

THINK TEMPERATURE...

THINK CINTEX



Mfgs & Export

Ers of Laboratory-

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THINK TEMPERATURE...
THINK CINTEX



AN ISO 9001:2015 CERTIFIED COMPANY

ABOUT CINTEX

MFGRS & EXPORTERS OF LAB-PHARMA-HOSPITAL EQUIPMENTS

Established in the year 1969, the company is continuously rising on the growth chart & setting very high standards. The key to this remarkable growth has been the company's commitment to the development of new products with latest technology, consistency in quality, service & customer satisfaction.

Our GMP & cGMP range equipments are designed to meet ICH, WHO and USFDA compliant & regulatory requirements of pharmaceutical industries. All documents & procedure of IQ/OQ/PQ/DQ with SOP & all certification is available.

Our objectives & goals have been to attain the highest technical performance at the most competitive prices. In line with the diversified & expanding market demands, we have positioned ourselves strategically with respect to capabilities to respond quickly to change.

Thank you, to all of our customer / clients we have indeed come a long way. We are confident to receive the continued co-operation & patronage of our all clients & also look forward to welcome new clients interest in our products.

SOME of our CLIENTELE LIST



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VACUUM OVEN

(ROUND – RECTANGULAR) (REGULAR – GMP MODELS)

- Specially designed heating element that eliminate exposed heaters giving smooth Chamber surface.
- The heat tempered full length Inner glass having window allows observation of load.
- r adiant warm wall heat guarantees even heat distribution.
- Chamber 304 SS with Exterior GI Powder Coated finish in REGULAR MODEL.
- Interior 304 Matt/Buf finish & Exterior 304 SS Matt finish in GMP MODEL.
- Two 316/304 SS valve-one for evacuating and other for perging/flushing.
- Vacuum levels are controlled between 1" and 30"hg.
- Food grade silicon door gasket and highly alinged sturdy door fitting.
- Perforated SS buffed trays for round models.
- Smooth edges non perforated trays for Rectangular Models.
- Automatic autotuning Microprocessor based PID Temp. Controller with Dual Digital Indicator & PT - 100 sensor.

REFERENCE – MODEL – RECTANGULAR

MODEL		CHAMBER SIZE	VOLUME	RATING	SHELVES	TEMP. RANGE
REGULAR	GMP	L x W x D				
62 a	63 a	12" x 12" x 16"	38 Ltrs.	1500 W	2	50°C to 200°C
62 b	63 b	14" x 14" x 20"	64 Ltrs.	1800 W	2	50°C to 200°C
62 c	63 c	18" x 18" x 24"	128 Ltrs.	2000 W	3	50°C to 200°C
62 D	63 D	20" x 20" x 30"	198 Ltrs.	2500 W	3	50°C to 200°C

REFERENCE – MODEL – ROUND (DIA x DEPTH)

61 a	60 a	9" x 12"	12.5 Ltrs.	700 W	2	50°C to 200°C
61 b	60 b	12" x 15"	28 Ltrs.	900 W	2	50°C to 200°C
61 c	60 c	15" x 18"	52 Ltrs.	1100 W	3	50°C to 200°C
61 D	60 D	18" x 24"	100 Ltrs.	1600 W	3	50°C to 200°C

OPTIONAL

- PROGRAMMABLE PID TEMPERATURE CONTROLLER.
- SAFETY CONTROLLER required to take over control in case of Temp. overshoot or if main PID Temp. Controller fails.
- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- TOUCH SCREEN HMI facility.
- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- TIMER facility.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management.



FURNACE

(APM SERIES - 1200°C/1400°C - FRONT LOADING MODEL)

- Double walled in construction Inner made of Ceramic board bricks & Exterior made of GI sheet duly finish in powder coated shade in REGULAR MODEL.
- Outer SS 304 Matt/Buf finish in GMP MODEL.
- The high grade Vacuum pressed board and ceramic wool insulation with blanket is provided in between the walls to minimize the heat loss.
- The Temp. is being controlled by Microprocessor Based PID Temp. Controller with Dual Digital Indicator and CR/AL or Pt Pt Rh sensor.
- The control system is incorporated with Solid-State Fuse to protect the Heating element incase of overshoot of Temp.
- Exhaust fan is provided for extraction of oxidizing gases which occur during the burning and homogenous heating.
- A sturdy mechanism and alignment is provided for insulated door having easy opening and closing.
- Limit switch is provided to disconnect heater supply automatically when door is open.

CAT NO.	SIZE CHAMBER (L x W x D)	WORKING TEMP.	MAX. TEMP.	VOLTS
cic -44a	6" x 6" x 9"	1150°C	1200°C	230 Volts
cic -44b	8" x 8" x 13"	1150°C	1200°C	230 Volts
cic -44c	6" x 6" x 9"	1350°C	1400°C	440 Volts
CIC-44D	8" x 8" x 13"	1350°C	1400°C	440 Volts

OPTIONAL

- PROGRAMMABLE PID TEMPERATURE CONTROLLER.
- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management.



MUFFLE FURNACE

(REGULAR – GMP MODELS)

- Designed for multiple applications including heat treating, ceramic firing, ashing and thermocouple calibration.
- Heavy duty construction for durability having powder coating finish in REGULAR MODEL.
- Housing made of SS 304 or SS 316 matt/buff finish in GMP MODEL.
- No exposed long lasting Kanthal A-1 heating elements.
- Maximum energy efficiency which is achieved being use of high thermal efficient ceramic insulation surrounding the chamber.
- Solid state safety fuse controller with automatic heater cut off facility in case of temp. overshoot.
- Automatic autotuning Microprocessor based PID Temp. Controller with Dual Digital Indicator & CR/AL sensor.
- Maximum Temperature: 350°C to 1200°C. Working Temperature: 400°C to 1160°C.

CAT NO	CHAMBER SIZE (L x W x D)	OUTER SIZE (W x D x Ht.) (APP)	WATTS
cic - 106	4" x 4" x 9"	26" x 22" x 21"	1.8 k.w.
cic - 106	6" x 6" x 12"	28" x 25" x 23"	3.5 k.w.
cic - 106	9" x 9" x 18"	22" x 33" x 26"	4.5 k.w.

furnace - 1400°C temperature range available.

OPTIONAL

- PROGRAMMABLE PID TEMPERATURE CONTROLLER.
- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management.

ORBITAL SHAKING INCUBATOR

- Designed for the growth of biological cultures and the shaking of chemical solutions.
- Bench-top controlled temperature incubator with precise dynamically balanced shaking apparatus.
- Triple eccentric drive mechanism ensures reproducible, smooth rotating motion in 1" orbit.
- Heavy duty, double walled incubation chamber with exterior powder coated finish and fully gasketed lid - in rEguLar MoDEL.
- Inner 316 S.S. / S.S.304 & Exterior 304 S.S. matt finish in GMP- MODEL.
- Units are highly insulated by PUFF/Wool between the walls to minimize the heat exchange.
- Highly advanced CFC free cooling system includes hermetically sealed compressor, condensor & fan motor.
- Microprocessor based with Digital indicator with Digital RPM indicator.
- Mechanical convection system (Motorized Blower) ensures even air distribution within the chamber.
- the heating is provided by u type ss air heater.
- Viewing window on lid and illumination light allows sample viewing without disturbing the environment.
- selection of heating Model and cooling Model.
- Speed Range : 50 to 200 RPM - with 25 mm orbit.
- Interchangeable shaking platform - optional.



CAT NO.	BATH SIZE (L x W x D)	MODEL TYPE	TEMP. RANGE	PLATFORM CAPACITY
cic - 81	20" x 18" x 18"	heating	5°C above ambient to 60°C	9 Nos. x 250 ml flask
cic - 81	22" x 19" x 19"	cooling	2°C to 60°C	9 Nos. x 250 ml flask
cic - 81	22" x 22" x 16"	heating	5°C above ambient to 60°C	12 Nos. x 500 ml flask



ORBITAL SHAKER

- Most useful for growing culture of micro organisms and tissue cells.
- This bench top shaker is a compact, portable unit designed to provide uniform shaking motion.
- The housing made of MS/GI sheet duly finished in Powder coated shade having cushioned feet to prevent creeping.
- The platform made of SS having SS clamps provided to hold the flask.
- With DIGITAL speed RPM Indicator.
- PMDC Geared motor ensures smooth vibration free operation.
- The shaking speed is adjustable from 50 to 200 RPM.
- Selection for multiple S.S. platform to use Conical flask, Rack, Beaker or Bottle.
- Choice from standard MODEL or cGMP MODEL having SS 304 Housing and continuous duty model.
Most useful for growing culture of micro organisms and tissue cells.

CAT NO.	SIZE DIMENSION L X W X HT	CLAMP CAPACITY	ORBIT DIA
cic – 8 a	16" x 16" x 8"	12 Nos. x 100 ml or 9 Nos. x 250 ml	25 mm
cic – 8 b	16" x 16" x 8"	9 Nos. x 500 ml or 6 Nos. x 1000 ml	25 mm
cic – 8 c	19" x 19" x 8"	16 Nos. x 100 ml or 12 Nos. x 250 ml	25 mm
CIC – 8 D	19" x 19" x 8"	12 Nos. x 500 ml or 9 Nos. x 1000 ml	25 mm

NOTE: 2 Tier Orbital Shaker Model Available. Prices on request.

COLONY COUNTER

- This unit is most useful for accurate counting and recording of Bacterial and Colonies.
- Usable in all Laboratories- biology, pathology, Zoology, bacteriology etc.
- Housing made of MS/GI sheet finished with powder coated shade in REGULAR MODEL.
- Body made of 304 SS matt finish in GMP MODEL.
- 4 Digit Resetable Digital display to read and record counting.
- Illumination provided by cool tube light for clear view and perfect counting through magnifying glass provided.
- A probe (PEN) for marking as well as counting provided.
- With wolffhuedged grid glass plate and a magnifying lens.
- Operates on 230 volts a.c .

