK, DOUBLE SIDED 1

Graduation dm, cm, mm on one side and inch, 1/8 inch on other side. CH11504

METER STICK, DOUBLE SIDED 2

With metal ends, graduation dm, cm, mm on one side and inch, 1/8 inch on other side. CH11508



HALF METER STICK, DOUBLE SIDE

Graduation dm, cm, mm on one side and inch, 1/8 inch on other side. CH11512



MEASURING TAPE

Steel, in unbreakable case, self re-winding. graduated in mms, figured every cm.

	Length, metre
CH11509/1	1
CH11509/2	2
CH11509/3	3
CH11509/5	5

Shiv Dial Sud & Sons
 23, Industrial Estate
 Ambala Cantt - 133 006, INDIA
 Tel : +91-171-2699537, 2699297
 info@shivsons.com
 www.shivsons.com

MELTING POINT APPARATUS

Useful for determining melting points upto 300°C. Consists of an aluminum block which accepts three capillary tubes and a thermometer. The block is heated by two heating elements which are provided with a built-in energy regulator. The lamp provides uniform and shadowless illumination of samples. A lens is provided for the capillaries. Heating block and controls are enclosed in a metal box. Works on 220 V, 50 Hz supply.

CH11513



MELTING POINT APPARATUS, THIELE

Borosilicate glass, with side tube, overall size 182 x 84 mm. CH11516



MELTING POINT TUBES

Thin walled capillary tubes, 100 x 1.8 mm approx. pack of 100 tubes. CH11517

MELTING POINT APPARATUS, DIGITAL

	CH11514	CH11515
Display	4 Digit Seven segment LED display	3 Digit Seven segment LED display
Temperature	0 - 300° C	
Resolution	0 . 1° C	
Capillary Glass Tube	100 mm long, 0.8 to 1.1 mm Internal Diam.	
Boiling Point Tube	6 x 75 mm Glass Tube	
Sample Size	Fine powder properly dried at a temperature considerably below its melting point, 4 to 6 mm high	
Oil Bath	Silicon oil bath beaker - 200 ml capacity with teflon cover fitted with oil immersion heater. it is having three holes for holding the capillaries, one for boiling point tube & one for thermometer	
Stirrer Speed	Controllable with front knob	
Power	230 V ± 10% AC, 50 Hz	
Dimension	315 x 290 x 230 mm (L x B x H) Appx.	
Weight	12 Kgs. Appx.	

Accessories

Box of capillaries

Glass tubes for liquid sample (6 x 75 mm) 2 Nos.

Magnetic capsule

Bottle of silicon oil - 250 ml

Glass cylindrical beaker with teflon cover fitted with immersion heater.



New products can be developed as per buyer's specifications and requirements



GEOMETRICAL MODELS

Set of plane and solid geometric shapes. Plane shapes include triangles, figures with four, five, six, seven, eight, nine and ten sides, circle, semi-circle and quadrant. The solid shapes include cylinder, sphere, cube, tetrahedron, pyramid, cone, prism. Cube size 30 mm, cylinder height 50 mm.

CH11520



ATOMIC MODEL SET

With plastic balls in various sizes and colors, and link lugs, in box.

CH11550/1	Set of 60 balls
CH11550/3	Set of 120 balls
CH11550/5	Set of 360 balls



ATOMIC MODEL SET

Consists of moulded balls of different colors and sizes along with connecting lugs of different sizes. These sets are very helpful in modelling different organic and inorganic compounds.

SENIOR SET : This set consists of 185 lugs and 370 balls of prescribed colors and size packed in a moulded box having separate space for every particular color and size of ball. Senior set.

CH11555/2

JUNIOR SET : This set consists of 37 connecting lugs and 75 balls of different colors and sizes packed in a moulded box.

CH11555/4



GEOMETRICAL MODELS & FIGURES

Made of hard wood, set of 16, in box.

	Size, mm
CH11522/1	40 x 25
CH11522/2	50 x 30



ATOMIC MODEL SET

This set consists of moulded balls of different colours and sizes along with connectors of different sizes. The sizes and shapes of the balls and connecting lugs have been designed in accordance with internationally acceptable standards.

CH11560/2	Student Set
CH11560/4	Teacher Set

MODEL SET MOLECULAR - INORGANIC/ORGANIC

The set can be used to make any number of organic and inorganic molecules, can be used to demonstrate isomerism in organic compounds and many of the most common geometries shown by atoms main group and transition metal compounds. Packed in a suitable box with teaching notes.

Available in two options :

64 atoms of Different colors and 26 medium link grey 31mm and 12 long flexible links grey 46 mm. 3 Lone pair, pear shape Beige colour.
CH11562/1



52 atoms of Different colour and 20 medium link grey 31 mm, 5 medium link purple colour 31 mm and 12 long flexible links grey 46 mm. 3 lone pair electron cloud flat pear shaped.
CH11562/3



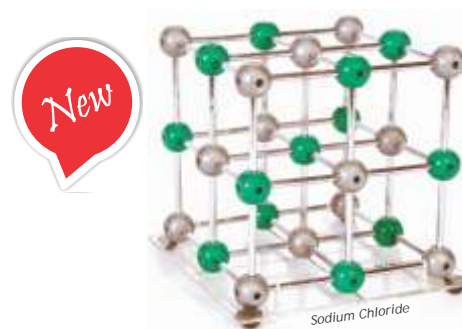
MODEL SET MOLECULAR - INORGANIC/ORGANIC

The set can be used to make models of many organic molecules and also to illustrate various forms of isomerism in organic systems.

Atom parts are made of solid plastic spheres and are available with from 1 - 6 holes in the usual angular orientations.

The contains 50 atoms of Different colours, 26 short white links, 26 medium grey links 31 mm and 10 long grey flexible links 46 mm. 1 Link Removers Beige colour. Packed in a suitable box with teaching notes.

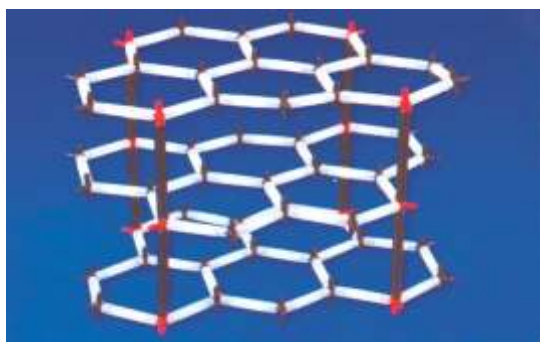
CH11564



LARGE CRYSTAL MODEL

Large crystal models to introduce crystal lattices and unit cells to students. Mounted permanently onto a clear acrylic base to minimize the possibility of lost parts.

CH11566/1	Sodium Chloride
CH11566/2	Diamond
CH11566/3	Graphite



CRYSTAL MODEL SET

These crystal model sets contain different colored jacks (Red, Black, and White) and connectors (long & short) in a prescribed number to be joined together on an illustrated way to form structures like Diamond, Graphite and Sodium Chloride.

CH11570/2	Diamond
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CH11570/3	Sodium Chloride
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CH11570/4	Graphite
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CRYSTAL MODEL SET

Made of hard wood,
set of 20, in box.

CH11572



MEGAMOLECULES - THE STRUCTURE OF WATER

The kit allows students to explore the attractions between water molecules which are responsible for creating surface tension. Electrical forces between the water molecules are simulated with the help of magnets. The hydrogen atom of one water molecule is attracted to the lone pair of electrons of the other water molecule.

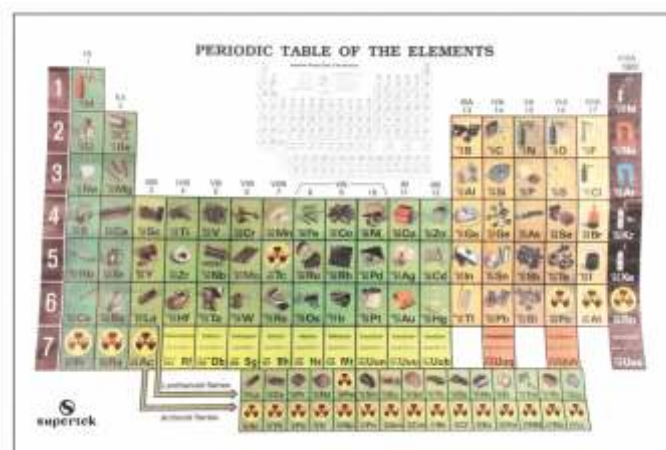
Kit consists of: 2

MAGNETIC WATER MOLECULES

1 Foam Fish

1 Modeling Activity

CH11575



CHART, POLYART, PLASTIC

Class room size 75 x 100 cms. Printed on polyart plastic sheet, colored, fitted with plastic roller.

CH11580/1	Periodic Table
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CH11580/2	Chart Laboratory Safety
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CH11580/3	Chart Laboratory Techniques
-----------	-----------------------------

CH11580/4	Chart pH Colour
-----------	-----------------



PERIODIC PUZZLE, WOODEN

To show the working of periodic tables in form of blocks. Supplied in wooden box.

CH11585/1A	Set of 118 Elements.	1
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CH11585/3A	Set of 20 Elements.	2
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MORTAR & PESTLE

Porcelain, Mortar with spout, glazed outside except bottom, unglazed inside. Pestle unglazed to grinding surface.

	Inside Diam., mm	Capacity, ml
CH11605/1	60	60
CH11605/2	75	100
CH11605/3	85	150
CH11605/4	100	275
CH11605/5	125	550
CH11605/6	150	900
CH11605/7	175	1500
CH11605/8	200	2000
CH11605/9	250	4200
CH11605/10	300	7000
CH11605/11	350	-
CH11605/12	400	-

MORTAR & PESTLE, AGATE

Made of Naturally occurring Agate Stone, recommended for use in laboratories demanding contamination-free results.

	O.d., mm	I.d., mm	H.t., mm
CH11610/2	28	23	20
CH11610/3	40	31	27
CH11610/4	50	40	30
CH11610/5	60	57	33
CH11610/6	78	65	39
CH11610/7	100	87	44
CH11610/8	115	100	51
CH11610/9	125	111	61
CH11610/10	150	134	63

PESTLE

	Length, mm		Length, mm
CH11615/1	25	CH11615/6	100
CH11615/2	40	CH11615/7	115
CH11615/3	50	CH11615/8	125
CH11615/4	65	CH11615/9	150
CH11615/5	75		



SEROLOGICAL PIPETTES, STERILE, POLYSTYRENE

- Individually wrapped graduated pipettes with paper/ plastic peel-pack.
- Unique color-coded plug allows easy size identification.
- Sterile, individually wrapped and certified nonpyrogenic and DNase, RNase-free.
- Lot numbers printed on each pipette wrapper.
- Accuracy within $\pm 2\%$ at full volume.

	Length, mm	Capacity, ml
CH11620/1	270	1
CH11620/2	270	2
CH11620/3	295	5
CH11620/4	295	10
CH11620/5	298	25
CH11620/6	300	50



PASTEUR PIPETTES, LDPE

- Unbreakable, non-toxic all-in-one pipettes eliminate the hazard of broken glass and exposure to infectious materials.
- Molded from translucent low-density polyethylene they are inert to biological fluids and most acids.
- Can be sealed and refrigerated.
- The low-affinity, low binding surface reduces the loss of cells and valuable proteins.
- Sterile and non-sterile options available.

	Capacity, ml	Length, mm
CH11622/1	1.0	150
CH11622/2	1.0 (Sterile)	150
CH11622/3	3.0	155
CH11622/4	3.0 (Sterile)	155



UNIVERSAL OVEN

For heating up to 250°C. Inside chamber made of thick aluminium or stainless steel sheet. Outside made of mild steel, the gap between the walls being filled with glass wool. Heating elements are placed in the bottom and sides of chamber for uniform heating. Thermostatic control is provided which gives a temperature fluctuation of not more than $\pm 1^\circ\text{C}$ read by an L-shape thermometer. The insulated door closes firmly against heat resistant gasket and is provided with a handle with spring latch. Front panel has ON/OFF switch, 2 neon indicators and dial for temperature setting. Unit provided with 1.5 m of 3-core cable. Works on 220-240 VA.C.

Aluminium	Stainless Steel	Inner Size, mm	No. of Shelves
CH11812/1	CH11813/1	300 x 300 x 300	2
CH11812/2	CH11813/2	350 x 350 x 350	2
CH11812/3	CH11813/3	450 x 450 x 450	2
CH11812/4	CH11813/4	450 x 600 x 450	2
CH11812/5	CH11813/5	600 x 600 x 600	2
CH11812/6	CH11813/6	600 x 900 x 450	3

OPTIONAL ACCESSORIES

Factory fitted, to be ordered along with the oven.

CH11814T	Timer
CH11814F	Air Circulating fan
CH11814I	Digital temperature indicator
CH11814C	Digital temperature controller-cum-indicator

DIGITAL PH METER

Handy and accurate pH measuring instrument for chemical, Food, Waste water and laboratory applications. Different pH combination Electrodes available.

- Sensor / Input : pH Combination Electrode
- Range : 0 to 14.00 pH
- Accuracy : ± 0.02 pH
- Special Features : Portable
- Battery Operated
- 0 to 100°C Temp. Compensation
- Interchangeable pH Electrode



pH METER

For measurements of pH values of homogeneous electrolytic solutions. Supplied with glass combination type of electrode, electrode stand & pH buffer solutions of 4 & 7 pH. The buffer solutions help in easy re-calibration of the pH meter. Standardization (7pH) and slope (4pH) adjustment controls are provided on the front panel. Detachable electrode ensures replacement convenience. Self check facility control on front panel enables users to ensure that the pH meter is functioning properly. Temperature setting on front panel provides compensation for different temperatures of solutions.



