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EQUIPMENTS

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Industrial

Pharmaceutical

COMPOSITE LAB LINE PVT LTD

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CERTIFICATES



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Our Mission :

To enable our customers to improve the quality of life & make the society & environment cleaner, greener & healthier.

Our Vision :

To be the trusted and preeminent global provider to the research laboratories along with customer satisfaction as a final goal.

INDEX

<u>Page No</u>	<u>Item Name</u>	<u>Product Code</u>
01.	Autoclave Vertical Economy	(CSI-101)
01.	Autoclave Vertical Deluxe Model	(CSI-102)
01.	Autoclave Vertical Semi Automatic Digital	(CSI-103)
02.	Autoclave Vertical Fully Automatic Digital	(CSI-104)
02.	Autoclave Vertical High Pressure (Upto 30psi)	(CSI-105)
02.	Autoclave Horizontal Cylindrical Double Walled	(CSI-106)
02.	Steam Sterilizer Horizontal High Pressure Triple Walled	(CSI-107)
03.	Steam Sterilizer Horizontal High Pressure Rectangular	(CSI-108)
03.	Autoclave Portable-Single Walled (Made of SS-304 grade)	(CSI-109)
03.	Table Top Autoclave(Microprocessor Based)	(CSI-110)
03.	B.O.D. Incubator Low Temperature	(CSI-111)
04.	B.O.D. Incubator Low Temperature (Deluxe Model)	(CSI-112)
04.	Seed Germinator (Single Chamber)	(CSI-113)
05.	Seed Germinator (Dual Chamber)	(CSI-114)
05.	Humidity & Temperature Control Cabinet	(CSI-115)
05.	Environmental Chamber Cooled Stability Chamber	(CSI-116)
06.	Stability Chamber	(CSI-117)
06.	Carbon Di-Oxide Incubator	(CSI-118)
06.	Carbon Di-Oxide Incubator Deluxe Model	(CSI-119)
06.	Plant Growth Chamber	(CSI-120)
07.	Dehumidifier	(CSI-121)
07.	Orbital Shaking Incubator Cum-B.O.D- Incubator	(CSI-122)
07.	Refrigerated Circulating Liquid Bath	(CSI-123)
07.	Constant Temperature Refrigerated Water Bath	(CSI-124)
08.	Chiller Circulator	(CSI-125)
08.	Deep Freezer Vertical	(CSI-126)
08.	Deep Freezer Horizontal	(CSI-127)
09.	Deep Freezer (With Glycol Gel Filled Packs)	(CSI-128)
09.	Deep Freezer (Battery Operated)	(CSI-129)
09.	Ultra Low Temperature Bio-Freezer	(CSI-130)
10.	Chest / Vertical Freezer - Low Cost	(CSI-131)
10.	Ultra Low Temperature Deep Freezer -86°C	(CSI-132)
10.	Ice Flaking Machine (Heavy Duty Continuous Rating)	(CSI-133)
11.	Ice Flaking Machine (Light Weight)	(CSI-134)
11.	Lyophilizer (Freeze Dryer)	(CSI-135)
11.	Laboratory Pharmacy / Medical Refrigerator	(CSI-136)
11.	Laboratory Refrigerator	(CSI-137)
12.	Combi Freezer & Refrigerator	(CSI-138)
12.	Blood Bank Refrigerator (Low Cost Economy Model)	(CSI-139)
12.	Blood Bank Refrigerator (Deluxe Model)	(CSI-140)
13.	Mortuary Chamber / Freezer	(CSI-141)
13.	Plasma Freezer Vertical	(CSI-142)
13.	Platelet Incubator	(CSI-143)
13.	Platelet Agitator	(CSI-144)
13.	U.V Sterilizing Chamber	(CSI-145)
13.	Glass Bead Sterilizer	(CSI-146)
13.	Transportable Clean Air Transfer Trolley	(CSI-147)
14.	Horizontal Laminar Flow Cabinet	(CSI-148)
14.	Vertical Laminar Air Flow Cabinet	(CSI-149)
15.	Vertical Laminar Air Flow Cabinet (Total Exhaust Model)	(CSI-150)
15.	Biological Safety Cabinet (Class-II, Type-A2)	(CSI-151)
16.	Biological Safety Cabinet (Class-II, Type-B2)	(CSI-152)
16.	Biological Safety Cabinet (Class III)	(CSI-153)
17.	Air Shower (Class-100)	(CSI-154)
17.	Fume Hood	(CSI-155)
17.	Fume Hood (Dulex)	(CSI-156)

INDEX

<u>Page No</u>	<u>Item Name</u>	<u>Product Code</u>
17.	Tissue Culture Rack	(CSI-157)
18.	Air Curtain (Walk Through Barrier)	(CSI-158)
18.	Tissue Culture Hood/Innoculation Chamber	(CSI-159)
18.	Fumigation Chamber	(CSI-160)
18.	Rotary Vacuum Evaporator (With Heating Bath)	(CSI-161)
19.	Electric Water Aspirator	(CSI-162)
19.	Digital Vacuum Controller	(CSI-163)
19.	Rotary Vacuum Evaporator (Economy Model)	(CSI-164)
19.	Rotary Vacuum Evaporator Advance Digital Model	(CSI-165)
20.	Distillation Apparatus All Glass	(CSI-166)
20.	Water Still Heavy Duty	(CSI-167)
20.	Basic Baby Fermenter	(CSI-168)
20.	Hot Air Oven Universal (Mettmert Type)	(CSI-169)
21.	Oven Universal (High Temperature)	(CSI-170)
22.	Mini Tray Drying Oven/ Mini Dehydrator	(CSI-171)
22.	Industrial Tray Drying Oven	(CSI-172)
22.	Tray Drying Oven / Dehydrator	(CSI-173)
22.	Vacuum Oven Temperature range up to 150°C	(CSI-174)
23.	Vacuum Oven Temperature range up to 200°C	(CSI-175)
23.	Vacuum Oven Temperature range up to 300°C	(CSI-176)
23.	Hybridization Incubator	(CSI-177)
23.	Oven and Incubator Combined	(CSI-178)
24.	Bacteriological Incubator	(CSI-179)
25.	Incubator Shaker (Bench Top)	(CSI-180)
25.	Orbital Shaking Incubator (Floor Model)	(CSI-181)
25.	Egg Incubator	(CSI-182)
25.	Poultry Incubator	(CSI-183)
25.	Poultry Setter Cum Hatching Incubator	(CSI-184)
26.	Muffle Furnace	(CSI-185)
26.	Muffle Furnace Microprocessor Controlled Deluxe Model	(CSI-186)
26.	High Temperature Heat Treatment Furnace	(CSI-187)
27.	Ultrasonic Cleaning Bath	(CSI-188)
27.	Heated Bath Circulator	(CSI-189)
27.	Water Bath Rectangular Single Walled	(CSI-189)
27.	Water Bath Rectangular Double Walled	(CSI-191)
28.	Water Bath Serological	(CSI-192)
28.	Water Bath High Precision	(CSI-193)
28.	Water Bath Incubator Shaker	(CSI-194)
29.	Water Bath Incubator Shaker (Refrigerated)	(CSI-195)
29.	Orbital Water Bath Incubator Shaker (Orbital Motion)	(CSI-196)
29.	Oil Bath High Temperature	(CSI-197)
29.	Tissue Flootation Bath	(CSI-198)
29.	Inspissator	(CSI-199)
29.	Mini Rotary Flask Shaker	(CSI-200)
30.	Orbital Shaker Table Top	(CSI-201)
30.	Rotary Flask Shaker Variable Speed	(CSI-202)
30.	Rotary Flask Shaker Heavy Duty Continuous Rating	(CSI-203)
31.	VDRL Rotator (Operates at 180 rpm)	(CSI-204)
31.	Mechanical Shaker Reciprocating Kahn's Type	(CSI-205)
31.	Wrist Action Shaking Machine	(CSI-206)
31.	Wagner's Shaking Machine	(CSI-207)
31.	Vortex Shaker Test Tube Shaker	(CSI-208)
31.	Cyclo/Vortex Mixer	(CSI-209)
32.	Multi-Tube Vortex Mixer	(CSI-210)
32.	Rocker Shaker	(CSI-211)
32.	Tube Rotator (Slow Speed)	(CSI-212)

INDEX

<u>Page No</u>	<u>Item Name</u>	<u>Product Code</u>
32.	Flocculator (Jar Testing Apparatus)	(CSI-213)
33.	Magnetic Stirrer-cum-Hot Plate	(CSI-214)
33.	Hot Plate Magnetic Stirrer (Ceramic Coated Top)	(CSI-215)
33.	Multi-Magnetic Stirrer	(CSI-216)
33.	Laboratory Stirrer (Fitted with DC Motor)	(CSI-217)
33.	Emulsifier (Homogenizer) Fitted with DC Motor	(CSI-218)
33.	Filter Holder (For Sterility Test)	(CSI-219)
33.	Sterility Test Unit	(CSI-220)
34.	Sieve Shaker (Table Top)	(CSI-221)
34.	Gyratory Sieve Shaker.	(CSI-222)
34.	Rotap Sieve Shaker	(CSI-223)
34.	Wet Sieve Shaker (Yoder Type)	(CSI-224)
34.	Test Sieves (Fine Series in 8" Dia. Brass Frame)	(CSI-225)
34.	Test Sieves	(CSI-226)
34.	Table Top General Purpose Centrifuge	(CSI-227)
35.	Bottle Washing Machine	(CSI-228)
35.	Lab Willey Grinder (Arthur H. Thomas Type)	(CSI-229)
35.	Ball Mill - (Variable Speed With Stainless Steel Jar)	(CSI-230)
35.	Electric Agate Mortar Pestle (Fisher Type)	(CSI-231)
35.	Tissue Homogenizer (Electrically Operated)	(CSI-232)
36.	Micro Tissue Homogenizer (Disintegrator Virtis Type)	(CSI-233)
36.	Ultrasonic Tissue Processor	(CSI-234)
36.	Aerosol Disinfector - S.S.Body	(CSI-235)
36.	Humidifier - S.S.Body	(CSI-236)
36.	Ultra High Driven Vacuum Pump	(CSI-237)
37.	Rotary Vacuum Pump (Economy Model)	(CSI-238)
37.	Rotary Vacuum Pump (Deluxe Model)	(CSI-239)
37.	Vacuum Pump / Compressor Oil Free (Low Cost Economy Model)	(CSI-240)
38.	Seed Blower (Dakota Blower)	(CSI-241)
38.	Seitz Filter	(CSI-242)
38.	Melting Point Apparatus	(CSI-243)
38.	High Precision Melting Point Apparatus Digital	(CSI-244)
39.	Glassware Dryer	(CSI-245)
39.	Automatic Pipette Washer	(CSI-246A)
39.	Automatic Pipette Dryer	(CSI-246B)
39.	Colony Counter Digital	(CSI-247A)
39.	Colony Counter (Microprocessor)	(CSI-247B)
39.	Rectangular Hot Plate	(CSI-248)
40.	Hot Plate Round	(CSI-249)
40.	Slide Warming Table	(CSI-250)
40.	Heating Mantle	(CSI-251)
40.	Kjeldahl Distillation Unit	(CSI-252)
40.	Kjeldahl Digestion Unit	(CSI-253)
40.	Kjeldahl Distillation & Digestion Combined Unit	(CSI-254)
41.	Micro Kjeldahl Digestion Unit	(CSI-255)
41.	Soxhlet Extraction Unit	(CSI-256)
41.	Kjeldahl Dry Block Digestor	(CSI-257)
41.	Dry Bath Incubator (Heating Block Incubator)	(CSI-258)
41.	C.O.D Digestor (With Auto Time Controlled)	(CSI-259)
42.	Microslide Cabinet (Closed Pack Manner)	(CSI-260)
42.	Microslide Cabinet (Horizontal Manner)	(CSI-261)
42.	Block Cabinet	(CSI-262)
42.	U.V. Transilluminator	(CSI-263)
42.	Electrophoresis Power Supply Digital	(CSI-264)
42.	Bomb Calorimeter (Digital)	(CSI-265)
43.	Bomb Calorimeter (Fully Automatic Microprocessor Controlled)	(CSI-266)
43.	Ultra Violet Fluorescence Analysis Cabinet	(CSI-267)

INDEX

<u>Page No</u>	<u>Item Name</u>	<u>Product Code</u>
43.	Cadaverous Injector	(CSI-268)
43.	PH Meters Digital	(CSI-269D)
43.	PH Meters Microprocessor Based	(CSI-269M)
44.	Potentiometer Digital (For Redox-Potential Measurement)	(CSI-270)
44.	Conductivity Meter - (Microprocessor Based)	(CSI-271)
44.	Conductivity / T.D.S./ Salinity/Temperature Meter	(CSI-272)
44.	T.D.S. Meter Digital - (Microprocessor Based)	(CSI-273)
45.	Salinity Meter Digital (Microprocessor Based)	(CSI-274)
45.	Dissolved Oxygen Meter (Microprocessor Based)	(CSI-275)
45.	Turbidity / Nephelo meters (LED Model)	(CSI-276)
45.	Photo Colorimeter - (Microprocessor Based)	(CSI-277)
45.	Pyrogen Testing Instruments (With Six Rectal Probes)	(CSI-278)
45.	Soil Thermometer - (Microprocessor based)	(CSI-279)
46.	Portable Soil & Water Analyser Kit	(CSI-280)
46.	Automatic Voltage Stabilizer	(CSI-281)
46.	Servo Controlled Voltage Stabilizer	(CSI-282)
46.	Overhead Projector (Deluxe Twin Lamp Model)	(CSI-283)
46.	Soil Tensiometer	(CSI-284)
47.	Semi Automatic Corcyra Rearing System	(CSI-285)
47.	Pulper Machine	(CSI-286)
47.	Fruit Crusher (Crushing Machine)	(CSI-287)
47.	Juice Press (To Extract Juice From Crushed Fruits)	(CSI-288)
47.	Steam Jacketed Kettle	(CSI-289)
47.	Bottle Filling Machine Volumetric	(CSI-290)
48.	Tablet Dissolution Rate Test Equipment	(CSI-291)
48.	Tablet Disintegration Test Machine (I.P.STD.1985)	(CSI-292)
48.	Friability Test Equipment	(CSI-293)
48.	Tablet Hardness Tester	(CSI-294)
48.	Capsule Filling Machine	(CSI-295)
49.	Collapsible Tube Filling Machine	(CSI-296)
49.	Tube Crimping & Sealing Machine	(CSI-297)
49.	Suppository Mould	(CSI-298)
49.	Tablet Coating Pan	(CSI-299)
49.	Tablet Polishing Pan	(CSI-300)
49.	Conical Percolator	(CSI-301)
49.	Ampoule Clarity Test Equipment	(CSI-302)
50.	Tablet Making Machine	(CSI-303)
50.	Continuos Hot Extraction Equipment	(CSI-304)
50.	Tablet Counting Shovels	(CSI-305)
50.	Tincture Press	(CSI-306)
50.	Hand Grinding Mill	(CSI-307)
50.	Disintegrator Machine	(CSI-308)
51.	Mixing Vat	(CSI-309)
51.	Liquid Filling Machine (Volumetric)	(CSI-310)
51.	Student Jar Bath Thermostatic	(CSI-311)
51.	Double Unit Organ Bath Thermostatic	(CSI-312)
51.	Stop Watch	(CSI-313)
51.	Granulation Sieves	(CSI-314)
51.	Aseptic Cabinet	(CSI-315)
51.	Prescription Balance	(CSI-316)
51.	Ampoule Washing Machine	(CSI-317)
52.	Ampoule Filling & Sealing Machine	(CSI-318)
52.	Ointment Spatula	(CSI-319)
52.	Digital Electronic Top Loading Balance	(CSI-320)
52.	Digital Platform Weighing Scales	(CSI-321)

Autoclave Vertical Economy

CSI - 101

Inner Chamber made of Stainless Steel and outer wall of M.S Sheet duly enamel painted. Lid is made of M.S plate lined with Stainless Steel from inside. Support ring and legs are made of mild steel duly enamel painted. Gasket is made of neoprene.

MODEL	INNER DIMENSION (DIA x HT)	CAPACITY	HEATER LOAD
CSI - AV-22	250x450 mm	22 ltrs	2.0 KW
CSI - AV-40	300x500 mm	40 ltrs	2.0 KW
CSI - AV-50	350x550 mm	50 ltrs	3.0 KW
CSI - AV-78	400x600 mm	78 ltrs	4.0 KW
CSI - AV-98	450x600 mm	98 ltrs	4.0 KW
CSI - AV-187	550x750 mm	187 ltrs	4.0 KW

OPTIONS

- Pressure Control Switch/ Pressure Cut Off (*PCO) device.
- Low Water Level Cut Off (*WCO) device for safety of heating element.
- Analogue 0-60 minutes ON/OFF mechanical timer.
- Digital ON/OFF timer with LED display.
- Efficient steam condenser to eliminate steam exhaust into the lab.



Autoclave Vertical Deluxe Model

CSI - 102

Inner and outer wall both made of Stainless Steel. Lid is made of thick machined stainless steel plate, Support ring and legs are also made of stainless steel. Gasket is made from imported SILICON rubber.

MODEL	INNER DIMENSION (DIA x HT)	CAPACITY	HEATER LOAD
CSI - AV-22(DX)	250x450 mm	22 ltrs	2.0 KW
CSI - AV-40(DX)	300x500 mm	40 ltrs	2.0 KW
CSI - AV-50(DX)	350x550 mm	50 ltrs	3.0 KW
CSI - AV-78(DX)	400x600 mm	78 ltrs	4.0 KW
CSI - AV-98(DX)	450x600 mm	98 ltrs	4.0 KW
CSI - AV-187(DX)	550x750 mm	187 ltrs	4.0 KW

OPTIONS

- Pressure Control Switch/ Pressure Cut Off (*PCO) device.
- Low Water Level Cut Off (*WCO) device for safety of heating element.
- Analogue 0-60 minutes ON/OFF mechanical timer.
- Digital ON/OFF timer with LED display.
- Efficient steam condenser to eliminate steam exhaust into the lab.
- Solid State Digital Temperature Indicator-cum-Controller.
- Digital Pressure gauge with electronic transducer and syphon.



Autoclave Vertical Semi Automatic Digital

CSI - 103

Inner and outer wall both made of Stainless Steel. Lid is made of thick machined stainless steel plate. Support ring and legs are also made of stainless steel. Gasket is made from imported SILICON rubber. Fitted with Semi-Automatic Digital Controller with AUTO-TIME CONTROL SYSTEM. After the set temperature is attained the timer starts automatically and on completion of set count down / up time the supply to heaters is cut off and the system sounds a buzzer alerting user that the cycle is over.

MODEL	INNER DIMENSION (DIA x HT)	CAPACITY	HEATER LOAD
CSI - AVS-22	250x450 mm	22 ltrs	2.0 KW
CSI - AVS-40	300x500 mm	40 ltrs	2.0 KW
CSI - AVS-50	350x550 mm	50 ltrs	3.0 KW
CSI - AVS-78	400x600 mm	78 ltrs	4.0 KW
CSI - AVS-98	450x600 mm	98 ltrs	4.0 KW
CSI - AVS-187	550x750 mm	187 ltrs	4.0 KW

OPTIONS

- Pressure Control Switch/ Pressure Cut Off device.
- Low Water Level Cut Off device for safety of heating element.
- Efficient steam condenser to eliminate steam exhaust into the lab.
- Digital Pressure gauge with electronic transducer and syphon.
- Semi automatic Digital Controller with 16 x 2 LINE ALPHANUMERIC LCD DISPLAY in lieu of controller with LED display.



Autoclave Vertical Fully Automatic Digital

CSI - 104

Inner and outer wall both made of Stainless Steel. Lid is made of thick machined stainless steel plate. Support ring and legs are also made of stainless steel. Gasket is made from imported SILICON rubber. Fitted with microprocessor based fully automatic fuzzy logic control system with timer buzzer (Auto Time Control). The unit is also fitted with low-water level cut-off as a standard feature. Fitted with automatic purging and exhaust valve.

MODEL	INNER DIMENSION (DIA x HT)	CAPACITY	HEATER LOAD
CSI - AV-22	250x450 mm	22 ltrs	2.0 KW
CSI - AV-40	300x500 mm	40 ltrs	2.0 KW
CSI - AV-50	350x550 mm	50 ltrs	3.0 KW
CSI - AV-78	400x600 mm	78 ltrs	4.0 KW
CSI - AV-98	450x600 mm	98 ltrs	4.0 KW
CSI - AV-187	550x750 mm	187 ltrs	4.0 KW



OPTIONS

- Pressure Control Switch/ Pressure Cut Off device
- Efficient steam condenser to eliminate steam exhaust into the lab.
- Digital Pressure gauge with electronic transducer and syphon.

Autoclave Vertical High Pressure (Upto 30psi)

CSI - 105

Details same as CSI-101, but a heavy duty high pressure system to work on a maximum pressure of 30 psi instead of 20 psi.

INNER DIMENSION (DIA x HT)	CAPACITY	HEATER LOAD	With Tubular Stand & Ring made of M.S.	Complete Body With Tubular Stand & Ring made of S.S.
			MODEL	MODEL
250x450 mm	22 ltrs	2.0 KW	CSI-AHP-22(SAD)	CSI-AHP-22(FAD)
300x500 mm	40 ltrs	2.0 KW	CSI-AHP-40(SAD)	CSI-AHP-40(FAD)
350x550 mm	50 ltrs	3.0 KW	CSI-AHP-50(SAD)	CSI-AHP-50(FAD)
400x600 mm	78 ltrs	4.0 KW	CSI-AHP-78(SAD)	CSI-AHP-78(FAD)
450x600 mm	98 ltrs	4.0 KW	CSI-AHP-98(SAD)	CSI-AHP-98(FAD)
550x750 mm	187 ltrs	4.0 KW	CSI-AHP-187(SAD)	CSI-AHP-187(FAD)



OPTIONS

- Pressure Control Switch/ Pressure Cut Off device.
- Efficient steam condenser to eliminate steam exhaust into the lab.
- Digital Pressure gauge with electronic transducer and syphon.

Autoclave Horizontal Cylindrical Double Walled

CSI - 106

INNER DIMENSION (DIA x HT)	CAPACITY	HEATER LOAD	With Tubular Stand & Ring made of M.S.	Complete Body With Tubular Stand & Ring made of S.S.
			MODEL	MODEL
250x450 mm	22 ltrs	2.0 KW	CSI-AHP-22(SAD)	CSI-AHP-22
300x500 mm	40 ltrs	2.0 KW	CSI-AHP-40(SAD)	CSI-AHP-40
350x550 mm	50 ltrs	3.0 KW	CSI-AHP-50(SAD)	CSI-AHP-50
400x600 mm	78 ltrs	4.0 KW	CSI-AHP-78(SAD)	CSI-AHP-78
450x600 mm	98 ltrs	6.0 KW	CSI-AHP-98(SAD)	CSI-AHP-98
550x750 mm	187 ltrs	8.0 KW	CSI-AHP-187(SAD)	CSI-AHP-187



Steam Sterilizer Horizontal High Pressure Cylindrical Triple Walled

CSI - 107

INNER DIMENSION (DIA x HT)	CAPACITY	With Tubular Stand & Ring made of M.S.	Complete Body With Tubular Stand & Ring made of S.S.
		MODEL	MODEL
250x450 mm	22 ltrs	CSI-AHP-22(SAD)	CSI-AHCSS-88
300x500 mm	162 ltrs	CSI-AHP-40(SAD)	CSI-AHCSS-162
350x550 mm	165 ltrs	CSI-AHP-50(SAD)	CSI-AHCSS-165
400x600 mm	221 ltrs	CSI-AHP-78(SAD)	CSI-AHCSS-221



OPTIONS

- Digital Temperature Indicator can be supplied in lieu of dial thermometer.
- Microprocessor Based Digital Temperature Indicator cum Controller in lieu of Dial Thermometer to cost extra.
- Microprocessor Controller with LED display, Automatic Digital Minute Timer and alarm for cycle end.
- PLC Controller with 32 character (2x16 character) backlit alphanumeric LCD display with Automatic Digital Minute Timer and alarm for cycle end. These controller enables automatic purging of stale air, sterilizing hold time for sterilizing period and cycle with automatic exhaust pressure. (Option available only for CSI-103).
- Digital Pressure Gauge with electronic transducer and syphon.
- Extra injector in addition to vacuum dry can be provided at an extra cost for better drying (Option available only for CSI-104).
- POP type safety valve in lieu of spring loaded safety valve, at an extra cost. (Option available only for CSI-104).

Steam Sterilizer Horizontal High Pressure Rectangular

CSI - 108

MODEL	INNER DIMENSION	CAPACITY	HEATER LOAD
CSI -ARHP-180	450x450x900 mm	180ltrs	6.0 KW
CSI -ARHP-240	450x450x900 mm	240 ltrs	9.0 KW
CSI -ARHP-320	600x600x900mm	320 ltrs	9.0 KW
CSI -ARHP-430	600x600x1200mm	430 ltrs	9.0 KW



Autoclave Portable-Single Walled (Made of SS-304 grade)

CSI - 109

Portable Autoclave is low cost device for general sterilization ideal for doctors, nursing homes, laboratories, dentists etc. Mainly used as general laboratory equipment where samples in small batches are required to be sterilized. Light weight & easy to carry.

MODEL	CAPACITY	HEATER LOAD
CSI-PASW-20	22 ltrs	2.0 KW
CSI-PASW-20 (D)	22 ltrs	2.0 KW



Table Top Autoclave(Microprocessor Based)

CSI - 110

Table Top Sterilizers are provided with Microprocessor based control panel which gives assured sterilization & repeatability. These Front Loading Autoclaves are provided with inbuilt water reservoir & drying facility. This type of front loading autoclave is ideal choice for doctors & scientist.

MODEL	VACUUM PULSING	CAPACITY (L)	POWER (W)	CHAMBER SIZE	VOLTAGE
CSI-BTA-22(VP)	Vacuum Pulsing Model	22	2100	Ø250x450mm	220 V/ 50 Hz



B.O.D. Incubator Low Temperature

CSI - 111

Outer Chamber made of CRC Sheet duly powder coated and inner chamber and trays made of Stainless Steel (SS-304). Fitted with two air circulating fans. Fitted with mains voltage indicator, door open inner view lamp and transparent acrylic door for inner view. Temperature range from 5°C to 60°C is controlled through Digital Temperature Indicator cum-controller with an accuracy of $\pm 0.5^\circ\text{C}$. To work on 220 volts AC Supply.

MODEL	DIMENSION INNER (WXDXH)	CAPACITY	VOLUME	NO. OF SHELVES
CSI-LTI-2(E)	405 x 405 x 405mm (BENCH TOP MODEL)	65 ltrs	2.4 Cuft	2
CSI-LTI-4(E)	455 x 410 x 610mm	112 ltrs	4 Cuft	2
CSI-LTI-6(E)	505 x 415 x 830mm	171 ltrs	6.1 Cuft	2
CSI-LTI-10(E)	570 x 550 x 875mm	280 ltrs	10 Cuft	3
CSI-LTI-12(E)	650 x 580 x 900mm	340 ltrs	12 Cuft	3
CSI-LTI-15(E)	700 x 640 x 900mm	420 ltrs	15 Cuft	4
CSI-LTI-16(E)	700 x 640 x 970mm	450 ltrs	16 Cuft	4
CSI-LTI-18(E)	700 x 640 x 1100mm	500 ltrs	18 Cuft	4
CSI-LTI-20(E)	700 x 700 x 1100mm	560 ltrs	20 Cuft	4

OPTIONS

- Interior illumination arrangement .
- Cyclic timer to control cyclic illumination conditions.
- CO₂/Air Port - For incubation of CO₂/Air Mixture.
- CO₂ Cylinder capacity 9 ltrs with CO₂ regulator and pipe fittings.
- Communication Port with interface and data cable to download data to your PC. .
- Humidity generation and control arrangement through a DIGITAL HUMIDITY INDICATOR-CUM-CONTROLLER from 55% RH to 95% RH at cool temperatures with an accuracy of $\pm 3\%$ RH.
- Exterior Illumination arrangement (Option only for humidity controlled systems - if illumination required with option (f)).
- Automatic Voltage Stabilizer to cost extra.
- Servo Voltage Stabilizer to cost extra.