OPTIONAL

- PRINTER OUTPUT facility available in Model CIC - 53.

CAT NO.	SIZE	MAGNIFIER	COUNTER
cic - 54	10" x 12" x 6"	4" Dia	Maximum count 9999



DIGITAL COLONY COUNTER

(TOUCH SCREEN) (PRINTOUT FACILITY)

- This unit is most useful for accurate counting and recording of Bacterial and Colonies.
- Usable in all Laboratories- biology, pathology, Zoology, bacteriology etc.
- Housing Made of SS 304 Matt finish.
- A probe (PEN) for marking as well as counting provided.
- Illumination provided by cool tube light for clear view and perfect counting through magnifying glass provided.
- With wolffhuedged grid glass plate and a magnifying lens.

TOUCH SCREEN CONTROL SYSTEM FEATURES

- Date
- Sample 1 - (alphabets will be 25)
- Created by -
- Time
- Sample 2 -
- Checked by -
- Batch No.
- Sample 3 -
- Room No
- Sample 4 -

Level of Operation

- Admin
- Supervisor
- Operator

- Password Protection for above 3 with admin having all rights.

- Printer output facility available on 80 col.dot matrix printer. Also Option available for Printout by USB Port.

CAT NO.	SIZE	MAGNIFIER	COUNTER
cic - 53	10" x 14" x 6"	4" Dia	Maximum count 9999



Cintex Colony Counter

27 Oct 2017 05:40:01

Company Name: OEF

User Id: Nishit Role: Admin

Room Number: 45

Sample 1: NDX; Count 1: 4;
Sample 2: OYZ; Count 2: 3;
Sample 3: ISR; Count 3: 1;
Sample 4: YOF; Count: 2

Created by Checked by

Specimen of sample print

HOT AIR OVEN/LOD OVEN

(REGULAR – GMP – CGMP MODELS)

- Triple walled in construction with Inner made of Stainless Steel – 304 & Exterior of GI/MS sheet duly finished in powder coated shade in REGULAR MODEL.
- Inner SS 316 or SS 304 Exterior SS 304 Matt/Buf finish in GMP/CGMP Models.
- High quality compressed glass wool or cerawool insulation between walls to Prevent heat – loss.
- A fully insulated door with sturdy brass SS hinges with handle lock and gasket with perfect sealing is provided to open/ close the door.
- Automatic autotuning Microprocessor based PID Temp. Controller with Dual Digital Indicator & PT – 100 sensor.
- Perforated Inner chamber for Air Circulation & uniform distribution of Temp.within chamber.
- Air circulation by motorized blower for uniform distribution of Temp. within chamber.
- t he heating is provided by u t ype ss air heater.
- available with gi wire mesh shelves or ss wiremesh shelves.
- t emperature r ange: 5°C above ambient to 250°C . t emperature accuracy: $\pm 1^{\circ}\text{C}$.

CAT NO.	INNER SIZE W x D x Ht	OUTER SIZE W x D x Ht. (APP.)	CAPACITY		WATTS	SHELVES
			CFT	LTRS		
CIC - 15/19	14" x 14" x 14"	27" x 23" x 37"	1.6	45	1500	2
CIC - 15/19	18" x 18" x 18"	31" x 25" x 41"	3.4	96	2000	2
CIC - 15/19	18" x 18" x 24"	31" x 26" x 47"	4.5	128	2500	3
CIC - 15/19	24" x 24" x 24"	37" x 33" x 47"	8	228	3000	3
CIC - 15/19	24" x 24" x 36"	37" x 33" x 59"	12	342	3500	3
CIC - 15/19	28" x 28" x 40"	41" x 37" x 64"	18	515	4000	4

FLP HOT AIR OVENS, FLP DOUBLE DOOR HOT AIR OVENS AVAILABLE. HOT AIR OVENS UPTO 400°C AVAILABLE.

OPTIONAL

- PROGRAMMABLE PID TEMPERATURE CONTROLLER.
- SAFETY CONTROLLER required to take over control in case of Temp. overshoot or if main PID Temp. Controller fails.
- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- TOUCH SCREEN HMI facility.
- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- TIMER facility.
- Limit switch is provided to disconnect heater supply automatically when door is open.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management.



FLAME PROOF VACUUM OVEN

- Double walled in construction with Inner made of SS 304 & Outer GI Powder coated shade in REGULAR MODEL
- Inner made of SS 304 & Outer SS 304 Matt/Buf finish in GMP MODEL.
- The high grade compressed Glasswool/ Cerawool insulation provided in between the wall to minimize the heat loss.
- The Temp. is being controlled by FLP PID Temp. Controller with Digital Indicator & FLP PT-100 sensor. Vacuum Guage is provided at top of the oven. The all controls are Grouped in Flame Junction control Box.
- The Control Panel includes FLP PID Temp. Controller, Vacuum Guage etc. and are safely placed on top of the Oven. Vacuum Valve & Gas inert line provided on one side of the unit.
- Adjustable SS 304 non perforated trays are provided as per selection size of oven.
- The Heaters are enclosed in pocket with flame proof junction Box.
- Maximum Vacuum :- 30" HG, Vacuum Loss: 1" After 24 Hours
- Temperature range: 50°C to 200°C
Temperature accuracy: $\pm 1^\circ\text{C}$ to $\pm 2^\circ\text{C}$

CAT NO.	INNER SIZE	RATING (WATTS)	SHELVES	CHAMBER TYPE/SHAPE
cic - 17 a	12" Dia x 15" Depth	800	2	round
cic - 17 b	15" Dia x 18" Depth	1500	3	round
cic - 17 c	12" L x 12" W x 12" Depth	1500	2	rectangular
CIC - 17 D	14" L x 14" W x 14" Depth	2000	3	rectangular

OPTIONAL

- FLP Safety Controller is required to take over control in case of FLP PID Temp. overshoot or if main FLP PID Temp. Controller is out of order.



BOD INCUBATOR (COOLING INCUBATOR) (REGULAR – GMP – CGMP MODELS)

- Double walled Inner having SS 304 & Exterior GI Powder Coated finish in REGULAR MODEL.
- Interior 304 SS buffed finish and Exterior SS 304 matt finish in all GMP – cGMP series.
- Units are highly insulated by PUFF/Wool between the walls to minimize the heat exchange.
- Highly advanced CFC free cooling system includes hermetically sealed compressor, condensor & fan motor.
- A full length Inner glass door for observation of test without disturbing temperature equilibrium.
- A key lockable insulated door having positive door gasket seals door perfectly.
- Mechanical convection system (Motorized blower) ensures even air distribution within the chamber.
- r emovable ss wiremesh shelves or ss rod type shelves.
- Automatic autotuning Microprocessor based PID Temp. Controller with Dual Digital Indicator & PT – 100 sensor.
- Electrical safety includes ELCB, Contactor.

MODEL		SIZE (L x D x Ht.) CAPACITY		TEMP. RANGE ACCURACY	SHELVES
REGULAR	GMP				
71 a	72 a	20" x 18" x 32"		5°c to 60°c (within +/- 1°c)	3
		6 cft	170 Ltrs		
71 b	72 b	24" x 22" x 36"		5°c to 60°c (within +/- 1°c)	3
		10 cft	285 Ltrs.		
71 c	72 c	24" x 24" x 36"		5°c to 60°c (within +/- 1°c)	3
		12 cft	342 Ltrs.		
71 D	72 D	26" x 26" x 36"		5°c to 60°c (within +/- 1°c)	4
		14 cft	400 Ltrs.		
71 E	72 E	28" x 28" x 40"		5°c to 60°c (within +/- 1°c)	5
		18 cft	520 Ltrs.		
71 f	72 f	36" x 36" x 40"		5°c to 60°c (within +/- 1°c)	6
		30 cft	850 Ltrs.		
71 g	72 g	38" x 38" x 44"		5°c to 60°c (within +/- 1°c)	8
		36 cft	1040 Ltrs.		

OPTIONAL

- SAFETY CONTROLLER required to take over control in case of Temp. overshoot or if main PID Temp. Controller fails.
- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- TOUCH SCREEN HMI facility.
- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- TIMER facility.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management.
- standby cooling system
- Temperature Scanner having 4 temp. probes to monitor and record temp. inside the equipment with printing facility.

DOUBLE DOOR BOD INCUBATOR

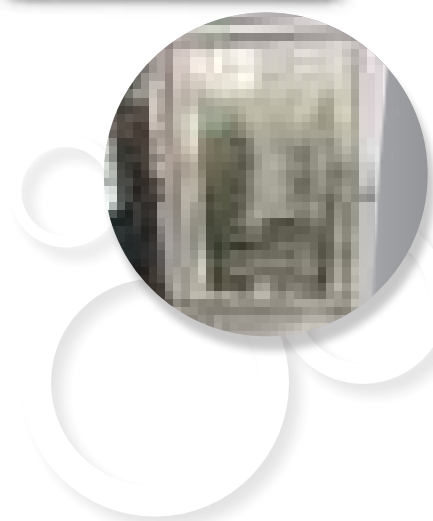
PHOTOSTABILITY CHAMBER

- Newly developed Photostability chamber to meet ICH & FDA compliance & illumination in accordance with ICH Q1B Option 2 & 1 guidelines.
- Double walled in construction Inner made of SS 304 & Outer made of GI Powder Coated Shade in REGULAR MODEL. Inner & Outer SS 304 Matt/Buf Mirror Finish in GMP MODEL.
- Air circulation is provided by motorized blower firmly installed top for temp. uniformity.
- The temp. & RH% is being controlled by independent microprocessor based PID temp. controller with dual digital indicator, class A Pt 100 sensor & capacitance type or imported RH % sensor.
- Heating is provided by U type SS 304 air heater.
- Fluorescent LED tube light is fitted at the door to provide visible light measured in LUX.
- UV light of wavelength 365 nm (measured in watt/ sq. m) is fitted at the top of the chamber.
- Safety interlock door switch is provided to prevent accidental UV exposure.
- Automatic switch off system after desired exposure of lighting energy amounting 1.2w x 1000000L x hour is achieved
- CFC free cooling system includes hermetically sealed compressor, condenser, fan motor etc. and are safely placed at the Bottom/Top of the unit. The cooling system is CFC free.
- The Humidification will be through Steam Injection System. The Stainless Steel Boiler Tank is provided having special type SS heater easily replaceable.
- A reservoir tank made of SS with float valve provided for continuous supply of water to Boiler
- Temp. range :- 10°C to 40°C
- Temp. accuracy :- ±1°C
- RH range :- 40% to 80%
- RH accuracy :- ± 2% RH to ± 3% RH

CAT NO.	INNER SIZE (W X D X HT)	CAPACITY (LTRS) CFT	SHELVES
cic 121 a	18" x 18" x 28"	150/5	2
cic 121 b	20" x 20" x 34"	225/8	3
cic 121 c	24" x 24" x 36"	342/12	3

OPTIONAL

- Microprocessor based PID Temp. Controller with Printer output facility required to record PV, SV, Actual Date/Time etc with variable print time interval, with 5000 line memory & Audio alarm facility in case of memory full.
- 21 CFR Compliance Part 11 Software Req'd.
- Audio alarm facility for Temp. & RH% Overshoot.
- Calibrated Lux & uV meters.