- pH Range : 0 to 14.00 with resolution of 0.01 pH
- Milli Volt Range: 0 to ± 1999 milli volts DC with resolution of 1 milli volts. pH or milli volt measurement selection is provided with a front panel control.
- Accuracy : ± 0.04 pH for pH measurements
 $\pm 0.2 \pm 2$ milli volts form milli volts measurements
- Temperature Compensation: 0°C to 100°C , settable with continuously adjustable front panel control.
- Self Check Facility: Available with front panel control. Displays read 7.00 ± 0.02 pH to indicate proper functioning of the pH meter.
- Re-Calibration: Front panel preset control of STANDARDIZATION enables calibration of 7 pH.
Front panel preset control of SLOPE enables calibration of 4 pH. Buffer solutions of 4 & 7 pH are supplied with the pH meter to re-calibrate the pH meter.
- Display: $3\frac{1}{2}$ digit, 7 segment, bright LED type of 12.5 mm height. Decimal point, over-range and negative polarity indications are provided.
- Power Requirements : $230 \pm 10\%$ volts AC, 50/60 Hertz, 5 VA
Standard Accessories: Glass combination type of pH electrode, electrode stand, buffer solutions of 4 & 7 pH and instructions manual. PHM10004

PORTABLE pH METER 'HANDY'

$3\frac{1}{2}$ digit LCD display in ABS Plastic body, touch switches with combination pH electrode. PHM10006



pH METER, POCKET

- Range : - 0.0 to 14.0 pH
- Resolution : - 0.1 pH
- Accuracy : - ± 0.1 pH (@ $20^\circ\text{C}/68^\circ\text{F}$)
- Batteries : 3 x 1.5V alkaline



PIPETTE PUMP

A fast release pipetting device for precise pipetting & zip quick emptying. The Knurled thumbwheel can be rotated to draw up or dispense liquids while the releaser may be pushed in for zip - quick emptying. The moulded chuck has a silicon rubber collet inside to hold various pipettes of standard sizes. It resists acids and alkalis and can be easily disassembled for thorough cleaning.

	Size, ml
CH11815/1	2
CH11815/4	10
CH11815/5	25



VARIABLE VOLUME MICROPIPETTES

FEATURES

Constructed of high quality plastic and combined with stainless steel piston for many years of dependable service.

- Individually calibrated as per procedure laid down in ISO 8655 standards, a calibration report is provided with each pipette.
- Built-in, streamlined tip ejector facilitates easy tip ejection and access to narrow necked bottles and tubes.
- New body design provide improved ergonomics for more comfort and less fatigue during operation.
- User adjustment (re-calibration) can be performed easily.
- Easy volume adjustment by turning the plunger even when wearing gloves. Plunger does not snag gloves.
- Nine volume ranges cover the complete pipetting range from 0.2ul to 10ml offering a wide choice to select the most suitable model for any application.

Available in both Fully and Semi Autoclavable Versions.



Fully Autoclavable

Semi Autoclavable

Fully Autoclavable	Semi Autoclavable	Volume Range	Inc. μ l	Vol. μ l	Acc. \pm %	CV \leq %
FAA-2	VV-2	0.2-2.0 μ l	0.01	0.2	12.0	6.0
				1.0	2.5	1.5
				2.0	1.5	0.7
FAA-10	VV-10	0.5-10 μ l	0.1	0.5	5.0	2.8
				5.0	1.5	0.8
				10.0	1.0	0.4
FAA-20	VV-20	2-20 μ l	0.1	2.0	5.0	1.5
				10.0	1.0	0.6
				20.0	1.0	0.3
FAA-50	VV-50	5-50 μ l	1.0	5.0	2.5	1.5
				25.0	0.7	0.3
				50.0	0.7	0.3
FAA-100	VV-100	10-100 μ l	1.0	10.0	2.5	0.7
				50.0	0.8	0.3
				100.0	0.8	0.15
FAA-200	VV-200	20-200 μ l	1.0	20.0	2.5	0.7
				100.0	1.0	0.3
				200.0	0.6	0.2
FAA-1000	VV-1000	100-1000 μ l	10.0	100.0	1.6	0.3
				500.0	0.6	0.2
				1000.0	0.5	0.2
FAA-5000	VV-5000	0.5-5 ml	100.0	500.0	1.5	0.3
				2500.0	0.6	0.2
				5000.0	0.6	0.2
FAA-10000	VV-10000	1-10 ml	100.0	1000.0	1.5	0.3
				5000.0	0.6	0.2
				10000.0	0.6	0.2

FIXED VOLUME MICROPIPETTES

Fixed Volume Pipettes are designed for many different types of routine laboratory work. Using the same state-of-art design and basic features of variable volume pipettes, these fixed volume pipettes are ideal for Clinical Diagnostics, Control Analysis etc.

Available in both Fully and Semi Autoclavable Versions.



Semi Autoclavable

Fully Autoclavable

Fixed volume pipettes are available in all capacities from 1.0 μ l to 10000 μ l (10 ml)

Fully Autoclavable	Semi Autoclavable	Vol. μ l	Acc. \pm %	CV \leq %
FAF-1	FV-1	1.0	2.5	1.8
FAF-2	FV-2	2.0	2.5	1.2
FAF-5	FV-5	5.0	1.5	0.8
FAF-10	FV-10	10.0	1.0	0.5
FAF-20	FV-20	20.0	0.5	0.3
FAF-25	FV-25	25.0	0.5	0.3
FAF-50	FV-50	50.0	0.3	0.3
FAF-100	FV-100	100.0	0.3	0.2
FAF-200	FV-200	200.0	0.3	0.2
FAF-250	FV-250	250.0	0.3	0.2
FAF-500	FV-500	500.0	0.3	0.2
FAF-1000	FV-1000	1000.0	0.3	0.2
FAF-2000	FV-2000	2000.0	0.3	0.2
FAF-5000	FV-5000	5000.0	0.3	0.2
FAF-10000	FV-10000	10000.0	0.3	0.2

MULTICHANNEL MICROPIPETTES

Features

- Lower assembly rotates 360° for optimal working position.
- Optimum piston-spring balance for soft plunger movement.
- Easy volume setting.
- Easy sequential tip ejection system.
- Easy user calibration.
- High accuracy and performance conforming to ISO 8655 standards.
- Recommended for ELISA, Molecular Screening, Kinetic Studies,
- DNA amplifications

NON AUTOCLAVABLE



8 - Channel



12 - Channel

8-Channel Non Autoclavable Micropipette

8 Channel Non Autoclavable	Volume Range	Inc. μ l	Vol. μ l	Acc. \pm %	CV \leq %
MC-8/10	0.5-10 μ l	0.1	1	4.00	4.00
			5	2.50	2.50
			10	1.50	1.50
MC-8/20	02-20 μ l	0.1	2	4.00	4.00
			10	1.50	1.50
			20	1.50	1.00
MC-8/50	05-50 μ l	1.0	5	3.00	2.00
			25	1.50	1.00
			50	0.50	0.50
MC-8/100	10-100 μ l	1.0	10	3.00	1.50
			50	1.00	0.50
			100	1.00	0.50
MC-8/200	20-200 μ l	1.0	20	2.00	0.80
			100	1.00	0.50
			200	0.70	0.25
MC-8/300	40-300 μ l	1.0	40	2.00	0.80
			150	1.00	0.50
			300	0.70	0.25

12-Channel Non Autoclavable Micropipette

12 Channel Non Autoclavable	Volume Range	Inc. μ l	Vol. μ l	Acc. \pm %	CV \leq %
MC-12/10	0.5-10 μ l	0.1	1	4.00	4.00
			5	2.50	2.50
			10	1.50	1.50
MC-12/20	02-20 μ l	0.1	2	4.00	4.00
			10	1.50	1.50
			20	1.50	1.00
MC-12/50	05-50 μ l	1.0	5	3.00	2.00
			25	1.50	1.00
			50	0.50	0.50
MC-12/100	10-100 μ l	1.0	10	3.00	1.50
			50	1.00	0.50
			100	1.00	0.50
MC-12/200	20-200 μ l	1.0	20	2.00	0.80
			100	1.00	0.50
			200	0.70	0.25
MC-12/300	40-300 μ l	1.0	40	2.00	0.80
			150	1.00	0.50
			300	0.70	0.25

FOR SENSITIVE APPLICATIONS, THERE IS A CHOICE OF FULLY AUTOCLAVABLE MULTICHANNEL PIPETTES.

8-Channel Fully Autoclavable Micropipette

8 Channel Fully Autoclavable	Volume Range	Inc. μl	Vol. μl	Acc. $\pm\%$	CV $\leq\%$
MCA-8/10	0.5-10 μl	0.1	1	4.00	4.00
			5	2.50	2.50
			10	1.50	1.50
MCA-8/20	02-20 μl	0.1	2	4.00	4.00
			10	1.50	1.50
			20	1.50	1.00
MCA-8/50	05-50 μl	1.0	5	3.00	2.00
			25	1.50	1.00
			50	0.50	0.50
MCA-8/100	10-100 μl	1.0	10	3.00	1.50
			50	1.00	0.50
			100	1.00	0.50
MCA-8/200	20-200 μl	1.0	20	2.00	0.80
			100	1.00	0.50
			200	0.70	0.25
MCA-8/300	40-300 μl	1.0	40	2.00	0.80
			150	1.00	0.50
			300	0.70	0.25

FULLY AUTOCLAVABLE



8- Channel

12-Channel Fully Autoclavable Micropipette

12 Channel Fully Autoclavable	Volume Range	Inc. μl	Vol. μl	Acc. $\pm\%$	CV $\leq\%$
MCA-12/10	0.5-10 μl	0.1	1	4.00	4.00
			5	2.50	2.50
			10	1.50	1.50
MCA-12/20	02-20 μl	0.1	2	4.00	4.00
			10	1.50	1.50
			20	1.50	1.00
MCA-12/50	05-50 μl	1.0	5	3.00	2.00
			25	1.50	1.00
			50	0.50	0.50
MCA-12/100	10-100 μl	1.0	10	3.00	1.50
			50	1.00	0.50
			100	1.00	0.50
MCA-12/200	20-200 μl	1.0	20	2.00	0.80
			100	1.00	0.50
			200	0.70	0.25
MCA-12/300	40-300 μl	1.0	40	2.00	0.80
			150	1.00	0.50
			300	0.70	0.25



12- Channel

MINIATURE FIXED VOLUME MICROPIPETTES

Low cost miniature fixed volume pipettes are specially designed for use with Diagnostic Kits.

Features :
FULLY AUTOCLAVABLE

- Each pipette is individually calibrated as per ISO 8655 standards.
- Colour coded for different volumes for easy identification in laboratory environment.
- **UNIQUE TIP-CONE**
The tip cone of Li'lPet (5µl, 10µl, 20µl) is designed to accept both regular 200µl tips or ultra micro tips upto 20µl
- Use of Ultra micro tips for volumes upto 20µl enhances the accuracy and precision very significantly.
- Two-step plunger operation facilitates super blow-out from the tip (last drop dispensing), resulting in very high accuracy & precision.
- This also allows these pipettes to be used for reverse pipetting and repetitive pipetting. 130 mm in length which is an optimum size for user comfort during pipetting.



OPTIMUM SIZE

130 mm in length which is an optimum size for user comfort during pipetting.

	Vol. µl	Acc. ±%	CV ≤%
MM-5	5	1.5	1.0
MM-10	10	1.0	1.0
MM-20	20	0.5	0.5
MM-25	25	0.5	0.5
MM-50	50	0.4	0.3
MM-100	100	0.3	0.3
MM-200	200	0.5	0.5
MM-250	250	0.5	0.5
MM-500	500	0.5	0.5
MM-1000	1000	0.5	0.5

ELECTRONIC MICROPIPETTES

Based on Stepper Motor with Microprocessor controlled piston movement. These are user friendly and offer effortless pipetting. Accuracy & precision levels are very high and user-independent. This is a complete solution for every pipetting need.

- User friendly software.
- Easy, User friendly calibration.
- Recharging during operation.
- Optimized ergonomony and working comfort.
- Large Liquid Crystal Display.
- Built-in tip ejector.
- Six models cover the complete pipetting range from 0.2µl to 10000µl.

FEATURES

- Easy selection of modes from a single key
- Stepper mode
- Dilution mode
- Standard mode
- Calibration Mode

» Variable Working Speeds

Speed can be selected on a scale of 1-5.

» Volume Selection

Easy volume selection by 'UP' & 'DOWN' keys.

» Large Fire Button

Single 'FIRE BUTTON' for filling and dispensing.

» Large Liquid Crystal Display

Two line Alphanumeric LCD.

» Calibration

User friendly calibration mode facilitates easy calibration by the user.



	Volume Range	Inc. µl	Vol. µl	Acc. ±%	CV ≤%
ME-10	0.2-10 µl	0.05	0.2	12.00	10.00
			5	1.00	0.70
			10	0.90	0.40
ME-120	5-120 µl	0.5	5	3.50	1.50
			50	0.70	0.30
			120	0.40	0.15
ME-300	20-300 µl	1.0	20	2.50	0.70
			150	0.60	0.20
			300	0.40	0.15
ME-1000	50-1000 µl	5.0	50	2.00	1.00
			500	0.60	0.20
			1000	0.40	0.15
ME-5000	100-5000 µl	10.0	100	1.60	0.40
			2500	0.80	0.20
			5000	0.50	0.15
ME-10000	500-10000 µl	50.0	500	1.50	0.30
			5000	0.50	0.15
			10000	0.60	0.20

PIPETTE FILLING DEVICE

Friendly, efficient and reliable electronic pipette filling instrument. Designed for ease and comfort to suit all types of liquid handling needs in every Laboratory. Available in two attractive designs to cater individual preference.