B.O.D. Incubator Low Temperature (Deluxe Model)

CSI - 112

Outer Chamber made of CRC Sheet duly powder coated and inner chamber and trays made of Stainless Steel (SS-304). Triple walled back Fitted with two air circulating fans. Gap between inner chamber and outer wall is filled with foamed in - place PUF insulation. Fitted with mains voltage indicator, door open inner view lamp and transparent acrylic door for inner view. Temperature range from 5°C to 60°C is controlled through Microprocessor Based Digital Temperature Indicator-Cum-Controller with an accuracy of ±0.5°C . To work on 220 volts AC Supply.

DIMENSION INNER (WXDXH)	CAPACITY	VOLUME	NO. OF SHELVES	WITH MICROPROCESSOR DIGITAL CONTROLLER WITH LED DISPLAY	WITH 16X2 LINE ALPHANUMERIC LCD CONTROLLER HAVING HI/ LOW TEMP. AND SENSER FAILURE ALARM
				MODEL	MODEL
405 x 405 x 405mm (BENCH TOP MODEL)	65 ltrs	2.4 Cuft	2	CSI-LTI-2(DX)	CSI-LTI-2(DX-LCD)
455 x 410 x 610mm	112 ltrs	4 Cuft	2	CSI-LTI-4(DX)	CSI-LTI-4(DX-LCD)
505 x 415 x 830mm	171 ltrs	6.1 Cuft	2	CSI-LTI-6(DX)	CSI-LTI-6(DX-LCD)
570 x 550 x 875mm	280 ltrs	10 Cuft	3	CSI-LTI-10(DX)	CSI-LTI-10(DX-LCD)
650 x 580 x 900mm	340 ltrs	12 Cuft	3	CSI-LTI-12(DX)	CSI-LTI-12(DX-LCD)
700 x 640 x 900mm	420 ltrs	15 Cuft	4	CSI-LTI-15(DX)	CSI-LTI-15(DX-LCD)
700 x 640 x 970mm	450 ltrs	16 Cuft	4	CSI-LTI-16(DX)	CSI-LTI-16(DX-LCD)
700 x 640 x 1100mm	500 ltrs	18 Cuft	4	CSI-LTI-18(DX)	CSI-LTI-18(DX-LCD)
700 x 700 x 1100mm	560 ltrs	20 Cuft	4	CSI-LTI-20(DX)	CSI-LTI-20(DX-LCD)



OPTIONS

- a) Interior illumination arrangement.
- b) Cyclic timer to control cyclic illumination conditions.
- c) CO2/Air Port - For incubation of CO2 / Air Mixture.
- d) Co2Cylinder capacity 9 ltrs with CO2regulator and pipe fittings.
- e) Communication Port with interface and data cable to download data to your PC.
- f) Humidity generation and control arrangement through a DIGITAL HUMIDITY INDICATOR-CUM-CONTROLLER from 55% RH to 95% RH at cool temperatures with an accuracy of ± 3% RH.
- g) Exterior Illumination arrangement {Option only for humidity controlled systems - if illumination required with option (f)}.
- h) Automatic Voltage Stabilizer to cost extra.
- i) Servo Voltage Stabilizer to cost extra.
- j) Fitted with Microprocessor based TEMPERATURE -HUMIDITY CONTROLLER with 16x2 line alphanumeric backlit LCD display in lieu of standard controller.

Seed Germinator (Single Chamber)

CSI - 113

Outer Chamber made of CRC Sheet duly powder coated and inner chamber and trays made of Stainless Steel (SS-304). Fitted with Microprocessor Based Digital Temperature Indicator-Cum-Controller from 5°C to 60°C ±0.5°C. Humidity (not adjustable) is created in a Stainless Steel (SS-304) water reservoir fitted at bottom of inner chamber to provide humidity at 90% to 95% RH (±3%).

DIMENSION INNER (WXDXH)	CAPACITY	VOLUME	NO. OF SHELVES	MICROPROCESSOR DIGITAL CONTROLLER WITH LED DISPLAY	16X2 LINE ALPHANUMERIC LCD CONTROLLER HAVING HI/ LOW TEMP. AND SENSER FAILURE ALARM
				MODEL	MODEL
405 x 405 x 405mm	112 ltrs	4 Cuft	4	CSI-SGSC-4	CSI-SGSC-4 (LCD)
455 x 410 x 610mm	171 ltrs	6.1 Cuft	6	CSI-SGSC-6	CSI-SGSC-6 (LCD)
505 x 415 x 830mm	280 ltrs	10 Cuft	8	CSI-SGSC-10	CSI-SGSC-10 (LCD)
570 x 550 x 875mm	340 ltrs	12 Cuft	14	CSI-SGSC-12	CSI-SGSC-12 (LCD)
650 x 580 x 900mm	420 ltrs	15 Cuft	14	CSI-SGSC-15	CSI-SGSC-15 (LCD)
700 x 640 x 900mm	450 ltrs	16 Cuft	14	CSI-SGSC-16	CSI-SGSC-16 (LCD)
700 x 640 x 970mm	500 ltrs	18 Cuft	16	CSI-SGSC-18	CSI-SGSC-18 (LCD)
700 x 640 x 1100mm	560 ltrs	20 Cuft	16	CSI-SGSC-20	CSI-SGSC-20 (LCD)



OPTIONS

- a) Exterior illumination with fluorescent tubes.
- b) 0-24 hrs cyclic timer to control cyclic illumination conditions.
- c) Communication Port with interface and data cable to download data to your PC.
- d) Humidity generation and control arrangement through a DIGITAL HUMIDITY INDICATOR-CUM-CONTROLLER from 55% RH to 95% RH at cool temperatures with an accuracy of ± 3% RH.
- e) Fitted with Microprocessor based TEMPERATURE -HUMIDITY CONTROLLER with 16x2 line alphanumeric backlit LCD display in lieu of standard controller.
- f) Automatic Voltage Stabilizer to cost extra.
- g) Servo Voltage Stabilizer to cost extra.

Seed Germinator (Dual Chamber)

CSI - 114

INNER DIMENSIONS OF EACH CHAMBER (WXDXH)	TOTAL CAPACITY	TOTAL VOLUME	NO. OF SHELVES	WITH MICROPROCESSOR DIGITAL CONTROLLER WITH LED DISPLAY	WITH 16X2 LINE ALPHANUMERIC LCD CONTROLLER HAVING HI/ LOW TEMP. AND SENSER FAILURE ALARM
				MODEL	MODEL
505x415x830mm x 2Chambers	342 ltrs	12.2 Cuft	6+6	CSI-SGDC-6(CH)	CSI-SGDC-6(CH-LCD)
505x415x830mm x 2Chambers	342 ltrs	12.2 Cuft	6+6	CSI-SGDC-6(CC)	CSI-SGDC-6(CC-LCD)
570x550x875mm x 2Chambers	560 ltrs	20 Cuft	8+8	CSI-SGDC-10(CH)	CSI-SGDC-10(CH-LCD)
570x550x875mm x 2Chambers	560 ltrs	20 Cuft	8+8	CSI-SGDC-10(CC)	CSI-SGDC-10(CC-LCD)
555x605x910mm x 2Chambers	616 ltrs	22 Cuft	14+14	CSI-SGDC-11(CH)	CSI-SGDC-11(CH-LCD)
555x605x910mm x 2Chambers	616 ltrs	22 Cuft	14+14	CSI-SGDC-11(CC)	CSI-SGDC-11(CC-LCD)



OPTIONS

- Exterior illumination with fluorescent tubes (cost for each chamber).
- 0-24 hrs cyclic timer to control cyclic illumination conditions (cost for each chamber).
- Humidity generation and control arrangement through a DIGITAL HUMIDITY INDICATOR-CUM-CONTROLLER from 55% RH to 95% RH at cool temperatures with an accuracy of $\pm 3\%$ RH.
- Fitted with Microprocessor based TEMPERATURE -HUMIDITY CONTROLLER with 16x2 line alphanumeric backlit LCD display in lieu of standard controller.
- Co2 Cylinder capacity 9 ltrs with CO2 regulator and pipe fittings.
- Automatic Voltage Stabilizer to cost extra.
- Servo Voltage Stabilizer to cost extra.

Humidity & Temperature Control Cabinet

CSI - 115

Outer Chamber made of CRC Sheet duly powder coated and inner chamber and trays made of Stainless Steel (SS-304). Fitted with Microprocessor Based Digital Temperature Indicator-Cum-Controller from ambient to $60^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$. Humidity is generated and control through a DIGITAL HUMIDITY INDICATOR -CUM- CONTROLLER from ambient to 95% RH $\pm 3\%$ RH ambient.

DIMENSIONS (WXDXH)	CAPACITY	VOLUME	WITH MICROPROCESSOR DIGITAL CONTROLLER WITH LED DISPLAY	WITH 16X2 LINE ALPHANUMERIC LCD CONTROLLER HAVING HI/ LOW TEMP. AND SENSER FAILURE ALARM
			MODEL	MODEL
455x410x610mm	112 ltrs	4 Cuft	CSI-HC-4	CSI-HC-4(LCD)
505x415x830mm	171 ltrs	6.1 Cuft	CSI-HC-6	CSI-HC-6(LCD)
570x550x875mm	280 ltrs	10 Cuft	CSI-HC-10	CSI-HC-10(LCD)
650x580x900mm	340 ltrs	12 Cuft	CSI-HC-12	CSI-HC-12(LCD)
700x640x900mm	420 ltrs	15 Cuft	CSI-HC-15	CSI-HC-15(LCD)
700x640x970mm	450 ltrs	16 Cuft	CSI-HC-16	CSI-HC-16(LCD)



OPTIONS

- Communication Port with interface and data cable to download data to your PC.

Environmental Chamber Cooled Stability Chamber

CSI - 116

Outer Chamber made of CRC Sheet duly powder coated and inner chamber and trays made of Stainless Steel (SS-304). Temperature range from 10°C to $60^{\circ}\text{C} \pm 1^{\circ}\text{C}$, controlled through MICROPROCESSOR BASED DIGITAL TEMPERATURE INDICATOR - CUM - CONTROLLER and humidity range is from 5% above ambient from 40% to 95% RH at cool temperatures, controlled through a DIGITAL HUMIDITY INDICATOR -CUM- CONTROLLER.

INNER DIMENSIONS (WXDXH)	CAPACITY	VOLUME	NO. OF SHELVES	WITH MICROPROCESSOR DIGITAL CONTROLLER WITH LED DISPLAY	WITH 16X2 LINE ALPHANUMERIC LCD CONTROLLER HAVING HI/ LOW TEMP. AND SENSER FAILURE ALARM
				MODEL	MODEL
455x410x610mm	112 ltrs	4 Cuft	2	CSI-HC-4	CSI-HC-4(LCD)
505x415x830mm	171 ltrs	6.1 Cuft	2	CSI-HC-6	CSI-HC-6(LCD)
570x550x875mm	280 ltrs	10 Cuft	3	CSI-HC-10	CSI-HC-10(LCD)
650x580x900mm	340 ltrs	12 Cuft	3	CSI-HC-12	CSI-HC-12(LCD)
700x640x900mm	420 ltrs	15 Cuft	4	CSI-HC-15	CSI-HC-15(LCD)
700x640x970mm	450 ltrs	16 Cuft	4	CSI-HC-16	CSI-HC-16(LCD)
700x640x1100mm	500 ltrs	18 Cuft	4	CSI-EC-18	CSI-EC-18(LCD)
700x700x1100mm	560 ltrs	20 Cuft	4	CSI-EC-20	CSI-EC-20(LCD)



OPTIONS

- Fitted with Microprocessor based TEMPERATURE -HUMIDITY CONTROLLER with 16x2 line alphanumeric backlit LCD display in lieu of standard controller.
- Communication port with interface and data cable to download data to your PC.
- Automatic Voltage Stabilizer to cost extra.

Stability Chamber (As per ICH and GMP guidelines)

CSI - 117

MODEL	DIMENSIONS (WXDXH)	CAPACITY	VOLUME	SHELVES
CSI-HC-4	455x410x610mm	112 ltrs	4 Cuft	2
CSI-HC-6	505x415x830mm	171 ltrs	6.1 Cuft	2
CSI-HC-10	570x550x875mm	280 ltrs	10 Cuft	3
CSI-HC-12	650x580x900mm	340 ltrs	12 Cuft	3
CSI-HC-15	700x640x900mm	420 ltrs	15 Cuft	4
CSI-HC-16	700x640x970mm	450 ltrs	16 Cuft	4



OPTIONS

- Common software complying to USFDA 21 CFR part 11.
- Multipoint Scanner with communication port and Printer/PC interface.
- Standby Refrigeration system to cost extra.
- Standby Humidity System to cost extra.
- On-site validation and calibration to cost extra.
- Automatic Voltage Stabilizer to use with above.

Carbon Di-Oxide Incubator

CSI - 118

Outer chamber made of crc sheet duly powder coated and inner chamber and trays made of stainless steel (ss-304). fitted with microprocessor based digital temperature indicator-cum-controller from 5°C to 60°C ±0.5°C. fitted with co2 / air port for incubation of CO2/air mixture.

INNER DIMENSIONS (WXDXH)	CAPACITY	VOLUME	NO. OF SHELVES	WITH MICROPROCESSOR DIGITAL CONTROLLER WITH LED DISPLAY	WITH 16X2 LINE ALPHANUMERIC LCD CONTROLLER HAVING HI/ LOW TEMP. AND SENSER FAILURE ALARM
				MODEL	MODEL
455x410x610mm	112 ltrs	4 Cuft	2	CSI-HC-4(C)	CSI-HC-4(LCD)
505x415x830mm	171 ltrs	6.1 Cuft	2	CSI-HC-6(C)	CSI-HC-6(LCD)
570x550x875mm	280 ltrs	10 Cuft	3	CSI-HC-10(C)	CSI-HC-10(LCD)
650x580x900mm	340 ltrs	12 Cuft	3	CSI-HC-12(C)	CSI-HC-12(LCD)
700x640x900mm	420 ltrs	15 Cuft	4	CSI-HC-15(C)	CSI-HC-15(LCD)
700x640x970mm	450 ltrs	16 Cuft	4	CSI-HC-16(C)	CSI-HC-16(LCD)



Carbon Di-Oxide Incubator Deluxe Model

CSI - 119

MODEL	DIMENSIONS (WXDXH)	DISINFECTION	CAPACITY
CSI-CDI-151(UV)	530x470x607mm	UV LIGHT DISINFECTION	151 Ltrs

OPTIONS (FOR CSI-HC & CSI-CDI)

- Co2 cylinder (9 ltr cap) with regulator and pipe fitting.
- Automatic Voltage Stabilizer to cost extra.
- Servo Voltage Stabilizer to cost extra.



Plant Growth Chamber

CSI - 120

Outer Chamber made of CRC Sheet duly powder coated and inner chamber and trays made of Stainless Steel (SS-304). Temperature range from 10°C to 60°C ±1°C and humidity range is from 5% above ambient from 40% to 95% RH at cool temperatures, controlled through a DIGITAL HUMIDITY INDICATOR -CUM- CONTROLLER. Fitted with exterior illumination with fluorescent tubes / lamps.

INNER DIMENSIONS (WXDXH)	CAPACITY	T VOLUME	NO. OF SHELVES	WITH MICROPROCESSOR DIGITAL CONTROLLER WITH LED DISPLAY	WITH 16X2 LINE ALPHANUMERIC LCD CONTROLLER HAVING HI/ LOW TEMP. AND SENSER FAILURE ALARM
				MODEL	MODEL
455x410x610mm	112 ltrs	4 Cuft	2	CSI-HC-4	CSI-HC-4(LCD)
505x415x830mm	171 ltrs	6.1 Cuft	2	CSI-HC-6	CSI-HC-6(LCD)
570x550x875mm	280 ltrs	10 Cuft	3	CSI-HC-10	CSI-HC-10(LCD)
650x580x900mm	340 ltrs	12 Cuft	3	CSI-HC-12	CSI-HC-12(LCD)
700x640x900mm	420 ltrs	15 Cuft	4	CSI-HC-15	CSI-HC-15(LCD)
700x640x970mm	450 ltrs	16 Cuft	4	CSI-HC-16	CSI-HC-16(LCD)
700x700x1100mm	560 ltrs	20 Cuft	4	CSI-EC-20	CSI-EC-20(LCD)
825x825x1200mm	840 ltrs	30 Cuft	4	CSI-EC-30	CSI-EC-30(LCD)

OPTIONS

- Fitted with Microprocessor based TEMPERATURE -HUMIDITY CONTROLLER with 16x2 line alphanumeric backlit LCD display in lieu of standard controller.
- Communication Port with interface and data cable to download data to your PC.
- Automatic Voltage Stabilizer to cost extra.
- Servo Voltage Stabilizer to cost extra.



Dehumidifier

MODEL	HUMIDITY CONTROL	WITHOUT VOLTAGE STABILIZER & WITH VOLTAGE STABILIZER
CSI-DH-15(A)	Analog Humidistat	
CSI-DH-15(D)	Digital Control	



CSI - 121

Orbital Shaking Incubator Cum-B.O.D- Incubator

Double Walled with outer wall made of CRC sheet duly powder coated and inner wall made of Stainless Steel. Temperature range from 5°C to 60°C to $\pm 0.5^\circ\text{C}$ is controlled through a Microprocessor Based Digital Temperature Indicator Cum Controller. Orbital Shaker System fitted at base with shaking platform of size (510 x 510 mm), can accommodate different capacities of flasks (user defined) with universal Lotus Clamps made of Stainless Steel, Unit is fitted with interior illumination arrangement, programmable timer and digital RPM / Speed meter.

WITH MICROPROCESSOR DIGITAL CONTROLLER WITH LED DISPLAY
WITH 16x2 CONTROLLER HAVING HI / LOW TEMP. AND SENSER FAILURE ALARM

MODEL	INNER DIMENSIONS SIZE (WXDXH) IN MM	VOLUME	PRM RANGE
CSI-OSC-250	660 x 660 x 690mm	10.0 Cuft	Upto 250rpm

OPTIONS

- Chamber sterilization through a U.V. germicidal tube.
- Spare Lotus clamps made of S.S.

CAPACITY	100ML	150ML	250ML	500ML	1000ML

- Stationary perforated shelf made of Stainless Steel (SS-304 grade)(Set of 2 trays) to cost extra.
- Communication Port with interface and data cable to download data to your PC.
- Automatic Voltage Stabilizer to cost extra.
- Servo Voltage Stabilizer to cost extra.



CSI - 122

Refrigerated Circulating Liquid Bath

Outer Chamber made of CRCA sheet duly powder coated and inner chamber made of Stainless Steel (SS-304) grade. Fitted with Circulating Pump to circulate liquid / water to an external source, in closed loop conditions. Most suitable model facilitating the user as it eliminates the use of separate heating bath and a separate chiller. (Can work at both below ambient and above ambient temperatures. Fitted with Microprocessor Based Digital Temperature Indicator-Cum-Controller. To work on 220 /230 Volts AC.

MODEL	TEMP. RANGE	CAPACITY	HEATER LOAD
CSI-HCCB-MINI	0°C to +100°C	4/6/8/13 Ltrs	500 Watts
CSI-HCCB-23	0°C to +100°C	23 Ltrs	1.0 KW
CSI-HCCB-23LT	-10°C to +120°C	23 Ltrs	1.0 KW
CSI-HCCB-23UL	-20°C to +120°C	23 Ltrs	1.0 KW
CSI-HCCB-33	0°C to +100°C	33 Ltrs	1.5 KW

OPTIONS

- Automatic Voltage Stabilizer to cost extra.
- Servo Voltage Stabilizer to cost extra.



CSI - 123

Constant Temperature Refrigerated Water Bath

Outer Body made of PCRC Sheet duly powder coated and inner chamber is made of Stainless Steel (SS-304 grade). Temperature range from 5°C to 90°C is controlled through a MICROPROCESSOR BASED DIGITAL TEMPERATURE INDICATOR-CUM-CONTROLLER with an accuracy of $\pm 0.2^\circ\text{C}$. A high speed stirrer with speed regulator is fitted to maintain temperature uniformity.

MODEL	CAPACITY	INNERCHAMBER SIZE (mm)	TEMPERATURE CONTROLE	TEMPERATURE RANGE	TEMPERATURE ACCURACY
CSI-RWB-33	33 Ltrs	500x250x250	Microprocessor Based Digital Temp. Indicator cum - Controller	5°C to 90°C	$\pm 0.2^\circ\text{C}$

OPTION

- FHP pump for circulating the liquid to an external source (in Lieu of Stirring Arrangement).



CSI - 124

Chiller Circulator

CSI - 125

Outer Chamber made of CRCA sheet duly powder coated and inner chamber made of Stainless Steel (SS-304) grade. Fitted with Circulating Pump to circulate liquid / water to an external source, in closed loop conditions. Fitted with Microprocessor Based Digital Temperature Indicator-Cum-Controller. To work on 220 /230 Volts AC Supply.

MODEL	TEMP. RANGE	CAPACITY
CSI-CCB-MINI	Ambient to 0°C	4/6/8/13 Ltrs
CSI-CCB-13	Ambient to 0°C	13 Ltrs
CSI-CCB-13LT	Ambient to -10°C	13 Ltrs
CSI-CCB-13UL	Ambient to -20°C	13 Ltrs
CSI-CCB-13 (CRYO)	Ambient to -30°C	13 Ltrs
CSI-CCB-23	Ambient to 0°C	23 Ltrs
CSI-CCB-23LT	Ambient to -10°C	23 Ltrs
CSI-CCB-23UL	Ambient to -20°C	23 Ltrs

OPTIONS

- a) Automatic Voltage Stabilizer to cost extra.
- b) Servo Voltage Stabilizer to cost extra.



CSI - 126

Deep Freezer Vertical

Outer wall made of CRC Sheet duly powder coated and inner chamber made of Stainless Steel (SS-304 Grade). Space between inner chamber and outer wall filled with foamed in place PUF insulation. Temperature Range from ambient to (-)20°C or (-)30°C or (-)40°C is controlled through a Microprocessor based Digital Temperature Indicator-cum-Controller.

VOLUME	CAPACITY	TEMP. RANGE	TEMP. RANGE	TEMP. RANGE
		UPTO -20°C	UPTO -30°C	UPTO -40°C
		MODEL	MODEL	MODEL
4 Cuft	112 Ltrs	CSI-VDF-4	CSI-VDF-4M	CSI-VDF-4L
6 Cuft	171 Ltrs	CSI-VDF-6	CSI-VDF-6M	CSI-VDF-6L
10 Cuft	280 Ltrs	CSI-VDF-10	CSI-VDF-10M	CSI-VDF-10L
12 Cuft	340 Ltrs	CSI-VDF-12	CSI-VDF-12M	CSI-VDF-12L
15 Cuft	420 Ltrs	CSI-VDF-15	CSI-VDF-15M	CSI-VDF-15L
16 Cuft	450 Ltrs	CSI-VDF-16	CSI-VDF-16M	CSI-VDF-16L
18 Cuft	500 Ltrs	CSI-VDF-18	CSI-VDF-18M	CSI-VDF-18L
20 Cuft	560 Ltrs	CSI-VDF-20	CSI-VDF-20M	CSI-VDF-20L
23 Cuft	650 Ltrs	CSI-VDF-23	CSI-VDF-23M	CSI-VDF-23L
25 Cuft	700 Ltrs	CSI-VDF-25	CSI-VDF-25M	CSI-VDF-25L
30 Cuft	840 Ltrs	CSI-VDF-30	CSI-VDF-30M	CSI-VDF-30L
36 Cuft	1000 Ltrs	CSI-VDF-36	--	--
50 Cuft	1410 Ltrs	CSI-VDF-50	--	--



CSI - 127

Deep Freezer Horizontal

Outer wall made of CRC Sheet duly powder coated and inner chamber Stainless Steel (SS-304 Grade). Space between inner chamber and outer wall filled with foamed in place PUF insulation. Temperature Range from ambient to (-)20°C or (-)30°C or (-)40°C is controlled through a Microprocessor based Digital Temperature Indicator-cum-Controller.

VOLUME	CAPACITY	TEMP. RANGE	TEMP. RANGE	TEMP. RANGE
		UPTO -20°C	UPTO -30°C	UPTO -40°C
		MODEL	MODEL	MODEL
4 Cuft	112 Ltrs	CSI-HDF-4	CSI-HDF-4M	CSI-HDF-4L
6 Cuft	171 Ltrs	CSI-HDF-6	CSI-HDF-6M	CSI-HDF-6L
10 Cuft	280 Ltrs	CSI-HDF-10	CSI-HDF-10M	CSI-HDF-10L
12 Cuft	340 Ltrs	CSI-HDF-12	CSI-HDF-12M	CSI-HDF-12L
15 Cuft	420 Ltrs	CSI-HDF-15	CSI-HDF-15M	CSI-HDF-15L
16 Cuft	450 Ltrs	CSI-HDF-16	CSI-HDF-16M	CSI-HDF-16L
18 Cuft	500 Ltrs	CSI-HDF-18	CSI-HDF-18M	CSI-HDF-18L
20 Cuft	560 Ltrs	CSI-HDF-20	CSI-HDF-20M	CSI-HDF-20L
23 Cuft	650 Ltrs	CSI-HDF-23	CSI-HDF-23M	CSI-HDF-23L
25 Cuft	700 Ltrs	CSI-HDF-25	CSI-HDF-25M	CSI-HDF-25L
30 Cuft	840 Ltrs	CSI-HDF-30	CSI-HDF-30M	CSI-HDF-30L
36 Cuft	1000 Ltrs	CSI-HDF-36	--	--
50 Cuft	1410 Ltrs	CSI-HDF-50	--	--



Deep Freezer (With Glycol Gel Filled Packs)

CSI - 128

These are extremely light weight Chest - Type Models with fast temperature pull down and long holdover time as key feature. Temperature range from -16°C to -24°C is set through an adjustable thermostat. Microprocessor Based Digital Temperature Indicator-Cum-Controller with low and high alarm (Option) can be fitted at extra cost. Supplied with one basket for effective loading of storage material. Low power consumptions saves on the electricity bills and running cost. Supplied complete with 13 Nos. Glycol Packs (1.5 kg/unit). To work on 220 Volts AC Supply.

MODEL	CAPACITY	VOLUME	HOLD OVER TIME
CSI-GGF-150	150 Ltrs	5.3 Cuft	8-12 Hrs

OPTIONS

- a) Microprocessor controller with door open alarm, power failure alarm and temperature deviation, in lieu of standard temperature controller
- b) Automatic Voltage Stabilizer to cost extra.
- c) Servo Voltage Stabilizer to cost extra.