WALK - IN - STABILITY CHAMBER (REGULAR – GMP – CGMP MODELS)



- Designed for testing product shelf – life, packing and electronic test.
- Specially designed to meet ICH, WHO & USFDA requirements.
- Double walled having Inner 304 SS chamber and Exterior finished in Powder Coated Shade in REGULAR MODEL.
- Inner SS 304/SS 316 and Exterior SS 304 matt/buff finish in GMP MODEL.
- The Temp. & Humidity controlled by Microprocessor based PID Temp. & RH% Controller with Dual Digital Indicator & PT – 100 sensor for Temp. & capacitance type sensor for RH%.
- Cooling Kit is CFC Free. The Cooling Kit includes hermetically sealed compressor, condenser, Fan Motor, etc. and are safely placed at back of the chamber.
- Humidification through steam injection system. Humidity levels from 40% RH to 95% RH & depends on Temperature i.e. lower temp. lower humidity higher the temp. higher humidity. Humidity stability :- 2% rh to ± 3% rh
- Air Circulation system ensures more stability of condition & even distribution inside the chamber.
- A Boiler Tank consisting of Water Heater having auto cut off facility with Audio Alarm for low water level.
- Reservoir Water Tank having float Valve provided.
- Overload protection relay & time delay for compressor.
- Temperature range: 20°C to 60°C . Temperature accuracy: ± 1°C
- Humidity range: 40% rh to 90% rh . Humidity accuracy: ± 2% rh to 3% rh
- Suitable rack provided both the side to install the trays.
- Shelves are SS wire mesh/SS rod type with all units as standard.
- A two pan glass window provided on door for clear observation of test. An ancillary type heater provided in between the glass to cut the condensation.
- The illumination is provided through fluorescent tubes for clear visibility of test.

CAT NO.	CAPACITY		OUTER SIZE W x D x Ht. (APP.)	TRAYS PER CHAMBER NOS.
	CU CFT	LTRS		
cic - 121 a	190	5400	54" x 80" x 80"	24
cic - 121 b	280	8000	80" x 80" x 80"	24
cic - 121 c	428	12000	100" x 80" x 96"	32
CIC - 121 D	570	16000	80" x 160" x 80"	60

OPTIONAL

- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- TEMP. SCANNER 4 Channel/8 Channel with Printer Output facility to record temp. & rh at various places inside chamber.
- TOUCH SCREEN HMI facility.
- auto change E o V E r to stand by cooling system.
- GSM mobile alert.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management.
- ALARM HOOTER facility.

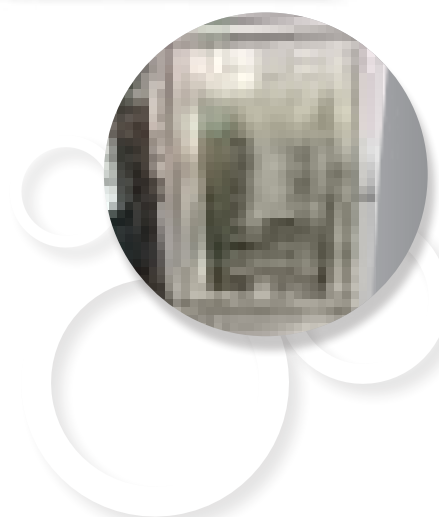
HUMIDITY CHAMBER / STABILITY CHAMBER

- Designed for testing product shelf – life, packing and electronic test.
- Specially designed to meet ICH, WHO & USFDA requirements.
- Double walled having Inner 304 SS chamber and Exterior finished in Powder Coated Shade in REGULAR MODEL.
- Inner SS 304/SS 316 and Exterior SS 304 matt/buff finish in GMP MODEL.
- The Temp. & Humidity controlled by Microprocessor based PID Temp. & RH% Controller with Dual Digital Indicator & PT – 100 sensor for Temp. & capacitance type sensor for RH%.
- Cooling Kit is CFC Free. The Cooling Kit includes hermetically sealed compressor, condenser, Fan Motor, etc. and are safely placed below/above the chamber.
- Humidification through steam injection system. Humidity levels from 40% RH to 95% RH & depends on Temperature i.e. lower temp. lower humidity higher the temp. higher humidity. Humidity stability :- 2% rh to $\pm 3\%$ rh
- Air Circulation system ensures more stability of condition & even distribution inside the chamber.
- A Boiler Tank consisting of Water Heater having auto cut off facility with Audio Alarm for low water level.
- Reservoir Water Tank having float Valve provided.
- Overload protection relay & time delay for compressor.
- Shelves are SS wire mesh/SS rod type 3 Nos with all units as standard.
- A two pan glass window provided on door for clear observation of test. An ancillary type heater provided in between the glass to cut the condensation.
- The illumination is provided through fluorescent tubes for clear visibility of test.

CAT NO.	CHAMBER SIZE (W x D x Ht.)	SHELVES	CAPACITY	
			LTRS	CFT
cic - 64	18" x 18" x 28"	2	150 Ltrs	5.25 cft
cic - 64	20" x 20" x 34"	3	225 Ltrs	8 cft
cic - 64	24" x 24" x 36"	3	342 Ltrs	12 cft
cic - 64	26" x 26" x 36"	4	400 Ltrs	14 cft
cic - 64	36" x 36" x 40"	5	850 Ltrs	30 cft

OPTIONAL

- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- TEMP. SCANNER 4 Channel/8 Channel with Printer Output facility to record temp. & rh at various places inside chamber.
- TOUCH SCREEN HMI facility.
- auto change E o V E r to stand by cooling system.
- GSM mobile alert.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management.
- ALARM HOOTER facility.



WALK - IN - BOD INCUBATOR (REGULAR – GMP – CGMP MODELS)



- Double walled Inner made of SS 304 Matt/Buf finish and Ext. GI Powder Coated Shade in REGULAR MODEL.
Inner/Outer made of SS 304 Matt/Buf finish in GMP MODEL.
- High grade puff insulation provided in between the wall to minimize the heat loss.
- The Temperature controlled by Microprocessor based PID Temperature with Dual Digital Indicator, PT 100 sensor.
- The Cooling Kit includes hermetically sealed compressor, condenser, fan motor etc., are safely placed at back of the unit CFC free cooling system.
- The Air Circulation is being performed by heavy duty motorized blower firmly installed at back or top of unit.
- The heating is provided by ultra type SS air heater.
- A fully insulated door with view glass is provided for clear observation of test.
- Temperature range: 5°C to 60°C . Temperature accuracy: $\pm 1^\circ\text{C}$
- Suitable rack provided both the side to install the trays.
- Safety Features
 - Safety controller with alarm in case of Temp overshoot / undershoot. • MCB • Overload protector

CAT NO.	CAPACITY		OUTER SIZE W x D x Ht. (APP.)	TRAYS PER CHAMBER NOS.
	CU CFT	LTRS		
cic - 122 a	190	5400	54" x 80" x 80"	24
cic - 122 b	280	8000	80" x 80" x 80"	24
cic - 122 c	428	12000	100" x 80" x 96"	32
CIC - 122 D	570	16000	80" x 160" x 80"	60

OPTIONAL

- SAFETY CONTROLLER required to take over control in case of Temp. overshoot or if main PID Temp. Controller fails.
- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- TOUCH SCREEN HMI facility.
- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- TIMER facility.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management.
- standby cooling system
- Temperature Scanner having 4 temp. probes to monitor and record temp. inside the equipment with printing facility.

WALK - IN - PHARMA REFRIGERATOR

- Double walled Inner made of SS 304 Matt/Buf finish and Ext. GI Powder Coated Shade in REGULAR MODEL. Inner/Outer made of SS 304 Matt/Buf finish in GMP MODEL.
- high grade puff insulation provided in between the wall to minimize the heat loss.
- The Temperature controlled by Microprocessor based PID Temperature with Dual Digital Indicator, PT 100 sensor.
- The Cooling Kit includes hermetically sealed compressor, condenser, fan motor etc., are safely placed at back of the unit CFC free cooling system.
- The Air Circulation is being performed by heavy duty motorized blower firmly installed at back or top of unit.
- the heating is provided by u t type ss air heater.
- A fully insulated door with view glass is provided for clear observation of test.
- temp. range: 2°C to 8°C . temp. accuracy: $\pm 1^\circ\text{C}$
- suitable rack provided both the side to install the trays.
- safety features
 - Safety controller with alarm incase of Temp overshoot / undershoot. • MCB • Overload protector



CAT NO.	CAPACITY		OUTER SIZE W x D x Ht. (APP.)	TRAYS PER CHAMBER NOS.
	CU CFT	LTRS		
cic - 123 a	190	5400	54" x 80" x 80"	24
cic - 123 b	280	8000	80" x 80" x 80"	24
cic - 123 c	428	12000	100" x 80" x 96"	32
CIC - 123 D	570	16000	80" x 160" x 80"	60

OPTIONAL

- SAFETY CONTROLLER required to take over control in case of Temp. overshoot or if main PID Temp. Controller fails.
- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- TOUCH SCREEN HMI facility.
- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- TIMER facility.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management.
- standby cooling system
- Temperature Scanner having 4 temp. probes to monitor and record temp. inside the equipment with printing facility.