Features

- Two LEDs
 - Red - low charging
 - Green - Charging status.
- Continuous adjustment of pump speed during operation.
- An universal Silicon collect is provided to accept all standard pipettes up to 100ml. Internal knurlings on the collet holds the pipette firmly. Comfortable grip.
- In-line membrane filter (0.2 micron) prevents
 - a. Aerosol Contamination.
 - b. Liquid from entering the equipment by accident.
- Ni-MH 3.6V rechargeable batteries are used in combination with low power consumption circuit and vacuum/pressure pump. Allows eight hours of continuous operation.



Pipette Filling Device

	Description
NE-WG	White body/Grey collect and plunger
NE-WV	White body/Violet collect and plunger
NE-WR	White body/Red collect and plunger



Available in attractive colour combination

BOTTLE TOP DISPENSER

An unique combination of affordable pricing and high performance. Simple design clubbed with variety of useful features makes Supertek Bottle Top Dispensers an obvious choice for all dispensing needs. High precision and accuracy is ensured through careful selection of component raw material and several stages of strict quality checks during manufacturing process. Each instrument is individually calibrated in accordance with ISO 8655 standards and comes with individual Calibration certificate.



Description	
Piston	PTFE
Cylinder	Glass
Volume Adjustment Knob	Screw Type
Valve Housing	PTFE
Valve assembly	Glass Ball & Seat
Discharge Assembly	PTFE
Delivery tube	FEP
Inlet tube	FEP
Calibration	Individually calibrated and certified. In-lab easy Calibration by the user is also possible.
Accuracy & Reproducibility	In accordance with ISO 8655 standards.
Compatibility	Excellent compatibility with all reagents except HF

Features:

- Easy to use, simple construction and smooth, effortless plunger movement for bubble free dispensing.
- Piston : Specially designed PTFE Piston with Silicone O-Ring ensures wiper-like smooth, effortless piston movement and high accuracy.
- Each instrument comes with five adaptors to fit in most of the laboratory reagent bottles. Standard threads : 30mm. Adaptors : 28mm, 32mm, 36mm, 40mm and 45mm
- Nozzle cap prevents any unwanted drop on the work space.
- Easy to dis-assemble for cleaning and servicing.
- Glass Barrel is protected by a polypropylene sleeve. It also ensures no glass splitting in case of any accidental breakage.
- Valve Manifold : Specially designed, springless, single piece PTFE valve manifold in the Research Model ensures excellent chemical compatibility, leak proof valve functioning and excellent reproducibility.
- Instrument is fully autoclavable at 121°C, 15 psi. No need for dis-assembling the instrument for autoclaving.
- Screw type volume adjustment knob with large pointer ensures precise, easy and quick volume adjustment.
- Calibration : Specially designed universal calibration tool is provided for convenient and quick in-lab user re-calibration. This is in compliance with GLO/ ISO Norms.

	Vol. Range	Increment	Accuracy ±%	±ml	CV ±%	±ml
BTDR-1	0.25-2.5 ml	0.05 ml	0.6	0.015	0.2	0.005
BTDR-2	0.5-5 ml	0.1 ml	0.5	0.025	0.1	0.005
BTDR-3	1-10 ml	0.2 ml	0.5	0.050	0.1	0.010
BTDR-4	2.5-30 ml	0.5 ml	0.5	0.150	0.1	0.030
BTDR-5	5-60 ml	1.0 ml	0.5	0.300	0.1	0.060

HIGH PRECISION MICROPIPETTES (RBO Series)

VARIABLE VOLUME FULLY AUTOCLAVABLE

High precision micropipette series for advance users in the field of Molecular biology, Microbiology, Immunology, Cell Culture, Analytical Chemistry, Biochemistry, Genetics etc. High quality spring mechanism ensures softer plunger movement. Nine volume ranges cover the complete pipetting range from 0.2 μ l to 10 ml offering a wide choice to select the most suitable model for any application.



FULLY AUTOCLAVABLE Variable Volume Micropipettes

	Volume Range	Inc. μ l	Vol. μ l	Acc. \pm %	CV \pm %
RBO-2	0.2 - 2.0 μ l	0.002	0.2	12.0	6.0
			1.0	2.5	1.5
			2.0	1.5	0.7
RBO-10	0.5 - 10 μ l	0.02	0.5	5.0	2.8
			5.0	1.5	0.8
			10.0	1.0	0.4
RBO-20	2 - 20 μ l	0.02	2.0	5.0	1.5
			10.0	1.0	0.6
			20.0	1.0	0.3
RBO-50	5 - 50 μ l	0.1	5.0	2.5	1.5
			25.0	0.7	0.3
			50.0	0.7	0.3
RBO-100	10 - 100 μ l	0.2	10.0	2.5	0.7
			50.0	0.8	0.3
			100.0	0.8	0.15
RBO-200	20 - 200 μ l	0.2	20.0	2.5	0.7
			100.0	1.0	0.3
			200.0	0.6	0.2
RBO-1000	100 - 1000 μ l	1.0	100.0	1.6	0.3
			500.0	0.6	0.2
			1000.0	0.5	0.2
RBO-5000	0.5 - 5 ml	10.0	500.0	1.5	0.3
			2500.0	0.6	0.2
			5000.0	0.6	0.2
RBO-10000	1 - 10 ml	20.0	1000.0	1.5	0.3
			5000.0	0.6	0.2
			10000.0	0.6	0.2

FULLY AUTOCLAVABLE Fixed Volume Micropipettes

Fixed Volume Pipettes are designed for many different types of routine laboratory work. Using the some state-of-art design and basic features of Variable Volume Pipettes, these fixed volume pipettes are ideal for Clinical Diagnostics, Control Analysis etc.



Color Coding

Attractive color coding for easy identification between different volume ranges

	Vol. μ l	Acc. \pm %	CV \pm %
RBO-F-1	1.0	2.5	1.8
RBO-F-2	2.0	2.5	1.2
RBO-F-5	5.0	1.5	0.8
RBO-F-10	10.0	1.0	0.5
RBO-F-20	20.0	0.5	0.3
RBO-F-25	25.0	0.5	0.3
RBO-F-50	50.0	0.3	0.3
RBO-F-100	100.0	0.3	0.2
RBO-F-200	200.0	0.3	0.2
RBO-F-250	250.0	0.3	0.2
RBO-F-500	500.0	0.3	0.2
RBO-F-1000	1000.0	0.3	0.2
RBO-F-2000	2000.0	0.3	0.2
RBO-F-5000	5000.0	0.3	0.2
RBO-F-10000	10000.0	0.3	0.2



LARGE GRIPPY

Specially designed large grippy is provided for comfortable grip and ease during working.

MULTICHANNEL MICROPIPETTES

Recommended for ELISA, Molecular screening, Kinetic studies, DNA amplifications etc.

8 - Channel Fully Autoclavable Micropipette

12- Channel Fully Autoclavable Micropipette

8-Channel Fully Autoclavable Micropipette	12-Channel Fully Autoclavable Micropipette	Volume Range	Inc. μl	Vol. μl	Acc. $\pm\%$	CV $\pm\%$
RBO-MCA/8	RBO-MCA/12	0.5 - 10 μl	0.1	1	4.00	4.00
				5	2.50	2.50
				10	1.50	1.50
RBO-MCA/8	RBO-MCA/12	02 - 20 μl	0.1	2	4.00	4.00
				10	1.50	1.50
				20	1.50	1.00
RBO-MCA/8	RBO-MCA/12	05 - 50 μl	1.0	5	3.00	2.00
				25	1.50	1.00
				50	0.50	0.50
RBO-MCA/8	RBO-MCA/12	10 - 100 μl	1.0	10	3.00	1.50
				50	1.00	0.50
				100	1.00	0.50
RBO-MCA/8	RBO-MCA/12	20 - 200 μl	1.0	20	2.00	0.80
				100	1.00	0.50
				200	0.70	0.25
RBO-MCA/8	RBO-MCA/12	40 - 300 μl	1.0	40	2.00	0.80
				150	1.00	0.50
				300	0.70	0.25



8- Channel



12- Channel



TIPS RACK

Core Highlights

- * Tips are available in hinged racks of 96 tips(10ul & 200ul) & 100 tips(1000ul) and are compatible with multichannel pipettors and robotic systems .
- * Transparent, hinged lid can remain open at 120° or it can be removed.
- * Both lid and the base can withstand autoclaving .
- * The two-position latch allows lid to be shut tightly or kept slightly ajar for more effective autoclaving .
- * All sterilized tip racks are individually sealed in plastic and have a tear strip for easy opening without sharp instruments.
- * Easily refilled with pre-loaded, snap-in tips wafers (reloads).
- * Certified RNase, DNase, DNA free and Non-Pyrogenic.

PIPETTE TIPS

Core Highlights

- * All tips are molded in exclusive 99.9% virgin polypropylene resin.
- * Use finest porous plastic filter membrane available.
- * Filters are free of particles, starch and surfactants.
- * Filter Tips fit all single and multi-channel pipettors.
- * Tips are RNase/DNase and Pyrogen -free

	Description	Qty/Pack
CH11827B	10µl Natural	1000/PK
CH11827B/1	Extra long clear tips for P2/P10 for Eppendorf research/reference, Bulk	1000/PK
CH11827B/2	200µl Bevelled Natural	1000/PK
CH11827B/3	200µl Bevelled Yellow	1000/PK
CH11827B/4	200µl Yellow, Graduated	1000/PK
CH11827B/5	200µl Clear, Graduated	1000/PK
CH11827B/6	1000/PK1000µl Natural	1000/PK
CH11827B/7	1000µl Blue	1000/PK
CH11827B/8	5000µl Clear	1000/PK
CH11827B/9	10000µl Clear	1000/PK

LOW RETENTION TIPS

CH11827B/10	10µl Natural, Low Retention	1000/PK
CH11827B/11	Extra long clear tips for P2/P10 for Eppendorf research/reference, Bulk, Low Retention	1000/PK
CH11827B/12	200µl Bevelled Natural, Low Retention	1000/PK
CH11827B/13	1000µl Natural, Low Retention	1000/PK

	Description	Qty/Pack
CH11829B	Empty Racks for GenTip 10ul	10/PK
CH11829B/1	Empty Racks for GenTip 200ul	10/PK
CH11829B/2	Empty Racks for GenTip 1000ul	10/PK
CH11829B/3	Empty Racks for 5ml & 10ml Tips	Each
CH11829B/4	10µl Natural Mini Racks of 96/pk	10/PK
CH11829B/5	200µl Yellow Mini Racks of 96/pk	10/PK
CH11829B/6	200µl Natural Mini Racks of 96/pk	10/PK
CH11829B/7	1000µl Blue Mini Racks of 100/pk	10/PK
CH11829B/8	1000µl Natural Mini Racks of 100/pk	10/PK
CH11829B/9	10µl STERILE Natural Mini Racks of 96/pk	10/PK
CH11829B/10	200µl STRL Yellow Mini Racks of 96/pk	10/PK
CH11829B/11	200µl STRL Natural Mini Racks of 96/pk	10/PK
CH11829B/12	1000µl STERILE Blue Mini Racks of 100/pk	10/PK
CH11829B/13	1000µl STERILE Natural Mini Racks of 100/pk	10/PK



PIPETTE, DROPPING

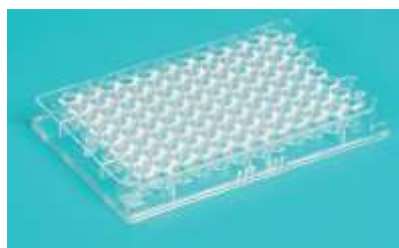
Pipette with rubber teat, length approx 40 mm.
CH11830



**96 WELL
MICROTITER / ELISA
PLATES**

Description

We offers a line of quality Microtiter plates for manual or automated sample processing.



		Qty/Pack
CH11832B	Microtitration Plates, Flat Bottom, Sterile	100 Plates
CH11832B/1	Microtitration Plates, Round Bottom, Sterile	100 Plates
CH11832B/2	Lids for Microtiter Plates, Sterile	100 Plates
CH11832B/3	Microtitration Plates with Lids, Flat Bottom, Sterile	250 Plates
CH11832B/4	Microtitration Plates with Lids, Round Bottom, Sterile	250 Plates

**UNIVERSAL REAGENT
RESERVOIR**

This Universal Reagent Reservoir is a graduated single reagent reservoir with maximum volume of 50 ml, reservoir with 8 separate numbered 5 ml, reagent channels & a reservoir with 12 separate numbered 5 ml reagent channels. Made of polypropylene these reagent reservoirs are repeatedly autoclavable and can be used with all multi-channel pipettes.



	Capacity, ml
CH11833	50

REAGENT RESERVOIR

Moulded in Polypropylene, this autoclavable Reagent Reservoir is helpful for multi-channel pipettes to be used into microtiter plates.



	Capacity, ml
CH11834	75

TEATS FOR PIPETTES

Rubber, with rolled edges, for use with dropping pipettes, pack of 100.
CH11835



PIPETTE BULB

Made of rubber, with thick walled neck size small, medium, large, extra large.
CH11838

PIPETTE FILLER

Comprises a rubber bulb and three pinch valves, for use with pipettes upto 50 ml.
CH11840



PIPETTE STAND

To hold 12 pipettes horizontally.