Deep Freezer (Battery Operated)

CSI - 129

Horizontal Chest Type mounting, the system has dual temperature range and has a universal use as a refrigerator or as a freezer (up to -20°C). Runs on dual energy i.e. 220 Volts AC Supply or on battery, in case of power cut (Automatic Switch AC/DC). Temperature is set through an adjustable thermostat. Microprocessor Based Digital Temperature Indicator-Cum-Controller (Option) can be fitted with low and high alarm at extra cost. Battery (Option) to user's scope but if required can be supplied at extra cost. Solar Panel (Option) to charge battery (option available for remote areas like farms etc. with no / poor electricity supply) is also available at extra cost.

MODEL	CAPACITY	VOLUME	HOLD OVER TIME
CSI-GGF-100	100 Ltrs	3.5 Cuft	2

OPTIONS

- a) Microprocessor controller with power failure alarm and temperature deviation, in lieu of standard temperature controller.
- b) Solar Panel to charge battery to cost extra.
- c) Automatic Voltage Stabilizer to cost extra.
- d) Servo Voltage Stabilizer to cost extra.
- e) Battery to cost extra.



Ultra Low Temperature Bio-Freezer

CSI - 130

Outer body made of PCRC Sheet duly powder coated / Stainless Steel (SS-304 Grade). Inner Chamber and trays made of Stainless Steel (SS-304 Grade). Temperature range from -10°C to -86°C is controlled through a Microprocessor Based Digital Temperature Indicator-Cum-Controller. Advanced refrigeration system consisting of two compressors (Cascading Technique) are ECO-FRIENDLY COMPRESSORS with CFC-Free refrigerants. Extra thick high density foamed in-place PUF insulation minimises cooling losses. Available in Vertical / Chest Type Models. Audio Visual Alarm for temperature deviation, door open, temperature deviation and sensor breakage are available as standard feature. Provided with electronic keyboard password and protection lock.

CAPACITY	VOLUME	TEMP. RANGE UPTO -40 °C	TEMP. RANGE UPTO -86 °C
		MODEL	MODEL
72 Ltrs	2.5 Cuft	CSI-VDF-2.5(ULT)	CSI-HDF-2.5(ULT)
112 Ltrs	4 Cuft	CSI-VDF-4(ULT)	CSI-HDF-4(ULT)
171 Ltrs	6 Cuft	CSI-VDF-6(ULT)	CSI-HDF-6(ULT)
280 Ltrs	10 Cuft	CSI-VDF-10(ULT)	CSI-HDF-10(ULT)
340 Ltrs	12 Cuft	CSI-VDF-12(ULT)	CSI-HDF-12(ULT)
420 Ltrs	15 Cuft	CSI-VDF-15(ULT)	CSI-HDF-15(ULT)
538 Ltrs	19 Cuft	CSI-VDF-19(ULT)	--
668 Ltrs	24 Cuft	CSI-VDF-24(ULT)	--
768 Ltrs	27 Cuft	CSI-VDF-27(ULT)	--
828 Ltrs	30 Cuft	CSI-VDF-30(ULT)	--

OPTIONS

- a) Power failure alarm to cost extra.
- b) Power back (for indication of temperature).
- c) Automatic Voltage Stabilizer to cost extra.
- d) Servo Voltage Stabilizer to cost extra.
- e) Communication Port with Software to cost extra.
- f) Circular Chart Recorder to cost extra.



Chest / Vertical Freezer - Low Cost

CSI - 131

Outer body made of Steel Sheet duly powder coated / moulded / SS / and inner liner plastic moulded / stucco finish/ SS. Available in both Vertical / Chest Type Models. Foamed in-place PUF insulation for minimal thermal losses. Temperature range -16°C to -20°C is set through an adjustable thermostat. Microprocessor Based Digital Temperature Indicator-Cum-Controller with low and high alarm (Option) can be fitted at extra cost to set temperature range upto -20°C. To work on 22 Volts AC Supply.

VERTICAL MODEL

MODEL	CAPACITY	VOLUME	MOC INNER CHAMBER	MOC OUTER CHAMBER	Type of Door	NO. OF SHELVES
CSI-LCF-135V	135 ltrs	4.8Cuft	Moulded	Steel	Solid	3 DRAWERS
CSI-LCF-245V	245 ltrs	8.8Cuft	Moulded	Steel	Solid	6 DRAWERS
CSI-LCF-340V	340 ltrs	12.0Cuft	Moulded	Steel	Solid	2 +5 DRAWERS
CSI-LCF-340(FF)V	340 ltrs	12.0Cuft	Moulded	Steel	Solid	2 +5 DRAWERS
CSI-LCF-370V	370 ltrs	13.2Cuft	Moulded	Steel	Glass	6 + 1 SHELVES
CSI-VF-650(XL)	650 ltrs	23.0Cuft	Stainless Steel	Stainless Steel	S.S (2 Doors)	3 + 1 SHELVES
CSI-VF-14.1(XL)	1410 ltrs	50.0Cuft	Stainless Steel	Stainless Steel	S.S (4 Doors)	6 +2 SHELVES

HORIZONTAL MODEL

MODEL	CAPACITY	VOLUME	MOC INNER CHAMBER	MOC OUTER CHAMBER
CSI-LCF-100C	100 ltrs	3.5Cuft	Stucco Finish	Moulded
CSI-LCF-200C	200 ltrs	7.0Cuft	Stucco Finish	Moulded
CSI-LCF-300C	300 ltrs	10.5Cuft	Stucco Finish	Moulded
CSI-LCF-450C	450 ltrs	14.0Cuft	Stucco Finish	Moulded
CSI-LCF-550C	550 ltrs	17.5Cuft	Stucco Finish	Moulded
CSI-LCF-750C	750 ltrs	26.0Cuft	Stucco Finish	Moulded



OPTIONS

- a) Microprocessor controller with door open alarm, power failure alarm and temperature deviation, in lieu of standard temperature controller.
- b) Automatic Voltage Stabilizer to cost extra.
- c) Servo Voltage Stabilizer to cost extra.

Ultra Low Temperature Deep Freezer -86 °C

CSI - 132

MODEL	CAPACITY	VOLUME	INTERIOR DIMENSIONS	CAN ACCOMODATE NO. OF RACKS	CAN ACCOMODATE NO. OF RACKS
CSI-ULTF-218	218 ltrs	6 Cuft	470 x 582 x 753	6	120
CSI-ULTF-328	328ltrs	11 Cuft	580 x 450 x 1200	9	240
CSI-ULTF-388	388ltrs	15 Cuft	740 x 450 x 1200	12	240
CSI-ULTF-538	538ltrs	19 Cuft	600 x 662 x 1300	16	320
CSI-ULTF-668	668ltrs	24 Cuft	815 x 667 x 1200	20	400
CSI-ULTF-768	768ltrs	27Cuft	930 x 665 x 1200	24	480
CSI-ULTF-828	828ltrs	29 Cuft	930 x 710 x 1308	24	720

OPTIONS

- a) Storage Racks (Price of each rack).
- b) Storage Boxes (Price of each box).
- c) Co2 Back Up System.
- d) LN₂ Back Up System.
- e) Co2 Cylinder (9 Ltr Cap) with regulator and pipe fitting.



Ice Flaking Machine (Heavy Duty Continuous Rating)

CSI - 133

Mounted on a heavy angle iron frame , outer wall and inner chamber is made up of stainless steel (SS-304 Grade). The crushing assembly consists of heavy machined and concealed jacket made of Stainless Steel which runs a heavy extruded worm gear run through a heavy duty pressure die-casted GEAR ASSEMBLY fitted with a heavy duty motor. Motor is run through a SOLID STATE ELECTRONIC FREQUENCY DRIVE. Auto Cut-Off System when the collection bin is full. Crusher assembly is fitted with in-built water collection tank fitted with a float valve for regulating water supply. To work on 220/230 Volts AC Supply.

MODEL	CAPACITY	STORAGE BIN TANK CAPACITY
CSI-IFM-35	35kgs/24hrs	20 ltrs
CSI-IFM-50	50kgs/24hrs	30 ltrs
CSI-IFM-70	70kgs/24hrs	35 ltrs
CSI-IFM-100	100kgs/24hrs	50 ltrs
CSI-IFM-120	120kgs/24hrs	50 ltrs



Ice Flaking Machine (Light Weight)

A light weight and air cooled model with a good hold over time has stainless steel cabinet for food safety. Low electrical power consumption is an added advantage. Rated capacity of 80 kgs/24 hrs. To work on 220 Volts AC Supply.



CSI - 134

MODEL	CAPACITY	STORAGE BIN	TANK CAPACITY
CSI-IFM-80(LC)	80kgs/24hrs		11 Kgs

Lyophilizer (Freeze Dryer)

WITH VACUUM PUMP

MODEL	NO. OF SAMPLES	CAPACITY
CSI-FD-6	6	3.25 Ltrs
CSI-FD-12	12	5.25 Ltrs

OPTIONS

- Secondary Drying Unit.
- Pre- Freezing Attachment.
- Heat rack with 2/3 individually heated rack for accelerated freeze drying of small samples in bulk.
- Automatic voltage stabilizer to cost extra.



CSI - 135

Laboratory Pharmacy / Medical Refrigerator General Purpose

Outer Chamber made of CRC Sheet duly powder coated and inner chamber and trays made of Stainless Steel (SS-304). Fitted with Microprocessor Based Digital Temperature Indicator-Cum-Controller having temperature range from 2°C to 15°C (arrangement available to pull down temperature) gap between inner and outer chamber filled with foamed in-place PUF insulation. To work on 220 V A/C supply.

MODEL	DIMENSIONS (WXDXH) IN MM	CAPACITY	VOLUME	NO. OF SHELVES
CSI-LR-4	455 x 410 x 610 mm	112 Ltrs	4 Cuft	3
CSI-LR-6	505 x 415 x 830 mm	171 Ltrs	6 Cuft	3
CSI-LR-10	570 x 550 x 875 mm	280 Ltrs	10 Cuft	3
CSI-LR-12	650 x 580 x 900 mm	340 Ltrs	12 Cuft	4
CSI-LR-15	700 x 640 x 900 mm	420 Ltrs	15 Cuft	4
CSI-LR-16	700 x 640 x 970 mm	450 Ltrs	16 Cuft	4

OPTIONS

- Microprocessor controller with door open alarm, power failure alarm and temperature deviation. in lieu of standard temperature controller.
- Weekly Chart Recorder to cost extra.
- Automatic Voltage Stabilizer to cost extra.
- Servo Voltage Stabilizer to cost extra.



CSI - 136

Laboratory Refrigerator - Low Cost

Outer body made of Steel Sheet duly powder coated / moulded / SS / and inner liner plastic moulded / stucco finish/ SS. Foamed in-place PUF insulation for minimal thermal losses. Temperature range 2°C to 8°C is set through an adjustable thermostat. Microprocessor Based Digital Temperature Indicator-Cum-Controller with low and high alarm (Option) can be fitted with low and high alarm at extra cost . To work on 22 Volts AC Supply.

MODEL	CAPACITY	VOLUME	MOC INNER CHAMBER	MOC OUTER CHAMBER	Type of Door	NO. OF SHELVES
CSI-LRGD-150	150 ltrs	5.3 Cuft	Moulded	Steel	Glass	3
CSI-LRGD-200	200ltrs	7.1 Cuft	Moulded	Steel	Glass	3
CSI-LRGD-300	300ltrs	10.7 Cuft	Moulded	Steel	Glass	4
CSI-LRGD-400	400ltrs	14.2 Cuft	Moulded	Steel	Glass	4
CSI-LRGD-1100	1100ltrs	39.0 Cuft	Moulded	Steel	Glass (2 Side by Side Doors)	5
CSI-LRSD-650 (XL)	650ltrs	23.0 Cuft	Stainless Steel	Stainless Steel	S.S (2 Doors)	3 + 1
CSI-LRSD-14.1 (XL)	1410ltrs	50.0 Cuft	Stainless Steel	Stainless Steel	S.S (4 Doors)	6 +2

OPTIONS

- Microprocessor controller with door open alarm, power failure alarm and temperature deviation. in lieu of standard temperature controller.
- Automatic Voltage Stabilizer to cost extra.
- Servo Voltage Stabilizer to cost extra.



CSI - 137

Combi Freezer & Refrigerator

CSI - 138

Outer & Inner body & inner shelves made of Stainless Steel. Foamed in-place PUF insulation for minimal thermal losses. Temperature range -16°C to -20°C is set for freezer and -20°C to 8°C is set for refrigerator through an adjustable thermostat. Microprocessor Based Digital Temperature Indicator-Cum-Controller with low and high alarm (Option) can be fitted with low and high alarm at extra cost. To work on 22 Volts AC Supply.

MODEL	CAPACITY	VOLUME	MOC INNER CHAMBER	MOC OUTER CHAMBER	Type of Door	NO. OF SHELVES	NO. OF SHELVES
CSI-RF-680	340+340 ltrs	12.0+12.0 Cuft	Stainless Steel	Stainless Steel	Solid	2	3+1
CSI-RF-1200	600+600 ltrs	21.4+21.4 Cuft	Stainless Steel	Stainless Steel	Solid	2	6+2



OPTIONS

- Microprocessor controller with door open alarm, power failure alarm and temperature deviation, in lieu of standard temperature controller (for both chambers).
- Automatic Voltage Stabilizer to cost extra.
- Servo Voltage Stabilizer to cost extra.

Blood Bank Refrigerator (Low Cost Economy Model)

CSI - 139

Outer Body made of PCRC sheet duly powder coated and inner wall and trays made of Stainless Steel (SS-304 Grade). A pre-set temperature range of 4°C is controlled through a Digital Temperature Indicator-Cum-Controller. Complete with door operated, temperature deviation and system failure alarm. To work on 220/230 Volts AC Supply.

MODEL	CAPACITY	BLOOD BAG ACCOMODATION (OF 350ML CAP.)
CSI-BBR-2	40 Ltrs	24 Bags
CSI-BBR-4	112 Ltrs	60 Bags
CSI-BBR-6	171 Ltrs	110 Bags
CSI-BBR-8	220 Ltrs	200 Bags
CSI-BBR-10	280 Ltrs	250 Bags
CSI-BBR-15	420 Ltrs	360 Bags



OPTIONS

Please Refer CSI-RF

Blood Bank Refrigerator (Deluxe Model)

CSI - 140

Outer body made of Stainless Steel (SS-430 grade) and inner wall and trays made of Stainless Steel (SS-304 grade). Fitted with MICROPROCESSOR BASED INTEGRATED CONTROLLER with ALPHANUMERIC LCD DISPLAY and menu driven membrane keypad to control temperature at 4°C ±1°C. Controlled has all advance features such as door operated alarm, temperature deviation alarm, system failure alarm and power failure alarm. System is designed to meet WHO GUIDELINES vis-à-vis, type of pull out drawers, size of drawers, distance between each drawer (To maintain temp. UNIFORMITY), hold over time in case of power failure, NON-CFC refrigerants, PUF insulated layer etc. To work on 220/430 Volts AC Supply.

MODEL	CAPACITY	TANK SIZE (WXDXH)	BODY SIZE (WXDXH)	TRAY SIZE (WXDXH)	BLOOD BAG ACCOMODATION (OF 350ml CAP.)	NO. OF DRAWERS
CSI-BBR-120(LCD)	265 Ltrs.	24"x28"x24"	29"x37.4"x46"	20"x27"x4"	120 Bags	2
CSI-BBR-180(LCD)	350 Ltrs.	24"x28"x32"	29"x37.4"x54"	20"x27"x4"	180 Bags	3
CSI-BBR-240(LCD)	440 Ltrs.	24"x28"x40"	29"x37.4"x64"	20"x27"x4"	240 Bags	4
CSI-BBR-300(LCD)	530 Ltrs.	24"x28"x48"	29"x37.4"x72"	20"x27"x4"	300 Bags	5
CSI-BBR-360(LCD)	618 Ltrs.	24"x28"x56"	29"x37.4"x80"	20"x27"x4"	360 Bags	6
CSI-BBR-432(LCD)	720 Ltrs.	24"x28"x56"	29"x37.4"x80"	24"x27"x4"	432 Bags	6



OPTIONS

- RS-232 Communication port with US FDA21 CFR-11 compliance windows based communication software for data management and logging.
- Stand-by ready to use refrigeration system in case regular system fails, with auto changeover switch.
- Battery back-up (20-30 minutes) in case power fails, for digital temperature display only.
- Automatic Voltage Stabilizer to cost extra.
- Servo Voltage Stabilizer to cost extra.

Mortuary Chamber/Freezer

With : (TEMP. -2 °C to 5 °C) & (TEMP. -15 °C to 20 °C)

MODEL	CAPACITY
CSI-MC-1	Single Body
CSI-MC-2	Two Bodies
CSI-MC-3	Three Bodies
CSI-MC-4	Four Bodies
CSI-MC-6	Six Bodies

OPTIONS

- Treatment / Deodourizing arrangement for foul odour for any of the above systems to cost extra.
- Automatic Voltage Stabilizer to cost extra.

Plasma Freezer Vertical

MODEL	CAPACITY	INTERNAL DIA. (WxDxH)(mm)	NO. OF BAGS	INPUT VOLTAGE	TEMP. RANGE
CSI-VPF-4	112 Ltrs.	455x410x610	75	230 V AC	-35 °C
CSI-VPF-6	171 Ltrs.	505x415x830	135	230 V AC	-35 °C
CSI-VPF-10	280 Ltrs.	570x550x875	245	230 V AC	-35 °C
CSI-VPF-12	340 Ltrs.	650x580x900	300	230 V AC	-35 °C
CSI-VPF-15	420 Ltrs.	700x640x900	400	230 V AC	-35 °C

OPTIONS

- Microprocessor controller with door open alarm, power failure alarm and temperature deviation, in lieu of standard temperature controller.
- Automatic Voltage Stabilizer.
- Servo Voltage Stabilizer to cost extra.

Platelet Incubator

Specially designed to accommodate Platelet Agitator Model for PLAT-48

MODEL	VOLUME	CAPACITY	TEMPERATURE (PRESET)	INPUT POWER
CSI-PLAT-150	5.5 Cuft	150 Ltrs	22 °C ±1C	230V AC

OPTION

- Microprocessor Based Digital Temperature -cum-Controller having auto stop feature with audio visual alarm for power failure & temperature variation beyond ±2 °C.

Platelet Agitator

Specially designed for use in Platelet Incubator Model for PLAT-150

MODEL	NO. OF BAGS	STROKES	AMPLITUDE	ELECTRIC SUPPLY
CSI-PLAT-32	32	70 to 80 Strokes/Min	38±2mm	220-240 Volts 50Hz, Single Phase

U.V Sterilizing Chamber

MODEL	NO. OF TRAYS	SIZE OF EACH TRAY (WDXH) MM
CSI-UVSC-12	12	265 x 190 x 12

Glass Bead Sterilizer

MODEL	CONTROL	CRUCIBLE SIZE
CSI-GBS-26	Thermostatic Controller	50mmx150mm
CSI-GBS-26(D)	Micropocessor Based Digital Controller	50mmx150mm

Transportable Clean Air Transfer Trolley

To transport small sterile / clean materials under sterile conditions, from one place to another. Fitted with HEPA filter with cleanliness level ISO Class 5 equivalent to US FED STD 209 E ,Class-100. Fitted with motor blower assembly and caster wheels for easy mobility. To work on 220/230 volts AC supply. Volume of chamber 28 ltrs.



CSI - 141



CSI - 142



CSI - 143



CSI - 144



CSI - 145



CSI - 146



CSI - 147



Horizontal Laminar Flow Cabinet

CSI - 148

Complete self standing unit supplied with Stainless Steel (SS-304 grade) working bench/tables, transparent plexi-glass front door, static pressure manometer, U.V. germicidal tube and one cock for gas, air or vacuum line, Fitted with pre-filter and HEPA FILTER confirming to ISO (CLASS-5) equivalent to U.S. FEDERAL CLASS-100. Body made of WOODEN, COLD ROLLED STEEL (POWDER COATED) OR STAINLESS STEEL (SS-304) as ordered. All systems are mounted on mild steel tubular stand duly powder coated fitted with castors for easy movement. Fitted with Pre-Filter and HEPA Filter (ULPA filter in lieu of HEPA Filter available at extra cost).

(MOC WOODEN)

MODEL	INTERNAL WORK SIZE DIMENSION (LXWXH) (MM)
CSI-LH-22(H)	600 x 600 x 600
CSI-LH-32(H)	900 x 600 x 600
CSI-LH-42(H)	1200 x 600 x 600
CSI-LH-62(H)	1800 x 600 x 600
CSI-LH-82(H)	2400 x 600 x 600



OPTIONS

a) ULPA Filter in lieu of HEPA filter to cost extra.

MODEL	CSI-LH-22(H)	CSI-LH-32(H)	CSI-LH-42(H)	CSI-LH-62(H)	CSI-LH-82(H)

b) Front door made of transparent POLYCARBONATE SHEET in lieu of plexi glass to cost extra.

MODEL	CSI-LH-22(H)	CSI-LH-32(H)	CSI-LH-42(H)	CSI-LH-62(H)	CSI-LH-82(H)

- c) Magnehelic Gauge (To track filter pressure) in lieu of static pressure manometer.
- d) Electronic Filter choke alarm. (Differential pressure monitor)
- e) Interlocking of U.V. Germicidal Tube & fluorescent light with auto switch off/on mode for blower when the door is closed/open.
- f) Microprocessor LCD Controller with Auto Switch of fmode for motor blower when door is closed. Digital buzzer timer sounds an audio alarm in completion of sterilizing time of the chamber and the switches of ffU.V. germicidal tune and automatically switches ON the fluorescent light, alerting the user that the bench is ready for use.
- g) Hour Meter totalizer for U.V. light.
- h) Outer body made of cold rolled steel
- i) Outer body made of stainless steel

Vertical Laminar Air Flow Cabinet

CSI - 149

(Complete self standing unit supplied with Stainless Steel (SS-304 grade) working bench/tables, transparent plexi-glass front door, static pressure manometer, U.V. germicidal tube and one cock for gas, air or vacuum line, Fitted with pre-filter and HEPA FILTER confirming to ISO (CLASS-5) equivalent, to U.S. FEDERAL CLASS-100, Body made of WOODEN, COLD ROLLED STEEL (POWDER COATED) OR STAINLESS STEEL (SS-304) as ordered. All systems are mounted on mild steel tubular stand duly powder coated fitted with castors for easy movement. Fitted with Pre-Filter and HEPA Filter (ULPA filter in lieu of HEPA Filter available at extra cost)

MODEL	INTERNAL WORK SIZE DIMENSION (LXWXH) (MM)
CSI-LH-22(V)	600 x 600 x 600
CSI-LH-32(V)	900 x 600 x 600
CSI-LH-42(V)	1200 x 600 x 600
CSI-LH-62(V)	1800 x 600 x 600
CSI-LH-82(V)	2400 x 600 x 600



OPTIONS

a) ULPA Filter in lieu of HEPA filter to cost extra.

MODEL	CSI-LH-22(V)	CSI-LH-32(V)	CSI-LH-42(V)	CSI-LH-62(V)	CSI-LH-82(V)

b) Front door made of transparent POLYCARBONATE SHEET in lieu of plexi glass to cost extra.

MODEL	CSI-LH-22(V)	CSI-LH-32(V)	CSI-LH-42(V)	CSI-LH-62(V)	CSI-LH-82(V)

- c) Magnehelic Gauge (To track filter pressure) in lieu of static pressure manometer.
- d) Electronic Filter choke alarm. (Differential pressure monitor)
- e) Interlocking of U.V. Germicidal Tube & fluorescent light with auto switch off/on mode for blower when the door is closed/open.
- f) Microprocessor LCD Controller with Auto Switch of fmode for motor blower when door is closed. Digital buzzer timer sounds an audio alarm in completion of sterilizing time of the chamber and the switches of ffU.V. germicidal tune and automatically switches ON the fluorescent light, alerting the user that the bench is ready for use.
- g) Hour Meter totalizer for U.V. light.
- h) Sliding door (Manually Operated).
- i) Sliding door (Motorized).
- j) Outer body made of cold rolled steel
- k) Outer body made of stainless steel

Vertical Laminar Air Flow Cabinet (Total Exhaust Model)

CSI - 150

Detail same as CSI-149, but with Special Exhaust arrangement for Near 100% exhaust of air(as per CLASS-II). Fitted with Pre-Filter and HEPA Filter(ULPA filter in lieu of HEPA Filter available at extra cost)



MODEL	INTERNAL WORK SIZE DIMENSION (LXWXH) (MM)
CSI- LV-22(TX)	600 x 600 x 600
CSI- LV-32(TX)	900 x 600 x 600
CSI- LV-42(TX)	1200 x 600 x 600
CSI- LV-62(TX)	1800 x 600 x 600
CSI- LV-82(TX)	2400 x 600 x 600

OPTIONS

a) ULPA Filter in lieu of HEPA filter to cost extra

MODEL	CSI-LH-22(TX)	CSI-LH-32(TX)	CSI-LH-42(TX)	CSI-LH-62(TX)	CSI-LH-82(TX)
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b) Front door made of transparent POLYCARBONATE SHEET in lieu of plexi glass to cost

MODEL	CSI-LH-22(TX)	CSI-LH-32(TX)	CSI-LH-42(TX)	CSI-LH-62(TX)	CSI-LH-82(TX)
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c) Magnehelic Gauge (To track filter pressure) in lieu of static pressure manometer.

d) Electronic Filter choke alarm. (Differential pressure monitor)

e) Interlocking of U.V. Germicidal Tube & fluorescent light with auto switch off/on mode for blower when the door is closed/open.

f) Microprocessor LCD Controller with Auto Switch off mode for motor blower when door is closed. Digital buzzer timer sounds an audio alarm in completion of sterilizing time of the chamber and the switches off U.V. germicidal tube and automatically switches ON the fluorescent light, alerting the user that the bench is ready for use.

g) Hour Meter totalizer for U.V. light.

h) Sliding door (Manually Operated)

i) Sliding door (Motorized)

j) Virus Burn out unit.

MODEL	CSI-LV-22(TX)	CSI-LV32(TX)	CSI-LV-42(TX)	CSI-LV-62(TX)	CSI-LV-82(TX)
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k) Exhaust ducting/per running feet.

MODEL	CSI-LV-22(TX)	CSI-LV32(TX)	CSI-LV-42(TX)	CSI-LV-62(TX)	CSI-LV-82(TX)
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l) HEPA filter at exhaust.