AUTOCLAVE (STEAM STERILIZER) (SINGLE LEVER LOCK MODEL - FULLY AUTOMATIC)

- Fully Automatic Autoclave – most useful to sterilizer Lab glassware, Plastic Tubing, Liquid in sealed glass containers and many more uses.
- Fully argon welded to avoid steam and pressure leak.
- Double walled in construction with Inner SS 304 Matt/Buf or Mirror finish.
- A Special Box Type Outer GI / SS 304 body is provided with state of art control panel to avoid direct heated contact with main Jackett and double walled body of autoclave.
- A unique single lever lock ensures easy lifting & closure of Autoclave door without leakage of Vacuum & Pressure.
- The Temp. is being controlled by Microprocessor based PID Temp. Controller with Dual Digital Indicator and pt - 100 sensor.
- The cycle begins with press of a start Switch for fully automatic operation.
- Automatic steam and air exhaust at end of cycle.
- specially designed heaters reduces power consumption.
- Removable SS wire mesh/rod carrier supported on footed, SS frame in-built.
- Water low level Alarm indication and heater cutt off facility.
- Lid is equipped with pressure guage range 0 to 20 PSI, safety valve and exhaust valve.
- Safety valve, Steam release Exhaust Valve, Vacuum breaker – for more safety.
- temperature range: upto 121°C
- temperature accuracy: $\pm 1^\circ\text{C}$.
- pressure range: 0 to 21 psi

CAT NO.	VESSEL CHAMBER SIZE	CAPACITY LTRS.	NO. OF SHELVES BASKET	WATTS	STEAM SOURCE/SUPPLY
cic - 126 a	12" Dia x 20" Depth	35 Ltrs.	1 no.	2.0 k.w.	Direct
cic - 126 b	14" Dia x 22" Depth	55 Ltrs.	2 nos.	2.5 k.w.	Direct
cic - 126 c	18" Dia x 28" Depth	125 Ltrs.	2 nos.	3.5 k.w.	Direct

OPTIONAL

- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management with F0 value calculation.
- Temperature Scanner having 2 temp. probes to monitor and record temp. inside the equipment with printing facility.
- Digital Pressure Indication.

AUTOCLAVE

(FULLY AUTOMATIC) - GMP MODEL

- Fully Automatic Autoclave – most useful to sterilizer Lab Glassware, Plastic Tubing, liquid in sealed glass containers and many more uses.
- fully argon welded to avoid steam and pressure leak.
- Double walled in construction with Inner SS 304 & Outer SS 304 Matt/Buf or Mirror finish.
- The Temp. is being controlled by Microprocessor based PID Temp. Controller with Dual Digital Indicator and Sensor.
- The cycle begins with press of a start switch for fully automatic operation.
- Automatic steam and air exhaust at end of cycle.
- specially designed heaters reduces power consumption.
- Removable SS wiremesh/ rod carrier supported on footed, SS frame in built.
- Water low level alarm indication and heater cut off facility.
- Lid is equipped with pressure guage range 0 to 20 PSI, safety valve and exhaust valve.
- Safety valve, Steam release Exhaust Valve, Vacuum breaker – for more safety.
- temperature range: upto 121°C
- temperature accuracy: $\pm 1^\circ\text{C}$.
- pressure range: 0 to 21 psi

REFERENCE – MODEL - CYLINDRICAL / VERTICAL

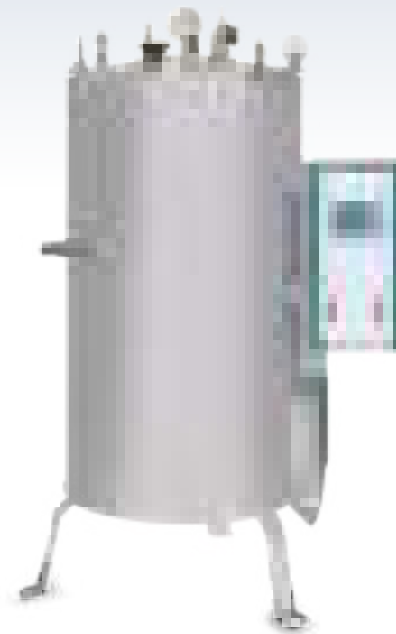
CAT NO.	VESSEL CHAMBER SIZE	CAPACITY LTRS.	VESSEL TYPE	NO. OF SHELVES BASKET	STEAM SOURCE/SUPPLY
cic - 125 a	12" Dia x 20" Depth	36 Ltrs.	cylindrical	1 no.	Direct
cic - 125 b	14" Dia x 22" Depth	55 Ltrs.	cylindrical	2 nos.	Direct
cic - 125 c	18" Dia x 28" Depth	116 Ltrs.	cylindrical	2 nos.	Direct
CIC - 125 D	22" Dia x 30" Depth	186 Ltrs.	cylindrical	2 nos.	Direct
cic - 125 E	28" Dia x 30" Depth	300 Ltrs.	cylindrical	2 nos.	Direct

REFERENCE – MODEL - ROUND

cic - 42 a	9" Dia x 15" Depth	16 Ltrs.	round	2 nos.	Direct
cic - 42 b	9" Dia x 18" Depth	22 Ltrs.	round	2 nos.	Direct

OPTIONAL

- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management with F0 value calculation.
- Temperature Scanner having 2 temp. probes to monitor and record temp. inside the equipment with printing facility.
- Digital Pressure Indication.



BACT. INCUBATOR

(REGULAR – GMP – MODELS)

- Ideal for Sterilization, drying heat treatment and thermal testing.
- Triple walled in construction with Inner made of Stainless Steel 304 and Exterior of GI/MS sheet duly finished in powder coated shade in regular model.
- Inner SS 316 or SS 304 Exterior SS 304 Matt/Buf finish in GMP/CGMP Models.
- High quality compressed glasswool insulation between Inner wall and outer wall to prevent heat-loss.
- A fully insulated door with sturdy brass SS hinges with handle lock and gasket with perfect sealing is provided to open/ close the door.
- A full length inner glass door is provided for clear observation of test.
- Automatic Autotuning Microprocessor based PID Controller with Dual Digital Indicator.
- Air Circulation performed by motorized blower for uniform distribution of temperature within chamber.
- available with gi wire mesh shelves or ss wire mesh shelves.
- t emp. r ange: 5° above ambient to 60°C .
- t emp. accuracy: $\pm 0.5^{\circ}\text{C}$

CAT NO.	INNER SIZE W x D x Ht.	OUTER SIZE W x D x Ht. (APP.)	CAPACITY		WATTS	SHELVES
			CFT	LTRS		
CIC - 16/20	14" x 14" x 14"	27" x 23" x 37"	1.6	45	125	2
CIC - 16/20	18" x 18" x 18"	31" x 25" x 41"	3.4	96	150	2
CIC - 16/20	18" x 18" x 24"	31" x 26" x 47"	4.5	128	175	3
CIC - 16/20	24" x 24" x 24"	37" x 33" x 47"	8	228	200	3
CIC - 16/20	24" x 24" x 36"	37" x 33" x 59"	12	342	300	3
CIC - 16/20	28" x 28" x 40"	41" x 37" x 64"	18	515	400	3

OPTIONAL

- PROGRAMMABLE PID TEMPERATURE CONTROLLER.
- SAFETY CONTROLLER required to take over control in case of Temp. overshoot or if main PID Temp. Controller fails.
- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- Touch Screen HMI facility
- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- TIMER facility.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management.



WATER BATH (RECTANGULAR)

- Double walled with Inner SS 304 & Exterior GI Powder Coated Shade in REGULAR MODEL.
- Fully argon welded for leak proof durability & elegant in design.
- Inner & Outer SS 304 Matt/Buf finish in GMP MODEL.
- Compressed glasswool insulated in between the walls to minimize the heat loss.
- Heating by 'U' type SS Water Heater. (ISI Marked)
- Concentric rings to use flask from 50ml to 500ml capacity.
- Perforated false bottom platform of SS provided.
- Drainage cock is provided for outlet purpose.
- Microprocessor based PID Temp. Controller with Dual Digital Indicator & PT – 100 sensor.
- Temp. range :- 5°C above ambient to 99°C.
- Usable with round bottom flask keeping on lid only.

CAT NO.	INNER SIZE L x W x D	LID	WATTS	CONTROLLER	TEMP. ACCURACY
cic - 2 aM	10" x 14" x 4"	6 Holes of 3" Dia	1.0 k.w.	Microprocessor Based PID Controller	± 0.5°C
cic - 2 bM	16" x 12" x 4"	12 Holes of 3" Dia	1.5 k.w.	Microprocessor Based PID Controller	± 0.5°C



WATER BATH (STIRRER MODEL) (GMP MODEL)

- Double walled in construction with Inner made of SS 304 & Exterior SS 304 Matt/Buf or mirror finish.
- Fully argon welded for leak proof durability & elegant in design.
- High quality compressed glasswool provided in between walls to minimize the heat loss.
- Microprocessor based PID Temp. Controller with Dual Digital Indicator & PT – 100 sensor.
- Single Speed Stirrer motor is provided for Internal Circulation & Better Temp. uniformity.
- Perforated false bottom platform & lid of SS provided.
- Special SS Water Heater (ISI Marked) provided for heating.
- Drainage cock for outlet provided.
- Automatic Heater cut off after reaching desired set temperature.
- Output of heater power easily controllable.
- Usable with round bottom flask – keeping on lid only.
- Temp. range :- 5°C above ambient to 99°C.