CH11850	Polypropylene
CH11852	Wooden

PIPETTE STAND

To hold 24 pipette vertically. Plastic.
CH11855/1



PIPETTE BOX

Made of polypropylene, this Pipette Box is designed in such a way that it can hold pipettes of different lengths. The top of the box screws on the bottom and the height can be adjusted by screwing or unscrewing the top.
CH11856



**PIPETTE RACK STAND,
ACRYLIC**

Keep pipettors within easy reach inside this convenient rack. Holds five standard size pipettors.

No. of Places	L x W x H, mm
5	190 x 135 x 265

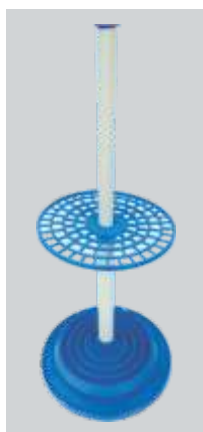
CH11857



PIPETTE STAND (94 PIPETTES ROTARY)

Polypropylene holds a maximum of 94 pipettes and rotates on a central vertical axis for convenient selection of any particular pipette. The lower rotating disc has four concentric troughs with tapered sides and open bottoms which cradle the pipette tips protectively and permit water drops to run off. The upper disc has a grid pattern concentric with the bottom discs and keeps the pipettes vertical. Liquids draining off the pipettes are retained on the top of the stationary base by the outer ring. This stand can be easily disassembled & reassembled.

CH11860



CARRIER TRAYS

This autoclavable Polypropylene Tray has a unique feature i.e. its handle which proves really helpful in carrying reagents or laboratory apparatus from one place to another, single handedly.

Size

CH11866	380mm x 240mm x 115 mm
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LABORATORY TRAY

Needless to say, Polypropylene laboratory Tray moulded in Polypropylene is a multipurpose tray that can be used for sterilizing, drying glassware porcelainware & other laboratory instruments. These steam autoclavable trays have tapered walls which prove good for nesting.

Size

CH11862/1	450mm x 350mm x 75 mm
CH11862/3	375mm x 300mm x 75 mm



UTILITY TRAY

Adding to the already existing range of autoclavable laboratory trays, is the utility Tray and as the name suggests this Polypropylene Tray can be utilized for purposes ranging from drying glassware to sterilizing and to store and laboratory apparatus.

Size

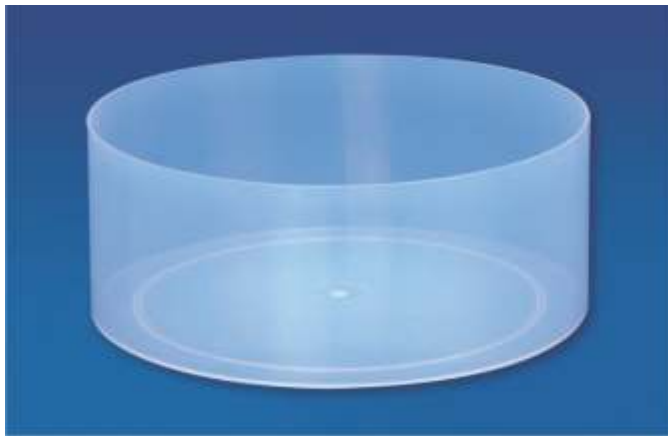
CH11864	375mm x 350mm x 130mm
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INSTRUMENT TRAY

This autoclavable trays have cover which fits into groove of trays to minimize spillage of material. Smaller size can be used to sterilize small instrument whereas the larger size allows pipettes to be fully immersed in disinfectant prior to sterilizing.

Size

CH11868/1	220mm x 150mm x 70 mm
CH11868/2	450mm x 150mm x 70 mm



PNEUMATIC TROUGH

These Troughs, made of polypropylene, are autoclavable and are available in different sizes. These can be used for a wide range of purposes including storage, sterilizing & drying labware etc.

	Diam., mm	Height, mm
CH11869/1	180	60
CH11869/2	200	100
CH11869/3	250	100



PNEUMATIC TROUGH

Glass, circular.

	Diam., mm	Height, mm
CH11870/2	150	100
CH11870/3	200	100
CH11870/4	250	100
CH11870/5	250	125
CH11870/6	300	125
CH11870/8	300	150



VACUUM PUMP, ROTARY, OIL-SEALED

General purpose, single stage with low level of vapour emission. Can be used as a pressure device also. Direct drive, compact construction, displacement 32 liters/minute, ultimate vacuum without gas ballast 0.1 mm of mercury, motor rating 0.25 HP, rpm 1425, supplied with 1 meter 3-core mains cable and 1.5 litre oil. For use on 220-240 V, 50 Hz. CH11871



MERCURY TROUGH

Round Form, all glazed except bottom.

CH11872	Diam., mm	Height, mm	Cap., ml
	83	41	100



PORCELAIN TROUGH

All glazed, bottom unglazed

	Diam., mm	Height, mm	Cap., ml
CH11874/1	100	73	350
CH11874/2	150	90	1000
CH11874/3	200	95	1900
CH11874/4	250	100	3000
CH11874/5	300	105	4800



REFRACTOMETER, HAND

Convenient to use. The built-in ocular scale gives direct reading for percentage of sugar density. Accuracy 0.2%.

	Range
CH12017/1	0 to 32%
CH12017/2	28 to 62%
CH12017/3	58 to 90%



REFRACTOMETER, ABBE

For quick examination of refractive indices & mean dispersion of liquids, solids and powders. Comprising Abbe double prisms, with thermostat, compensator, telescope mirror and radial arm with vernier. Range nD 1.3000 to nD 1.7000 in steps of 0.001, sugar percentage 0 to 95% in steps of 1 division.

CH12019

FIRE BLANKET

Woven fiber glass blanket, for smothering small fires in laboratories, 900 x 900 mm approx., with a pouch for mounting on wall.

CH12021



BENCH TOP BETA SHIELD, ACRYLIC

- Designed to be used in the laboratory during procedure that handle B-emitting isotopes.
- Protect the lab worker and its angled top allows contents of the tube located behind the shield to be viewed from the top.
- The base of the Beta shield provides a large flat work surface and minimizes the risk of "hot spots" on the lab bench.

	L x W x H (mm)
CH12022	45 x 30 x 30



GLOVE BOX HOLDER, ACRYLIC

- Clear and pristine holder to give clean appearance
- Top loading of the glove box
- Easy to dispense the gloves through the holder
- Each holder has holes that help it to be installed in a convenient location to the proximity of your works and tasks.

	No. of Places	L x W x H, mm
CH12024/1	1	260 x 100 x 138
CH12024/2	2	260 x 100 x 270
CH12024/3	3	260 x 100 x 415



SAFETY GOOGLES BOX, ACRYLIC

- Can be set on the bench top or mounted on the wall for storage of goggles, glasses and other small lab products.
- Safety lid keeps the box free of dust and contamination.
- Clear window helps to view the inventory from the outside.

	L x B x H, mm	Size
CH12026/1	23 x 16 x 18	Small
CH12026/2	23 x 16 x 25	Large



SAFETY GOOGLES, PC

- Polycarbonate lens with side shield
 - Impact resistant and light weight frames for comfortable eye wear
 - 99.9% UVA/ UVB protection
- CH12028



SAFETY FACE SHIELD

- Clear face shield of polycarbonate provides high impact and splash protection.
- Ratchet adjustment on the head gear provides comfortable fit.

	L x B x T, Inch
CH12030	15.5 x 8 x 0.04



HAND PROTECTORS

Heat & cold resistant silicon rubber glove, with the help of this, one can easily handle heated up material like flask, bottles & beakers etc. Studded surface is used for positive grip of material with a temperature of 250°C. Pockets for fingers & thumb fit every hand size.

CH12032

SIEVES

200 mm diam. polished seamless brass frame. Each sieve is marked with nominal aperture. Stainless steel mesh.

	Mesh, mm
CH12110/1	4.75
CH12110/2	3.35
CH12110/3	2.8
CH12110/4	2.36
CH12110/5	2
CH12110/6	1.7
CH12110/7	1.4
CH12110/8	1.18
CH12110/9	1
CH12110/10	0.85
CH12110/11	0.71
CH12110/12	0.6
CH12110/13	0.5
CH12110/14	0.425
CH12110/15	0.355
CH12110/16	0.3
CH12110/17	0.25
CH12110/18	2.36
CH12110/19	0.15
CH12110/20	0.125
CH12110/21	0.106
CH12110/22	0.09
CH12110/23	0.075
CH12110/24	0.063
CH12110/25	0.053
CH12110/26	0.045
CH12110/27	0.04



SIEVES, LID AND RECEIVER

To fit the above sieves.

CH12115



SOIL TESTING KITS

- I. For quick estimation of pH, Nitrogen (N), Phosphorous (P) and Potassium (K) availability in Soil (4x10 tests)
- II. For quick estimation of Organic carbon availability in Soil (1x25 tests)

Features:

- Very simple testing methods.
- All the tests can be conducted in the field itself.
- Recommendations about fertilizers and quantity to be added.
- Very distinguishable colour charts of pH, Nitrogen, Phosphorous, Potassium and Organic carbon.
- Testing apparatus are provided.
- Refill pack is also available for kit-1 (with reagents only).
CH12118



SPATULA

Moulded in Polypropylene, Spatula consists of a spoon on one side while the other end is a flat construction with a knife edge. This edge is helpful in breaking up crystals of different salts while the spoons used to draw salts from the containers.

	Size, mm
CH12210/1	150
CH12210/2	200



SPATULA WITH SPOON (PORCELAIN)

Glazed, spoon on one end, spatula on other.

	Length, mm	Capacity, ml
CH12212/1	100	0.1
CH12212/2	125	0.3
CH12212/3	165	0.5
CH12212/4	198	1.2
CH12212/5	260	5.5



SPATULA (PORCELAIN)

Glazed, long spatula on one end, knob on other. Length 205 mm.
CH12213



STAINLESS-STEEL SPATULA

9" length with round blade at one end & a square on other end.

CH12218



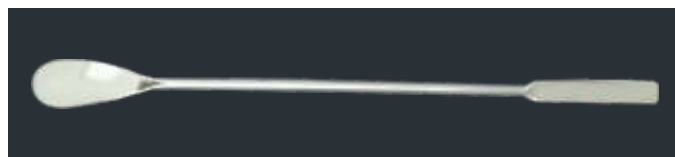
SPATULA, CHATAWAY

Stainless steel, one end flat, other bent up.

	Size, mm
CH12220/1	100
CH12220/3	150
CH12220/5	200



MICRO-SPATULA 20CM LONG
Stainless-steel with thin, flexible rounded ends.
CH12221

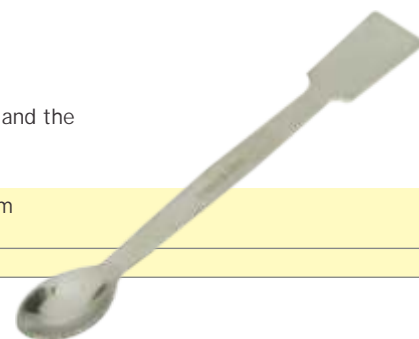


SPOON AND SPATULA TOOL, 9 IN. (22.9CM) LONG
Spoon and Spatula Tool 9", Stainless steel, Polished.
CH12228



SPATULA
Stainless steel, one end flat and the other end spoon form.

	Length, mm
CH12230/1	120
CH12230/3	150



SPATULA
Stainless steel, angle end, rounded, length 100 mm.
CH12223

SPATULA
Stainless steel, raised centre section, one end flat and bent up, other end formed into a scoop, stainless steel, length 140 mm.
CH12225



SODIUM SPOON
For holding sodium under water, with gauze cage, overall length 255 mm.
CH12235

SPATULA, TROWEL
Double ended, trowel shaped scoops 175 x 15 mm.
CH12227

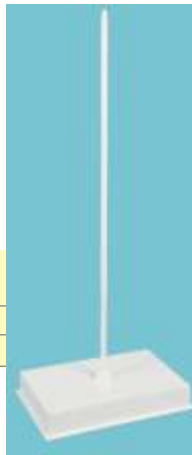


TONG MERCURY
Nickel-plated steel, for lifting globules of mercury. Length 20 cms.
CH12240

RETORT STAND

These non-corrosive, moulded retort stand provided excellent replacement for the metal ones. Even the metallic rod has a polypropylene covering making it non-corrosive. The rod measuring 12.5mm x 750mm can be screwed into the heavy base giving way to a perfectly stable retort stand.

	Size, mm	Description
CH12253/1	225x150	Side Hole
CH12253/2	300x200	Centre Hole
CH12253/3	300x200	Side Hole



RETORT STAND, RECTANGULAR BASE

Pressed steel base with hole 10x1.5mm, metric thread in the center of one short side.

	Length, cm	Width, cm
CH12315/1	16	10
CH12315/3	20	12.5
CH12315/5	25	16
CH12315/7	31.5	20



RETORT STAND, RECTANGULAR BASE

Cast Iron, with tapped hole 10 x 1.5mm, metric thread in the center of one short side.