MODEL	CSI-LV-22(TX)	CSI-LV32(TX)	CSI-LV-42(TX)	CSI-LV-62(TX)	CSI-LV-82(TX)
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m) Outer body made of cold rolled steel

n) Outer body made of stainless steel

Biological Safety Cabinet (Class-II, Type-A2)

CSI - 151

Class II, Type A2 Biological Safety Cabinets offer personnel, product, and environmental protection to obtain optimum control over product quality while reducing the potential for exposure of both product and personnel to airborne biological or particulate chemical agents in low to moderate risk-hazard research and drug preparation or product operations,



MODEL	INTERNAL DIMENSIONS (WXDXH) MM
CSI-BSC-222(A2)	900 x 600 x 678
CSI-BSC-322(A2)	1200 x 600 x 678
CSI-BSC-422(A2)	1500 x 600 x 678
CSI-BSC-622(A2)	1780 x 600 x 678

OPTION

- a) ULPA Filter in lieu of HEPA filter to cost extra
- b) Front Door made of transparent POLYCARBONATE SHEET in lieu of plexi glass to cost extra.
- c) Magnehelic Pressure Differential Gauge (To track filter pressure in lieu of static pressure manometer)
- d) Electronic filter choke alarm (Differential Pressure Monitor)
- e) Interlocking of U.V. Germicidal tube & fluorescent light with auto switch off/on mode for motor blower when the door is closed/open.
- f) Microprocessor LCD Controller with Auto Switch off mode for motor blower when door is closed. Digital buzzer timer sounds an audio alarm on completion of sterilizing time of the chamber and switches off U.V. germicidal tube and automatically switches ON the fluorescent light, alerting the user that the bench is ready for use.
- g) Hour meter totalizer U.V. light.
- h) Gas Burner
- i) Exhaust ducting per running feet
- j) Virus Burn Out
- k) Heavy Duty exhaust system
- l) Outer body made of cold rolled steel
- m) Outer body made of stainless steel

Biological Safety Cabinet Total Exhaust Model (Class-II, Type-B2)

CSI - 152

MODEL	INTERNAL DIMENSIONS (WXDXH) MM
CSI-BSC-222(A2)	900 x 600 x 678
CSI-BSC-322(A2)	1200 x 600 x 678
CSI-BSC-422(A2)	1500 x 600 x 678
CSI-BSC-622(A2)	1780 x 600 x 678



OPTION

- a) ULPA Filter in lieu of HEPA filter to cost extra
- b) Front Door made of transparent POLYCARBONATE SHEET in lieu of plexi glass to cost extra.
- c) Magnehelic Pressure Differential Gauge (To track filter pressure in lieu of static pressure manometer)
- d) Electronic filter choke alarm (Differential Pressure Monitor)
- e) Interlocking of U.V. Germicidal tube & fluorescent light with auto switch off/on mode for motor blower when the door is closed/open.
- f) Microprocessor LCD Controller with Auto Switch off mode for motor blower when door is closed. Digital buzzer timer sounds an audio alarm on completion of sterilizing time of the chamber and switches off U.V. germicidal tube fluorescent light, alerting the user that the bench is ready for use.
- g) Hour meter totalizer U.V. light.
- h) Gas Burner
- i) Exhaust ducting per running feet
- j) Outer body made of cold rolled steel
- k) Outer body made of stainless steel

Biological Safety Cabinet - Class III

CSI - 153

MODEL	EXTERNAL SIZE (WXDXH)#MM	INTERNAL SIZE (WXDXH) MM	AIR SUPPLY FILTER	POWER SUPPLY
STERIMAX-BSC(III) (U)	1800x800x1260	1200x600x678	ULPA (Efficiency 99.9995% @0.12 microns to meet air quality ISO Class 4 equivalent to US FED STD 209 E, Class 10)	220 V / 50 Hz

OPTIONS

- a) Digital Downflow Velocity Indicator.
- b) Filter Life Indicator (Magnehelic Pressure Differential Gauge To track filter pressure in lieu of static pressure manometer).
- c) Electronic Filter Choke Alarm (Differential Pressure Monitor).
- d) Exhaust Connector with Motor/ Blower.
- e) Exhaust Tunnel / Duct (F=200mm)(Price per running feet).
- f) Hour Meter Totalizer for U.V Light.
- g) Virus Burn Out.
- h) HEPA filter at exhaust.
- l) Outer body made of cold rolled steel
- j) Outer body made of stainless steel



Air Shower (Class-100)

Air showers are a vital component in maintaining the cleanliness of cleanrooms and other clean-critical environments. Using high-velocity jets of air, air showers remove loose particles of contamination from people and products before they enter a cleanroom, reducing or eliminating product defects for increased yields

MODEL	CHAMBER SIZE (WXDXH)
CSI-AS-336	3'x3'x6'



CSI - 154

Fume Hood

A laboratory fume hood is a type of ventilation system that primarily functions to provide personnel protection against toxic fumes, vapors and dust. Its secondary function includes protection against chemical spills, runaway reactions and fires by acting.

MODEL	CSI-FH-3	CSI-FH-4	CSI-FH-5	CSI-FH-6
MOC	Wooden	Wooden	Wooden	Wooden
INTERNAL DIMENSION	900x600x600mm	1200x600x600mm	1800x600x600mm	1500x900x600mm
With: (ONLY WORKING TABLE OF S.S.) & (WORKING TABLE AND COMPLETE CHAMBER LINED WITH OF S.S.)				

OPTIONS

- Mounting base below work table with storage space and door.
- Lead lining on work area walls for use as radio- Isotope Fume Hood.
- Fume Duct per running feet.
- Complete exhaust arrangement with connector and fittings for remote mounting.
- Exterior made of wooden board with thick laminates
- Exterior made of CRCA Sheet duly powder coated



CSI - 155

Fume Hood - Dulex

MODEL	FHD-3	FHD-4	FHD-5
External Dimensions (WxDxH)mm	1200 x 900 x 2300	1500 x 900 x 2300	1800 x 900 x 2300
Internal Dimensions (WxDxH)mm	900 x 750 x 1200	1200 x 750 x 1200	1500 x 750 x 1200
With: (Exterior made of wooden board with thick laminate) & (Exterior of CRCA Sheet duly powder coated)			

OPTION

- Ducting per meter
- Nitrogen Valve with degree nozzle
- Vacuum Valve with degree nozzle
- Inner Chamber Lined with SS-304
- Inner Chamber Lined with SS-316
- Inner Chamber Lined with lead sheet (to work on radioisotopes)
- Inner Chamber Lined with U-PVC(Unplasticised) for use as a perchloric acid fume hood
- Apparatus Holding Grid
- Digital Air Flow Monitor (LCD Display) It is always preferred to work on a Stainless Steel Lined Interiors, instead of U-PVC liners, as U-PVC is sensitive to heat / heat generating reactions.
- Exterior made of wooden board with thick laminates
- Exterior made of CRCA Sheet duly powder coated

*(NOTE : U-PVC is heat sensitive material)



CSI - 156

Tissue Culture Rack

Made out of heavy duty mild steel square pipe duly powder coated. Each shelf is of size 48" x 18" and distance between each shelf is 16". Platform made out of 3mm thick hylem sheet. Each shelf is fitted with 4 nos of 40 watts fluorescent lights (with electronic ballast). Castor wheels provided for easy movement, Photoperiodic timer/controller output and U.V. germicidal tubes available optionally at an extra cost.

MODEL	NO. OF SHELVES	LIGHTING IN SHELVES
CSI-TCR-43	4	3
CSI-TCR-54	5	4
CSI-TCR-65	6	5

OPTIONS

- Photoperiodic timer/controller (microprocessor controlled) to control cyclic illuminations (one common timer for all shelves).
- Photoperiodic timer/controller (microprocessor controlled) to control cyclic illuminations (Individual timer for each shelf).

MODEL	CSI-TCR-43	CSI-TCR-54	CSI-TCR-65
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- U.V. Germicidal tube (one in each shelf).

i)	For Model CSI-TCR-43 (Total 3 U.V tubes)
ii)	For Model CSI-TCR-54 (Total 4 U.V tubes)
iii)	For Model CSI-TCR-65 (Total 5 U.V tubes)



CSI - 157

Air Curtain Walk Through Barrier

CSI - 158

Creates a barrier/curtain of high speed downflow air between a clean room and a unconditioned open room/area. Helps in energy savings of air conditioned room. Outer body made of heavy gauge CRC sheet duly powder coated. Fitted with heavy duty and continuous rating double shaft motor fitted with dual blowers for uniform and high speed layer air which forms an invisible layer of curtain.

MODEL	DOOR WIDTH
CSI-AC-600	600 mm
CSI-AC-900	900 mm
CSI-AC-1200	1200 mm
CSI-AC-1500	1500 mm
CSI-AC-1800	1800 mm

OPTIONS

- a) Door operated limit switch to cost extra.



Tissue Culture Hood/Inoculation Chamber

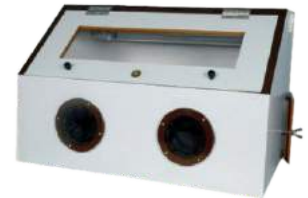
CSI - 159

Tissue Culture Hoods/Inoculation Chambers are most suitable for circulation free environment to eliminate cross contamination in sterile techniques involving culture growth, tissue staining and virus harvestings. The convenient table top model has ample working space and provides working ease for user while media preparation. Working table top covered with stainless steel (SS-304) has transparent plexiglass front door and has arrangement for keeping the door open, if desired. Fitted with one U.V. germicidal light and one fluorescent light for daylight vision.

MODEL	EXTERNAL DIMENSIONS	GLOVE PORTS & GAUNTLETS
CSI- TCH-170	900 x 600mm	Without Glove Ports & Gauntlets
CSI- TCH-170(G)	900 x 600mm	With Glove Ports & Gauntlets and exhaust system for 6 feet duct to convert the unit into Inoculation Chamber (Ducting per feet extra)

OPTIONS

- a) Exhaust ducting per feet to cost extra.



Fumigation Chamber

CSI - 160

MODEL	CSI-FC-125	CSI-FC-224	CSI-FC-336	CSI-FC-125(TC)	CSI-FC-224(TC)	CSI-FC-336(TC)
INNER CHAMBER SIZE	455x455x605mm	605x605x605mm	605x605x910mm	455x455x605mm	605x605x605mm	605x605x910mm
CAPACITY	125 Ltrs.	224 Ltrs.	336 Ltrs.	125 Ltrs.	224 Ltrs.	336 Ltrs.
MOC (OUTER)	Mild Steel Duly Powder Coated					
MOC (INNER)	Stainless Steel (SS-304)					
TEMP. CONTROL	Without Temperature Control			With Microprocessor based Digital Temp. Indicator cum Controller with LED Display for Set Value (SV) & Process Value (PV)		
NO. OF TRAYS	3	3	3	3	3	3



Rotary Vacuum Evaporator With Heating Bath

CSI - 161

ROTOVAC Rotary Vacuum Evaporator is equipped with digital speed control to control speed range 20-280 RPM, and R.P.M. value is displayed in digital. Fitted with Vertical Condenser & Motorized UP-DOWN control switch Supplied with Digital Water Bath of cap 4.3 ltrs. water bath is made of stainless steel to prevent corrosion Insulating heater prevents burn and loss of heat Digital water bath covers ambient temperature upto 180 °C If water level at heating bath goes down, power will be cut off automatically by sensor.

MODEL	CAPACITY	DESCRIPTION
CSI-RE-1000	1.0 ltr.	Supplied with 1 set of glass parts consisting of vertical condenser (1No.), evaporating flask 1 Ltr (1 No.), receiving flask 1 Ltr (1 No.)
CSI-RE-2000	2.0 ltr.	Supplied with 1 set of glass parts consisting of vertical condenser (1No.), evaporating flask 2 Ltrs (1 No.), receiving flask 2 Ltrs (1 No.)
CSI-RE-3000	3.0 ltr.	Supplied with 1 set of glass parts consisting of vertical condenser (1No.), evaporating flask 3 Ltrs (1 No.), receiving flask 3 Ltrs (1 No.)

SPARES

- (a) Evaporating and Receiving Flasks.

VOLUME	EVAPORATING FLASKS	RECEIVING FLASKS
	MODEL	MODEL
50 ml	CSI-EF-50	--
100 ml	CSI-EF-100	--
250 ml	CSI-EF-250	--
500 ml	CSI-EF-500	CSI-RF-500
1000 ml	CSI-EF-1000	CSI-RF-1000
2000 ml	CSI-EF-2000	CSI-RF-2000
3000 ml	CSI-EF-3000	CSI-RF-3000



- (b) Common Condenser Compatible For all models
- (c) Spare Vacuum Seal
- (d) Spare Ball Clamp for Receiving Flask
- (e) Spare Joint Clamp
- (f) Spare Rotating Duct
- (g) Spare Vacuum Stop Clock
- (h) Vacuum Connector
- (l) Connecting Adaptor

Accessories

- (a) Refrigerated Liquid/Water Chiller Circulator.
- (b) Vacuum Pump Oil Free.

Electric Water Aspirator

Excessive consumption of water may be reduced that can happen when city piped water is used.

Aspirator Filter Pumps offer excellent performance for vacuum filtrations under both high and low water pressure conditions. The pumps feature a ball-type, positive-action valve in the suction tube which prevents water backflow if the pressure is reduced.



CSI - 162

MODEL	PUMP CAPACITY	BATH CAPACITY	MOTOR POWER	MATERIAL OF BATH	POWER SOURCE	DIMENSION
CSI-EWA-8	18 Ltrs/min.	8 Ltrs.	150 W	Polypropylene	AC220V 50/60 Hz 0.7A	320x240x330mm

OPTIONS

- a) Vacuum Gauge with needle valve regulator.
- b) Cooling coil attachment made of copper.

Digital Vacuum Controller

Solid state module maintains precise control ($\pm 3\%$) of the system vacuum by cycling the pump on/off as required. Manual aeration valve. Pays for itself in a short time due to the enhanced recoveries. Frees manpower for other productive work. Results & recoveries reproducible due to accurate display and control of vacuum Reduces maintenance costs and downtime of vacuum source.

MODEL	CSI-DVC-1000
VACUUM DISPLAY RANGE	0 to 1000 mbar
RESOLUTION	1 mbar
POWER SOURCE	AC220 V 50/60 Hz
WEIGHT	5 Kg



CSI - 163

Rotary Vacuum Evaporator (Economy Model)

The apparatus consists of an evaporating flask rotated by heavy duty motor in a heating water bath. Fitted with speed regulator for minor speed adjustments. Vacuum Distillation of solvent at high and low temperature is achieved quickly and efficiently by use of a heavy duty motor, which prevents foaming and bumping of the liquid (solvent) into the evaporating flask and also distillation under controlled atmosphere. The evaporating flask is pear shaped to give a large surface area of evaporation. Evaporating flask is clamped to a glass duct which goes through the drive unit and protrudes about 120 mm into the condenser. Condenser is fitted with standard joint at the top and the bottom for receiver flask. Unit is fitted with a quick action jack. Fitted with digital RPM / Speed Indicator and water bath (Digitally controlled through a MICROPROCESSOR BASED DIGITAL TEMPERATURE INDICATOR-CUM-CONTROLLER).

MODEL	CSI-RVE-1	CSI-RVE-3	CSI-RVE-5	CSI-RVE-10
CAPACITY	1 Ltr.	3 Ltrs.	5 Ltrs.	10 Ltrs.

OPTIONS

MODEL	1 Ltr.	3 Ltrs.	5 Ltrs.	10 Ltrs.
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MICRO ATTACHEMENT, VACUUM PUMP, LIQUID/WATER, CIRCULATOR CHILLER.



CSI - 164

Rotary Vacuum Evaporator Advance Digital Model with Motorized Lift

The laboratory applications of Rotary evaporators - commonly used in chemistry related environments for the efficient and gentle removal of solvents from samples by evaporation under vacuum.

MODEL	CAPACITY
CSI-RVE-1(DX)	1 Ltr.
CSI-RVE-3(DX)	3 Ltrs.
CSI-RVE-5(DX)	5 Ltrs.
CSI-RVE-10(DX)	10 Ltrs.



CSI - 165

OPTIONS

- a) Vacuum Pump (Oil Free and Beltless).
- b) Chiller Circulation (Temperature Range Ambient to -10°C).

Distillation Apparatus All Glass (Electrically Heated)

CSI - 166

VOLUME	CAPACITY
CSI-AGD-3	3 Ltrs.
CSI-AGD-5	5 Ltrs.
CSI-AGD-10	10 Ltrs.

SINGLE & DOUBLE & TRIPLE STAGE WITHOUT LWCO*
LWCO-Low Water Level Cut-Off Device for general safety of the heating system.

OPTIONS

- a) Spare Flask

CAPACITY	3 Ltrs	5 Ltrs	10 Ltrs

- b) Spare Condenser

CAPACITY	3 Ltrs	5 Ltrs	10 Ltrs

- c) Special rubber tubing coil (Coi. of 10 Mtrs) to cost extra.



Water Still Heavy Duty

CSI - 167

Double walled construction with inner and outer chamber made of stainless steel. The gap in between being filled with glass wool. Condenser and top are also made of Stainless Steel SS-304 grade Argon Arc Welded. Supplied with the rubber tubing coil of 5 meters. Supplied with cord & plug to work on 220/230 volts AC supply.

VOLUME	SINGLE STAGE WATER STILL	DOUBLE STAGE WATER STILL
	MODEL	MODEL
5.0 Ltrs/Hr	CSI-WSSS-5	CSI-WSDS-5
10.0 Ltrs/Hr	CSI-WSSS-10	CSI-WSDS-10
20.0 Ltrs/Hr	CSI-WSSS-20	CSI-WSDS-20
40.0 Ltrs/Hr	CSI-WSSS-40	CSI-WSDS-40



Basic Baby Fermenter

CSI - 168

The Fermentor vessel is made of Stainless steel and heated through steam heating system with electric element. Having opening lid on the top of vessel suitable for cleaning and filling purpose. The vessel fitted with pressure gauge pressure release valve disabte at 17 psi pressure. Provided with in line filter for sterile incoming and outgoing air. Vessel is also provided with built in cooling coil for inlet and outlet of cold water. The inoculation port and sampling ports, one port fitted with temperature gauge. The entire fermentor assembly is covered with steam jacket having safety valve and auto pressure cut-off device.

MODEL	OVERALL CAPACITY	WORKING CAPACITY
CSI-BBF-15	15 Liters	10 Liters
CSI-BBF-70	70 Liters	50 Liters
CSI-BBF-140	140 Liters	100 Liters
CSI-BBF-280	280 Liters	200 Liters

OPTIONS: Shaking of material through air supply using a oil free compressor.



Hot Air Oven Universal (Memmert Type)

CSI - 169

Outer body made of PCRC duly powder coated and inner chamber and adjustable trays made of Stainless Steel (SS-304 grade). Gap between inner and outer wall is filled with mineral wool. Adjustable air ventilators are placed near the top of the sides. The door has synthetic rubber gasket. Temperature range few degrees above ambient to 250°C+1°C. To work on 220/230 volts AC supply.

OVEN UNIVERSAL THERMOSTATIC MODEL

MODEL (WITHOUT FAN)	INTERNAL DIMENSION (WDXH)(MM)	CAPACITY
CSI-OUT -28	300 x 300 x 300	28 ltrs
CSI-OUT -45	355 x 355 x 355	45 ltrs
CSI-OUT -95	455 x 455 x 455	95 ltrs
CSI-OUT -125	455 x 455 x 605	125 ltrs
CSI-OUT -224	605 x 605 x 605	224 ltrs
CSI-OUT -252	605 x 455 x 910	252 ltrs
CSI-OUT -336	605 x 605 x 910	336 ltrs
CSI-OUT -500	600 x 900 x 900	500 ltrs
CSI-OUT -750	900 x 900 x 900	750 ltrs

OPTION

- (a) Air circulating fan for above to maintain temperature uniformity throughout the chamber.



OVEN UNIVERSAL DIGITAL MODEL WITH AIR CIRCULATION FAN

Fitted with Microprocessor Based PID Digital Temperature Indicator cum Controller to control the chamber temperature, Fitted with air circulating fan, as a standard accessory to maintain temperature uniformity throughout the chamber.

WITH PROFILE DIGITAL MICROCONTROLLER HAVING 2 PROGRAMMES EACH OF 8 STEPS (TOTAL 16 STEPS OF RAMP/ SOAK PROFILE)

MODEL	INTERNAL DIMENSIONS (WXDXH) MM	CAPACITY	WITH MICROPROCESSOR DIGITAL CONTROLLER WITH LCD DISPLAY
CSI-OU-D -28	300 x 300 x 300	28 ltrs	
CSI-OU-D -45	355 x 355 x 355	45 ltrs	
CSI-OU-D -95	455 x 455 x 455	95 ltrs	
CSI-OU-D -125	455 x 455 x 605	125 ltrs	
CSI-OU-D -224	605 x 605 x 605	224 ltrs	
CSI-OU-D -252	605 x 455 x 910	252 ltrs	
CSI-OU-D -336	605 x 605 x 910	336 ltrs	
CSI-OU-D -500	600 x 900 x 900	500 ltrs	
CSI-OU-D -750	900 x 900 x 900	750 ltrs	



OVEN UNIVERSAL SEMI AUTOMATIC DIGITAL MODEL

These units are fitted with specially designed MICROPROCESSOR BASED PID DIGITAL TEMPERATURE INDICATOR-CUM-CONTROLLER with an in-built DIGITAL TIMER to control the temperature from 50°C to 250°C (+ 1°C). Once the unit is switched "ON" heating starts automatically and once the set/desired value is achieved the in-built AUTOMATIC DIGITAL MINUTE TIMER starts automatically. Once this set time period is over the heaters set/desired value is achieved the in-built AUTOMATIC DIGITAL MINUTE TIMER starts automatically. Once this set time period is over the heaters are switched "OFF" automatically and the unit sounds a BUZZER, thus alerting the user that process is complete. Fitted with air circulating fan, as a standard accessory, to maintain temperature uniformity throughout the chamber. 16X2 ALPHANUMERIC LCD DISPLAY AND HI/LOW TEMPERATURE DEVIATION ALARM With LED DISPLAY

MODEL	INTERNAL DIMENSIONS (WXDXH) MM	CAPACITY
CSI-OU-D -28(SAD)	300 x 300 x 300	28 ltrs
CSI-OU-D -45(SAD)	355 x 355 x 355	45 ltrs
CSI-OU-D -95(SAD)	455 x 455 x 455	95 ltrs
CSI-OU-D -125(SAD)	455 x 455 x 605	125 ltrs
CSI-OU-D -224(SAD)	605 x 605 x 605	224 ltrs
CSI-OU-D -252(SAD)	605 x 455 x 910	252 ltrs
CSI-OU-D -336(SAD)	605 x 605 x 910	336 ltrs
CSI-OU-D -500(SAD)	600 x 900 x 900	500 ltrs
CSI-OU-D -750(SAD)	900 x 900 x 900	750 ltrs

Oven Universal (High Temperature) (Microprocessor Controlled)

CSI - 170

Outer wall is made of PCRC Sheet duly powder coated and Inner Chamber and adjustable trays made of stainless steel (SS-304 grade). Temperature range 50°C to 300°C or 390°C (as ordered) is controlled with MICROPROCESSOR BASED PID DIGITAL TEMPERATURE INDICATOR-CUM-CONTROLLER with an accuracy of ±2°C. Heating elements are placed on both sides. Fitted with air ventilator and air circulating fan.

DIGITALLY CONTROLLED OVEN (HIGH TEMPERATURE) - UP TO 300 °C (Inner chamber and trays of SS-304)

MODEL (WITHOUT FAN)	INTERNAL DIMENSION (WXDXH)(MM)	CAPACITY
CSI-OHT-45(SS)	355 x 355 x 355	45 ltrs
CSI-OHT-95(SS)	455 x 455 x 455	95 ltrs
CSI-OHT-125(SS)	455 x 455 x 605	125 ltrs
CSI-OHT-224(SS)	605 x 605 x 605	224 ltrs
CSI-OHT-336(SS)	605 x 605 x 910	336 ltrs

DIGITALLY CONTROLLED OVEN (HIGH TEMPERATURE) - UPTO 390 °C (Inner chamber and trays of SS-304)

Fitted with Microprocessor Based PID Digital Temperature Indicator cum Controller to control the chamber temperature, Fitted with air circulating fan, as a standard accessory to maintain temperature uniformity throughout the chamber.

MODEL (WITHOUT FAN)	INTERNAL DIMENSION (WXDXH)(MM)	CAPACITY
CSI-OHT-45	355 x 355 x 355	45 ltrs
CSI-OHT-95	455 x 455 x 455	95 ltrs
CSI-OHT-125	455 x 455 x 605	125 ltrs
CSI-OHT-224	605 x 605 x 605	224 ltrs
CSI-OHT-336	605 x 605 x 910	336 ltrs



OPTION

- a) These units can be fitted with specially designed semi automatic microprocessor based pid digital temperature indicator-cum-controller with an in-built digital timer to control the temperature from 50°C to 300°C (±2°C) or 50°C to 390°C (±3°C) once the unit is switched 'on' heating starts automatically and once the set/desired value is achieved the in-built automatic digital minute timer starts automatically. once this set time period is over the heaters are switched "off" automatically and the unit sounds abuzzer, thus alerting the user that process is complete.
- b) ----- do-----same as above but with 16 x 2 line alphanumeric LCD display



Mini Tray Drying Oven/ Mini Dehydrator

CSI - 171

These Triple walled unit have outer wall and inner chamber made of Mild Steel duly painted. Trays are made of aluminum. Temperature range from 50°C to 250°C is controlled with microprocessor based pid digital temperature indicator-cum-controller with an accuracy of ±3°C.

MODEL	INTERNAL DIMENSION (WXDXH)(MM)	TRAY CAPACITY/SUPPLIED
CSI-MTDO-95	455 x 455 x 455 mm	3
CSI-MTDO-125	455 x 455 x 605 mm	4
CSI-MTDO-224	605 x 605 x 605 mm	6
CSI-MTDO-336	605 x 605 x 910 mm	9



OPTION

a) These units can be fitted with specially designed semi automatic microprocessor based pid digital temperature indicator-cum-controller with an in-built digital timer to control the temperature from 50°C to 300°C (±2°C) or 50°C to 390°C (±3°C). once the unit is switched 'on heating starts automatically and once the set/desired value is achieved the in-built automatic digital minute timer starts automatically. once this set time period is over the heaters are switched "off" automatically and the unit sounds a buzzer, thus alerting the user that process is complete.

b) -----do-----same as above but with 16 x 2 line alphanumeric LCD display

Industrial Tray Drying Oven

CSI - 172

Outer and inner chambers made of PCRC Sheet duly powder coated. Temperature range from 50°C to 250°C ±5°C controlled through MICROPROCESSOR BASED PID DIGITAL TEMPERATURE INDICATOR-CUM-CONTROLLER . Fitted with heavy duty motor blower assembly. Available with provision to hold various capacity / no. of trays, but supplied without aluminium / S.S trays (Option).

WITH MICROPROCESSOR CONTROLLER & CONTROLLER WITH TIMER

MODEL	INTERNAL DIMENSION (WXDXH)(MM)	INTERNAL DIMENSION (WXDXH)(IN FEET)	MAXIMUM TRAYHOLDING CAPACITY
CSI-ITDO-323	900 x 600 x 900	3'x2'x3'	12
CSI-ITDO-333	900 x 900 x 900	3'x3'x3'	18
CSI-ITDO-334	900 x 900 x 1200	3'x3'x4'	24
CSI-ITDO-335	900 x 900 x 1500	3'x2'x5'	24
CSI-ITDO-326	900 x 600 x 1800	3'x2'x6'	24
CSI-ITDO-336	900 x 900 x 1800	3'x3'x6'	48
CSI-ITDO-338	900 x 900 x 2400	3'x3'x8'	60
CSI-ITDO-438	1200 x 900 x 2400	4'x3'x8'	96
CSI-ITDO-464	1200 x 800 x 1200	4'x6'x4'	48



Controller :- Microprocessor based digital temperature Indicator-cum-Controller with an in built digital timer and alarm.