CAT NO.	INNER SIZE (L x W x D)	LID	WATTS	TEMP. ACCURACY
cic - 2 ap	10" x 17" x 4"	6 Holes of 3" Dia	1.0 k.w.	± 0.3°C
cic - 2 bp	19" x 12" x 4"	12 Holes of 3" Dia	1.5 k.w.	± 0.3°C
cic - 2 cp	21" x 18" x 4"	20 Holes of 3" Dia	3.0 k.w.	± 0.3°C

OPTIONAL

- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- TIMER facility.
- LOW WATER LEVEL audio alarm facility.
- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.





WATER BATH (SEROLOGICAL)

- Double walled in construction with Inner made of SS 304 & Exterior GI powder coated shade in REGULAR MODEL.
- Inner made of SS 304 & Exterior SS 304 Matt/Buf or Mirror finish GMP MODEL.
- Fully argon welded for leak proof durability & elegant in design.
- High quality compressed glasswool provided in between walls to minimize the heat loss.
- Microprocessor based PID Temp. Controller with Dual Digital Indicator & PT – 100 sensor.
- Special SS Water Heater (ISI Marked) provided for heating.
- Drainage cock for outlet provided.
- Automatic Heater cut off after reaching desired set temperature.
- Output of heater power easily controllable.
- t emp. r ange:- 5°C above ambient to 70°C .
- Usable with Khan racks.

CAT NO.	INNER SIZE L x W x D	SENSOR	CONTROLLER	TEMP. ACCURACY	WATTS
cic – 3 aM	10" x 6" x 7"	pt – 100	Microprocessor based PID Temp. Controller.	± 0.5°C	1.5 k.w.
cic – 3 bM	14" x 10" x 7"	pt – 100		± 0.5°C	1.5 k.w.
cic – 3 c M	18" x 12" x 7"	pt – 100		± 0.5°C	3.0 k.w.
cic – 3 ap	13" x 6" x 7"	pt – 100		± 0.5°C	1.5 k.w.
cic – 3 bp	17" x 10" x 7" (s tirrer Model)	pt – 100	h igh precision cg Mp Model	± 0.3°C	3.0 k.w.
cic – 3 cp	21" x 12" x 7" (s tirrer Model)	pt – 100		± 0.3°C	3.0 k.w.

OPTIONAL

- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- TIMER facility.
- LOW WATER LEVEL audio alarm facility.
- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- pyramid t ype Lid.
- Khan rack of 30 holes in 3 rows can be provided.

OIL BATH

(ROUND – REGULAR – GMP – MODEL)

- Most useful for research and production applications such as Stability Testing, Conditioning, pre heating and tempering.
- Chamber made of heavy gauge SS and are welded for leak proof durability exterior of GI Powder Coated Shade in REGULAR MODEL.
- Chamber made of heavy gauge SS and are welded for leak proof durability exterior of SS 304 matt/buff finish in GMP MODEL.
- Walls contains 1" or 2" of glass wool insulation to minimize heat loss.
- A drainage cock is provided for outlet purpose.
- 2 Nos. Handles at sides of bath is provided for easy lifting.
- a special ss heater easily replaceable.
- The Temp. is being controller by Microprocessor based PID Temp. Controller with Dual Digital Indicator & pt - 100 sensor.
- Automatic Auto tuning facility.
- Output of heater easily controllable.
- Automatic heater cut off facility after set temp. achieved (ON/OFF) action to save electricity.
- Temp. Range: 5°C Above ambient to 300°C. Temp. Accuracy: Within $\pm 2^{\circ}\text{C}$.
- operates on 230 Volts a.c .

CAT NO.	SIZE CAPACITY	WATTS
cic - 79	7" Dia x 5.5"Ht. (1 Ltr. Cap.)	1.0 k.w.
cic - 79	8" Dia x 6"Ht. (2 Ltr. Cap.)	1.0 k.w.
cic - 79	10" Dia x 9"Ht. (3 Ltr. Cap.)	1.2 k.w.
cic - 79	11" Dia x 10"Ht. (5 Ltr. Cap.)	1.5 k.w.
cic - 79	14" Dia x 11"Ht. (10 Ltr. Cap.)	2.0 k.w.
cic - 79	16"Dia x 13"Ht. (20 Ltr. Cap.)	3.0 k.w.

OPTIONAL

- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- TIMER facility.
- LOW OIL LEVEL audio alarm facility.



ULTRASONIC BATH

- newly designed ultrasonic cleaner with solid-state circuitry -12 Minute timer.
- These cleaners function by means of Ultrasonic energy acting through a fluid medium.
- Most useful to provide rigorous cleaning of Laboratory glassware and instruments.
- Specially for cleaning items with crevices, corners or other inaccessible areas.
- Tank made of Stainless Steel 304 and Exterior also made of Stainless Steel 304 matt finish.
- With SS cover lid.
- Double Display
- Digital Timer
- Auto Degassing for 5 Min.
- heater
- PSP for uniform distribution of Ultrasonic Energy
- Digital Temp. Controller with 60°C Max Temp. Setting.

CAT NO.	TANK CAPACITY	INNER SIZE (L X W X D)
cic - 116	2 Ltrs.	6" x 6" x 5"
cic - 116	3 Ltrs.	9" x 6" x 5"
cic - 116	6 Ltrs.	12" x 6" x 6"
cic - 116	10 Ltrs.	12" x 9" x 6"
cic - 116	14 Ltrs.	21" x 7" x 6"
cic - 116	20 Ltrs.	14" x 12" x 8"
cic - 116	30 Ltrs.	15" x 15" x 8"
cic - 116	50 Ltrs.	22" x 12" x 12"

Cooling Models Available. Prices On Request. Big Capacity Ultrasonic Baths Also Available.

LOW TEMP. BATH (REGULAR - GMP - MODEL)

- Double walled in construction Inner made of SS 304 & Exterior made of GI sheet duly finished in GI powder coated shade in REGULAR MODEL.
- Inner SS 304/SS 316 & Exterior SS 304 Matt/Buf finish in GMP MODEL.
- The high grade puff insulation provided in between the wall to minimize the heat loss.
- The Temp. is being controlled by Microprocessor based PID Temp. Controller with Dual Digital Indicator & PT-100 sensor.
- Heating is provided by 'U' type SS heaters.
- The cooling kit includes hermetically sealed compressor, condenser, fan motor etc. and are safely placed below the chamber. Cooling kit CFC free.
- The unit consist with Pump cum Stirring Assembly for Internal as well as External circulation & better Temp. uniformity. The External Head upto 5/6 feet only.
Pump Output :- 5/7 Ltr. Per Minute.
- Cooling coil is provided inside the chamber.

CAT NO.	CHAMBER SIZE (L x W x D) CAPACITY	WORKING SIZE (L x W x D)	TEMP. RANGE	TEMP. ACCURACY
cic - 77	13" x 9" x 10" - 20 Ltrs.	8" x 8" x 10"	-20°C to +60°C	± 0.5°C to ± 1°C
cic - 77	13" x 9" x 10" - 20 Ltrs.	8" x 8" x 10"	- 40°C to +60°C	± 0.5°C to ± 1°C
cic - 77	13" x 9" x 10" - 20 Ltrs.	8" x 8" x 10"	- 70°C to +50°C	± 0.5°C to ± 1°C
cic - 77	17" x 12" x 12" - 40 Ltrs.	12" x 11" x 12"	- 20°C to +60°C	± 0.5°C to ± 1°C
cic - 77	17" x 12" x 12" - 40 Ltrs.	12" x 11" x 12"	- 40°C to +60°C	± 0.5°C to ± 1°C
cic - 77	17" x 12" x 12" - 40 Ltrs.	12" x 11" x 12"	- 70°C +50°C	± 0.5°C to ± 1°C

Pump Output Flow Rate of more Than 7 Ltrs. P/Minute can be provided as per your requirement.

Note: flammable proof Low temperature baths available.

OPTIONAL

- ALARM facility to alert incase of Temp. Overshoot.
- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- Imported Thermic Fluid Oil can be supplied at extra cost.
- Flexible SS 304 braided hose pipe with insulation cover can be provided.
- LOW LEVEL DETECTION of Brine/Fluid with AUDIO ALARM facility.



Flame Proof Model

OIL BATH (CIRCULATOR) (REGULAR – GMP – MODEL)

- Double walled in construction Inner made of SS 304 and Exterior GI Powder coated in REGULAR MODEL.
- Inner made of SS 316/SS 304 & Exterior SS 304 Matt/Buf finish in GMP MODEL.
- The Inner tank is completely welded for leak proof durability.
- The high grade compressed cerawool & combination of glasswool insulation provided in between the wall to minimize the heat loss.
- The Temp. is being controlled by Automatic Autotuning Microprocessor based PID Temp. Controller with Dual Digital indicator and pt -100 sensor.
- The unit consist with Pump cum Stirring Assembly for Internal as well as External circulation & better Temp. uniformity.
The External Head upto 5/6 feet only.
Pump Output :- 5/7 Ltr. Per Minute.
- Specially designed Long Life Stainless Steel Heater.
- A drainage cock is provided at side of the bath for outlet purpose.

CAT NO.	BATH SIZE (L x W x D)	TEMP. ACCURACY	TEMP. RANGE
cic - 105 a	10" x 10" x 8"	± 1°C to ± 2°C	50°C to 300°C
cic - 105 b	12" x 12" x 10"	± 1°C to ± 2°C	50°C to 300°C
cic - 105 c	14" x 12" x 12"	± 1°C to ± 2°C	50°C to 300°C

Note: Pump Output Flow Rate Of More Than 7 Ltrs. P/Minute Can Be Provided As Per Your Requirement.

flame proof oil bath circulators available

OPTIONAL

- ALARM facility to alert incase of Temp. Overshoot.
- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- Imported Thermic Fluid Oil can be supplied at extra cost.
- Flexible SS 304 braided hose pipe with insulation cover can be provided.
- LOW LEVEL of oil detection with Audio Alarm facility.