	Length, cm	Width, cm
CH12320/1	16	10
CH12320/3	20	12.5
CH12320/5	25	15

TRIPOD BASE SUPPORT STAND 1

Bases constructed of cast-iron and finished with chemical-resistant baked black enamel with plated rod. Available in various lengths and rod diameters

	Length, Inch	Dia., Inch
CH12255/1	18	0.3
CH12255/2	24	0.5
CH12255/3	36	0.5

RETORT STAND 2

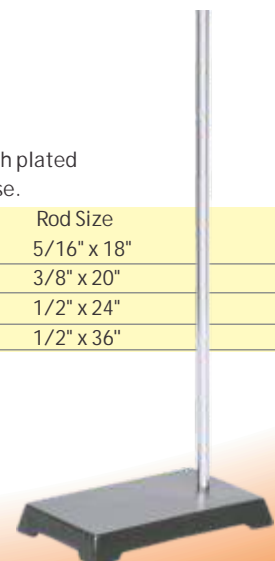
Mild steel base, stove enamelled, fitted with one levelling screw and nylon feet, with chrome plated mild steel rod.

	Base, mm	Length, mm	Diam., mm
CH12310/2	150 x 100	500	9
CH12310/3	175 x 125	600	9
CH12310/4	200 x 125	600	12
CH12310/5	225 x 150	750	12
CH12310/6	300 x 175	750	12

RETORT STAND

Heavy black enamel cast iron base with plated rods, which are threaded to fit the base.

	Base Size	Rod Size
CH12321/1	4" x 6-3/4"	5/16" x 18"
CH12321/2	5" x 8"	3/8" x 20"
CH12321/3	5-1/2" x 9"	1/2" x 24"
CH12321/4	6-1/2" x 11"	1/2" x 36"





RETORT STAND, BASE

Steel base with tapped hole, (10 x 1.5 mm metric thread) in the center of one short side. Finished in blue and fitted with rubber feet.

	Size, mm
CH12322/1	160 x 100
CH12322/3	200 x 125
CH12322/5	250 x 160
CH12322/7	315 x 200



CLAMP, 3 PRONG

Die cast aluminium, with plated brass inserts, accepts articles upto 70 mm diam, rubber covered jaws.

CH12345



3 PRONG CLAMP

Made of aluminum casting, 3 prong clamp with interlocking jaws allow you to hold objects from 1/8" to 3-1/2" in diameter. It can be used for both burettes and condensers. The jaws are lined with rubber to insure a secure grip. Rod attached is 8 mm in diameter and 150 mm long.

CH12346



CLAMP

Pressed metal, cork lined jaws, can open upto 50 mm.

CH12325/1	Black Painted
CH12325/3	Chrome Plated



CLAMP UNIVERSAL-2 PRONG CORK LINED

Two prong clamps die casted with other parts of plated brass, accepts articles from 15-75 mm dia. Actuated by nickel plated brass insert and twin screw, Jaws are cork lined. Fitted with 150 x 8 mm long nickel plated mild steel rod.

CH12326



3 PRONG CLAMP, UNIVERSAL

Die cast aluminum alloy, clamp accepts articles up to 90 mm diameter Jaws covered with PVC, Fitted with 150 x 8 mm rod.

CH12347



UNIVERSAL CLAMP

Pressure die cast aluminium alloy, other parts are of plated brass, cork lined, ensures firm grip at all angles of opening, opens upto 90 mm, with 250 x 8 mm nickel plated mild steel rod.

CH12340



CLAMP UNIVERSAL-3 PRONG CORK LINED

Cork lined Jaws which accepts articles up to 80 mm Diameter. Fitted with 150 x 8 mm long nickel plated mild steel rod. Overall length 27 cm Approx.

CH12347M



3 PRONG CLAMP, ADJUSTABLE

Zinc alloy die cast jaws, each Jaw individually adjustable. Double adjustable - one screw moves one jaw and the other screw moves the other two jaws. Maximum jaw opening 60 mm.

CH12343/1

**EXTENSION CLAMP**

Three-prong, aluminum extension clamp; prongs covered with rubber tubing. Overall length: 10". Jaws open to 85 mm.

Rod Dia. 8 mm, Rod length 145 mm.

CH12347N

**BURETTE CLAMP, DOUBLE**

Double, round plastisol-coated jaw. For two burettes or tubes.

CH12350

**EXTENSION BURETTE CLAMP, ECONOMY CHOICE**

Extension clamp with round, cork-coated jaws. Will hold burettes, test tubes and flasks up to 2½" in diameter. Overall length is 8".

CH12348

**CLAMP, EXTENSION UNIVERSAL**

A steel clamp with a locking swivel. The swivel permits orientation at a wide variety of angles. Outer jaws open freely to accommodate apparatus like condenser and other irregular shapes. Jaws are covered with a plastic material to cushion apparatus held in the jaws.

CH12352/1 Jaw Opening Size 2"

CH12352/3 Jaw Opening Size 3"

**BURETTE CLAMP**

Rounded steel jaws, for use with retort stands. Jaws opening from 10 to 35 mm diameter. Jaws can be rotated through 360° and locked in any position. fits support rods up to 15 mm diameter.

CH12349/1

CH12349/3

with plastic coated jaws

**BOSS, SWIVEL**

Aluminium alloy holds rods up to 12 mm, swivels and locks at any angle.

CH12354



BURETTE CLAMP

Aluminium, with steel rod, cork lined jaws, for holding burettes and other objects of diam. upto 60 mm.
CH12356



BOSS HEAD, SWIVEL

With an adjustable holder swivel at the centre to fix boss head at any angle. Can hold rods up to 16 mm diameter.
CH12362



BOSS

Zinc Alloy, with nickel plated clamping screws, can accommodate rods up to 12 mm.
CH12357



BASE SLOTTED

Cast metal, For holding flat objects like manometer, board etc. upto 34 mm. thick in the vertical position. Size 9.5 cm length and 7.5 cm width.
CH12363



BOSS HEAD ROUND

Aluminium die casted Alloy, Black powder coated, Accept rods upto 13 mm diameter, fitted with mild steel plated thumb screw.
CH12358



SQUARE BOSS HEAD

Die Casted Alloy, accepts article square and round section upto 16 mm diameter at right angle to each other. Can also hold flat articles such as drawing board, magnets, rulers etc.
CH12363S



BOSS

Pressure die cast aluminium alloy. With offset jaws, nickel plated clamping screws, to hold rods up to 16 mm. with stands heavy clamping pressure.
CH12359



CLAMP HOLDER (BOSS HEAD)

Aluminum alloy with plastic clamping screws, holds rods up to 5/8" in diameter. With offset jaws for greater strength.
CH12360



RIGHT-ANGLE CLAMP HOLDER

Cast iron holder with steel thumbscrews. For rods up to 5/8" (22 mm) diameter.
CH12364

**CHANNEL BASE**

Cast metal, For holding flat objects upto 13 mm thick. Size 10.5 cm length and 8.5 cm width.

CH12367

**RINGS WITH CLAMPS**

Cast iron with side arm & V clamp to fit rods upto 13 mm. The distance from support clamp centre to centre of ring is 4½" for all rings. Fits ¾" rods.

	ID, Inch
CH12371/1	2
CH12371/2	3
CH12371/3	3½
CH12371/4	4½
CH12371/5	5½

**EXTENSION SUPPORT RINGS**

Strong, heat-resistant cast steel.

	ID, Inch
CH12368/1	2
CH12368/2	3
CH12368/3	4
CH12368/4	5

**THERMOMETER CLAMP**

A lightweight clamp for supporting thermometers and similar apparatus up to 13 mm in diameter. The clamp holds rods up to 16 mm in diameter. Adjustable 360° jaw which can be easily tightened into any position with a wing nut. Overall length is 140 mm.

CH12373

**SUPPORT RING WITH CUT-OUT**

Cast Iron with 3" diameter & plated for corrosion resistance. The support ring features a cut-out area to permit easy insertion of leveling bulbs & assembled materials.

CH12369

RETORT STAND RING

Iron, with integral boss to accept rods upto 12 mm diam. Boss is fitted with a plated thumb screw.

	Diam., mm
CH12374/2	50
CH12374/4	75
CH12374/6	100

**SUSPENSION CLAMP**

For suspending specimens over a hotplate. Clamp holds items at a distance of 4 ½" from the support rod. Aluminum hook swivels and locks at any angle.

CH12370

**CLAMP & SUPPORT ROD**

Holds rods vertically or horizontally. Cast iron, black enamel finish. With rod approx. 510 x 10 mm. Can clamp on table up to 50 mm thickness.

CH12375

**HOOK COLLAR CLAMPS**

CH12376/1	0.5"
CH12376/2	0.75"



V-GROOVE CLAMP

For securely holding rods up to 3/4" diameter either horizontally or vertically in a machined V groove. It clamps to table tops up to 3" thick. CH12377

RING STAND WITH RINGS

- Cast iron, rectangular base.
- Nickel-plated steel rod.
- Cast iron rings with nickel-plated steel thumb screws.

	Ring per set	Ring Dia., mm	Base Size, mm
CH12380/1	2	75, 100	100 x 150
CH12380/3	3	75, 100, 125	125 x 200
CH12380/5	4	75, 100, 125, 150	150 x 250
CH12380/7	5	50, 75, 100, 125, 150	150 x 300



STAND BURNER HIGH-LOW

	Size, mm
CH12382/1	90
CH12382/3	130



LABORATORY JACK

This laboratory support jack is made from aluminium and stainless steel. It can be adjusted from 3" to 10" with its large knob and can support up to 20 kg., has a 5" x 6" platform. The 8" x 8" jack is the same jack but is also supplied with a removable 8" x 8" platform and 18" support rod.

CH12385/1	5" x 6"
CH12385/3	8" x 8"

STIRRER

Made of Polypropylene, these stirrers are very useful for stirring different solutions in the laboratory. These stirrers prove to be tough and long lasting.



	Size
CH12389/1	ø-10 mm x h-250 mm
CH12389/2	ø-6 mm x h-150 mm
CH12389/3	ø-7 mm x h-200 mm
CH12389/4	ø-7 mm x h-250 mm
CH12389/5	ø-7 mm x h-300 mm

POLICEMEN STIRRING RODS

This, infact, is a multipurpose apparatus which works as a stirrer as well spatula. The fattened ends of this rod form two small spatulas.



	Size
CH12390	ø-6 mm x h-245 mm

SOFT LOOP STERILE

This non-toxic disposable loop is accurate to semi quantitative stand for handling samples.

	Size
CH12391/1	Soft loops 1µl
CH12391/2	Soft loops 10µl
CH12391/3	Inoculation Needle



L SHAPED SPREADER

This sterile, smooth spreader enables even spreading of liquid samples across the surface of a jar plate without grouping & cutting the medium.

CH12392



MAGNETIC STIRRER

With continuously variable stirring speed, ON/ OFF switch with indicator lamp and continuous speed control mounted on front panel, Complete with 2 No. Teflon coated stirrer bar, of size 9 x 25 mm & 9 x 35 mm. Speed 50-1500 rpm., Capable of stirring up to 2 liters.

CH12393



HOT PLATE MAGNETIC STIRRER

Hot Plate Magnetic Stirrer is used for simultaneous heating and stirring of solutions. Two control knobs on the front panel allow you to set heat output and stirring speed independently. Maximum temperature range for the hot plate is 300°C (572°F). The magnetic stirrer is adjustable from 0 to 1500 rpm approximately and suitable for mixing up to 500ml of solution in a container of 5" diameter or less. It is supplied complete with Teflon coated stirrer bar. It is used in a variety of applications to stir or mix the fluid samples for speeding up reactions or to get homogeneous mixtures of fluids in different industries including food processing, chemical production, chemistry and biotechnology.

	Capacity, ml	Top Plate	Input Voltage
CH12395B/1A	Upto 500	Aluminium	110V, 60Hz
CH12395B/2A	Upto 500	Aluminium	220V, 50Hz



MAGNETIC STIRRER WITH HOT PLATE

For simultaneous heating and stirring of solutions. A cast stainless steel hot plate is mounted above a variable speed magnetic stirrer. An Energy regulator for the hot plate, on/ off switch and continuous speed control for the stirrer motor mounted on the front panel. Supplied completed with Teflon coated stirrer bar of size 9 x 25 mm and 9 x 35 mm. Maximum Temperature Range 400°C Heat Output 400 W, Capable of stirring up to 2 liters.

CH12395



MOTORLESS MAGNETIC STIRRER

AN IDEAL STIRRING DEVICE FOR LOW VISCOSITY LIQUIDS, CAN WORK CONTINUOUSLY FOR LONGER DURATION

SALIENT FEATURES

1. Power on / off switch with fuse protections
2. Smooth variable speed control
3. Direction selector (Clock Wise - Counter Clock Wise)
4. Reset Button
5. Viscosity selector (High - Low)
6. Compact sleek stainless steel housing

TECHNICAL SPECIFICATIONS :

Model	CH12398/1	CH12398/3	CH12398/5 (with Remote Control)
Number of Stations	1	1	1
Stirring Volume	50 ml - 3 litres	50 ml - 3 litres	50 ml - 3 litres
Mains Input	240v AC (-15 to + 10%) 50 Hz (- 15 to + 5%)	240v AC (-15 to + 10%) 50 Hz (- 15 to + 5%)	240v AC (-15 to + 10%) 50 Hz (- 15 to + 5%)
Fuse	1 No. 100 mA	2 Nos. 100 mA 5A	2 Nos. 100 mA 5A
Power Consumption - Drive	6 watts	6 watts	6 watts
Power Consumption - Heater	500 watts	500 watts
Speed Range (Standard)	100 - 900 R.P.M.	100 - 900 R.P.M.	100 - 900 R.P.M.
Speed Range (Optional)	50 - 150 R.P.M.	50 - 150 R.P.M.	50 - 150 R.P.M.
Speed Variation	Constant speed even if Viscosity changes or Supply voltage vary within specified limits	Constant speed even if Viscosity changes or Supply voltage vary within specified limits	Constant speed even if Viscosity changes or Supply voltage vary within specified limits
Magnetic Stirring Paddle	9 mm dia x 35 mm long	9 mm dia x 35 mm long	9 mm dia x 35 mm long
Hot Plate	(Not Applicable)	250°C	350°C
Temperature			
Temperature Control	(Not Applicable)	Electronic Control	Electronic Control
Stirring Plate	130 mm dia.	160 mm dia.	160 mm dia.
Electrical Protection	Current limit & short circuit	Current limit & short circuit	Current limit & short circuit
Housing - Base Plate	Aluminium	Aluminium	Aluminium
Housing - Top Plate	Stainless Steel	Stainless Steel	Stainless Steel
Hot Plate	Not Applicable	Aluminium	Aluminium

DIMENSIONAL SPECIFICATIONS :

Width	152 mm	164 mm	160 mm
Depth	253 mm	350 mm	160 mm
Height	70 mm	110 mm	78 mm
Weight	2.1 kg	3.2 kg	2.5 kg

FUNCTIONAL FEATURES :

Drive : Motor Less Drive, No wear and tear of moving parts or bearings. Suitable for continuous operation for longer duration.