OPTIONS

- a) Each aluminium tray to cost extra.
- b) Each Stainless Steel tray (SS-304 Grade) to cost extra.
- c) Controller with 16 x 2 line alphanumeric LCD display in lieu of SAD Controller with LED Display.

Tray Drying Oven / Dehydrator

CSI - 173

Outer and inner chambers made of PCRC Sheet duly powder coated. Temperature range ambient +50C to 150°C ±2°C controlled through MICROPROCESSOR BASED PID DIGITAL TEMPERATURE INDICATOR-CUM-CONTROLLER . Fitted with heavy duty motor blower assembly. Available in various capacities to hold 12/ 24/ 48 /96 nos. of aluminium trays. Aluminium trays are supplied with the unit as a standard accessory.

WITH MICROPROCESSOR CONTROLLER & CONTROLLER WITH TIMER

MODEL	INTERNAL DIMENSION (WXDXH)(MM)	TRAY CAPACITY/SUPPLY	HEATER LOAD
CSI-TDO-12	430 x 840 x 915	12	4.0 KW
CSI-TDO-24	915 x 840 x 915	24	6.0 KW
CSI-TDO-48	965 x 1275 x 1450	48	10.0 KW
CSI-TDO-96	965 x 1700 x 1450	96	20.0 KW



Controller :- Microprocessor based digital temperature Indicator-cum-Controller with an in built digital timer and alarm.

OPTIONS

- a) Spare aluminium tray.
- b) Spare stainless steel tray (SS-304 grade).
- c) Controller with 16 x 2 line alphanumeric LCD display in lieu of Controller with LED Display.

Vacuum Oven Temperature range up to 150°C

CSI - 174

Outer body made of CRC sheet duly power coated and inner chamber made of Stainless Steel (SS-304 grade). Temperature Ambient +5°C to 150°C with an accuracy of ±3°C. Fitted with tempered and toughened safety glass viewing window.

RECTANGULAR INNER CHAMBER DIGITAL MODEL WITHOUT VACUUM PUMP		
MODEL	INTERNAL DIMENSION (WXDXH)(MM)	CAPACITY
CSI-VO-22(LT)	300 (ø) x 300 (D) mm	22 ltrs
CSI-VO-44(LT)	300 (ø) x 600 (D) mm	44 ltrs
CSI-VO-16(LT)	250 x 250 x 250	16 ltrs
CSI-VO-28(LT)	300 x 300 x 300	28 ltrs



OPTION

Please Refer to CSI-176 (HT) options. CSI-VO-95(LT) 455 x 455 x 455 95 ltrs

Vacuum Oven Temperature range up to 200 °C

CSI - 175

Outer body made of CRC sheet duly power coated and inner chamber made of Stainless Steel (SS-304 grade). Temperature Ambient +5 °C to 200 °C with on accuracy of ±3 °C. Fitted with tempered and toughened safety glass viewing window.

RECTANGULAR INNER CHAMBER DIGITAL MODEL		
MODEL	INTERNAL DIMENSION (WXDXH)(MM)	CAPACITY
CSI-VO-16(LT)	250 x 250 x 250	16 ltrs
CSI-VO-28(LT)	300 x 300 x 300	28 ltrs
CSI-VO-95(LT)	455 x 455 x 455	95 ltrs
CSI-VO-22(MT)	300 (ø) x 300 (D) mm	22 ltrs
CSI-VO-44(MT)	300 (ø) x 600 (D) mm	44 ltrs



OPTION: Please Refer to CSI-176(HT) options

Vacuum Oven Temperature range up to 300 °C

CSI - 176

Outer body made of CRC sheet duly power coated and inner chamber made of Stainless Steel (SS-304 grade). Temperature Ambient +5 °C to 300 °C with on accuracy of ±3 °C. Solid door of steel plate.

RECTANGULAR INNER CHAMBER DIGITAL MODEL		
MODEL	INTERNAL DIMENSION (WXDXH)(MM)	CAPACITY
CSI-VO-16(LT)	250 x 250 x 250	16 ltrs
CSI-VO-28(LT)	300 x 300 x 300	28 ltrs
CSI-VO-95(LT)	455 x 455 x 455	95 ltrs
CSI-VO-22(HT)	300 (ø) x 300 (D) mm	22 ltrs
CSI-VO-44(HT)	300 (ø) x 600 (D) mm	44 ltrs



OPTION

- (a) Vacuum Pump Oil free (For Oven of upto 28 Ltrs. Capacity)
- (b) Vacuum Pump (For Oven of 44 Ltrs. and 95 Ltrs. Capacity)
- (c) MICROPROCESSOR BASED PID DIGITAL TEMPERATURE INDICATOR-cum-Controller with an in-built DIGITAL TIMER to contro the temperature from ambient+5°C to 150 °C or 200 °C (±3 °C) or 300 °C (±3 °C). Once the unit is switched 'ON' heating starts automatically and once the set/desired value is achieved the in-built AUTOMATIC DIGITAL MINUTE TIMER starts automatically. Once this set time period is over the heaters are switched "OFF" automatically and the unit sounds BUZER, thus alerting the user that process is complete.
- (d) Controller with 16 x 2 line alphanumeric LCD display in lieu of Controller with LED Display.
- (e) Digital vacuum Indicator with transducer.

Hybridization Incubator

CSI - 177

double walled units having outer chamber of mild steel duly painted and inner of stainless steel. temperature is controlled a microprocessor based digital temperature indicator-cum-controller with an accuracy of ±0.5 °c. carrier to hold bottles (6no.s of size: 60mm dia x 200mm epth). carrier rotates at a variable speed of 2 to 16 rpm. viewing glass window in the door allows inspection of the specimen inside the chamber.

MODEL	TEMPERATURE RANGE
CSI-HI-219(HT)	From 5 °C above ambient to 90 °C
CSI-HI-219(HC)	From 5 °C to 90 °C (Refrigerated Model)

OPTIONS

- a) Hybridization Bottle.
- b) Additional Carrier for Bottles.
- c) Rocker Platform at base (30 to 80rpm).



Oven and Incubator Combined

CSI - 178

Oven-Bench Top-Incubator

MODEL	DIMENSION (WXDXH)(MM)	TRAY CAPACITY/SUPPLY	TOTAL HEAT LOAD	NO. OF SHELVES
CSI-OIC-45	355 x 355 x 355mm	45ltrs + 45 ltrs	1.25 KW	2
CSI-OIC-95	455 x 455 x 455mm	95ltrs + 95 ltrs	2.50 KW	2
CSI-OIC-125	455 x 455 x 605mm	125ltrs + 125 ltrs	2.50 KW	2
CSI-OIC-224	605 x 605 x 605mm	224ltrs + 224 ltrs	3.75 KW	2

Controller :- Microprocessor based digital temperature Indicator-cum-Controller with an in built digital timer and alarm.

Oven-Bench Top-Oven

MODEL	DIMENSION (WXDXH)(MM)	TRAY CAPACITY/SUPPLY	TOTAL HEAT LOAD	NO. OF SHELVES
CSI-OOC-45	355 x 355 x 355mm	45ltrs + 45 ltrs	1.50 KW	2
CSI-OOC-95	455 x 455 x 455mm	95ltrs + 95 ltrs	3.00 KW	2
CSI-OOC-125	455 x 455 x 605mm	125ltrs + 125 ltrs	3.00 KW	2
CSI-OOC-224	605 x 605 x 605mm	224ltrs + 224 ltrs	4.50 KW	2

Controller :- Microprocessor based digital temperature Indicator-cum-Controller with an in built digital timer and alarm.



Incubator-Atop-Incubator

MODEL	DIMENSION (WXDXH)(MM)	TRAY CAPACITY/SUPPLY	TOTAL HEAT LOAD	NO. OF SHELVES
CSI-IIC-45	355 x 355 x 355mm	45ltrs + 45 ltrs	1.00 KW	2
CSI-IIC-95	455 x 455 x 455mm	95ltrs + 95 ltrs	2.00 KW	2
CSI-IIC-125	455 x 455 x 605mm	125ltrs + 125 ltrs	2.00 KW	2
CSI-IIC-224	605 x 605 x 605mm	224ltrs + 224 ltrs	3.00 KW	2

Controller :- Microprocessor based digital temperature Indicator-cum-Controller with an in built digital timer and alarm.

OPTION

a) Controller with 16 x 2 line alphanumeric LCD display in lieu of SAD Controller with LED Display.

Bacteriological Incubator

CSI - 179

Outer body made of PCRC duly powder coated and inner chamber and adjustable trays made of Stainless Steel (SS-304 grade). Gap between inner and outer wall is filled with mineral wool. Adjustable air ventilators are placed near the top of the sides. The door has synthetic rubber gasket. Temperature range few degrees above ambient to 70°C ±1°C. To work on 220/230 volts AC supply.

BACTERIOLOGICAL INCUBATOR THERMOSTATIC MODEL

MODEL (WITHOUT FAN)	INTERNAL DIMENSION (WXDXH)(MM)	CAPACITY
CSI-IUT-28	300 x 300 x 300	28 ltrs
CSI-IUT-45	355 x 355 x 355	45 ltrs
CSI-IUT-95	455 x 455 x 455	95 ltrs
CSI-IUT-125	455 x 455 x 605	125 ltrs
CSI-IUT-224	605 x 605 x 605	224 ltrs
CSI-IUT-252	605 x 455 x 910	252 ltrs
CSI-IUT-336	605 x 605 x 910	336 ltrs
CSI-IUT-500	600 x 900 x 900	500 ltrs
CSI-IUT-750	900 x 900 x 900	750 ltrs



OPTION

(a) Air circulating fan for above to maintain temperature uniformity throughout the chamber.

BACTERIOLOGICAL INCUBATOR DIGITAL MODEL WITH AIR CIRCULATING FAN

Fitted with Microprocessor Based PID Digital Temperature Indicator cum Controller to control the chamber temperature, Fitted with air circulating fan, as a standard accessory to maintain temperature uniformity throughout the chamber.

WITH MICROPROCESSOR & DIGITAL CONTROLLER & DIGITAL CONTROLLER WITH LED DISPLAY
WITH PROFILE DIGITAL MICROCONTROLLER & HAVING 2 PROGRAMMES EACH OF 8 STEPS (TOTAL 16 STEPS OF RAMP/ SOAK PROFILE)

MODEL	INTERNAL DIMENSION (WXDXH)(MM)	CAPACITY
CSI-IUT-28	300 x 300 x 300	28 ltrs
CSI-IUT-45	355 x 355 x 355	45 ltrs
CSI-IUT-95	455 x 455 x 455	95 ltrs
CSI-IUT-125	455 x 455 x 605	125 ltrs
CSI-IUT-224	605 x 605 x 605	224 ltrs
CSI-IUT-252	605 x 455 x 910	252 ltrs
CSI-IUT-336	605 x 605 x 910	336 ltrs
CSI-IUT-500	600 x 900 x 900	500 ltrs
CSI-IUT-750	900 x 900 x 900	750 ltrs



BACTERIOLOGICAL INCUBATOR SEMI AUTOMATIC DIGITAL MODEL

These units are fitted with specially designed MICROPROCESSOR BASED PID DIGITAL TEMPERATURE INDICATOR-CUM-CONTROLLER with an in-built DIGITAL TIMER to control the temperature from ambient to 70°C (±1°C). Once the unit is switched "ON" heating starts automatically and once the set/desired value is achieved the in-built AUTOMATIC DIGITAL MINUTE TIMER starts automatically. Once this set time period is over the heaters are switched "OFF" automatically and the unit sounds a BUZZER, thus alerting the user that process is complete. Fitted with air circulating fan, as a standard accessory, to maintain temperature uniformity throughout the chamber.

WITH LED DISPLAY, WITH 16X2 ALPHANUMERIC LCD DISPLAY AND HI/LOW TEMPERATURE DEVIATION ALARM

MODEL	INTERNAL DIMENSION (WXDXH)(MM)	CAPACITY
CSI-IUD-28	300 x 300 x 300	28 ltrs
CSI-IUD45	355 x 355 x 355	45 ltrs
CSI-IUD-95	455 x 455 x 455	95 ltrs
CSI-IUD-125	455 x 455 x 605	125 ltrs
CSI-IUD-224	605 x 605 x 605	224 ltrs
CSI-IUD-252	605 x 455 x 910	252 ltrs
CSI-IUD-336	605 x 605 x 910	336 ltrs
CSI-IUD-500	600 x 900 x 900	500 ltrs
CSI-IUD-750	900 x 900 x 900	750 ltrs



Incubator Shaker (Bench Top)

CSI - 180

MODEL	CSI - IS-45
Temperature Control Range	RT+5°C ~ 45°C
Uniformity Over The Platform	±1°C
Display Accuracy	0.1°C
Shaking Speed	50-250rpm
Orbit	10mm
Independent Timer	0 - 99h59min
Heating Time (20°C To 45°C)	< 30min
Load Capacity	2.5kg
Dimensions	356x342x478mm
Weight	19kg
Plexiglass Walls (Thickness)	10mm
Interchangeable Platform	As per table give below, at an extra cost
Electric Supply	AC 220V, 50/60Hz
Power	300W
(WITHOUT SHAKING PLATFORM)	



Accessories

Interchangeable Platform for Environmental Shaker Incubator (to be ordered separately at extra cost).

MODEL	DESCRIPTION
CSI-PF-1	Flat platform with non-slip rubber mat
CSI-PF-2	Platform with clamps for flasks, 100-150ml
CSI-PF-3	Platform with clamps for flasks, 250ml
CSI-PF-4	Universal platform with adjustable bars for different types of flasks, bottles

Orbital Shaking Incubator (Floor Model)

CSI - 181

Double Walled with outer wall made of CRC sheet duly powder coated and inner wall made of Stainless Steel. Temperature range from 5°C to 60°C to ±0.5°C is controlled through a Microprocessor Based Digital Temperature Indicator Cum Controller. Orbital Shaker System fitted at base with shaking platform of size (510 x 510 mm), can accommodate different capacities of flasks (user defined) with universal Lotus Clamps made of Stainless Steel. Unit is fitted with interior illumination arrangement, programmable timer and digital RPM / Speed meter.

DIMENSION INNER (WXDXH)	CAPACITY	VOLUME	NO. OF SHELVES	WITH MICROPROCESSOR DIGITAL CONTROLLER WITH LED DISPLAY	WITH 16X2 LINE ALPHANUMERIC LCD CONTROLLER HAVING HI/ LOW TEMP. AND SENSER FAILURE ALARM
				MODEL	MODEL
570 x 550 x 875mm	280 ltrs	10 Cuft	3	CSI-FM-10(IS)	CSI-FM-10(DX-LCD)
650 x 580 x 900mm	340 ltrs	12 Cuft	3	CSI-FM-12(IS)	CSI-FM-12(DX-LCD)
700 x 640 x 900mm	420 ltrs	15 Cuft	4	CSI-FM-15(IS)	CSI-FM-15(DX-LCD)
700 x 640 x 970mm	450 ltrs	16 Cuft	4	CSI-FM-16(IS)	CSI-FM-16(DX-LCD)
700 x 640 x 1100mm	500 ltrs	18 Cuft	4	CSI-FM-18(IS)	CSI-FM-18(DX-LCD)

Egg Incubator

CSI - 182

WITHOUT HUMIDITY CONTROL ARRANGEMENT

MODEL	CSI-EI-50	CSI-EI-100	CSI-EI-200	CSI-EI-250
CAPACITY	50 Eggs	100 Eggs	200 Eggs	250 Eggs

WITH HUMIDITY CONTROL ARRANGEMENT

MODEL	CSI-EI-50(HC)	CSI-EI-100(HC)	CSI-EI-200(HC)	CSI-EI-250(HC)
CAPACITY	50 Eggs	100 Eggs	200 Eggs	250 Eggs



Poultry Incubator

CSI - 183

WITH HUMIDITY CONTROL ARRANGEMENT

MODEL	CSI-PI-50	CSI-PI-100	CSI-PI-200	CSI-PI-250
CAPACITY	50 Eggs	100 Eggs	200 Eggs	250 Eggs



Poultry Setter Cum Hatching Incubator

CSI - 184

Heavy duty body made of reinforced laminates is filled with high density (EPS) thermocol insulation. Supplied with specially designed egg setter trays and hatch baskets. Fitted with heavy duty motor for automatic turning of setter trays at an angle of 45°, after every 1 hour through an automatic time control device. Fitted with microprocessor digital temperature indicator-cum-controller to set temperature (37°C or as desired, user settable). Humidity is controlled through an humidistat to work at 55% to 60% RH. To work on 220 Volts AC Supply.



MODEL	TOTAL EGG CAPACITY	SETTING CAPACITY	HATCHING CAPACITY
CSI-ESH-5K	5000	3800	1200
CSI-ESH-3K	3200	2400	800
CSI-ESH-2K	2000	1600	400
CSI-ESH-1K	1200	800	400
CSI-ESH-6H	600	400	200

Muffle Furnace

CSI - 185

Light weight with ceramic fibre wool insulation. The outer casing made of double walled thick P.C.R.C sheet duly powder coated. Heating elements are made of KANTHAL wire backed by cerawool insulation. A viewing cap is also provided on the door. Temperature control unit consists of Microprocessor Based Digital Temperature Indicator-cum-Controller To work on 220/230 volts or 430/440 volts AC supply.

CHAMBER SIZE IN MM	TEMP. RANGE UPTO - 900 °C	TEMP. RANGE UPTO -1000 °C	TEMP. RANGE UPTO -1150 °C
	MODEL	MODEL	MODEL
100 x 100 x 225	CSI-MFLT-2	CSI-MFMT-2	CSI-MFHT-2
125 x 125 x 300	CSI-MFLT-5	CSI-MFMT-5	CSI-MFHT-5
150 x 150 x 300	CSI-MFLT-7	CSI-MFMT-7	CSI-MFHT-7
200 x 200 x 300	CSI-MFLT-12	CSI-MFMT-12	CSI-MFHT-12
175 x 175 x 475	CSI-MFLT-15	CSI-MFMT-15	CSI-MFHT-15
300 x 300 x 300	CSI-MFLT-28	CSI-MFMT-28	CSI-MFHT-28
300 x 300 x 455	CSI-MFLT-42	CSI-MFMT-42	CSI-MFHT-42
300 x 300 x 605	CSI-MFLT-56	CSI-MFMT-56	CSI-MFHT-56



OPTIONS

- Digital temperature indicator cum- controller with an in-built digital timer to control the temp. once the unit is switched 'on' heating starts auto and once the set/desired value is achieved the in-built automatic digital minute timer starts automatically. once this set time period is over the heaters are switched "off" automatically a microprocessor based pid digital temperature indicator and the unit sounds a buzzer, thus alerting the user that process is complete.
- controller with 16 x 2 line alphanumeric lcd display in lieu of sad controller with led display.
- profile digital microcontroller having 2 programmes each of 8 steps (total 16 steps of ramp/soak profile) to cost extra for soft start to heaters which prolongs/enhances heater life.

Muffle Furnace Microprocessor Controlled Deluxe Model

CSI - 186

Light weight with ceramic fibre wool insulation. Triple walled with outer casing and inner wall made of double walled thick P.C.R.C sheet duly powder coated. Heating elements are made of KANTHAL wire backed by cerawool insulation. A viewing cap is also provided on the door. Temperature control unit consists of Microprocessor Based Digital Temperature Indicator-cum-Controller to work on 220/230 volts AC.

CHAMBER SIZE IN MM	TEMP. RANGE UPTO - 900 °C	TEMP. RANGE UPTO - 1000 °C	TEMP. RANGE UPTO - 1150 °C
	MODEL	MODEL	MODEL
150 x 150 x 300	CSI-MFLT-7(DX)	CSI-MFMT-7(DX)	CSI-MFHT-7(DX)
200 x 200 x 300	CSI-MFLT-12(DX)	CSI-MFMT-12(DX)	CSI-MFHT-12(DX)



OPTIONS

- Microprocessor based pid digital temperature indicator -cum- controller with an in-built digital timer to control the temperature. once the unit is switched 'on' heating starts automatically and once the set/desired value is achieved the in-built automatic digital minute timer starts automatically. once this set time period is over the heaters are switched "off" automatically and the unit sounds a buzzer, thus alerting the user that process is complete.
- Controller with 16 x 2 line alphanumeric lcd display in lieu of sad controller with led display.
- Profile digital micro controller having 2 programs each of 8 steps (total 16 steps of ramp/soak profile) to cost extra fo soft start to heaters which prolongs/enhances heater life.

High Temperature Heat Treatment Furnace

CSI - 187

Most useful where high temperature curing is required with maximum temperature upto 1450 °C and working temperature range upto 1400 °C. Fitted with Microprocessor Based Digital Temperature Indicator-cum-controller. Silicon-carbide heating elements are fitted for uniform temperature inside the chamber. Body mounted on a heavy M.S frame covered with CRC Sheet duly powder coated.

MODEL	HEATING CHAMBER (WxDxH)(mm)	TEMPERATURE CONTROLLER CUM INDICATOR	TEMPERATURE RANGE
CSI-HTMF-253(MP)	150x150x300	Microprocessor Digital PID Temperature Indicator-cum-Controller.	1500°C Maximum, Working Upto 1400°C
CSI-HTMF-253(PR)	150x150x300	Profile Digital Microcontroller having 2 PROGRAMMES each of 8 steps (total 16 steps of ramp/soak profile), for soft start to heaters which prolongs/enhances heater life.	1500°C Maximum, Working Upto 1400°C



OPTIONS

- a) Spare Silicon Carbide Heating rod to cost extra.
- b) Spare Clip to hold heating rod.

Ultrasonic Cleaning Bath

CSI - 188

A compact and easy to operate Ultrasonic Bath manufactured with advanced MOSFET technology. Designed to clean small and dismantled intricate parts at an operating frequency range of 33 KHz ± 3KHz. Fitted with Microprocessor Based Digital Temperature Indicator-Cum-Controller at any temperature from ambient +5°C to 60°C. Also fitted with digital timer with settable range from 0-15 min or 0-30 min (depending upon the capacity ordered). To work on 220 /230 Volts AC Supply.

WITH HEATER (DIGITALLY CONTROLLED)

MODEL	CAPACITY	OPERATING FREQUENCY
CSI-UCB-15 (Die Pressed Jointed)	1.5 Ltrs	33±3KHz
CSI-UCB-35 (Jointed)	3.5 Ltrs	33±3KHz
CSI-UCB-50 (Jointed)	5.0 Ltrs	33±3KHz
CSI-UCB-70 (Jointed)	7.0 Ltrs	33±3KHz
CSI-UCB-100 (Jointed)	10.0 Ltrs	33±3KHz
CSI-UCB-200 (Jointed)	20.0 Ltrs	33±3KHz
CSI-UCB-300 (Jointed)	30.0 Ltrs	33±3KHz



OPTIONS

- a) Chiller water circulator capacity 6 ltrs to cost extra.
- b) Cooling coils fitted in the S.S. tank to cool the liquid inside the tank through which chilled water is circulated (option available only for capacity 7 ltrs and above).

Heated Bath Circulator

CSI - 189

Double walled with outer body is made up of crc sheet duly powder coated and inner chamber, lid is made up of stainless steel sheet (SS-304 grade). fitted with microprocessor based digital temperature indicator-cum-controller, to control temperature range from ambient+5°C to 100°C fitted with heavy duty circulation pump for efficient circulating needs in a closed loop system.

WITH MICROPROCESSOR DIGITAL CONTROLLER WITH LED DISPLAY

MODEL	TEMP. RANGE	TANK SIZE	CAPACITY
CSI-HCB-23	Ambient +5°C to 100°C	300 x 180 x 120	23 Ltrs



OPTIONS

- a) MICROPROCESSOR BASED SEMI AUTOMATIC PID DIGITAL TEMPERATURE INDICATOR-CUM-CONTROLLER with an in-built DIGITAL TIMER to control the temperature from ambient +5°C to 100°C. Once the unit is switched 'ON' heating starts automatically and once the set/desired value is achieved the in built AUTOMATIC DIGITAL MINUTE TIMER starts automatically. Once this set time period is over the heaters are switched "OFF" automatically and the unit sounds a BUZZER, thus alerting the user that process is complete.

Water Bath Rectangular Single Walled

CSI - 190

Single walled construction. Chamber and concentric rings made of stainless steel (SS-304 Grade).

MODEL	CSI-WBS-6	WBS-12
NO. OF HOLE	6 Holes of 75mm dia	12 Holes of 75mm dia



Water Bath Rectangular Double Walled

CSI - 191

Double walled with outer body made up of PCRC Sheet duly powder coated and inner chamber and concentric rings made up of Stainless Steel Sheet (SS 304 Grade). Available in thermostat and digitally controlled models. Temperature Range Ambient +5°C to 100°C with an accuracy ±0.5°C

THERMOSTATIC MODEL

MODEL	CSI-WBS-6	WBS-12
INTERNAL DIMENSION	300 x 250 x 100 mm	355x405x100 mm
NO. OF HOLES	6 Holes of 75 mm Dia	12 Holes of 75 mm Dia
(WITHOUT STIRRER)		



OPTIONS

- a) High speed stirrer with FHP motor, SS rod and stirring blade with speed regulator knob.

WITH MICROPROCESSOR BASED DIGITAL TEMPERATURE INDICATOR-CUM-CONTROLLER AND HIGH SPEED STIRRER

MODEL	CSI-WBD-6	WBD-12
INTERNAL DIMENSION	300 x 250 x 100 mm	355x405x100 mm
NO. OF HOLES (WITHOUT STIRRER)	6 Holes of 75 mm Dia	12 Holes of 75 mm Dia



OPTIONS

- a) MICROPROCESSOR BASED SEMI AUTOMATIC PID DIGITAL TEMPERATURE INDICATOR-CUM-CONTROLLER with an in- built DIGITAL TIMER to control the temperature from Ambient +5°C to 100°C. Once the unit is switched 'ON' heating starts automatically and once the set/desired value is achieved the in built AUTOMATIC DIGITAL MINUTE TIMER starts automatically. Once this set time period is over the heaters are switched "OFF" automatically and the unit sounds a BUZZER, thus alerting the user that process is complete.
- b) Controller with 16 x 2 line alphanumeric LCD display in lieu of SAD Controller with LED Display.

Water Bath Serological

Double walled with outer body made up of PCRC Sheet duly powder coated and inner chamber and cover made up of Stainless Steel Sheet (SS 304 Grade). Available in thermostat and digitally controlled models. Temperature range from ambient +5°C to 80°C with an accuracy +0.5°C.

CSI - 192



THERMOSTATIC MODEL

MODEL	CSI-SWBT-14	CSI-SWBT-18	CSI-SWBT-25	WBD-12
INTERNAL DIMENSION	300 x 250 x 175 mm	300 x 300 x 175mm	455 x 300 x 175mm	605 x 300 x 175mm
NO. OF HOLES (WITHOUT STIRRER)	2	4	6	8

OPTIONS

- a) High speed stirrer with FHP motor, SS rod and stirring blade with speed regulator knob.

WITH MICROPROCESSOR BASED DIGITAL TEMPERATURE INDICATOR-CUM-CONTROLLER AND HIGH SPEED STIRRER

MODEL	CSI-SWBD-14	CSI-SWBD-18	CSI-SWBD-25	CSI-SWBD-32	CSI-SWBD-14(D)	CSI-SWBD-18(D)	CSI-SWBD-25(D)	CSI-SWBD-32(D)
PLATFORM SIZE IN MM	300x250 175 mm	300x300 175mm	455x300 175mm	605x300 175mm	300x250 175 mm	300x300 175mm	455x300 175mm	605x300 175mm



Water Bath High Precision

Double walled with outer body made up of PCRC Sheet duly powder coated and inner chamber and lid made up of Stainless Steel Sheet (SS 304 Grade). Fitted with Microprocessor based Digital temperature Indicator - cum- controller , to control temperature range from ambient to 100°C ±0.3°C. Fitted with high speed FHP motor stirrer, SS rod and stirring blade with speed regulator as a standard feature.