VISCOCITY BATH

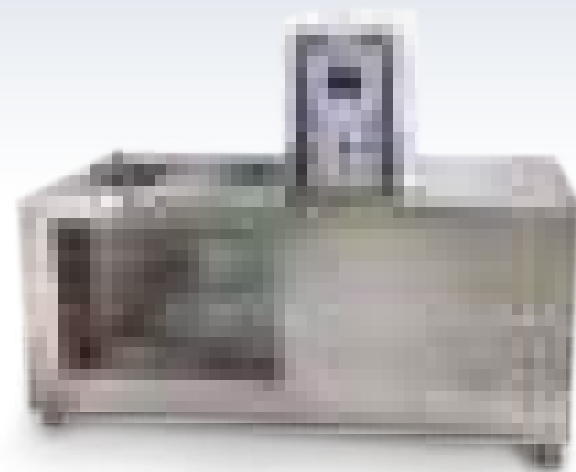
(REGULAR – GMP - MODEL)

- Double walled in construction with Inner made of SS 304 & Ext. GI Powder Coated Shade in REGULAR MODEL.
- Inner made of SS 316/SS 304 & Exterior SS 304 Matt/Buf finish in GMP MODEL.
- The high grade compressed puff /Glasswool insulation is provided in between the walls to minimize the heat loss.
- The Temp. is being controlled by Automatic Auto tuning type Microprocessor based PID Temp. Controller with Dual Digital Indicator & PT-100 Sensor.
- The unit consist with Stirring assembly motor for Internal Circulation & Temp. uniformity.
- A perforated SS bottom platform is provided in the bath.
- Heating is provided by 'U' type SS special heaters.
- 2 Nos. Handles at adjacent sides of the bath are provided for easy lifting.
- A drainage at the side of the bath is provided for outlet purpose.
- The Illumination by fluorescent tube at the back of the bath is provided for clear visibility of test.
- A Glass Window is provided at the front for clear observation of test.
- Cooling model consists hermetically sealed compressor, condenser, fan motor etc. and are safely placed below or one side of the unit.
- Cooling Refrigerant is CFC free.

CAT NO.	BATH CHAMBER (L x W x D)	VISCO-METER ACCOMODATE	TEMP. RANGE	TEMP. ACCURACY
cic - 101 a	14" x 7" x 13"	2	5°C above ambient to 199.9°C	± 0.5°C
cic - 101 b	19" x 7" x 13"	4	5°C above ambient to 199.9°C	± 0.5°C
cic - 101 c	24" x 7" x 13"	6	5°C above ambient to 199.9°C	± 0.5°C
CIC - 101 D	10" x 10" x 13"	2	-20°C to 99°C	± 0.5°C to ± 1°C
cic - 101 E	10" x 10" x 13"	2	-50°C to 60°C	± 0.5°C to ± 1°C
cic - 101 f	10" x 10" x 13"	2	-70°C to 50°C	± 0.5°C to ± 1°C

OPTIONAL

- Temp. Accuracy of $\pm 0.05^{\circ}\text{C}$ can be provided at extra cost.
- SS 304 / SS 316 Viscometer holders.
- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.



SHAKER WATER BATH / METABOLIC WATER BATH

- Ideal for tissue, metabolism, Cell incubator, protein x coagulation and enzyme studies requiring reciprocal shaking under controlled temperature conditions.
- An insulated bath chamber having Inner 304 SS and Exterior of GI/MS Powder coating finish – in REGULAR MODEL.
- Inner chamber 304 and Exterior 304 SS matt finish in GMP MODEL.
- Speed of stroke adjustable from 50 RPM to 200 RPM by Digital Speed controller.
- Digital Timer of 24 hrs with alarm included in Panel.
- All MODELS are with Microprocessor based PID Temp. Controller with dual digital indication & Pt 100 sensor .
- Cooling shaking Bath includes hermetically sealed compressor, condenser, fan motor etc., for temperature down upto 0°C.
- Stainless steel shaking platform having perforation and suitable for erlenmeyer flasks or test tubes.
- gable cover to prevent splash at higher speed.

CAT NO.	SIZE OF BATH L x W x HT	CLAMP CAPACITY	STROKE LENGTH	TEMP. RANGE
cic -9 a	20" x 16" x 10"	12 Nos. x 250 ml or 8 Nos x 500 ml	40 MM	5°C above ambient to 99.9°C
cic - 9 b	16" x 12" x 10"	12 Nos x 100 ml or 6 Nos x 500 ml	40 MM	5°C above ambient to 99.9°C
cic -9 c	22" x 18" x 10"	12 Nos x 250 ml or 8 Nos x 500 ml	40 MM	0°C to 90°C
CIC-9 D	18" x 14" x 10"	12 Nos x 100 ml or Rack of 40 Test Tubes	40 MM	0°C to 90°C



CLOUD AND POUR POINT BATH (COOLING)

- The unit is designed to meet the test method of ASTM D-2500-88/D-97.
- For use to carry test of any petroleum oil as per test method.
- The bath is triple walled in construction with inner chamber made of SS 304 & Exterior of G.I sheet duly finished in Powder coated shade.
- The unit have 4 Compartment for 4 different temperature range in (STANDARD UNIT)
 - 1st compartment** : (-) 01°C to (-) 02°C
 - 2nd compartment** : (-) 15°C to (-) 18°C
 - 3rd compartment** : (-) 32°C to (-) 34°C
 - 4th compartment** : (-) 47°C to (-) 51°C
- The top surface of units is of bakelite thick sheet for easy cleaning.
- Each compartment having 4 test jacket made of copper cylindrical flat bottom - 45 mm dia x 115 mm HT.
- Test jar made of clear cylindrical glass flat bottom 30 to 33.5 mm dia x 115 to 125 mm height.
- All 4 compartment having 4 cooling system which includes hermetically sealed compressor, condenser, fan motor etc-CFC free Cooling system.
- All 4 Compartment Temperature are being controlled by separate Microprocessor based PID temperature controller with Digital indication.
- Selection of single, two or three chamber also.

CAT NO.	EACH CHAMBER SIZE (W x L x Ht.)	AVAILABLE COMPARTMENT/ CHAMBER (UNIT-TYPE)	TEST JACKET IN EACH CHAMBER	TEMP. RANGE
cic -103a	7" x 14" x 6"	4 c hamber c ompact	4 Nos. x 4	-1°C to - 2°C , -15°C to -18°C , - 32°C to -34°C , - 47°C to -51°C
cic -103b	7" x 14" x 6"	4 c hamber s tandard	4 Nos. x 3	-1°C to - 2°C , -15°C to -18°C , - 47°C to - 51°C
cic -103c	7" x 14" x 6"	2 c hamber Medium	4 Nos. x 2	-1°C to - 2°C , -15°C to - 18°C
CIC-103D	7" x 14" x 6"	1 c hamber Economy	4 Nos. x 1	- 32°C to - 34°C
-70°C temp range available. Prices on request.				

OPTIONAL

- SAFETY CONTROLLER required to take over control in case of Temp. overshoot or if main PID Temp. Controller fails.
- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- ti MER facility.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management.





ULTRASONIC BATH (TABLE TOP COOLING MODEL)

- newly designed ultrasonic cleaner with solid state circuitry 0 to 99 Minute timer.
- These cleaners function by means of Ultrasonic energy acting through a fluid medium.
- Most useful to provide rigorous cleaning of Laboratory glassware and instruments.
- Specially for cleaning items with crevices, corners or other inaccessible areas.
- Tank made of SS 304 and Exterior also made of SS 304 matt finish.
- With Microprocessor based PID Temp. Controller, PT - 100 sensor and SS cover lid.
- Pulse sweep power for uniform distribution of ultrasonic energy is provided.
- PZT type Transducers is bonded to the bottom sides of the tank.
- ultrasonic generator is advanced latest Mosfet based Smps.
- The Cooling Kit includes hermetically sealed compressor, condenser, fan motor etc. and are safely placed at side of the unit. Cooling Refrigerant is CFC free.
- Drainage cock for outlet purpose is provided.

CAT NO.	TANK CAPACITY	INNER SIZE (L x W x D)	POWER	TEMP. RANGE
cic - 65 a	10 Ltrs.	12" x 9" x 6"	250 Watts	5°C to 35°C
cic - 65 b	20 Ltrs.	18" x 12" x 6"	400 Watts	5°C to 35°C

BLOCK HEATER

- Specially designed for many clinical tests performed in laboratories including blood test in activation of cultures, incubators, enzyme analyses, melting and boiling point determinations, wet ashing, sample concentration, catalyst digestion and many more applications.
- Highly insulated chamber provide uniform and efficient heat transfer to test tubes.
- Exterior body made of GI finished in powder coated shade.
- Block made of aluminium alloy for excellent uniform temperature.
- With Microprocessor based PID Temp. controller with Dual Digital Indicator.
- temp. range :- 5°C above ambient to 250°C.
- temp. accuracy :- $\pm 1^\circ\text{C}$ to $\pm 2^\circ\text{C}$.

CAT NO.	BLOCK SIZE W x L x Ht.	SIZE OF UNIT	SIZE OF TUBE CAN BE ACCOMMODATE
cic - 84 a	3" x 4" x 7"	14" x 8" x 10"Ht	19 mm x 6 nos. 150 mm
cic - 84 b	3" x 7" x 7"	14" x 11" x 10"Ht	19mm x 12 nos. 150 mm

OPTIONAL

- Microprocessor based PID Temp. Controller with Printer output facility is required to record PV, SV, Actual Date/Time etc with variable print time interval, with 5000 line memory & Audio alarm facility in case of memory full.