Speed Control : Step less Variable speed facilitating stirring from 100 - 900 R.P.M.

Re-Set Option : In case the magnetic follower moves off center due to external disturbance to the liquid or shifting of the vessel, the reset button can bring the follower in position and will restart the stirring at the speed set by you.

Direction Selection : Allows you the options of stirring clock wise or counter clockwise rotation.

High / Low Speed Mode : Option of High Speed Mode & Low Speed to select, depending on the viscosity of the solution being stirred.

Heating & Temp. Control : Surface Temperature of Hot Plate - Model CH12398/3-250° C and CH12398/5 - 350° C Electronic temperature control.



RUBBER STOPPERS

With number moulded in on each piece. Dimensions are approximate.

Solid

	No.	B. Diam. mm	T. Diam. mm	Ht
CH12500/1	000	6	9	16
CH12500/3	0	9	13	15.5
CH12500/4	1	11	14	18.5
CH12500/5	2	13	16.5	20
CH12500/6	3	14	19	21
CH12500/7	4	15	21	22
CH12500/8	5	17.5	22.5	23
CH12500/9	6	20	24.5	24
CH12500/10	7	20	26	27.5
CH12500/11	8	21	26.5	27.5
CH12500/12	9	21.5	28	31
CH12500/13	10	26	30	33
CH12500/14R	11	29	33	32
CH12500/15	12	30	34.5	34.5
CH12500/16	13	31	38.5	37
CH12500/17	14	32	41.5	42.5
CH12500/18R	15	38	42	40.5
CH12500/19R	16	35	45	36.5
CH12500/20	17	40	49.5	40.5
CH12500/21	18	48	53.5	33.5
CH12500/22R	19	44	58	45
CH12500/23	20	51	60	56.5

One Hole

	No.	B. Diam. mm	T. Diam. mm	Ht
CH12510/1	000	6	9	16
CH12510/3	0	9	13	15.5
CH12510/4	1	11	14	18.5
CH12510/5	2	13	16.5	20
CH12510/6	3	14	19	21
CH12510/7	4	15	21	22
CH12510/8	5	17.5	22.5	23
CH12510/9	6	20	24.5	24
CH12510/10	7	20	26	27.5
CH12510/11	8	21	26.5	27.5
CH12510/12	9	21.5	28	31
CH12510/13	10	26	30	33
CH12510/14R	11	29	33	32
CH12510/15	12	30	34.5	34.5
CH12510/16	13	31	38.5	37
CH12510/17	14	32	41.5	42.5
CH12510/18R	15	38	42	40.5
CH12510/19R	16	35	45	36.5
CH12510/20	17	40	49.5	40.5
CH12510/21	18	48	53.5	33.5
CH12510/22R	19	44	58	45
CH12510/23	20	51	60	56.5



Two Hole

	No.	B. Diam. mm	T. Diam. mm	Ht
CH12520/1	000	6	9	16
CH12520/3	0	9	13	15.5
CH12520/4	1	11	14	18.5
CH12520/5	2	13	16.5	20
CH12520/6	3	14	19	21
CH12520/7	4	15	21	22
CH12520/8	5	17.5	22.5	23
CH12520/9	6	20	24.5	24
CH12520/10	7	20	26	27.5
CH12520/11	8	21	26.5	27.5
CH12520/12	9	21.5	28	31
CH12520/13	10	26	30	33
CH12520/14R	11	29	33	32
CH12520/15	12	30	34.5	34.5
CH12520/16	13	31	38.5	37
CH12520/17	14	32	41.5	42.5
CH12520/18R	15	38	42	40.5
CH12520/19R	16	35	45	36.5
CH12520/20	17	40	49.5	40.5
CH12520/21	18	48	53.5	33.5
CH12520/22R	19	44	58	45
CH12520/23	20	51	60	56.5

LITMUS TEST PAPER

Book of 100 leaves.

CH12610	Red
CH12612	Blue



pH INDICATOR PAPER

pH indicator paper, universal, pH 1-14, including colour scale, pack of 100 leaves.

CH12615



pH INDICATOR PAPER DISPENSER

Indicator paper supplied in plastic dispenser containing 5 meters of 8 mm wide test strip. A color chart is provided on the side of each dispenser.

CH12620/1	Range pH 1 to 14
CH12620/2	Range pH 1 to 11



LENS CLEANING TISSUE PAPER

Size 10 x 15 cms. Pack of 100 leaves. Used for cleaning lens, camera, spectrometer and microscope lenses etc.

CH12625

LABEL BOOKS

For laboratory, self adhesive, size 55 x 27 mm with name of chemicals and reagent commonly used in laboratory.

CH12630



TEST TUBE WITH SCREW CAP

These Polypropylene tubes provide excellent aption for RIA, coagulation & bacteriology etc. The cap is screwed on to the tube & hence this tube can be filled up to the brim.



CH12666	16x100 mm Ext. Thread
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TEST TUBE CAP

This transparent Polypropylene cap for test tubes proves to be an excellent protection to the contents to the tubes. The grooves inside the cap tighten the fitting on the tube while the outer grooves would hold identification labels. The built in seal ring would set in the tube making the combination a leakproof one.

CH12668	Cap for Test tube ø 25 mm
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TEST TUBE HOLDER

Wood, with steel spring for closing jaws, length 180 mm approx for 11-19 mm diam. tubes.

CH12670



TEST TUBE HOLDER

Metal strips with a slider, mounted in wooden handle.

CH12680/1	Brass
CH12680/3	Plated Steel



TEST TUBE HOLDER, CROSS PATTERN

Stout brass strips mounted in wooden handle to hold tubes from 12 mm to 40 mm. Overall length 220 mm.

CH12683

**TEST TUBE HOLDER**

Plated spring steel wire with finger grip, with a wire collar to hold test tubes up to 38 mm.

CH12695

**TEST TUBE STAND**

Wooden, with side supports.

**TEST TUBE STAND**

Aluminium, stackable pattern with five 28 mm, six 9 mm and eight 13 mm diam. holes arranged in three rows.

CH12715

	Holes 22 mm	Holes 32 mm	Pegs
CH12710/1	4	2	-
CH12710/2	4	2	6
CH12710/3	6	2	-
CH12710/4	6	2	8
CH12710/6	10	2	-
CH12710/8	10	2	12



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No. of Holes	Diam. 10 mm	Diam. 12 mm	Diam. 15 mm	Diam. 18 mm	Diam. 25 mm
12	CH12720/1	CH12725/1	CH12730/1	CH12735/1	CH12745/1
18	CH12720/2	CH12725/2	CH12730/2	CH12735/2	CH12745/2
24	CH12720/3	CH12725/3	CH12730/3	CH12735/3	CH12745/3
36	CH12720/4	CH12725/4	CH12730/4	CH12735/4	CH12745/4
48	CH12720/5	CH12725/5	CH12730/5	CH12735/5	CH12745/5
100	CH12720/6	CH12725/6	CH12730/6	CH12735/6	CH12745/6



UNIVERSAL MULTI RACK

Polypropylene, compatible with different sizes of tubes. Four sides of this rack can be used for tubes of $\varnothing 30$ mm, $\varnothing 20$ mm, $\varnothing 17$ mm & $\varnothing 12$ mm
CH12750



TEST TUBE STAND (3 TIER)

3 tier design provide clear view of the tube contents and convenient insertions and removal of tubes. These autoclavable racks can withstand sub-freezing temperatures.

Material : Polypropylene

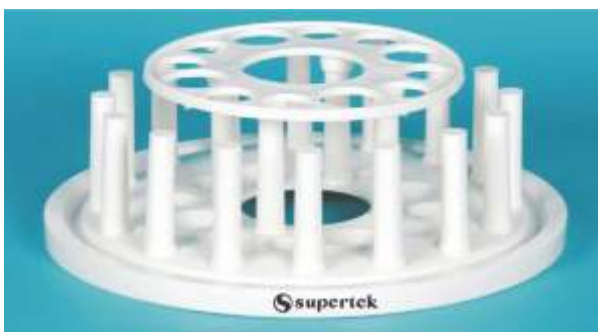
CH12765/1	13 mm x 31 Tubes
CH12765/2	16 mm x 31 Tubes
CH12765/3	20 mm x 20 Tubes
CH12765/4	25 mm x 12 Tubes
CH12765/5	25 mm x 18 Tubes
CH12765/6	32 mm x 12 Tubes
CH12765/8	25 mm x 36 Tubes
CH12765/9	13 mm x 18 Tubes
CH12765/10	15 mm x 18 Tubes
CH12765/12	18 mm x 12 Tubes
CH12765/13	13 mm x 62 Tubes
CH12765/14	16 mm x 62 Tubes
CH12765/15	20 mm x 40 Tubes
CH12765/17	13 mm x 48 Tubes
CH12765/19	13 mm x 72 Tubes



TEST TUBE STAND

Polypropylene, autoclavable, available in two sizes, with drying pins.

CH12755/2	16 mm & 25 mm \varnothing Tubes
CH12755/3	25 mm \varnothing Tubes



TEST TUBE STAND (ROUND TEST ROUND)

Circular twelve places Polypropylene test tube stand has four 25 mm dia holes and eight 19 mm dia holes in its top plate. The base has matching hemispherical wells & 16 vertical pins for drying tubes surrounded by a trough to catch drippings. This autoclavable rack can be easily disassembled for cleaning purpose.

	Size
CH12760	19 mm & 25 mm \varnothing Tubes



Material : Polycarbonate

CH12770/1	13 mm x 31 Tubes
CH12770/2	16 mm x 31 Tubes
CH12770/3	20 mm x 20 Tubes
CH12770/4	25 mm x 12 Tubes
CH12770/8	13 mm x 62 Tubes
CH12770/12	16 mm x 62 Tubes
CH12770/15	20 mm x 40 Tubes
CH12770/16	25 mm x 24 Tubes
CH12770/17	25 mm x 18 Tubes
CH12770/18	25 mm x 36 Tubes
CH12770/19	32 mm x 12 Tubes

TEST TUBE PEG RACK

These racks can conveniently hold inverted tubes for drying purpose and minimize collection of airborne contaminants inside the tube. The rack can also be used to hold and dry electrophoresis and chromatography plates.



	Size
CH12772/1	13 mm x 90 Tubes
CH12772/2	16mm x 60 Tubes

TEST TUBE STAND (WIRE PATTERN)

An economical substitute for wire racks, here are these submersible, autoclavable racks which are stackable when empty. These are available in different colors and are made of a special blend of polypropylene that makes it sink in a water bath and maintain their stability even in agitated water. These space saving racks can easily be disassembled for cleaning purposes. The base is in the form of a grid with square openings and has fold up sides and end bars that lock into rack tops.



	Size
CH12775/1	13 mm x 90 Tubes
CH12775/2	16 mm x 60 Tubes
CH12775/6	20 mm x 40 Tubes
CH12775/7	25 mm x 24 Tubes
CH12775/8	30 mm x 21 Tubes

TEST TUBE BASKETS

Test Tube Baskets are made of Polypropylene. These autoclavable, Unbreakable and non-corrosive Baskets are ideal for rinsing & draining glassware. These are also useful for storage of test tubes or culture tubes during sterilization or incubation.



	Size
CH12777/1	140 mm x 120 mm x 110 mm
CH12777/2	160 mm x 160 mm x 160 mm

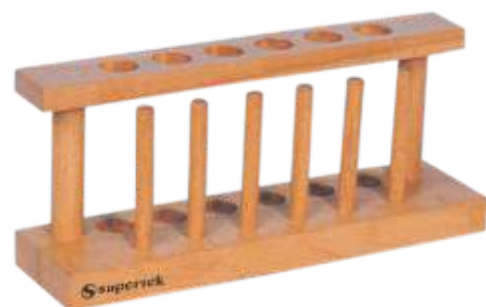
**TEST TUBE STAND & DRYING RACK**

12 holes in two rows for tubes up to 25 mm in dia and 12 draining pins. CH12780

**TEST TUBE SUPPORT, 12 HOLES**

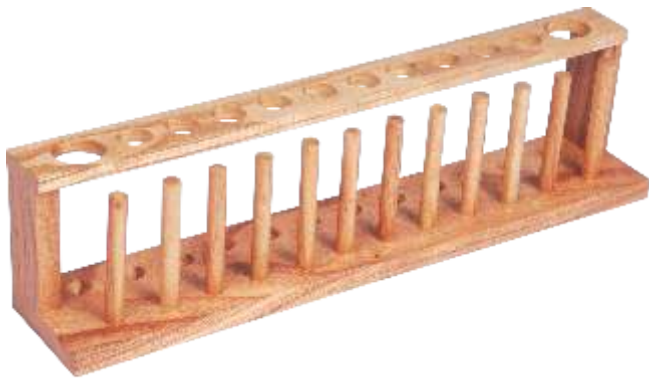
With dove tail joining and 12 holes in two rows.