CSI - 193



WITH MICROPROCESSOR, DIGITAL CONTROLLER, WITH LED DISPLAY

WITH 16X2 LINE ALPHANUMERIC, LCD CONTROLLER HAVING HI / LOW TEMP. AND SENSER FAILURE ALARM

MODEL	INTERNAL DIMENSION (WXDXH)(MM)	CAPACITY
CSI-MSR-28(D)	405 x 300 x 150 mm	28 Ltrs

Water Bath Incubator Shaker

Double walled with outer body made up of PCRC Sheet duly powder coated and inner chamber and lid is made up of Stainless Steel Sheet (SS 304 Grade). Fitted with Microprocessor based Digital temperature Indicator - cum- controller , to control temperature range from Ambient to 100°C ±0.5°C. Fitted with heavy duty PMDC motor and thyristor based DC drive speed control arrangement to control speed from 40 to 140 cycles/minute.

CSI - 194



TEMP. AMBIENT +5°C TO 100°C DIGITAL CONTROLLED MODEL	MODEL	TEMP. +5°C TO 100°C MICROPROCESSOR CONTROLLED DIGITAL MODEL	MODEL
	CSI-RWS-45		CSI-RWSR-45

OPTIONS

Spare Shaking tray with lotus clamps or test tube rack.

- a) MICROPROCESSOR BASED SEMI AUTOMATIC PID DIGITAL TEMPERATURE INDICATOR-CUM-CONTROLLER with an in- built DIGITAL TIMER to control the temperature from Ambient +5°C to 100°C. Once the unit is switched 'ON' heating starts automatically and once the set/desired value is achieved the in built AUTOMATIC DIGITAL MINUTE TIMER starts automatically. Once this set time period is over the heaters are switched "OFF" automatically and the unit sounds a BUZZER, thus alerting the user that process is complete.
- b) Controller with 16 x 2 line alphanumeric LCD display in lieu of Controller with LED Display.



Water Bath Incubator Shaker (Refrigerated) (To and fro motion)

CSI - 195

Details same as Model CSI-193(D) but fitted with hermetically sealed refrigeration system with CFC Free Refrigerants and to control temperature range from +5°C to 100°C.

WITH MICROPROCESSOR, DIGITAL CONTROLLER WITH LED DISPLAY WITH 16X2 LINE ALPHANUMERIC LCD CONTROLLER HAVING HI/ LOW TEMP. AND SENSER FAILURE ALARM

MODEL	INTERNAL DIMENSION (WDXH)(MM)	CAPACITY
CSI-WBS-28	405 x 300 x 150 mm	28 Ltrs

OPTIONS

a) Spare Shaking tray with lotus clamps or test tube rack.

FLASK CAPACITY	25ML	50ML	100ML	250ML	500ML	1000ML	25mm Dia Tubes
NO. OF FLASK	20	16	12	9	5	4	35

b) Digital RPM/SPEED Meter.



Orbital Water Bath Incubator Shaker (Orbital Motion)

CSI - 196

TEMP. AMBIENT +5°C TO 100°C MICROPROCESSOR BASED DIGITAL MODEL	TEMP. +5°C TO 100°C MICROPROCESSOR CONTROLLED DIGITAL MODEL
MODEL	MODEL
CSI-RWS-45	CSI-RWSR-45

Oil Bath High Temperature

CSI - 197

Double walled with outer body made up of PCRC Sheet duly powder coated and inner chamber and lid made up of Stainless Steel Sheet (SS 304 Grade) Fitted with Microprocessor based Digital temperature Indicator - cum- controller , to Control temperature range from Ambient +5°C to 250°C ±1°C Fitted with high speed FHP motor stirrer, SS rod and stirring blade with speed regulator as a standard feature.

Oil Bath High Temperature - Digital Model

MODEL	DIMENSION	CAPACITY
CSI-OBH-16	250 x 250 x 250mm	16 Ltrs.
CSI-OBH-23	300 x 300 x 250mm	23 Ltrs.
CSI-OBH-33	355 x 355 x 250mm	33 Ltrs.

WITH MICROPROCESSOR
DIGITAL CONTROLLER
WITH LED DISPLAY

WITH 16X2 ALPHANUMERIC
LCD DISPLAY AND HIGH/LOW
TEMPERATURE DEVIATION ALARM



Tissue Floatation Bath

CSI - 198

Housing made up of powder coated aluminium and interior made of black anodized aluminium. Temperature range from ambient +5°C to 80°C Supplied with guard lid of black anodized aluminium.

MODEL	CONTROLLER	BATH SIZE
CSI-TFBD-277	Thermostatic	200mm x 110mm
CSI-TFBD-277	Microprocessor based Digital Controller	200mm x 110mm



Inspissator

CSI - 199

Outer wall is made of powder coated CRC sheet. Inner tray and tank are made of polished stainless steel (SS-304 grade). Operating temperature range from ambient +5°C to 90°C. Fitted with Microprocessor Based Digital Temperature Indicator cum Controller with LED Display. Fitted with a circulator pump for temperature uniformity.

MODEL	CAPACITY
CSI-INSP-100	100 Tubes
CSI-INSP-200	200 Tubes
CSI-INSP-250	250 Tubes



Mini Rotary Flask Shaker

CSI - 200

Complete body mounted on heavy mild steel angle iron frame. Top platform made up of Mild Steel pointed with rubber disc or Stainless Steel (Option Available). Speed Range from 80 to 180 rpm (approx).

MODEL	CSI-MFS-45 (MS)			CSI-MFS-45 (SS)		
PLATFORM SIZE	450mm x 450mm			450mm x 450mm		
MOC (PLATFORM)	Mild Steel Painted platform with rubber discs for holding Erlenmeyer flasks			Stainless Steel platform and lotus clamps made of S.S. as per any of the configuration enclosed		
FLASK ACCOMODATION	Flask Capacity	25ML	50ML	100ML	250ML	500ML
	No. of Flask	49	36	25	9	9



OPTIONS

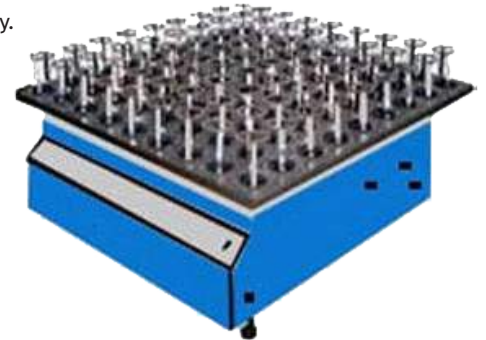
- a) Digital ON/OFF Timer.
- b) Digital RPM/Speed Meter with proximity switch.

Orbital Shaker Table Top

CSI - 201

orbital shaker is a powerful variable speed shaker which provides efficient orbital motion. Speed and time are under microprocessor control shaker can be used for various applications in different laboratories: microbiology, chemistry, immunology, biochemistry and molecular biology.

MODEL	CSI-OS-100
Shaking Speed	10-300rpm
Orbit	10mm
Independent Timer	0-99h59min
Interchangeable Platform	See Below
Load Capacity	3.0Kg
Platform Dimensions (mm)	450 x 450 mm
Motor	Brushless Motor
Electric Supply (Without Shaking Platform)	AC 220V, 50Hz, 2A



OPTION

- a) Essential at extra cost.

MODEL	DESCRIPTION
CSI-PF-1	Flat platform with non-slip rubber mat
CSI-PF-2	Platform with clamps for flasks, 100-150 ml
CSI-PF-3	Platform with clamps for flask, 250 ml
CSI-PF-4	Universal platform with adjustable bars for different types of flasks, bottles

Rotary Flask Shaker Variable Speed

CSI - 202

Complete body mounted on heavy mild steel angle iron frame. Available with mild steel platform fitted with rubber disc holder or stainless steel platform with Stainless Steel lotus type clamps to hold flask. Minor Speed control from 50-200 rpm (approx) with the help of variable speed regulator knob.

(M.S. PLATFORM) (S.S. PLATFORM)

MODEL	CSI-RS-65	CSI-RS-90	CSI-RS-105	CSI-RS-120	CSI-RS-150	CSI-RS-180
PLATFORM SIZE	65 x 65 cm	90 x 90cm	105 x 105cm	120 x 120cm	150 x 150cm	180 x 180cm



Double Decker Rotary Flask Shaker

(S.S. PLATFORM)

MODEL	CSI-RS-65(DD)	CSI-RS-90(DD)	CSI-RS-105(DD)	CSI-RS-120(DD)	CSI-RS-150(DD)	CSI-RS-180(DD)
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OPTIONS

Lotus clamps made of S.S. for holding conical flasks.

For Flask Capacity	100/50ML	150ML	250ML	500ML	1000ML
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Digital RPM/Speed Meter with PROXIMITY SWITCH.
Automatic Digital ON/OFF timer for shaking time control



Rotary Flask Shaker Heavy Duty Continuous Rating

CSI - 203

Heavy duty continuous rating model. Complete body mounted on heavy mild steel angle iron frame. Available in stainless steel platform with Stainless Steel lotus type clamps to hold flask. Speed control from 50-250 rpm (approx) with the help of SMPS Based DC DRIVE Unit by a speed control knob.

For Flask Capacity	CSI-RSCR-65	CSI-RSCR-90	CSI-RSCR-105	CSI-RSCR-120
PLATFORM SIZE PRICE (S.S. Platform with SS Lotus clamps)	65 x 65cm	90 x 90cm	105 x 105cm	120 x 120cm



Double Decker Rotary Flask Shaker

(S.S. PLATFORM)

MODEL	CSI-RSCR-65(DD)	CSI-RSCR-90(DD)	CSI-RSCR-105(DD)	CSI-RSCR-120(DD)
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OPTIONS

Spare lotus clamps made of S.S. for holding conical flasks.



For Flask Capacity | 100/50ML | 150ML | 250ML | 500ML | 1000ML

Digital RPM/Speed Meter with PROXIMITY SWITCH.
Automatic Digital ON/OFF timer for shaking time control.

VDRL Rotator (Operates at 180 rpm)

MODEL	PLATFORM SIZE	TIMER
CSI-VDRL-303(FS)	300mm x 300mm	Fixed Speed w/o Timer
CSI-VDRL-303(VS)	300mm x 300mm	Variable Speed w/o Timer

OPTIONS

- a) 0-60min. Mechanical ON/OFF Timer.
- b) Digital ON/OFF Timer.



CSI - 204

Mechanical Shaker Reciprocating Kahn's Type

Adjustable compartment on the shaking rack for shaking Kahn Racks, etc Speed range 140 to 200 rpm.

MODEL	CSI-RS-531	CSI-RS-741	CSI-RS-941	CSI-RS-331	CSI-RS-441	CSI-RS-661	CSI-RS-991	CSI-RS-1212
PLATFORM SIZE IN MM	500x325x100	755x425x100	900x450x100	380x380x100	455x455x100	605x605x100	910x910x100	1200x1200x100

OPTIONS

- a) Digital RPM/Speed Meter with PROXIMITY SWITCH.
- b) Automatic Digital ON/OFF timer for shaking time control.

CSI - 205



Wrist Action Shaking Machine

Rugged construction, heavy base, rated for continuous use. The shaking speed action is variable. The degree of agitation, gentle to violent, is controlled by speed regulator. The Erlen Meyer flasks from 125 to 1000 ml capacity can be shaken at one time even without balancing. The full torque is always applied to oscillating mechanism irrespective of speed setting. Fitted with fraction H.P. motor, cord and plug to work on 220 Volts, 1 Ph, 50 Hz, AC supply.

MODEL	FLASK HOLDING CAPACITY	NO. OF FLASK
CSI-WASM-8	100 to 1000ml	8
CSI-WASM-8 (TP)	100 to 1000ml	8 Nos. With Top Platform to hold 4 Flasks

OPTIONS

- a) 0-60min. Mechanical ON/OFF Timer.
- b) Automatic Digital ON/OFF Timer.



CSI - 206

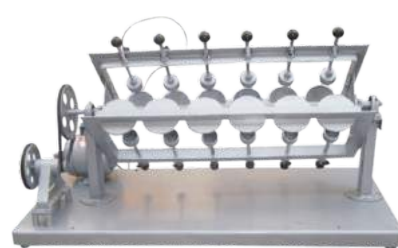
Wagner's Shaking Machine

Shaking frame is mounted as spindle with pulley for power drive. Spindle is supported on bearing on heavy metal upright base plate.

MODEL	BOTTLES ACCOMODATION	BOTTLE/FLASK CAPACITY	SPEED RANGE
CSI-WSM-6	6 bottles in 2 rows	500ml to 1 litre	60 to 70 rpm
CSI-WSM-12	12 bottles in 2 rows	500ml to 1 litre	60 to 70 rpm

OPTIONS

- (a) 0-60min. Mechanical ON/OFF Timer.



CSI - 207

Vortex Shaker Test Tube Shaker

Useful for stirring centrifugal tubes, test tubes or small flasks. Fitted with neoprene rubber cup. Deluxe model is having top rectangular platform for tubes and vials besides attachment for test tube shaking.

MODEL	CSI-VS-308	CSI-VS-308(DX)

CSI - 208



Cyclo/Vortex Mixer

Vortex mixer suitable for touch or continuous operation. With wide speed range: 0-2500 rpm, stepless speed regulation of motor. Adapters securely clicked onto appliance in any position. Sturdy cast casing. Specially designed silicone feet and steel base for excellent vibration damping. Eccentric with oilless ball bearings.

MODEL	POWER W	SHAKING MOVEMENT	ORBITAL DIAMETER	PERMISSIBLE ON TIME %	SPEED RANGE (RPM)
CSI-CVM-308	60	Orbital	4	30	0-2500

CSI - 209



Multi-Tube Vortex Mixer

CSI - 210

Pulsing mode: Programmable pulsing mode allows user to adjust the pulse-on and pulse-off times between 1-59 seconds in 1 second intervals. This feature enhances the vortex action by creating a more vigorous mix. Microprocessor control: The variable speed microprocessor control provides consistent uniform mixing action. LCD display: Independent LCD displays for speed and time allow operator to view both settings at once. Applications: Suspensions, high throughput testing in clinical, environmental and chemistry labs.

SPECIFICATION

MODEL CSI-MTV	WORKING CAPACITY
Speed Range	500-2500 rpm
Speed Accuracy	±25 rpm
Timer	1min-99h59min
Orbit	3.6mm
Maximum Weight Capacity	4.5Kg
Tray Dimensions (LXW)	31x18cm
Overall Dimensions (LXWXH)	426x250x480mm
Electric Supply	AC 100-240V 1.5A
(Without Foam Racks)	

Accessories

Test Tube Foam Racks for above (at extra cost)

TYPE	TUBE CAPACITY	DIMENSIONS (MM)
AMTV	50xØ10mm	245x132x45
BMTV	50xØ12mm	245x132x45
CMTV	50xØ13mm	245x132x45
DMTV	50xØ16mm/15ml	245x132x45
EMTV	50xØ25mm	245x132x45
FMTV	15xØ50ml	245x132x45
GMTV	Tray Pad Set (Upper & Lower)	305x178.5x25



Rocker Shaker

CSI - 211

Heavy mild steel construction duly powder coated. Having variable speed of 10-50 rpm with an angle tilt of 2" to 6".

MODEL	PLATFORM SIZE	TIMER
CSI-RS-309	360mm x 360mm	N/A.



OPTIONS

- (a) 0-60min. Mechanical ON/OFF Timer.

Tube Rotator (Slow Speed)

CSI - 212

MODEL	MAINS INPUT	MOTION	NO. OF TUBES	SPEED (RPM)
CSI-TTR-36	230V/50Hz, 110V/60Hz A.C. Supply	Tilting fix degree at 38	4ml vacutainer (EDTA) Tubes, 12 nos And ESR TUBE (8mm), 4 nos. (Total-16 nos)	15 RPM



OPTIONS

- (a) Spare rotating tube carrier .
(b) 0-60min. Mechanical ON/OFF Timer.

Flocculator (Jar Testing Apparatus) (Multi-Spindle Stirrer)

CSI - 213

Whole cabinet is fabricated of mild steel sheet duly powder coated. Base is illuminated with fluorescent tube mounted below translucent plastic plate to provide diffused cold light through floc samples. Stainless Steel Stirring rods are provided with adjustable spacers to adjust the depth stirring paddles.

MODEL	BOTTLES ACCOMODATION
CSI-FTA-2	2 STIRRERS
CSI-FTA-4	4 STIRRERS
CSI-FTA-6	6 STIRRERS

OPTIONS

- a) Coagulant dispenser for feeding does to all stirring units simultaneously.
b) Automatic mechanical ON/OFF TIMER.
c) Automatic digital ON/OFF timer.
d) Digital speed/ RPM meter with proximity switch.
e) Revolution counter.



Magnetic Stirrer-cum-Hot Plate

CSI - 214

Top Platform & body constructed of Stainless Steel (SS-304). Supplied with teflon rotor. with hot plate and energy regulator to control heat.

CAPACITY	WITH ENERGY REGULATOR	WITH DIGITAL TEMPERATURE CONTROLLER	WITH 16X2 LIN ALPHANUMERIC LCD CONTROLLER
	MODEL	MODEL	MODEL
2.0 ltrs.	CSI-MS-2	CSI-MS-2(D)	CSI-MS-2(LCD)
5.0 ltrs.	CSI-MS-5	CSI-MS-5(D)	CSI-MS-5(LCD)
10.0 ltrs.	CSI-MS-10	CSI-MS-10(D)	CSI-MS-10(LCD)



OPTIONS

a) Spare Teflon coated magnetised stirring paddle.

For Capacity 2 Ltrs 5 Ltrs 10 Ltrs

b) Digital RPM/speed meter with proximity switch.

c) Digital timer to cost extra.

Hot Plate Magnetic Stirrer Ceramic Coated Top

CSI - 215

Top Plate is coated with ceramic, resistant to corrosive chemicals & easy to clean and body has steel plate with powder coated finish. Heating & Stirring Operation can be performed at the same time or seperately. Heat Resistant Plate is provided to separate the hot plate from main body to protect the electronic parts & controller. Temperature is controlled through electronic energy regulator or by PID Auto Tuning Controller with digital settings & display controls.

MODEL	CAPACITY	PLATE SIZE	SURFACE TEMPERATURE	MAX APPROX. SPEED(RPM)	TEMP. CONTROLLER
CSI-MS-313(CC)	Upto 3 Liters	180 x 180 mm	Upto 380°C (Max.)	1500	Energy Regulator
CSI-MS-313(CCD)	Upto 3 Liters	180 x 180 mm	Upto 380°C (Max.)	1500	Microprocessor Digital Control
CSI-MS-313(LCD)	Upto 3 Liters	180 x 180 mm	Upto 500°C (Max.)	1500	With 16x2 Line Alphanumeric LCD Display Controller



Multi-Magnetic Stirrer

CSI - 216

CAPACITY	MAINFOLDS	WITH ENERGY REGULATOR	WITH DIGITAL TEMPERATURE CONTROLLER UNIT (INDIVIDUAL FOR EACH TEST)
		MODEL	MODEL
2.0 ltrs.	3	CSI-MMS-3(T)	CSI-MMS-3(D)
2.0 ltrs.	6	CSI-MMS-6(T)	CSI-MMS-6(D)



Laboratory Stirrer Fitted with DC Motor

CSI - 217

WITHOUT TIMER & WITH MECHANICAL TIMER

MODEL	MOTOR CAPACITY	MAXI. SPEED
CSI-LS-345	Equivalent to 1/20 H.P.	4000 rpm



Emulsifier (Homogenizer) Fitted with DC Motor

CSI - 218

WITHOUT TIMER & WITH MECHANICAL TIMER

MODEL	MOTOR CAPACITY
CSI-EMU-316	Equivalent to 1/20 H.P.



Filter Holder For Sterility Test

CSI - 219

MODEL	M.O.C.	FILTER DIA	FUNNEL CAPACITY
CSI-FH-317	SS-316	47mm	250ml



Sterility Test Unit

CSI - 220

MODEL	FILTER DIA	MANIFOLD	HOLDING CAPACITY
CSI-STU-3	47mm	Unit of 3 Test	250ml
CSI-STU-6	47mm	Unit of 6 Test	250ml



OPTION

Oil free vacuum pump to cost extra.

Sieve Shaker (Table Top)

Fitted with a heavy duty FHP motor.
Can accommodate Six Sieves of upto 8" dia or 12" dia.
Speed can be regulated through a continuously variable speed regulator fitted to the unit.
To work on 220/230 volts A.C.

WITHOUT TIMER & WITH MECHANICAL TIMER

MODEL	SIEVE ACCOMODATION
	6 Sieves of 8" Dia



CSI - 221

Gyratory Sieve Shaker

Designed to carry upto 7 sieves of 8" dia, Driven by 1 / 4 HP electric motor, through reduction gear, Sieves table does not rotate but is inclined from the vertical axis the direction, Addition to the Gyratory motion of the table, there is an upward and downward movement ensuring that each square inch of the sieve is utilized, Whole gear mechanism runs in an oil bath.

MODEL	SIEVE ACCOMODATION	MOTOR CAPACITY
CSI-GSS-8	7 Sieves of 8" Dia	0.25 H.P.

OPTIONS: Adaptor for 12" Sieves, WITHOUT TIMER & WITH MECHANICAL TIMER



CSI - 222

Rotap Sieve Shaker

Designed to carry upto 7 sieves of 8" dia.
Driven by 1 / 4 HP electric motor, through reduction gear.
Whole gear mechanism which gives circular end to end motion runs in oil bath.
Tapping motion is given by hammer from top.

WITHOUT TIMER & WITH MECHANICAL TIMER

MODEL	SIEVE ACCOMODATION	MOTOR CAPACITY
CSI-RSS-323	7 Sieves of 8" Dia	0.25 H.P.



CSI - 223

Wet Sieve Shaker (Yoder Type)

MODEL	SET OF SIEVES (8" DIA)
CSI-WSS-1	1 Set of 7 Sieves
CSI-WSS-2	2 Set of 7 Sieves
CSI-WSS-4	4 Set of 7 Sieves



CSI - 224

Test Sieves (Fine Series in 8" Dia. Brass Frame)

B.S.S.	A.S.T.M.	I.S.I.	MICRONS	M.M.	B.S.S.	A.S.T.M.	I.S.I.	MICRONS	M.M.
4	5	480	--	4.75	52	50	30	300	0.300
5	6	340	1812	3.35	60	60	25	250	0.250
6	7	280	2411	2.80	72	70	20	212	0.212
7	8	240	2207	2.36	85	80	18	180	0.180
8	10	200	2057	2.00	100	100	15	150	0.150
10	12	170	1698	1.70	120	120	12	125	0.125
12	14	140	1005	1.40	150	140	10	106	0.106
14	16	120	1200	1.18	170	170	9	90	0.090
16	18	100	1000	1.00	200	200	8	75	0.075
18	20	85	850	0.850	300	270	6	53	0.053
22	25	70	710	0.710	325	300	5	45	0.045
25	30	60	600	0.600	350	325	4	44	0.044
30	35	50	500	0.500	400	380	3	40	0.040
44	45	35	355	0.355	500	--	--	25	0.025



CSI - 225

Test Sieves

Made of perforated steel plate with square holes. Available in following aperature 125,160, 100, 90, 80, 75, 63, 53, 50, 45, 40, 37.5, 31.5, 26.5, 25, 22.4, 19, 16, 13.2,12.2, 11.2, 10, 9, 5, 8, 6.7, 6.3, 5.6, 4.75, 2.8 m.m.

- (a) With brass frame 8" dia
- (b) With G.I frame 12" dia
- (c) With G.I frame 18" dia



CSI - 226

Table Top General Purpose Centrifuge

with solid state speed regulator, indication lamp. With head puller but without rotor heads.
Maximum speed 5000 rpm. Fitted with digital speed meter and digital timer

HEAD AND ACCESSORIES FOR ABOVE

- a) 16 x 15 ml swingout or angle head.
- b) 12 x 15 ml swingout or angle head.
- c) 8 x 15 ml swingout or angle head.
- d) 6 x 50 ml swingout or angle head.
- e) 4 x 50 ml swingout or angle head.



CSI - 227



Bottle Washing Machine

Electrically operated with quick release chuck taking wide variety of interchangeable nylon Brushes for cleaning syring, test tubes, bottles etc.
Model (a) is table model mounted on a heavy base and has a single chuck.
Machines with soaking tanks have 12 rinsers and two-drill chuck to hold variety of brushes, and are mounted on sturdy angle iron frame duly painted.



CSI - 228

MODEL	CSI-BWM-341	CSI-BWM-341(T)
S.S.SOAKING TANK	N/A.	Tank Size : 30" x 20" x 18"

Lab Willey Grinder (Arthur H. Thomas Type)

For preparation of samples for analysis with minimum loss of moisture or volatile constituents. Weight distribution and balancing of rotating parts has been adjusted to provide greater stability and quieter performance with reduced vibration.
Suitable for wider variety of commercial materials. Fitted with 1/4 HP motor, supplied with nickel plated hopper of 50 mm dia with cover, three delivery sieves, having tops of 20, 40 and 80 mesh respectively, with plastic receiver, brush, L-N key, cord and plug. Suitable to operate on 220 volts, 1 Ph, 50 cycles AC supply.



CSI - 229

MODEL	CSI-LWG-42	CSI-LWG-62	CSI-LWG-72	CSI-LWG-105	CSI-LWG-207
CHAMBER SIZE	40 x 25 mm	65 x 25 mm	75 x 25 mm	100 x 50 mm	200 x 75 mm
MOTOR CAPACITY	0.25 HP	0.25 HP	0.25 HP	0.50 HP	1.00 HP
MOC - CHAMBER (MS)					
MOC - CHAMBER (SS)					

Ball Mill - Variable Speed With Stainless Steel Jar

For mixing and grinding electrically operated, capacity of a few grams to 1.0 kg. And 2.0 kg. Fitted with FHP motor. The unit drives with maximum speed 80 RPM.
The jar is made of aluminium, having steel balls of different sizes to be fixed in a jar for mixing and grinding of pesticides powder.
The jar is interchangeable and easily removable light weight and compact unit. To work on 220 volts A.C. Main.



CSI - 230

MODEL	CSI-BM-1	CSI-BM-2	CSI-BM-5	CSI-BM-10	CSI-BM-20
JAR CAPACITY	1.0 Kg	2.0 Kg	5.0 Kg	10.0 Kg	20.0 Kg
MOC JAR (SS)					
(VARIABLE SPEED)					

Electric Agate Mortar Pestle (Fisher Type)

Agate Mortar and pestle are very useful for grind solids into fine powders but under conditions that are highly controlled as to not produce any heating effects and to minimize and control any effects due to stretching of sometimes deformable materials. AGATE MORTAR are control the grinding and also to virtually eliminate contamination from the mortar and pestle set itself Agate is the preferred material and is used in laboratories. Agate Mortar is useful for dried spices and herbs from a cross- contamination and clean lines (hygiene)agate is for more desirable than the more porous porcelain.