DIGITAL MELTING POINT APPARATUS (HIGH TEMPERATURE)

- This melting point is designed to analyze a sample materials accurately, quickly and precisely over a broad temperature range.
- Usable to estimate the melting point of chemicals, pharmaceuticals, foods, plastics etc.,
- Choice of Oil Bath Model or Dry Block Model.
- The unit comprising heating block as a sample heating chamber which allows one sample to be tested at a time.
- The temperature is being controlled by Microprocessor based temp. controller having Digital display with PT-100 sensor.
- Sample is accommodated in standard melting point capillary tubes.
- Heating rate programmable 0.5°C to 5°C.

CAT NO.	MODEL	TEMPERATURE RANGE	TEMP. ACCURACY	TEMP. RESOLUTION
cic – 88 a	silicon oil bath type	40°C to 300°C	0.5°C	1°C
cic – 88 b	oil less dry block type	40°C to 300°C	0.5°C	1°C
cic – 88 c	oil less dry block type	40°C to 300°C	0.1°C	0.1°C



COD DIGESTOR

- Specially designed COD Digestor for COD method for monitoring waste water influent and industrial process water.
- Highly insulated Double walled Inner chamber of 304 SS & Exterior GI powder coated finish.
- The temperature is being controlled by Microprocessor based PID Temp. Controller with DIGITAL indicator & PT-100 as a sensor.
- Digital Timer of 120 minute with Alarm.
- Selection of MODEL – 6 tubes, 12 tubes or 15 tubes.
- Suitable for 38 mm dia tubes and 600 mm Height air condenser.
- Temperature range :- 5°C above ambient to 250°C. ■ Temperature accuracy :- $\pm 1^\circ\text{C}$ to $\pm 2^\circ\text{C}$.

CAT. NO.	BLOCK SIZE (L X W X D)	HOLE SIZE/NOS.	GLASS TUBE SIZE	RATING (WATTS)
cic – 34 a	8" x 7" x 6"	40mm Dia x 80mm depth (6 Nos.)	38mm Dia. 3 x 2 Row	400
cic – 34 b	12" x 7" x 6"	40mm Dia x 80mm depth (12 Nos.)	38mm Dia. 6 x 2 Row	600
cic – 34 c	12" x 7" x 6"	40mm Dia x 80mm depth (15 Nos.)	38mm Dia. 5 x 3 Row	800

OPTIONAL ■ glass tubes, condenser, stainless sampling bath can be provided.



FREEZE DRYER (LYOPHILIZER)

- Most ideal for lyophilizing in serum bottles vials and ampoules or other small glassware.
- Chamber made of 304 SS and Outer made of GI sheets duly powder coated finish.
- Equipped with a Mechanically cooling system for condenser temperature (- 50°C or - 80°C)
- Vacuum gauge read from 1" to 30" Hg
- The Microprocessor based PID Temp. Controller with Dual Digital Indicator & PT – 100 Sensor.
- Selection of Model with drum type manifolds, with vertical type manifold or straight type manifold.
- Selection of capacity 3 Ltr., 6 Ltr. and chambers drying.
- Stainless steel manifolds are designed to provide maximum vapour flow and convenient access to all parts. Each ¾" port having quick seal valve for attaching variety of flask.
- With Suitable Vacuum Pump.

CAT NO.	CAPACITY	MANIFOLD	CONDENSER TEMPERATURE
cic – 75 a	3 Ltrs.	Drum Type with 8 Port	- 50°C
cic – 75 b	6 Ltrs.	straight vertical type with 12 port	- 50°C
cic – 75 c	12" Dia x 12" Depth	chamber type	- 50°C
CIC – 75 D	3 Ltrs.	Drum Type with 8 Port	- 80°C
cic – 75 E	6 Ltrs.	straight vertical type with 12 port	- 80°C
cic – 75 f	12" Dia x 12" Depth	chamber type	- 80°C

OPTIONAL

- Microprocessor based PID Temp. Controller with Printer output facility is required to record PV, SV, Actual Date/Time etc with variable print time interval, with 5000 line memory & Audio alarm facility in case of memory full.
- Digital Vacuum Gauge with printing facility.



PHARMA / LAB REFRIGERATOR

- Double walled having SS 304 Inner and Exterior GI Powder Coated finish in REGULAR MODEL.
- Interior SS 304 and Exterior SS 304 matt finish in all GMP MODEL.
- Units are highly insulated by PUFF/Wool between the walls to minimize the heat exchange.
- Highly advanced CFC free cooling system includes hermetically sealed compressors, condensor & fan motor etc.
- A full length Inner glass door for observation of test without disturbing temperature equilibrium.
- A key lockable insulated door having positive door gasket seals door perfectly.
- Mechanical convection system (Motorized blower) ensures even air distribution within the chamber.
- Heating is provided by 'U' type SS air heaters.
- r emovable ss wiremesh shelves or ss rod type shelves.
- Automatic autotuning Microprocessor based PID Temp. Controller with Dual Digital Indicator & PT – 100 sensor.
- Electrical safety includes ELCB, Contactor and fuses.

CAT NO.	SIZE CAPACITY (L x W x D)	TEMP. RANGE TEMP. ACCURACY	SHELVES
cic – 97	20" x 18" x 32" (6 CFT, 170 Ltrs)	2°C to 8°C (Within ± 1°C)	3
cic – 97	24" x 22" x 36" (10 CFT, 285 Ltrs)	2°C to 8°C (Within ± 1°C)	3
cic – 97	24" x 24" x 36" (12 CFT, 342 Ltrs)	2°C to 8°C (Within ± 1°C)	3
cic – 97	26" x 26" x 36" (14 CFT, 400 Ltrs)	2°C to 8°C (Within ± 1°C)	4
cic – 97	28" x 28" x 40" (18 CFT, 520 Ltrs)	2°C to 8°C (Within ± 1°C)	5
cic – 97	36" x 36" x 40" (30 CFT, 850 Ltrs)	2°C to 8°C (Within ± 1°C)	6
cic – 97	38" x 38" x 44" (36 CFT, 1040 Ltrs)	2°C to 8°C (Within ± 1°C)	8

OPTIONAL

- SAFETY CONTROLLER required to take over control in case of Temp. overshoot or if main PID Temp. Controller fails.
- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- TOUCH SCREEN HMI facility.
- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- TIMER facility.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management.
- s tandby cooling system
- Temperature Scanner having 4 temp. probes to monitor and record temp. inside the equipment with printing facility.



DEEP FREEZER

- Ideally designed for storage of Blood components, serum, vaccines and medicines.
- Double walled Inner SS 304 and Exterior GI Powder Coated finish in REGULAR MODEL.
- Interior 304 SS and Exterior 304 SS matt finish in GMP MODEL.
- The high compressed puff insulation provided in between the wall to minimize the heat loss.
- Microprocessor based PID Temp. Controller with Dual Digital Indicator & PT – 100 sensor.
- The Cooling Kit includes hermetically sealed compressor, condenser, fan motor etc. and are safely placed on top/bottom of the unit. Cooling Refrigerant is CFC free.
- Highly insulated front opening door with silicone gasket having lockable handle provided for easy opening and closing of door.
- Low Wattage heater provided on door to avoid freezing of door
- SS wire mesh shelves and SS lockable drawers in different model.

CAT. NO.	INNER SIZE (L X W X HT)	CAPACITY	TEMP. RANGE	SHELVES	TEMP. ACUURACY
cic – 39 a	20" x 18" x 32"	6 CFT/170 LTR.	-0°C to -20°C	3	Within $\pm 2^{\circ}\text{C}$ to $\pm 3^{\circ}\text{C}$
cic – 39 b	24" x 22" x 36"	10 CFT/290 LTR.	-0°C to -20°C	4	Within $\pm 2^{\circ}\text{C}$ to $\pm 3^{\circ}\text{C}$
cic – 39 c	32" x 24" x 38"	17 CFT/480 LTR.	-0°C to -20°C	5	Within $\pm 2^{\circ}\text{C}$ to $\pm 3^{\circ}\text{C}$
CIC – 39 D	20" x 18" x 32"	6 CFT/170 LTR.	-10°C to -50°C	3	Within $\pm 2^{\circ}\text{C}$ to $\pm 3^{\circ}\text{C}$
cic – 39 E	24" x 22" x 36"	10 CFT/290 LTR.	-10°C to -50°C	4	Within $\pm 2^{\circ}\text{C}$ to $\pm 3^{\circ}\text{C}$
cic – 39 f	32" x 24" x 38"	17 CFT/480 LTR.	-10°C to -50°C	5	Within $\pm 2^{\circ}\text{C}$ to $\pm 3^{\circ}\text{C}$
cic – 39 g	20" x 18" x 32"	6 CFT/170 LTR.	-30°C to -70°C	3	Within $\pm 2^{\circ}\text{C}$ to $\pm 3^{\circ}\text{C}$
cic – 39 h	24" x 22" x 36"	10 CFT/290 LTR.	-30°C to -70°C	4	Within $\pm 2^{\circ}\text{C}$ to $\pm 3^{\circ}\text{C}$
cic – 39 i	32" x 24" x 38"	17 CFT/480 LTR.	-30°C to -70°C	5	Within $\pm 2^{\circ}\text{C}$ to $\pm 3^{\circ}\text{C}$

OPTIONAL

- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- TOUCH SCREEN HMI facility.
- AUDIO ALARM facility to alert for Temp. Overshoot/undershoot.
- TIMER facility.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management.
- Temperature Scanner having 4 temp. probes to monitor and record temp. inside the equipment with printing facility.