	For Tube Diam., mm
CH12782	22
CH12784	25

**TEST TUBE SUPPORTS WITH DRAINING PINS**

Made of wood with turned wood posts. Has holes for tubes up to 19 mm in diameter.

	No. of Holes
CH12785	6
CH12790	10



TEST TUBE STAND WOODEN

Strongly constructed, with 12 holes in one row and 12 draining pins. Ten holes accommodate tubes up to 25 mm in dia.
CH12792



TEST TUBE STAND WOODEN

With drilled holes to accommodate 7 tubes up to 13 mm in dia. Strongly constructed with dovetail joints.
CH12799



TEST TUBE STAND WOODEN

The top shelf contains seven holes for tubes upto 19 mm in dia: the lower has six holes for tubes up to 25 mm in dia. With six draining pins.
CH12794



NESTLER CYLINDER STAND

This stand as the name suggests is use for keeping nestler cylinders. Made of polypropylene, this stand is available in two sizes, one for 50ml nestler cylinder & other for 100 ml. Nestler cylinder.

	Capacity, ml
CH12799P/1	50
CH12799P/2	100



TEST TUBE STAND WOODEN

Constructed from a solid wood block, 15 slotted holes accommodating tubes up to 13 mm in dia.
CH12796



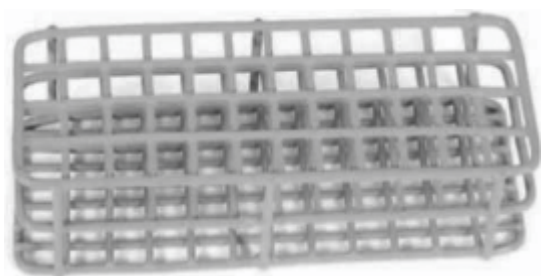
WIRE RACKS, EPOXY-COATED

Ideal for test tube storage, incubation and refrigeration. Coated with a heat cured epoxy, the sturdy steel wire racks resists abrasion and withstand corrosion.

Rectangular racks features square holes, three tiers for tubes support, and a wire lined bottom. Color coded for easy identification. With stand wide range of temperature. Autoclavable.

Colors available: Blue, Green, Orange, Yellow, Purple.

	Tube O.D., mm	Format	No. of Places	Dim. (LxWxH), cm
CH12800/1	0-13	6 x 12	72	20.5 x 11.3 x 6.4
CH12800/2	10-13	9 x 12	108	20.5 x 16.4 x 6.4
CH12800/3	10-13	6 x 15	90	25.7 x 11.3 x 6.4
CH12800/4	10-13	6 x 20	120	33.1 x 11 x 6.4
CH12800/5	15-16	4 x 10	40	20.2 x 9.2 x 6.4
CH12800/6	15-16	4 x 12	48	24 x 9.2 x 6.4
CH12800/7	15-16	6 x 12	72	24 x 13 x 6.4
CH12800/8	15-16	9 x 12	108	24 x 18.6 x 6.4
CH12800/9	15-16	9 x 20	180	38.6 x 18.3 x 6.4
CH12800/10	15-16	5 x 20	100	38.6 x 10.8 x 6.4
CH12800/11	8-20	4 x 10	40	24.4 x 11 x 8.3
CH12800/12	18-20	8 x 10	80	24.4 x 20.3 x 8.3
CH12800/13	20-22	4 x 10	40	26.5 x 11.6 x 8.3
CH12800/14	22-25	4 x 10	40	30.2 x 13.2 x 8.3
CH12800/15	22-25	8 x 10	80	30.2 x 13.2 x 8.3
CH12800/16	25-30	6 x 8	48	28.6 x 22.5 x 10.2
CH12800/17	25-30	3 x 8	24	28.3 x 11.6 x 8.3
CH12800/18	30-40	3 x 8	24	36.5 x 15.2 x 10.2
CH12800/19	30-40	6 x 8	48	36.5 x 28.6 x 10.2



TEST TUBE RACK

Epoxy-coated steel wire racks. Resists corrosion; unaffected by organic solvents.

CH12805/1	24 Places for 15-16 mm Tubes
CH12805/2	24 Places for 18-20 mm Tubes



THERMOMETER, MERCURY

76 mm immersion type, mercury in glass, white enameled back, engraved stem, length 300 mm approx, in cardboard case.

	Range	Sub-division
CH12900/1	-10 to 50°C	0.5° C
CH12900/3	-10 to 110°C	1° C
CH12900/5	-10 to 150°C	1° C
CH12900/7	-10 to 250°C	1° C
CH12900/9	-10 to 360°C	2° C
CH12900/11	0 to 220°F	1° F
CH12900/13	0 to 400°F	2° F
CH12900/15	0 to 600°F	2° F



THERMOMETER, RED ALCOHOL

76 mm immersion type, length approx. 300 mm red colour alcohol filled, white enamelled back.

CH12915/2	-10 to 50°C	1° C
CH12915/4	-10 to 110°C	1° C

THERMOMETER RACK

Store your thermometers safely and prevent column separation. For 25 thermometers.

CH12920



TEMPERATURE MATCHING PUZZLE

To explain relationship between Fahrenheit and Celsius to students using these three-piece puzzles. Students read the thermometers printed on the middle pieces and find the matching temperatures. Thirty puzzles are packaged in a sturdy plastic container.

CH12922



THERMOMETER STAND

Rugged & sturdy aluminum thermometer stands with enamel finish. The protective rubber foam bottom prevents thermometer bulbs from being damaged. Holds up to 18 thermometers.

CH12923



1

2

3

THERMOMETER, MAXIMUM & MINIMUM 1

Six's type, mercury and alcohol filled, dual scale, -30 to 60°C and -20 to 140°F, with resetting magnet.
CH12925

HYGROMETER, DRY & WET BULB 2

Two thermometers mounted on scales -10 to 60°C & -20 to 140°F, with water container for one thermometer. Complete with relative humidity table.
CH12935

THERMOMETER, WALL 3

With scale reading from -20°C to 50°C x 1°C and 0 to 120°F x 2°F, with bulb guard, prismatic tube for ease of reading. On wooden base, with metal scale.
CH12945

THERMOMETER, DIGITAL

For small budget-Ideal and Handy Thermometer for food, catering and other industry.

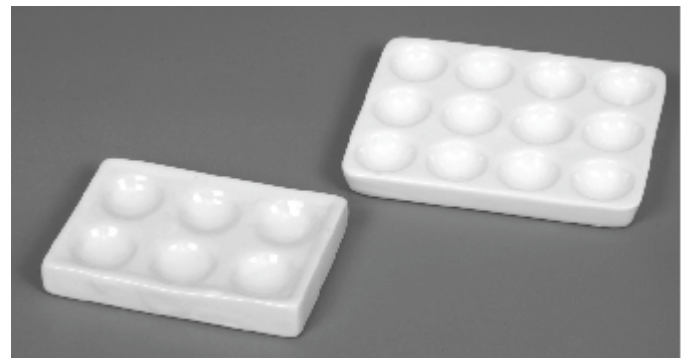
- Sensor / Input : Pt-100
- Range : -50 to +199.9°C
- Resolution : 0.1°C
- Accuracy : $\pm 0.5\% \pm 1$ digit
- Special Features : Portable
Battery Operated
Economical
Reliable
Replaceable Temp. Probe
CH12947



THERMOMETER, PRECISION

High Accuracy hand held thermometer for pharmaceutical food, chemical and other industry.

- Sensor / Input : Pt-1000
- Range : -50 to +199.9°C
- Resolution : 0.1°C
- Accuracy : $\pm 0.2\% \pm 1$ digit
- Special Features : Portable
Battery Operated
Highly Accuracy
Calibration Certificate
CH12949



TILE, SPOTTING

Porcelain, one side glazed.

CH12955/1	With 6 cavities
CH12955/2	With 12 cavities
CH12955/3	With 3 cavities
CH12955/4	With 30 cavities



STREAK PLATE

Streak, unglazed, as used for arsenic test and by mineralogists.

	Length, mm	Width, mm	Thickness, mm
CH12957	65	50	3



RECTANGULAR TRAY

99.7% Alumina Tray, Rectangular, unglazed. Max. use temp. 1750°C

	Capacity, ml	Ht., mm	Width, mm
CH12959/1	5	10	26
CH12959/2	10	19	25
CH12959/3	15	12	33
CH12959/4	25	20	25
CH12959/5	30	22	50
CH12959/6	100	32	50



STOP CLOCK

With start, stop and re-set actions. 100 mm diam. dial graduated in seconds, figured every 5 seconds. In metal body. CH12970

STOP WATCH, DIGITAL

A digital stop watch, with LCD display. Timed with Quartz movement to an accuracy of 0.01s. includes lap/cumulative timing functions, 12/24 hour clock in hours-minutes-seconds with day of week display and alarm function. CH12972



CRUCIBLE TONGS

Jaws corrugated inside.

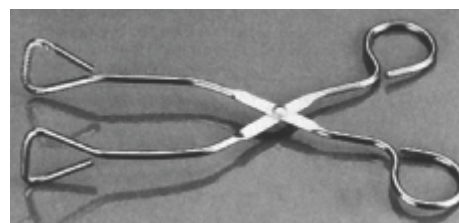
	With Bow Type	Length, mm
CH13005/1	Iron, plated	150
CH13005/2	Iron, plated	200
CH13005/8	Stainless steel	150
CH13005/9	Stainless steel	200



CRUCIBLE TONGS

General purpose metal tongs, for handling hot apparatus. Tips are serrated. Length: approximately 9".

CH13010/1	Steel
CH13010/3	Stainless Steel



LABORATORY TONGS

For flasks, test tubes and other laboratory items up to 2" dia. Nickel plated steel. Length 8".

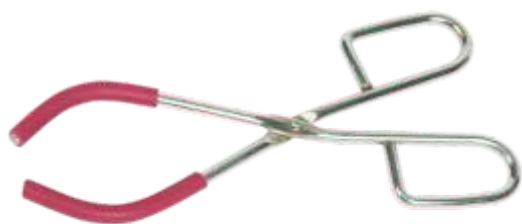
CH13020



BEAKER TONGS

Stainless steel, jaws covered with asbestos, can firmly hold any beaker from 250 ml to 1000 ml.

	Length, mm
CH13025/1	250
CH13025/3	300

**BEAKER TONGS**

Made of nickel plated steel, with plastic-coated jaws that open to 4 1/2". Holds 50 to 2000 ml beakers. Length 9 1/2".

CH13030

**BEAKER TONGS, HEAVY DUTY**

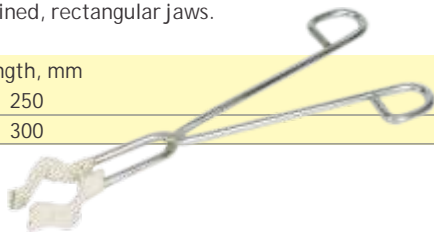
For hot beakers from 100 to 1500 ml capacity. Stainless steel with riveted joint and fiberglass-covered jaws. Length: 12 1/2".

CH13035

FLASK TONGS

Stainless steel, cork lined, rectangular jaws.

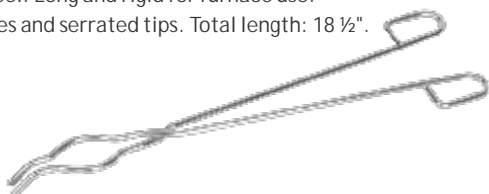
	Length, mm
CH13038/2	250
CH13038/4	300

**MUFFLE FURNACE CRUCIBLE TONGS**

Nickel-plated steel. Long and rigid for furnace use.

With large handles and serrated tips. Total length: 18 1/2".

CH13040

**PIPE CLAY TRIANGLE**

Pipeclay stems on iron wire.

	Length, mm
CH13050/2	50
CH13050/4	65
CH13050/6	75

**TRIPOD STAND**

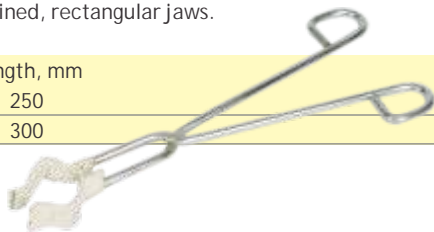
Triangular top of cast iron, with steel legs bent outwards for stability, painted.

	Length of one side, mm	Ht., mm
CH13055/2	100	150
CH13055/4	125	200

FLASK TONGS

Stainless steel, cork lined, rectangular jaws.

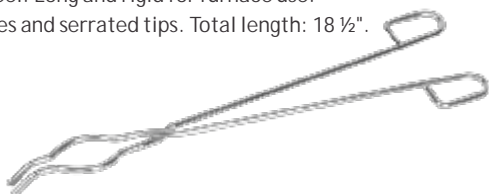
	Length, mm
CH13038/2	250
CH13038/4	300

**MUFFLE FURNACE CRUCIBLE TONGS**

Nickel-plated steel. Long and rigid for furnace use.

With large handles and serrated tips. Total length: 18 1/2".