CSI - 231

MODEL	CSI-AMP-344
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Tissue Homogenizer Electrically Operated

Designed to meet the varied homogenizing needs of biological and chemical laboratories. Rapidly rotating razor sharp blades provide fast and thorough reduction of tissues, for preparation of emulsion of difficult solutions etc. Powerful (1/10 hp) high speed upto (10000 rpm) AC/DC motor is mounted above homogenizing flask/bottle. Motor speed is controlled by a speed regulator. The stainless steel shaft with Micro cutting Blades, Micro homogenizing Flask/Bottle for sample of 2 ml to 25 ml, 5 ml to 30 ml, 10 ml to 50 ml. Supplied complete in all respects.
Suitable to work on 220 volts, 1 ph, 50 Hz, AC supply.



CSI - 232

WITHOUT TIMER & WITH MECHANICAL TIMER

MODEL	CAPACITY
CSI-TH-10	5ml. or 10ml.(Mention while placing order)
CSI-TH-50	30ml. or 50ml.(Mention while placing order)
CSI-TH-100	100ml.

OPTIONS

a) Spare teflon tissue grinder with S.S. rod and glass tube.

CAPACITY	5ml. or 10ml.	30ml. or 50ml.	100ml.
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Micro Tissue Homogenizer (Disintegrator Virtis Type)

WITHOUT TIMER & WITH MECHANICAL TIMER

MODEL	GLASSWARE
CSI-MTH-346	With three bottles for 25 ml 50 ml and 100 ml Samples

OPTIONS

- a) Bottles for 250ml. Sample.
- b) Bottles for 500ml. Sample.



CSI - 233

Ultrasonic Tissue Processor

Ultrasonic homogenizer is an ultrasonic cavitation in liquid effects versatile, multi-purpose instrument. It can be used a variety of animals and plants, viruses, cells, bacteria and tissue broken, but can be used to emulsification, separation, homogenization, extraction, anti-foaming, clear, Nanomaterials, distributed and speed up chemical reactions. Instrument is widely used in biology, microbiology, physics, zoology, agriculture, pharmaceuticals, chemicals, sewage treatment, nano-materials and other fields.

MODEL	OPERATING FREQUENCY	ULTRASONIC POWER
CSI-UPS-347	20 KHZ	12 WATTS



CSI - 234

Aerosol Disinfector s.s.Body

Portable, east to operate and fully corrosion resistant.
Eliminates the cumbersome process involved in the conventional method of fumigation.
Shortens the duration of sterilization.
It is 100% effective even on dreadful spores.
This ensures greater penetration & continues exposure, activates the faster rate of disinfection, thus 100% sterilization is assured.
Instantly converts liquid formalin / disinfecting liquid, into the true aerosol particles.
Due to high aerodynamic stability the formalin droplets remain, suspended for longer duration and thus ensure 100% sterile germ free and zero bacteria environment.

MODEL	CAPACITY
CSI-AD-15	1.5 Ltrs
CSI-AD-30	3.0 Ltrs

OPTIONS

- a) Automatic ON/OFF mechanical timer



CSI - 235

Humidifier S.S.Body

Based on the rotating disc-splash plate principal.
Unit produces only super fine particles of micron size, which become part of the atmosphere.
Produced particles thereby reaching every corner of the room, resulting in uniform humidity.
Due to the upward thrust imparted to the micron sized water droplets, by high speed motorized unit, they remain suspended in the atmosphere for longer duration of time.
Unit is capable of atomizing upto 3 liters of water in an hour at full evaporation in the driest possible ambient conditions.
Unit has body made up of stainless steel.
Unit is effective for an enclosed space of volume upto 40 cu. mtrs.
Provided with high speed 2800 RPM, motor to run longer period, and the blades are aerodynamically balanced to ensure dropless fumigation.

MODEL	RESERVOIR CAPACITY	ATOMIZATION CAPACITY
CSI-H-362	5.0 ltrs	3.0 ltrs/hr.

OPTIONS

- a) Control box with humidistat for controlling humidity.
- b) Automatic 0-60 min Mechanical ON/OFF timer.
- c) Automatic Digital Timer.



CSI - 236

Ultra High Driven Vacuum Pump

MODEL	DISPLACEMENT CAPACITY	OIL CAPACITY	MOTOR
CSI-UHVP-100	100 LPM	2 Liters	Single Phase
CSI-UHVP-250	250 LPM	2.75 Liters	Single Phase
CSI-UHVP-350	350 LPM	2.75 Liters	Single Phase
CSI-UHVP-500	500 LPM	3 Liters	Three Phase

OPTIONS

- a) Digital Vacuum Indicator with TRANSDUCER for Vacuum Indication.
- b) Moisture Trap for using P2O5/CaCl2/Silica Gel as desiccant.
- c) Anti suck back/non return valve.



CSI - 237

Rotary Vacuum Pump (Economy Model for General Laboratory Filtrations)

CSI - 238

SINGLE STAGE & DOUBLE STAGE

MODEL	DISPLACEMENT (LTRS/MIN.)	MOTOR CAPACITY	APPROX OIL CHARGE (Ltrs)
CSI-RVP-25(ECO)	25	0.25 HP	2.00
CSI-RVP-45(ECO)	45	0.25 HP	2.00
CSI-RVP-75(ECO)	75	0.25 HP	2.50
CSI-RVP-100(ECO)	100	0.50 HP	3.00
CSI-RVP-150(ECO)	150	0.50 HP	3.00
CSI-RVP-200(ECO)	200	1.00 HP	3.50
CSI-RVP-300(ECO)	300	1.00 HP	4.00
CSI-RVP-500(ECO)	500	2.00 HP	6.00

OPTIONS

- a) Anti-suck back valve/non-return valve.
- b) Moisture Trap.
- c) Vacuum Gauge with regulator.
- d) Vacuum Oil (Per Liter).



Rotary Vacuum Pump (Deluxe Model-For High Vacuum Applications)

CSI - 239

SINGLE STAGE & DOUBLE STAGE

MODEL	DISPLACEMENT (LTRS/MIN.)	MOTOR CAPACITY	APPROX OIL CHARGE (Ltrs)
CSI-RVP-50	50	0.25 HP	2.00
CSI-RVP-100	100	0.25 HP	3.00
CSI-RVP-200	200	0.50 HP	4.00
CSI-RVP-300	300	1.00 HP	4.00
CSI-RVP-500	500	2.00 HP	6.00

OPTIONS

- a) Anti-suck back valve/non-return valve.
- b) Moisture Trap.
- c) Vacuum Gauge with regulator.



Vacuum Pump / Compressor Oil Free Low Cost Economy Model

CSI - 240

Oil free Compressor / Vacuum Pump.
 Exclusive Oil free construction of Piston or diaphragm never requires lubrication.
 Continuously rated with built - in rugged motor - std. Single phase, optional Three phase.
 Most Versatile, Compact Compressor / Vacuum Pump.
 Permanently lubricated ball bearings.
 Practically maintenance free.
 Portable Light weight die - cast aluminium.
 Low noise level.
 Balanced eccentrics provide smooth, low vibration operation
 Built - in micro air filter.
 For acidic / alkaline gas application compressor / vacuum pumps offered with teflon coated wetted parts & teflon coated diaphragm.

MODEL	MAX. FLOW (Ltrs/min)	MAX. VACUUM (Inches Hg)	MAX. PRESS. (Pslg)	APPROX. Weight (Kg)	MOTOR HP
CSI-OFVP-(A)	15	22"	25	3.0	1/20
CSI-OFVP-(B)	15	22"	25	2.7	1/20
CSI-OFVP-(C)	15	27"	35	5.5	1/16
CSI-OFVP-(D)	25	22"	25	5.5	1/16
CSI-OFVP-(E)	45	22"	40	7.0	1/8
CSI-OFVP-(F)	45	27"	60	12.5	1/4
CSI-OFVP-(G)	75	22"	45	12.5	1/4
CSI-OFVP-(H)	15	22"	25	3.5	1/20
CSI-OFVP-(I)	45	22"	30	15.0	1/4
CSI-OFVP-(J)	30	22"	20	7.0	1/8

Standard oil free pump without enclosure, vacuum gauge and vacuum regulator.



Seed Blower (Dakota Blower)

It is use for testing docking and cleaning sample of Seed and Grain. Adjustable blower speed controller. Three Sets of imported transparent tubes, heavy casted high speed Dakota Blower fitted with ¼ H. P. Motor, Timer Facility.

MODEL	MOTOR CAPACITY
CSI-SB-383	1/4 H.P.

OPTIONS: Spare tube set for above.



CSI - 241

Seitz Filter

CSI-STZF-53	50 ml.	3.0 cm.
CSI-STZF-106	100 ml.	6.0 cm.
CSI-STZF-257	250 ml.	7.5 cm.
CSI-STZF-507	500 ml.	7.5 cm.
CSI-STZF-1014	1000 ml.	14.0 cm.
CSI-STZF-2014	2000 ml.	14.0 cm.



CSI - 242

Melting Point Apparatus

For determination of melting points up to 350°C. The mounted block is illuminated from below by a lamp fixed in its housing. The aluminium block accepts three capillary tubes and mercury thermometer. The temp is regulated by energy regulator fitted to the unit. The lamp provides uniform and shadowless regular fitted to the unit. Supplied without capillary tubes and thermometer.

MODEL	TEMPERATURE CONTROL
CSI-MP-403	Energy Regulator
CSI-MP-403(D)	Digital Temp. Indicator cum Controller



CSI - 243

High Precision Melting Point Apparatus Digital

Microprocessor Controlled (With Advanced A.R.P.T Technology) - A special feature of Auto gradient rate of heating control for high precision and accuracy.

Silicone Oil Bath Type (Model : CSI-HPMP-101(SO) (Suitable for any type of transparent/Dark coloured/Opaque Samples)

Visualization Technique : Suitable for Dark Colored / any colored samples. Silicone Oil Bath Heating Type, Temp. Range Up to 300°C, Suitable for Melting / Boiling Point, Readability in °C, Resolution 0.1°C, Programmable, Visual provision by: Optical Magnifier, Automatic Ramp Rate Proceeding, Auto Gradient Rate of Heating Control, Sample Capacity 3 samples. The unit consists of a built in magnetic stirrer, glare free background illuminator and cylindrical silicon oil bath. The silicon oil bath consists of a plain cylindrical container of corning glass having capacity of about 200 ml. It is furnished with a Teflon cover fitted with special type of oil immersion heater, having three small holes for holding the capillaries, one big hole for thermometer and another big hole for boiling point tube / Temp. Sensors for calibration purposes. A variable speed stirrer is fitted in it. The apparatus can be used for determination of boiling points, Temp. effect on viscosity / flow points and molecular weights by Rast's method with suitable accessories. Melting View : Magnifying display of melting operation with the help of adjustable magnifying glass, Melting point reading hold on by activating the "HOLD" key & reading is protected from power failure till "RESET" is not activated.



Miniature Furnace Type (Model : CSI-HPMP-101(MF) (Not Suitable for Dark coloured Opaque Samples)

System for measuring range upto 350°C with 4 digit LED display and a resolution of 0.1°C. Capillary dimension/bore 1.4 mm. Ramp Rate 2°C to 10°C per minute with selectable auto / low / high range. "Hold" Action (Melting Point Achieved) is protected from power failure as a standard feature. An air circulation fan for cooling of furnace is also a standard feature. Temperature at the melting point is latched and the furnace is cut-off automatically, giving an audio visual indication. The final reading remains displayed on the panel till the system is "RESET" for next operation. Sample Capacity : 1 Sample. OPERATION : Fully Automatic "Sample Fill and Forget" All the selection of programming is fully protected from power failure including "HOLD" action of melting temperature. Once the start action is initiated, it will reach to find out the melting point of sample, even multiple time power failure. Since it is a opto-coupled light transmission based system it is NOT SUITABLE FOR DARK COLOURED SAMPLES. The sample is required to be transparent at the time of melting.



Miniature Furnace Type (Model : CSI-HPMP-101(MF-LCD) (Suitable any type of transparent/Dark coloured Opaque Samples)

Do same as above model, but with 16 x 2 Line alphanumeric LCD display and in-built data storage memory of upto 100 samples With RS-232 communication port is fitted to system for logging data to your PC and processing the same to Excel Sheet. Special MELTING VIEW with illumination and magnifying display of the melting operation. (Most Suitable for all Dark Coloured / Any Colour Samples).



Option

a) Software (Option only for Model:CSI-MPA-101(MF-LCD) .

Glassware Dryer

MODEL
CSI-GD-36



CSI - 245

Automatic Pipette Washer

Recommended for serological, bacteriological or clinical laboratories. It operates on siphoning principal through continuous flow of water. Consists of stainless steel washing cylinder removable pipette holder to accommodate pipettes upto 375mm. in length. Consists of Stainless Steel (SS-304) washing Cylinder and a removable pipette holder for easy cleaning. Complete body and holder made of stainless Steel (SS-304)

MODEL
CSI-PW-405



CSI - 246A

Automatic Pipette Dryer

Made of S.S. Very efficient for drying Pipettes. A low voltage heater is fitted in base chamber. It takes Burettes, Columns and other glassware upto 375 m.m long. Suitable to operate on 220 Volts 50 cycles A.C.

MODEL
CSI-PD-406



CSI - 246B

Colony Counter Digital

Mounted in a CRC powder coated cabinet. Fitted with counting plate with illuminated standard wolfhugel ruling for differentiating defined colonies. Each touch of marking pen increments the colony count by 1, With 4 digit display for maximum colony count of upto 9999

MODEL
CSI-CC-408



CSI - 247A

Colony Counter Microprocessor

MODEL	CSI-CC-408 (MP)
Display	4 Digits LED
Range & Maximum Count	0-9999
Auto Saving Facility	Auto saved / retaining last value in case of power failure
Error Correction Facility	In case of accidental jumping of counts mistaken (By Counting Pen or By Manual error)
Preventive	Decrement (Lockable for each step)
Back Counting Error	Facility to avoid back counting error. Safe Guard to your Labour time Value
Dish Size	110 mm
Magnification	1.7
Power Supply	230 V ± 10% AC, 50 Hz

CSI - 247B



Rectangular Hot Plate

For Continuous Heating Upto 370OC, Body is made of specially designed CRC sheet duly powder coated or Stainless Steel. Top made of Mild Steel Plate or Stainless Steel (S.S 304) for longer life & temperature uniformity.

With Heating Platform Made of Mild Steel Plate

MODEL	CSI-RHP-1012(SS)	CSI-RHP-1016(SS)	CSI-RHP-1218(SS)	CSI-RHP-1824(SS)
HEATING PLATE SIZE	250x300mm	250x400mm	300x455mm	455x605mm
MOC (BODY)	M.S. Sheet Duly Powder Coated			
MOC (TOP PLATFORM)	Mild SteelPlate			
TEMP. CONTROL (OPTION)	Controlled through Energy Regulator or Digital Temperature Indicator cum Controller			



CSI - 248

With Heating Platform Made Of Stainless Steel Plate- Digitally Controlled

MODEL	CSI-RHP-1012	CSI-RHP-1016	CSI-RHP-1218	CSI-RHP-1824
HEATING PLATE SIZE	250x300mm	250x400mm	300x455mm	455x605mm
MOC (BODY)	M.S. Sheet Duly Powder Coated			
MOC (TOP PLATFORM)	Stainless Steel Plate (S.S.-304)			
TEMP. CONTROL (OPTION)	Through Microprocessor Based Digital Temperature Indicator cum Controller			



Hot Plate Round

For Continuous Heating Upto 370OC
Body is made of specially designed CRC sheet duly powder coated or Stainless Steel.
Top made of Mild Steel Plate or Stainless Steel (S.S 304) for longer life & temperature uniformity.

MODEL	CSI-HPRS-8	CSI-HPRD-8	CSI-HPRS-8(D)	CSI-HPRD-8(D)
HEATING PLATE SIZE	20 cm(Single Plate)	20 cm(Double Plate)	20 cm(Single Plate)	20 cm(Double Plate)
TEMP. CONTROL	Energy Regulator	Energy Regulator	Digital Temp. Indicator-cum-Controller	Digital Temp. Indicator-cum-Controller

CSI - 249



Slide Warming Table

Very useful for heating slides to a uniform constant temperature below the melting point of wax.
Top surface made of Stainless Steel (SS-304 grade)
The surface temperature is controlled from ambient to 70OC
Supplied complete with pilot lamp, cord and plug but without thermometer.

TYPE	HEATING PLATE SIZE	TEMP. CONTROLLER
CSI-SWT-426	600 x 1500 mm	Hydraulic Type Capillary Thermostat
CSI-SWT-426(D)	600 x 1500 mm	Microprocessor based Digital Temperature Indicator cum Controller

CSI - 250



Heating Mantle

MODEL	CAPACITY	RATING
CSI-HM-500	250/500 ml	200 W
CSI-HM-1	1 Ltr.	300 W
CSI-HM-2	2 Ltr.	450 W
CSI-HM-3	3 Ltr.	500 W
CSI-HM-5	5 Ltr.	600 W
CSI-HM-10	10 Ltr.	2 x 600 W
CSI-HM-20	20 Ltr.	3 x 600 W

CSI - 251



Kjeldahl Distillation Unit

Mantle Type heating system.
This is very useful for distillation purpose for 300ml. and 500ml. Capacity flasks.
Provided with condenser rack.
Rating of each test 200 Watts.
Supplied with or without Glass Parts & Clamps. (as ordered)

MODEL	CAPACITY	MAINFOLD	HEATING SYSTEM	RATING EACH TEST
CSI-KDIS-4323	500 ml	Unit of 3 tests	Mantle Type	200 Watts
CSI-KDIS-4326	500 ml	Unit of 6 tests	Mantle Type	200 Watts

CSI - 252



Kjeldahl Digestion Unit

Mantle Type heating system.
It is very useful for estimation of Nitrogen content in the substance by digestion for 300 & 500ml capacity flasks.
Provided with FUME DUCT and pair of hangers.
Rating of each test : 200Watts.
Supplied with or without Glass Parts & Clamps

MODEL	CAPACITY	MAINFOLD	HEATING SYSTEM	RATING EACH TEST
CSI-KDIS-4333	500 ml	Unit of 3 tests	Mantle Type	200 Watts
CSI-KDIS-4336	500 ml	Unit of 6 tests	Mantle Type	200 Watts

CSI - 253



Kjeldahl Distillation & Digestion Combined Unit

Mantle Type heating system, Supplied complete with two sets of Mantle type heating platforms, one for distillation and one for digestion, Supplied complete with condenser rack, FUME DUCT and pair of hangers.
Complete set up is supplied on a M.S. Tubular stand, Both units are supplied with individual energy regulators,
Rating of each test : 200 Watts, Supplied with or without Glass Parts & Clamps.

CSI - 254

MODEL	MAINFOLD	HEATING SYSTEM	RATING EACH TEST
CSI-KDIS-4343	Unit of 3 tests	Mantle Type	200 Watts
CSI-KDIS-4346	Unit of 6 tests	Mantle Type	200 Watts



Micro Kjeldahl Digestion Unit

CSI - 255

Mantle Type heating system.
Used for estimation of nitrogen content in micro flasks of capacity 30, 50 & 100ml.
The housing is made of mild steel painted with attractive stove enamel.
Supplied with or without glass parts & clamps.

MODEL	CAPACITY
CSI-MKDU-3	Unit of 3 tests
CSI-MKDU-6	Unit of 6 tests



Soxhlet Extraction Unit

CSI - 256

Mantle Type heating system.
Ideal heater for the extractors of Soxhlet and other types.
Suitable to heat soxhlet flasks of 50-500ml.
Consists of mild steel sheet housing, two vertical & two horizontal rods with adapters and screws to hold the flasks.
Rating of each test : 200 Watts.
Supplied with or without Glass Parts & Clamps.

MODEL	CAPACITY	MAINFOLD	HEATING SYSTEM	RATING EACH TEST
CSI-SEU-4323	50-500 ml	Unit of 3 tests	Mantle Type	200 Watts
CSI-KDIS-4326	50-500 ml	Unit of 6 tests	Mantle Type	200 Watts



Kjeldahl Dry Block Digestor

CSI - 257

KJELDAHL is the most accepted method for digestion/mineralisation system by humidity, for the determination of Nitrogen/Protein in substances such as soil samples, nourishing products, feeds, fertilizers, vegetable grain, beer, meat sauces, water petroleum, etc

MODEL	BLOCK DIMENSIONS (LXWXD)	NO. OF CAVITIES	TEMPERATURE CONTROL
CSI-DBG-437	300mmx 200mm x 80mm	40 Holes	From Ambient +5 °C to 450 °C by Microprocessor Based Digital Temperature Indicator-cum-Controller
CSI-DBG-437 (SAD)	300mmx 200mm x 80mm	40 Holes	From Ambient +5 °C to 450 °C by Microprocessor Based Digital Temperature Indicator-cum- Controller with in-built timer



Dry Bath Incubator Heating Block Incubator

CSI - 258

Dry Heating Block Incubators are powerful, compact and accurate everything you need for the precision heating of test tubes, cuvettes, micro centrifuge tubes and other small containers.

MODEL	BLOCK DIMENSIONS	NO. OF CAVITIES	TEMPERATURE CONTROL
CSI-DBI-4381	96mm (L) x 96mm (B) x 49mm (H)	1	From Ambient +5 °C to 150 °C by Microprocessor Based Digital Temperature Indicator-cum-Controller with in-built timer

OPTIONS

a) Spare aluminium Insert Block of size : 96x96x49mm (any configuration).

DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION	DESCRIPTION
49xø6mm	25xø12mm	16xø15mm	12xø19mm	9xø26mm	49xø0.5ml tubes
49xø7mm	25xø13mm	12xø16mm	16xø19mm	4xø28mm	25xø1.5ml tubes
25xø10mm	12xø15mm	16xø16mm	9xø20mm	4xø40mm	25xø2.0ml tubes



C.O.D Digestor (With Auto Time Controlled Semi-Automatic Controller)

CSI - 259

COD Digestor Is The Most Accepted Thermoreactor For Determination of Chemical Oxygen Demand in Various Substances. Chemical Oxygen Demand (COD) is a measure of the capacity of water to Consume Oxygen during the decomposition of Organic Matter and the Oxidation of inorganic chemicals such as Ammonia and Nitrite. COD Measurements are commonly made on samples of waste water or of Natural waters contaminated by domestic or industrial wastes. Chemical Oxygen Demand is measured as a standardized laboratory assay in which a closed water sample is incubated with a Strong Chemical Oxidant under specific conditions of temperature and for a particular period of time.

MODEL	BLOCK DIMENSIONS	NO. OF CAVITIES	TEMPERATURE CONTROL
CSI-COD-439	270mm x 150mm x 70mm	15 Holes to accomodate 15 Samples	From Ambient +5 °C to 150 °C by Microprocessor Based Digital Temperature Indicator-cum-Controller with in-built timer

OPTIONS

- Spare digestion tube with condenser
- Spare digestion rack of 15 tubes.



Microslide Cabinet (Closed Pack Manner)

CSI - 260

For storing 3" x 1" slides in vertical position one after the other in a closed pack manner, Made of steel duly painted. Each tray made of steel moves in a slot and is completely removable for easy lifting, Complete with lock and key.

MODEL	CSI-MSCP-5K	CSI-MSCP-10K	CSI-MSCP-25K	CSI-MSCP-50K	CSI-MSCP-100K
CAPACITY	5000 Slides	10000 Slides	25000 Slides	50000 Slides	100000 Slides



Microslide Cabinet (Horizontal Manner)

CSI - 261

Mild steel storing cabinet, duly painted, Most suitable for strong of 3"x1" slides in horizontal manner. Each moulded tray holds slides in horizontal manner, Fitted with handle, lock and key.

MODEL	CSI-MSHM-1K	CSI-MSHM-2K	CSI-MSHM-3K	CSI-MSCP-5K	CSI-MSHM-10K	CSI-MSHM-20K
CAPACITY	5000 Slides	2000 Slides	3000 Slides	3000 Slides	10000 Slides	20000 Slides



Block Cabinet

Body and drawers are made of Mild Steel Sheet duly enamel painted. Drawers are fitted with index card holders. Fitted with smoothly working handle, lock and key.

MODEL	CSI-BCB-2K	CSI-BCB-5K	CSI-BCB-10K	CSI-BCB-20K
CAPACITY	2000 Slides	5000 Slides	10000 Slides	20000 Slides



CSI - 262

U.V. Transilluminator

provides our molecular scientist the SOLO and DUAL TRANSILLIMINATOR the basic requirements to meet daily experiments with stable performance and competitive price.

MODEL	FILTER SIZE	WAVE LENGTH	INTENSITY	TUBES	SAFETY
CSI-SOLO-490	21x26cm	312nm	Variable	6x8 watts	U.V. Shield
CSI-DUAL-490	21x26cm	312/365nm	Variable	9x8 watts	U.V. Shield

OPTIONS

- Spare Tube 254nm.
- Spare Tube 312nm.
- Spare Tube 365nm.



CSI - 263

Electrophoresis Power Supply Digital (Constant Voltage-Constant Current)

CSI - 264

- Delivers a current of any value between 1-100 volts mA (500 volts max.), in a constant current mode.
- Delivers a voltage of 0-500 volts (100mA max.), in constant voltage mode.
- Fitted with separate meters for voltage and current.
- All supplies are short circuit and overload protected.

MODEL
CSI-EPS-496



Bomb Calorimeter (Digital)

CSI - 265

Designed as per fundamental Standards : BS-1016 - Part 5 (1967), BIS-1350 - Part 2 and IP - 12/63T. Bomb of capacity 300 ml and circular made of corrosion resistant stainless steel alloy. Supplied complete with water jacket, regulating valve, safety valve, Digital Beckman Thermometer, Stirrer and set of standard accessories.

TYPE	CAPACITY	OXYGEN CYLINDER
CSI-BC-506	300 ml	X
CSI-BC-506(OC)	300 ml	☑



Bomb Calorimeter (Fully Automatic Microprocessor Controlled)

CSI - 266



TYPE	CAPACITY	OXYGEN CYLINDER
CSI-BCMP-506	300 ml	X
CSI-BCMP-506(OC)	300 ml	☑

OPTIONS

- Thermal Printer Interface for taking final prints.
- Communication port for Logging Data to PC.

Ultra Violet Fluorescence Analysis Cabinet

CSI - 267

For visualization of test objects under U.V. tubes having long wavelength (365 n.m.) and short wavelength (254 n.m.) as desired.
A fluorescent tube is fitted to the unit for day light visualization.
Supplied with three tubes.



MODEL
CSI-UVC-508

Cadaverous Injector

CSI - 268

Unit is fitted with one air compressor and a 1/2 H.P. motor which is connected with a S.S. tank of 10-litre capacity. The tank is meant for storing and injecting the formaldehyde solution in Cadverous at much higher speed than normal gravity process. Tank is fitted with a safety valve, pressure gauge and rubber tubing having provision for injection. Fully covered unit mounted on four castor wheels for easy movement. Complete with Cord & Plug.



MODEL
CSI-CI-519

PH Meters Digital

CSI - 269D

4 digits LED display and Manual Temperature Compensation with 3 points PH Calibration (4.00, 7.00 and 9.20 pH). Au pH calibration with Auto Buffer Recognition, Automatic Slope correction : 60% to 140% User friendly menu driven (easy to operate with Soft Touch Keys), Power Supply : 230 V ± 10%, 50 Hz AC.