CH13040

**PIPE CLAY TRIANGLE**

Pipeclay stems on iron wire.

	Length, mm
CH13050/2	50
CH13050/4	65
CH13050/6	75

**TRIPOD STAND, STEEL** 1

Triangular top, all steel welded, legs bent outward for stability. Length of one side 130 mm, height 200 mm.

CH13058

TRIPOD STAND, CIRCULAR 2

Cast iron top, steel legs bent outward.

	Diam., mm	Ht., mm
CH13060/1	100	150
CH13060/3	125	200



BURNER TRIPOD

A good-quality tripod for supporting small objects over a burner. Legs are detachable for ease of storage. Made of black enameled cast iron. Size 9" Height, 3-1/2" O.D.

CH13060/2A

TRIPOD

Iron ring supported on three legs eliminates rocking. Size 127 x 230 mm.

CH13061/1



TRIPOD STAND, CIRCULAR

Consists of a circular top attached to steel legs. The lower half of the legs are bent for maximum stability.

CH13062/1	210 mm
CH13062/3	190 mm, with triangular attachment at base



RUBBER TUBING, RED

For general laboratory use, roll of 10 meter length

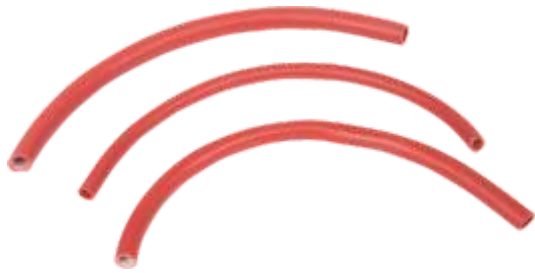
	Bore, mm	Wall thickness, mm
CH13064/1	4	1.0
CH13064/2	5	1.5
CH13064/3	6	1.5
CH13064/4	7	1.5
CH13064/5	8	1.5
CH13064/6	9	2.0
CH13064/7	10	2.0
CH13064/8	12	2.5



RUBBER TUBING, PRESSURE

For general laboratory use, roll of 10 meter length

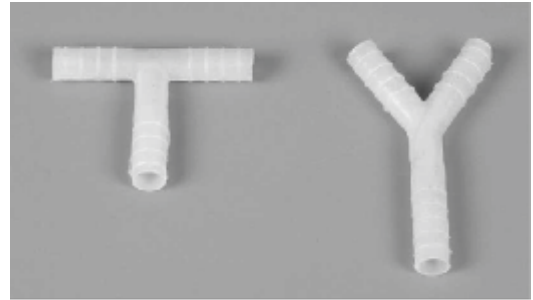
	Bore, mm	Wall thickness, mm
CH13065/2	3.0	3.0
CH13065/3	4.5	3.0
CH13065/4	6.0	3.0
CH13065/5	8.0	3.0
CH13065/6	9.0	3.0
CH13065/7	10.0	3.5
CH13065/8	12.5	4.5



RUBBER TUBING, HIGH PRESSURE

For general laboratory use, roll of 10 meter length

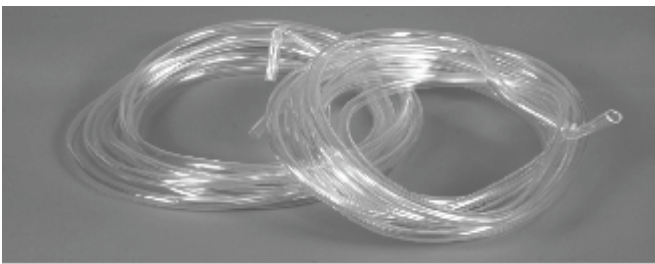
	Bore, mm	Wall thickness, mm
CH13067/1	3.0	4.5
CH13067/2	4.5	4.5
CH13067/3	6.0	4.5
CH13067/4	8.0	4.5
CH13067/5	9.0	4.5
CH13067/6	12.5	6.5



TUBING CONNECTORS T & Y SHAPE

The crest & valley structure provided at all the ends of the connectors give excellent leakproof grip to the tube.

CH13075/1	T Connectors 6 mm
CH13075/3	T Connectors 8 mm
CH13075/5	T Connectors 10 mm
CH13075/7	Y Connectors 6 mm
CH13075/8	Y Connectors 8 mm
CH13075/9	Y Connectors 10 mm



TUBING PVC

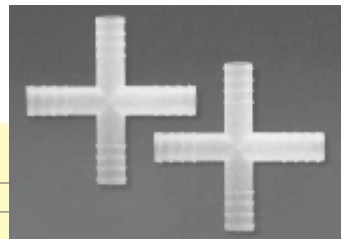
Transparent medium wall, tough and flexible, resistant to acids and alkalis, Roll of 10 meters.

	Bore, mm	Wall thickness, mm
CH13069/1	3	0.75
CH13069/2	5	1.5
CH13069/3	6.5	1.5
CH13069/5	6	2
CH13069/7	10	2
CH13069/9	2.5	2

CONNECTORS (CROSS)

Four way connectors prove to be an excellent option for achieving leakproof joints in tubing connections.

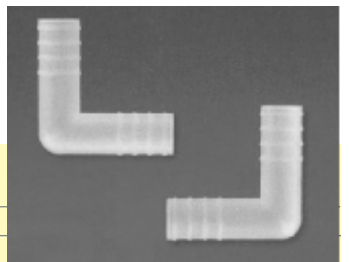
	Size, mm
CH13080/2	6
CH13080/4	8
CH13080/5	10



CONNECTORS (L SHAPED)

These L shaped connectors also add to the range of different connectors committed to provide excellent leak proof tube arrangements.

	Size, mm
CH13085/2	6
CH13085/3	8
CH13085/5	10



TUBING, SILICON RUBBER

	Bore, mm	Wall thickness, mm
CH13070/1	3	1
CH13070/2	4	1.5
CH13070/4	6	1.5
CH13070/6	8	2.0
CH13070/8	10	2.0
CH13070/9	11	-



RIA VIAL

These Polypropylene/Polystyrene tubes are generally used in RIA, Coagulation and Bacteriology. The Polypropylene tubes are clear and can withstand 3000 RCF during Centrifugation while the transparent Polystyrene tubes can withstand 1400 RCF. The PP tubes can accept common acids, alkalies & solvents at room temperature while the PS tubes can accept mild bases, weak acids but not organic solvents.

	Size
VIA10001/1	12x75 mm/ PS
VIA10001/2	12x75 mm/PP
VIA10001/3	Cap for 12 mm RIA Tube



STORAGE VIAL - INTERNAL THREAD

Another addition to the range of storage vials is this vial which has internal thread in it. The cap fitted with an O-ring screws in to the vial and makes it a leakproof storage vial.

	Capacity, ml
VIA10006	2.0



STORAGE VIAL

As the name suggests, these vials are commonly used for storage of biological material, human & animal cells. The Cap is provided with a built in seal ring making the vial leakproof. The base of the vial has longitudinal grooves which give it a non- twisting character when placed in a vial rack.

	Capacity, ml
VIA10002/1	1.0
VIA10002/2	2.0
VIA10002/4	5.0



STORAGE VIAL

These Polypropylene vials add to the existing range of storage vials. Available in 5 ml. & 10 ml. Capacities, these vials have polypropylene cap with built in seal ring making it a leakproof vial. Just like others storage vials these vials are also used for the storage of biological material, animal & human cells etc.

	Capacity, ml
VIA10008/1	SV-10
VIA10008/2	SV-5



STORAGE VIAL WITH O-RING

This vial has an O-ring in the cap that makes it absolutely leakproof. Like other storage vials this vial can also be used for storage purposes.

	Capacity, ml
VIA10004	2.0



SCINTILLATION VIAL

These unbreakable vials, moulded in Polyethylene, are fitted with leakproof screw caps. These vials can be used with standard counting equipment for liquid scintillation system and are excellent for low activity count.

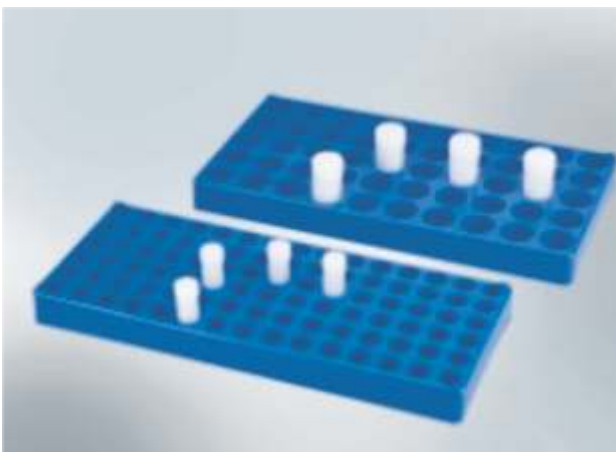
	Capacity, ml
VIA10010/1	8
VIA10010/2	20



CRYO VIAL-INTERNAL THREAD

Adding to the existing range of Cryo Vials which has internal thread in it. The cap fitted with an O-ring screws in to the vial and makes it a leakproof Cryo Vial. These vials are provided with white, prominent graduations and a long marking area for sample identification.

	Capacity, ml
VIA10014	2.0



RACK FOR SCINTILLATION VIAL

These Racks for Scintillation Vials, moulded in Polypropylene, are autoclavable & corrosion resistant. There is an individual rack for both 8 ml. & 20 ml. Vials. These rugged & stable rack can hold scintillation vials for convenient storage, handling & sample preparations.

	Capacity
VIA10012/1	Rack for 90 vials of 8 ml
VIA10012/2	Rack for 50 vials of 20 ml



CRYO VIAL

Cryo vials are normally used for storage of Biological material, human & animal cells. These sterilized tubes are provided with white, prominent graduations and a long marking area for sample identification. The cap of these vials is provided with a seal ring inside to make it completely leakproof. The longitudinal grooves in the base give a non-twisting feature to these vials when placed in a cryo rack.

	Capacity, ml
VIA10016/1	1.0
VIA10016/2	1.8
VIA10016/3	4.5



CRYO CODERS

These Coders available in different colours can easily fit into the cap of cryo vials for colour identification of different samples.

VIA10018



CRYO BOX (PC)

Cryo Boxes are moulded in Polycarbonate making it extra strong and autoclavable. These can accommodate Cryo Vials of up to 4.5 ml. Capacity and are designed to be used at temperatures ranging from -190 °C to +121 °C. The transparent cover of the box gives a good view of the contents inside and is numbered for better inventory control.

	Size
VIA10022/1	81 Places for 1ml. or 1.8 ml. Cryo vials
VIA10022/2	81 Places for 4.5 ml. Cryo vials
VIA10022/3	100 Places for 1 ml. or 1.8 ml. Cryo vials Vials
VIA10022/4	50 Places for 1 ml. or 1.8 ml. Cryo vials Vials



CRYO RACK

Cryo Rack is moulded in Polycarbonate making it tough, durable & autoclavable. This handy rack can hold 50 vials at a time. The unique feature of this rack is that vials can be unscrewed without actually picking them up as the vials will lock in every well and hence will not twist. This rack is provided with four anti skid rubbers & each well is identified with an alpha-numeric index.

VIA10020

50 places for 1, 1.8 & 4.5 ml Cryo Vials



CRYO BOX (PP)

Moulded in Polypropylene, the top of the box is attached to the bottom through well designed built- in hinges. The bottom has built-in spaces to hold vials up to 2 ml. capacity. Available in two different sizes, these autoclavable boxes bear alpha numeric index for easy identification of different vials place inside.

	Size
VIA10024/1	81 Places for 1 ml. or 1.8 ml. Cryo vials
VIA10024/2	100 Places for 1ml. or 1.8 ml. Cryo vials

WATCH GLASS

Concave, with ground edge

	Diam., mm
CH13090/1	50
CH13090/3	75
CH13090/5	100

**WATCH GLASS**

Borosilicate glass, concave, fire polished edge.

	Diam., mm
CH13095/2	75
CH13095/4	100
CH13095/6	125
CH13095/8	150

**WATER STILL, WALL TYPE**

Automatic electrically heated. Designed to provide pyrogen free distilled water at low cost. All main parts like boiling chamber, lid, baffle, condenser tube are of stainless steel. The heating element has automatic cut-out which cuts current off if water level falls. Easy to clean and reassemble. Complete with wall mounting bracket, electrical cord, connector etc. to work on 240v, 50 Hz.

	Output, Litre/hr.	Wattage, kW
CH14020/2	1.5	1.5
CH14020/4	2.0	2.0
CH14020/6	4.0	4.0
CH14020/8	6.0	6.0

**WATER STILL**

Easy to use, safe to operate and is designed for trouble free continuous operation. Suitable for general laboratory use.

Features:

The still produces 4 litres/hr of distilled water through a 3 kW heater housed in a horizontal borosilicate glass boiler.

Boiler & Condenser:

Are made of heat resistant borosilicate glass and are designed for high efficiency, boiler is with PTFE stopcock for easy cleaning. All plumbing connections are through screw thread connectors.

Stand: Powder coated for long rust free life.

Heater: 3 Kw chromium plated heater fitted with a thermostat.

Output: Approx 4 ltrs/ Hrs.

CH14030

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Shiv Dial Sud & Sons
23, Industrial Estate Ambala Cantt. 133 006 INDIA
Tel: +91-171-2699297, 2699537, 2699903
Mail: info@shivsons.com
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Shiv Dial Sud & Sons

23, Industrial Estate, Ambala Cantt. 133 006 (INDIA)

Tel : +91-171-2699297, 2699537, 2699903

E-mail: info@shivsons.com

Website : www.shivsons.com