RANGE		TEMPERATURE	RESOLUTION		TEMPERATURE
pH	mV		pH	mV	
0-14pH	0+2000mV	0°C ~ 100°C	0.001pH	1 mV	0.1°C

Model CSI-278(ATC) with Automatic Temperature Compensation.



PH Meters Microprocessor Based (Soft Touch Membrane Keys)

CSI - 269M

16 x 2 Line Alphanumeric LCD display with Automatic Temperature Compensation, temperature indication, auto and manual points pH calibration (4.00, 7.00, 9.20, and 12.45 pH) with AUTO BUFFER RECOGNITION. Auto pH calibration with Automatic Slope correction : 6 % to 14 % User friendly menu driven (easy to operate with Soft Touch Keys), Power Supply : 230 V ± 10%, 50 Hz AC Supplied complete with combined pH electrode, temperature probe, electrode stand, buffer solution, dust cover and manual.

RANGE		TEMPERATURE	RESOLUTION		TEMPERATURE
pH	mV		pH	mV	
0-14pH	0+2000mV	0°C ~ 100°C	0.001pH	1 mV	0.1°C

Model : CSI-278 LCD, Advance Model having in-built data logging facility to record 2000 results . An integrated RS-232 communication port is also fitted to system for logging data to your PC and processing the same to excel sheet. Dedicated software (Optional) to cost

OPTION

- Dedicated data logging software (only for Model CSI-278 LCD).
- Ph Electrode (Combined).
- Epoxy Comb. Electrode.
- Platinum Electrode (O.R.P).



Potentiometer Digital (For Redox-Potential Measurement)

CSI - 270

Range 0 to ± 199.9 mV, 0 to ± 1999 mV, Resolution 0.1 mV, Repeatability ± 1 mV, Accuracy ± 1 mV ± 1 Digit, Input Impedance $> 10^{12}$ Ohms, Display 4 Digit, Power Supply 230 V $\pm 10\%$, 50 Hz AC. Supplied with O.R.P. Electrode (Platinum Electrode), Electrode Stand, Dust Cover and Manual.

OPTION

- a) Platinum Electrode (O.R.P)



Conductivity Meter - Microprocessor Based (Soft Touch Membrane Keys)

CSI - 271

Model : CSI-280 With 4 digits LED display and Manual Temperature Compensation Key Board : Soft Touch Switches, Cell Constant : Adjustable (0.05 - 10.5), Temperature Co-Eff. : Adjustable (0.1% - 4.0%), User friendly menu Power

Supply : 230 V $\pm 10\%$, AC

Auto Range Selection : Conductivity: 0-1000ms, (0-200u, 2m, 20m, 200m & 1000m), Temp.: 0-100 °C

Resolution : Conductivity : 0.01/ 0.1 micro Siemens,

Model : CSI-280 (ATC) Detail same as model CSI-280 but with automatic temp. compensation.

Model : CSI-280 LCD 16 x 2 line alphanumeric display with automatic. temp. compensation.

Model : CSI-280 LCD-PC Same as CSI-280 but Advance Model having in-built data logging facility to record 2000 results . An integrated RS-232 communication port is also fitted to system for logging data to your PC and processing the same to excel sheet. Dedicated software (Optional) to cost extra.

OPTION

- a) Dedicated data logging software (only for Model CSI-280 LCD-PC)



Conductivity / T.D.S./ Salinity/Temperature Meter

CSI - 272

Digital / Microprocessor Based (Soft Touch Membrane Keys)

Model : CSI-281 With 16 x 2 Line Alphanumeric LCD display with Automatic Temperature Compensation and temperature Indication. Key Board : Soft Touch Switches, Cell Constant : Adjustable (0.05 - 10.5), Temperature Co-Eff. : Adjustable (0.1% - 4.0%), User friendly menu Power Supply : 230 V $\pm 10\%$, AC Auto Range Selection : Conductivity: 0-1000ms, TDS : 0-1000ppt, Salinity : 0-1000ppt, Temp.: 0-100 °C Resolution : Conductivity : 0.01/ 0.1 micro Siemens, TDS : 0.01/ 0.1 ppm, Salinity : 0.01/ 0.1 ppm, Temp.: 0.1°C Range : (0 -200u, 2m, 20m, 200m & 1000m), T.D.S. : 0 to 200 ppm, 2ppt, 20ppt, 200ppt, 1000 ppt., Salinity : 0 to 200 ppm, 2ppt, 20ppt, 200ppt, 1000 ppt Temp. Range : 0 to 100°C.

Model : CSI-281 LCD-PC Detail same as Model : CSI-281, but Advance Model having in-built data logging facility to record 2000 results . An integrated RS-232 communication port is also fitted to system for logging data to your PC and processing the same to excel sheet. Dedicated software (Optional) to cost extra.

OPTION

- a) Dedicated data logging software(only for model CSI-281 LCD-PC).
- b) Conductivity Cell 1.0 K
- c) Conductivity Cell 0.5K
- d) Temperature Probe.



T.D.S. Meter Digital - Microprocessor Based (Soft Touch Keys)

CSI - 273

Model : CSI-282 With 4 Digits LED Display and Manual Temperature Compensation, Range : 0 to 200 ppm , 2 ppt, 20 ppt, 200 ppt, 1000 ppt.

Model : CSI-282 (ATC) With 4 Digits LED Display and Automatic Temperature Compensation, Range : 0 to 200 ppm, 2 ppt, 20 ppt, 200 ppt, 1000 ppt.



Salinity Meter Digital Microprocessor Based (Soft Touch Keys)

CSI - 274

Model : CSI-283 With 4 Digits LED Display and Manual Temperature Compensation,
Range : 0 to 200 ppm , 2 ppt, 20 ppt, 200 ppt, 1000 ppt.

Model : CSI-283 (ATC) With 4 Digits LED Display and Automatic Temperature Compensation
Range : 0 to 200 ppm , 2 ppt, 20 ppt, 200 ppt, 1000 ppt.



Dissolved Oxygen Meter Microprocessor Based

CSI - 275

Model : CSI-284 (CCD) With 16x2 alphanumeric LCD display, simultaneous display of DO & Temperature.
Data storage facility up to 700 samples. Resolution:0.1 ppm, Accuracy : ± 0.2 ppm,Temp. Comp.-Auto / Manual 0 to 50°C, RS232, Power Supply:230 V ± 10% AC, 50 Hz. Complete with Gold/Silver type D.O. Probe, Temp. Sensor, D.O. Membrane 30 No.

OPTION

- a) Dedicated data logging software



Turbidity / Nephelo meters (LED Model)

CSI - 276

MODEL	CSI-TM-101
Display	4 Digits LED Display
Detector	Photocell/Photodiode
Range	0 to 200, 1000 NTU/JTU
Resolution	1 NTU/JTU
Accuracy	± 1% FS ± 1 Digit,
Sample System	30 mm clear Glass Test Tube
Power Supply	230 V ± 10%, 50 Hz AC.
Light Source	High Intensity L.E.D. Reflective Lamp of selective Wave Length (To avoid self heating of solution/Instruments due to Tungsten Lamp causes drift & changes in kinetic properties during measurement), Testing under normal / cooled atmosphere.



A Detail same as model CSI-TM-101(M) but with 16x2 line alphanumeric LCD display with range 0 to 20, 200, 100 NTU/JTU (Automatic range selection), Resolution : 0.1, 1NTU/JTU, Accury +1% FS +1digit

OPTION

- a) Test Tube Set of 5.
b) Spare LED reflective lamp.
c) Dedicated data logging software {only for Model #TM-101(LCD)}.

Photo Colorimeter - Microprocessor Based (LCD Model)

CSI - 277

With Auto Zero Facility, Display : 16 x 2 alphanumeric display, Wavelength Range:400 - 700 nm, % Transmission:0 to 100% T, Absorbance: 0 to 1.99 A, Resolution : 1% T, 0.01 Abs, Key Board: Single Key Soft Touch, Auto Zero Facility : Available, Light Source:6.8 V, 0.3 Amp., Tungsten Lamp, Sample System: 10 mm path length matched glass test tubes, Minimum Sample Volume:1 ml., Filters :400, 420, 480, 500, 520, 540, 620, 680 nm, Power Supply : 230 V AC ± 10%, 50 Hz.



Pyrogen Testing Instruments With Six Rectal Probes

CSI - 278

Tele Thermometer - Microprocessor Based Simultaneous Display of all 6 Channels LCD Model. with 16x2 line alphanumeric LCD display with resolution of 0.1°C & Accuracy of +1% FS+1 digit. Measure temperature range from 30°C to 45°C with the help of Grade "A" PT-100 platinum sensor. Suplied with 6 nos. of veterinary probes with RS-232 interface with the help of windows based dedicated software for transferring the data to PC. Operates on 220 V AC+10%, 50Hz .

- a) Dedicated data logging software.
b) Spare Veterinary Sensor Probe.



Soil Thermometer - Microprocessor based

CSI - 279

Tele Thermometer - Microprocessor Based Simultaneous Display of all 6 Channels LCD Model. with 16x2 line alphanumeric LCD display with resolution of 0.1°C & Accuracy of +1% FS+1 digit. Measure temperature range from 32°C to 45°C or 0°C to 100°C with the help of PT-100 platinum sensor (optional). with RS-232 interface with the help of windows based dedicated software for transferring the data to PC. Operates on 220 V AC+10%, 50Hz.



OPTION

- a) Dedicated data logging software
- b) Soil Probs (All probs are supplied with 3 meter cable length).

PROB LENGTH | 10 cms | 20 cms | 30 cms | 40 cms | 50 cms | 1 mtr.

Portable Soil & Water Analyser Kit

CSI - 280

SPECIAL FEATURES IN MICROPROCESSOR KITS	
Storage	1000 Samples with Date & Time
Error Indicator	pH Error, Buffer Error, ORP Error
Interface	Yes
Real Time	24 Hour Mode with Date
Digital Output	Serial RS-232 & Parallel Centronics.
Print Format	All Data-Date Wise

Model: CSI-289 (7P) Water & Soil Analysis Kit Microprocessor Based (7 Parameters) Ph, mV. (ORP), Conductivity (E.C.), T.D.S., Temperature, D.O. Salinity. Soft touch keys with 16x2 line alphanumeric display. Mains cum Battery operated with rechargeable cell, at least 8 hours working after Single full recharge. Fitted in brief Case, Useful for field and as well as Laboratory use.

Model : CSI-289 (8P) Water & Soil Analysis Kit Microprocessor Based (8 Parameters) Specifications same as Model : CSI-289 (7P) but with 8 parameters (pH, mV./ORP), Conductivity (E.C.), T.D.S., Temperature, D.O., Salinity and turbidity

OPTION

- a) ORP Electrode (Platinum Electrode)
- b) Dedicated data logging software



Automatic Voltage Stabilizer

CSI - 281

Single phase, input 180-260 Volts and output 195 Volts - 240 Volts.

MODEL | 0.5 KVA | 1.0 KVA | 2.0 KVA | 3.0 KVA | 4.0 KVA | 5.0 KVA | 6 KVA | 8 KVA | 10 KVA

OPTIONS

- a) Low and high Voltage trip with time delay (Option available for only upto 5.0 KVA capacity).
- b) High Voltage Trip with MCB (for 5.0 KVA and above).



Servo Controlled Voltage Stabilizer

CSI - 282

Single phase, input 160-260 Volts and output 220 Volts - 240 Volts.

MODEL | 1.0 KVA | 2.0 KVA | 3.0 KVA | 4.0 KVA | 5.0 KVA | 7.5 KVA | 10.0 KVA | 15.0 KVA



Overhead Projector Deluxe Twin Lamp Model

CSI - 283

Model : CSI-OHP-292 Supplied with writing pack, A-4 Plain transparent Sheet (25 Nos.), Glass Fuse (2 Nos.) Dust cover as a standard accessories

OPTIONS

- a) Projection Screen 70"x50" (on Tripod Stand).
- b) INSTA-LOCK SCREEN (Wall/Roof Mounting).
- c) OHP Trolley with castors.
- d) Electronic Laser Pointer (Battery Operated).



Soil Tensiometer

CSI - 284

PROB LENGTH	CSI-ST-15	CSI-ST-30	CSI-ST-45	CSI-ST-60	CSI-ST-75	CSI-ST-90
SIZE	15cm	30cm	45cm	60cm	75cm	90cm

OPTIONS

- a) Tensiometer insertion coring tool.
- b) Spare ceramic tip.
- c) 'O' ring for tensiometer cup.



Semi Automatic Corcyra Rearing System

- The unit has total 13 trays of size 18" X 18" X 2.4".
- Made out of 20 gauge PCRC sheet.
- Trays are mounted in a frame made out of heavy wall square pipe of size 19 mm X 19 mm.
- Whole unit is mounted in castor wheels for easy mobility.

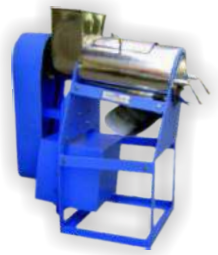


CSI - 285

Pulper Machine

Designed for extracting the pulp of most fruits and vegetables such as mangoes, guavas, peaches, tomatoes, banana etc. Mounted on a heavy duty mild steel stand. Central pulping unit of the machine consists of a pair of brushes fixed on stainless steel shaft and one stainless steel sieve. Gap between the sieve and the brushes can be adjusted to suit different types, sizes and qualities of the product to be pulped. Sieve is available in perforations of different sizes. Sieve is easily removable for quick interchanging and cleaning. All contact parts are of S.S.-304 grade stainless steel.

CSI - 286



MODEL	CAPACITY	MOTPR CAPACITY
CSI-PPM-100	100 Kg/hr.	1/2 H.P.
CSI-PPM-200	200 Kg/hr.	1/2 H.P.
CSI-PPM-300	500 Kg/hr.	1.0 H.P.

Fruit Crusher (Crushing Machine)

Suitable for crushing stoneless fruits and vegetables. Machine is mounted on a heavy duty mild steel stand equipped with motor and starter. Material is fed into the stainless steel hopper which feeds the product into the crushing drum, which consists of stationary blades and rotary beater which crushes the loaded product.

CSI - 287



MODEL	CAPACITY	MOTOR CAPACITY
CSI-FC-100	100 Kg/hr.	0.5 H.P.
CSI-FC-200	500 Kg/hr.	1.0 H.P.

Juice Press (To Extract Juice From Crushed Fruits)

Hand-operated unit available with or without a hydraulic pump of capacity 5 tones. Mounted on very heavy base and pillars alongwith hand screw arrangement. Supplied with TEAK WOOD circular plank held together with stainless steel strips. Thick M.S. base tray lined with stainless steel is provided with the unit. Unital press for extracting juice from apples, pineapples, carrots, ginger, grapes etc.

CSI - 288



MODEL	TYPE
CSI-JP-613(SC)	Hand screw bucket press
CSI-JP-613(HY)	Hydraulic juice press

Steam Jacketed Kettle

Used for batch heating and cooking of various food products. Mounted on a heavy duty mild steel stand with tilting arrangement. Jacket and pan both are made of high quality S.S.-304 grade stainless steel of heavy gauge. Ten pan is 2 / 3 jacketed for maximum steam utilization and efficiency.

CSI - 289



MODEL	CAPACITY
CSI-SJK-10	10 Gallons (45 ltrs.)
CSI-SJK-25	25 gallons (110 ltrs.)
CSI-SJK--50	50 gallons (225 Ltrs.)

Bottle Filling Machine Volumetric

Suitable for accurate filling of liquids like medicines, syrups, ketchup, solutions etc in bottles. Machine consists of two / four filling heads with vacuum pump. With 1/2 H.P. motor. All contact parts are of stainless steel

CSI - 290



MODEL	HEAD	CAPACITY
CSI-BFM-2	2	20/25 bottles/min.
CSI-BFM-4	4	40/45 bottles/min.

Pharmaceutical Equipment

Tablet Dissolution Rate Test Equipment

- a) single test unit
- b) single test unit (fitted with digital rpm meter)
- c) three test unit : with digital rpm meter, digital temperature indicator-cum-controller, digital on/o fftimer with buzzer and mounted lifting arrangement.
- d) do- but six test unit

Optional

- a) Spare unbreakable Vessel .



CSI - 291

Tablet Disintegration Test Machine (I.P.STD.1985)

Tablet Disintegration Machine is used for testing the disintegration time for tablets, capsules, and other solid dosage forms. Tablet Disintegration Machine is designed to meet the specifications of USP/IP/BP pharmacopoeia.

Product Description:

- a) Single Basket
- b) Double Basket
- c) Four Basket

Optional

- a) Water bath instead of hot plate
- b) do- but digitally controlled
- c) Digital time totalizer (9hrs, 59 min, 59sec)
- d) Spare basket
- e) Hanger for basket
- f) Glass tube
- g) Spare disc



CSI - 292

Friability Test Equipment

Friability Tester measures the potential percent weight loss of compressed tablets. It replicates the rigorous environmental conditions that tablets are subjected to during the manufacturing, packaging, and distribution processes.

- a) Single Drum
- b) Double Drum

Optional

- a) Digital Revolution Counter.
- b) Spare drum to cost extra.

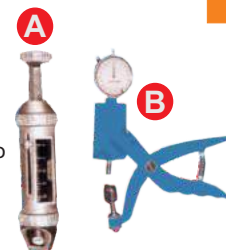


CSI - 293

Tablet Hardness Tester

A. Tablet Hardness Tester (Monsanto type): Useful to take quick readings from 0-20 Kg pressure for hardness. The equipment is made of brass and richly chrome plated. The index and division of reading is 0.1 Kg. Completed in box.

B. Tablet Hardness Tester (Pfizer Type): Complete with dial guage. Powder coated machine parts. Useful to take quick readings on dial, more accurate in grammes. All contact parts made of Stainless steel 0 - 20 Kg



CSI - 294

Capsule Filling Machine

The manual capsule filling machine is widely used in research laboratories, academic institution and medium to small scale manufacturing industries.

You have the option of buying an Automatic Capsule Loading Machine, which speeds up the production activity, as the maximum time taken is for the loading of capsules manually on the loading trays of the capsule filler

100 Holes for filling 100 capsules



CSI - 295



Collapsible Tube Filling Machine

Suitable to fill tubes, cans, bottles, can etc. in the range if 100,250,500 gms per stroke can be used for paste, paints, creams, ointments jelly and honey. These units are supplied 3 sets of standard nozzles include vertical filling attachment for jar and bottles.

Hand Operated



CSI - 296

Tube Crimping & Sealing Machine

Suitable for crimping and coding Aluminium and collapsible tubes.

Available in hand and foot operated models.

Accessories: SS made metallic fonts (A to Z, 0 to 9)

Portable compact (weight: 7 kg) model.

Easy to use, no maintenance required.

Speed: Up to 30 tubes per min.

Crimping size: as required



CSI - 297

Suppository Mould

- a) 4 Holes
- b) 6 Holes
- c) 12 Holes



CSI - 298

Tablet Coating Pan

12" Dia, Stainless Steel: The machine is worked by oil immersed gearbox with 1/4 H.P. motor driven, or by heavy duty DC geared motor. Air blower is operated independently and air is thermostatically controlled to give temperature 30Å° to 110Å°C. Switches for motor & blower are fixed on a panel with neon indicators. Also mains lead with 15 Amp plug provided

- a) Tablet Coating Pan With Hot Air Blower (12" Dia)
- b) Polishing pan (12" dia) only for use with above unit

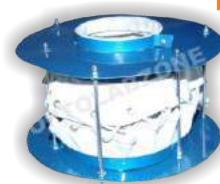


CSI - 299

Tablet Polishing Pan

It works as a substitute for Tablet Coating Pan. You can easily remove Coating Pan and attach the Polishing Pan. Canvas cloth covered.

Outer O.D. : 12"
Length : 6"
Inner I.D. : 8"



CSI - 300

Conical Percolator

Conical Percolator(S.S) / Infusion Pot:
Special Model - With Heavy Gauge
Made of S.S mounted on M.S stand with stop cock on one end.

Material: SS
Shape : Conical



CSI - 301

Ampoule Clarity Test Equipment

Black & white screen fitted on a base board with light arrangement. An adjustable side-arm has been provided with clamp for holding a magnifier for easy and magnified viewing during process.

Most suitable for Ampoule Clarity Test Equipment



CSI - 302

Tablet Making Machine

Single punch for making tablets upto 1000 mg. and as per size of the punch 12mm. Maximum Weight of Tablet is 1gm. Built on heavy cast body with acentric pressure system. Stainless steel hopper provided and connected by a rubber tube. Easy setting for thickness and hardness of tablets with nuts and lock nuts, set of two spanners provided as necessary tool die. Heavy duty. Production Capacity depends on the Working efficiency/speed of the Operator, as it is manually operated machine.

Minimum Dia of Tablets: 6mm (Die Price Extra)
Maximum Dia of Tablets: 9mm (Die Price Extra)

- a) Tablet Making Machine (Hand Operated)
- b) Motorised (Electrically operated)



CSI - 303

Continuos Hot Extraction Equipment

Mantle Type heating system.
Ideal heater for the extractors of Soxhlet and other types.
Suitable to heat soxhlet flasks of 50-500ml.
Consists of mild steel sheet housing, two vertical & two horizontal rods with adopters and screws to hold the flasks.
Rating of each test : 200 Watts.
Supplied with or without Glass Parts & Clamps.

- a) Unit of three test (Without Glass Parts and Clamps)
- b) Unit of six test (Without Glass Parts and Clamps)



CSI - 304

Tablet Counting Shovels

- A. Made of Aluminum. Properly anodized.
- For counting 100 Capsules
- B. Made of St. Steel 304 Quality (GMP Model)
- For counting upto 100 Capsules



CSI - 305

Tincture Press

We further offer a range of Tincture Press, which is conceptualized for separation of marc of herbs and extracts made by percolation / maceration / extraction of herbs & solvents by pressing method. The unit consists of double chamber that includes a plunger pressing plate of approx. 1/2 inch of thickness, supposed to move inside the chamber with the support of hand operated mechanical rotation pressing system. The unit is further attached with an outlet valve. The whole assembly is mounted on heaving M.S. base stand with M.S. / S.S. sieve for filtration purpose.

Cap. 1kg. (Contact Part Of S.S.)



CSI - 306

Hand Grinding Mill

Complete on metallic stand having adjustable arrangement for making coarse & fine powder.

Table clamping model



CSI - 307

Disintegrator Machine

The high quality range of Industrial Disintegrator manufactured and supplied by us finds huge demand in the market, and has helped us muster a huge client base. Heavy-duty mild steel procured from trusted vendors is used in manufacturing the body of these machines. Disintegrator offered by us is a high powered machine, which is used for grinding or cutting hard material into smaller fragments or pieces.

For Disintegration of soft dry plants & herbs



CSI - 308

Mixing Vat

Agitating tank is suitable for labs in industries to we agitate slurry materials, allowing ore particles to suspend and to fully contact with reagent before being mixed evenly and creating conditions for separating operation. Leaching tank is used for wet leaching agitation with central aeration, step less adjustment of inverter and other features. The product is produced by the only enterprise designated by the former Ministry of Geology and Mineral Resources, in compliance with the Industrial standards

With Stirrer With ¼ H.P. Motor



CSI - 309

Liquid Filling Machine

(Volumetric) Filling capacity approximately 500 bottles/hour

- Outer body, all vales & contact parts made up of Stainless Steel. Fitted with ½ H.P. HEAVY DUTY MOTOR.
- Available in DOUBLE HEAD MODEL to fill any liquid from (while placing order please mention the filling capacity)
 - (a) 10ml to 100ml (b) 100ml to 250ml.
- To work on 220 volts A.C. Supply



CSI - 310

Student Jar Bath Thermostatic

Isolated organ bath are used to study effect of drug/chemical substances on isolated tissues in vitro. Orchid's isolated tissue/organ bath systems are designed for in vitro investigations on isolated smooth, cardiac or skeletal muscle preparations. Orchid's isolated organ bath systems are available as 1, 2, 4 or 8 channel system and used in pharmacological research

Student Jar Bath Thermostatic



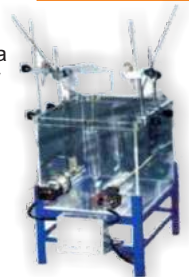
CSI - 311

Double Unit Organ Bath Thermostatic

A Perspex organ bath with fine thermostatic temp control, electric stirrer and complete set of accessories, making it a versatile unit for all research work. Bath 12"x9"x8", with leak proof dovetailed joints, resting in sturdy metal frame; top of the bath carries a 1"x3/8" thick band, for fixing accessories, inside the bath is a metal sheathed heating element (easily replaceable), controlled by means of a fine adjustable thermostat with sensitivity + 10C. The stirrer unit is completely independent and dips in the bath in one corner, fixing on its special stainless steel upright. AMS junction box is fitted to the bath frame, and carries all the electrical leads and connections, two pilot lamps indicate functioning of the thermostat and stirrer. Standard components are: -

- Double set of glass inner vessels
- Oxygen tubes
- Warming coils
- Two SS capillary levers
- Four SS uprights with boss heads

Double Unit Organ Bath Thermostatic



CSI - 312

Stop Watch

Stop Watch (1/10th Second)



CSI - 313

Granulation Sieves

For Sieves analysis



CSI - 314

Aseptic Cabinet

Most useful for Tissue culture work



CSI - 315

Prescription Balance

Removable glass pan or S.S. pan suitable for weighing 100 gms sensitivity 30 gms for one division indicator shifting on the index plates (Known as Dispensing Balance). (a) 100 gms

Cap. 100gms. With Brass Wt. Set



CSI - 316

Ampoule Washing Machine

Jet needle type, consist of 6 S. Steel needle jets fixed on a brass (chromium plated) pipe of 12.5 mm dia with side tap and serrations for fixing rubber with tap water. Springs loaded ampul holding arrangement for various sizes of ampuls. With stainless steel bottom tray on stand.

For washing of ampoule



CSI - 317

Ampoule Filling & Sealing Machine

Hand Operated



CSI - 318

Ointment Spatula

With wooden handle

CSI - 319

Digital Electronic Top Loading Balance

CAPACITY	LEAST COUNT
300gm	0.005gm(5mg)
300gm	0.01gm(10mg)
600gm	0.01gm(10mg)
300gm	0.001gm(1mg)
200gm(ECO)	0.001gm(1mg)
210gm(DX)	0.001gm(1mg)
220gm	0.0001gm(0.1mg)
1.5kg	0.1g(100mg)
3.0kg	0.2g(200mg)
6.0kg	0.5g(500mg)
15.0kg	1g
30.0kg	2g



CSI - 320

Digital Platform Weighing Scales

CAPACITY	LEAST COUNT
60 kg	5g
150 kg	10g
300 kg	20g
500 kg	100g
1000 kg	200g
2000 kg	500g



CSI - 321

Terms and Condition

Rates.

Prices are Ex-works/delhi.

Packing.

Packing, Forwarding, Freight, Postage etc. will be charged extra.

Taxes.

GST and Octroi will be charged extra as applicable.

Payment.

Advance payment/cash against delivery/through bank RTGS prior to despatch or as otherwise agreed by us.

Claims.

Claims for breakages and shortages in transit will not be entertained.

Insurance.

Consignment can be insured on specific request by the customers at their cost. Any increase in GST and octroi etc will be charged to the customers.

Complaints.

Complaints, if any should be communicated to us within 30 days from the date of Invoice.

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Ph. : 0120-4335636
Mail : sales@compositelabline.com
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