-86°C DEEP FREEZERS AVAILABLE

DIGITAL FLOCCULATOR (JAR TESTER)

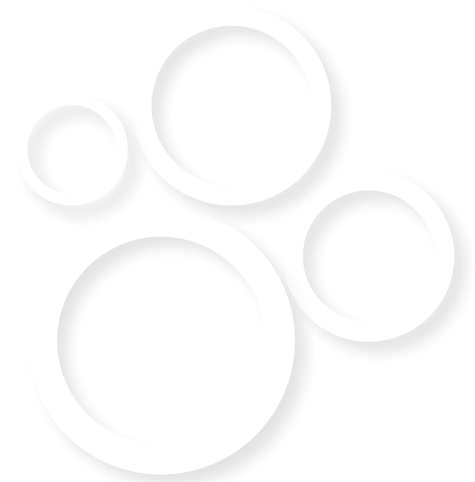
- Ideal for determine optimum coagulant concentration to ensure efficient flocculation and save the cost.
- Light weight G.I housing finished in powder coated shade.
- Available in 4 or 6 paddle models for lab or field use.
- paddles are driven by electronically controlled variable speed electronic brushless stepper motor.
- Stirring paddles are made of stainless steel which reach a maximum depth of 9 inches.
- Stirring rods can be adjusted removed individually during mixing.
- Provide effective glare free illumination of floc samples by fluorescent tubes.
- Diffuse plate is constructed of acrylic plastic and projects diffused light through the floc samples.
- stirrers accept standard round 1 Lt. cap. glass beakers.



CAT NO.	OUTER DIMENSION	NO. OF PADDLES	SPEED DISPLAY COMMON	SPEED RANGE	SPEED ACCURACY
cic – 30a	10"D x 22"Ht x 30"W	4	Digital Red LED	5 to 150 rp M	± 1 rp M
cic – 30b	10"D x 22"Ht x 40"W	6	Digital Red LED	5 to 150 rp M	± 1 rp M
cic – 30c	10"D x 22"Ht x 30"W	4	individual speed control with common digital indicator	5 to 150 rp M	± 1 rp M
CIC– 30D	10"D x 22"Ht x 40"W	6	individual speed control with common digital indicator	5 to 150 rp M	± 1 rp M

OPTIONAL

- Digital Switch off timer with alarm of 99Hrs 59 min.



WRIST ACTION SHAKER



- This newly designed controlled wrist action shaker provides constant motion, from gentle shaking to virulent agitation.
- M.S./G.I. housing in Regular MODEL and choice for GMP MODEL having housing made of SS 316 / SS 304 Matt finish. ■ side arm adjusts shaking amplitude and speed.
- Maximum 300 stokes per minute.
- Most suitable to operate with any standard small volumetric flask Erlenmeyer flask funnels or test tubes. ■ operates on 230 volts.

OPTIONAL

- 500ml & 1000ml flask capacity available. Prices on request.
- Digital Timer of 99Hrs 59Min.
- Digital speed Indicator/Controller.

CAT NO.	MODEL FLASK CAPACITY
cic -100a	250 ml x 4 Nos.
cic -100b	250 ml x 8 Nos.
cic -100c	250 ml x 12 Nos.

MAGNETIC STIRRER WITH HOT PLATE

- A rugged appliance for bench heating and stirring jobs.
- A combination of a magnetically linked stirring system and Hot Plate.
- A housing and Hot Plate made of stainless steel.
- Stirring is performed by teflon coated Magnetic Paddle with solid state speed controller.
- Selection of controller Energy regulator or PID Temp. controller.

CAT NO.	SIZE CAPACITY	WATTS	MAX SPEED RPM
cic -58a	500 ML	200	1200
cic -58b	1 Lt .	300	1200
cic -58c	2 Lt .	450	1200
CIC-58D	3 Lt .	450	1200
cic -58E	5 Lt .	600	1200
cic -58f	10 Lt .	1200	700
cic -58g	20 Lt .	2000	700

Optional Digital RPM Indicator Available. Prices on request.



AGEING OVEN (REGULAR – GMP – MODEL)

- Most suitable for Ageing test of PVC and rubber.
- Solid aluminum heating block (circular) to accommodate cylinder cells.
- The aluminum cell has a center hole at the bottom which allows to enter pre-heated air from a small diaphragm pump, the air changes per hour are same through all the cells.
- The Temp. is being controlled by Automatic autotuning type Microprocessor based PID Temp. Controller with Dual Digital Indicator and PT-100 sensor.
- The system incorporate with Digital timer of 99 hours.
- Selection of Model 7 cells or 19 cells as per BS specification.

CAT NO.	MODEL CELL NO.	CELL SIZE	TEMP. RANGE	TEMP. ACCURACY
cic - 102	7	75 mm Dia x 305 mm ht.	10°C above ambient to 230°C	Within $\pm 2^{\circ}\text{C}$
cic - 102	19	75 mm Dia x 305 mm ht.	10°C above ambient to 230°C	Within $\pm 2^{\circ}\text{C}$

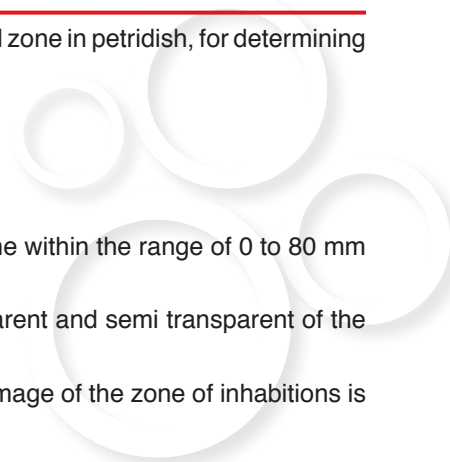
Model with Working Temp. upto 350°C available.



ANTIBIOTIC ZONE READER (REGULAR – GMP – MODEL)

- This is very compact and designed for measuring the diameter of finished zone in petridish, for determining the strength of antibiotic materials.
- Ext. GI Powder Coated in REGULAR MODEL.
- Unit made of SS 316 or SS 304 in GMP MODEL.
With Accuracy of 0.1 MM.
- This Antibiotic Zone Reader measures the diameter of the inhibited zone within the range of 0 to 80 mm with accuracy of 0.1 mm.
- The light from inside source of the base passes up through the transparent and semi transparent of the Agar then to a reflecting mirror situated in an arm above the unit.
- The mirror reflects the light to a glass prism mounted at the magnified image of the zone of inhibitions is clearly visible on the prism.

CAT NO.	VOLTS	MODEL
cic - 89	230	precision Model



TUBE FURNACE (REGULAR – GMP – MODELS)

- Newly designed for all applications and process requiring excellent radial and perfect temperature uniformity.
- Heavy Gauge MS exterior finished in powder coated shade in REGULAR MODEL.
- This ultra light weight laboratory tube furnace have exclusive ceramic fiber insulation.
- Microprocessor based PID Temp. Controller with Dual Digital Indicator and CR/AL Sensor.
- Housing made of heavy gauge SS with matt finish in GMP MODEL.
- The control system includes over Temperature Solid State Safety fuse which cuts the power in case of temperature overshoot.
- Max. Temperature:- 350°C to 1200°C. Working temp:- 400°C to 1160°C.
- Operates on 230 Volts.

CAT NO.	TUBE SIZE	WATTS
cic – 107 a	20 mm Dia x 10" Length	1.0 k.w.
cic – 107 b	25 mm dia x 12" Length	1.5 k.w.
cic – 107 c	30 mm dia x 12" Length	1.8 k.w.
CIC – 107 D	60 mm dia x 12" Length	3.0 k.w.

OPTIONAL

- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.

MULTI MAGNETIC STIRRER (REGULAR – GMP – MODELS)

- Low profile, with maintenance free fully solid state Magnetic Stirrer.
- For stirring upto 1000 ml six or twelve vessels simultaneously variable.
- Built in soft start and re-start facility with stepless variable speed control.
- Centering marks provided for positioning of vessels.
- Smooth surface easy to clean.
- Operates on 230 volts.

CAT NO.	MODEL STAGE	CAPACITY	SPEED RPM	SPEED CONTROLLER
cic - 46	4 place (2 x 2)	1000 ml	1200 rp M	individual c ontroller
cic - 46	6 place (2 x 3)	1000 ml	1200 rp M	individual c ontroller
cic - 46	4 place (2 x 2)	2000 ml	1200 rp M	individual c ontroller
cic - 46	6 place (2 x 3)	2000 ml	1200 rp M	individual c ontroller

FLAMEPROOF HOT AIR OVEN

- Inner made of heavy guage SS 304 & Exterior made of GI Powder Coated Shade in REGULAR MODEL.
- Inner made of heavy guage SS 304 & Exterior SS 304 Matt/Buf finish in GMP MODEL.
- The high grade compressed glasswool/cerawool insulation is provided in between the wall to minimize the heat loss.
- The Temp. is being controlled by FLP PID Temp. Controller with FLP PT-100 class A sensor.
- The Air Circulation is being performed by FLP heavy duty motorized blower firmly installed at the top of the oven for better internal circulation & Temp. uniformity.
- The Heating is provided by FLP SS Rod Type Heater clamped at 2 sides of the chamber having SS perforated bottom.
- A fully insulated door with perfectly sealed food grade silicon gasket is provided.
- A strong and easy mechanism of designed SS hinges & ball catch or handle lock to open/close the door is provided.
- t emp. r ange: 50°C to 250°C
t emp. accuracy: $\pm 1^\circ\text{C}$ to $\pm 2^\circ\text{C}$.

CAT NO.	INNER SIZE (W x D x Ht)	CAPACITY	SHELVES
cic – 18a	18" x 18" x 18"	3.4 CFT / 96 Ltrs.	2
cic – 18b	24" x 24" x 24"	8 CFT / 228 Ltrs.	3
cic – 18c	24" x 24" x 36"	12 CFT / 342 Ltrs.	3
CIC – 18D	28" x 28" x 40"	18 CFT / 515 Ltrs.	3
To be operated on 440 Volts/ 3 Phase			

OPTIONAL

- FLP Safety Controller to take over control incase of Temp. overshoot or if main FLP Temp. Controller is out of order.
- PRINTER OUTPUT: facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory



DUAL CHAMBER

- Double walled having SS 304 Inner and Exterior GI Powder Coated finish in REGULAR MODEL.
- Interior 304 SS buffed finish and Exterior SS 304 matt finish in all GMP MODEL.
- Units are highly insulated by Glasswool between the walls to minimize the heat exchange.
- Highly advanced CFC free cooling system includes hermetically sealed compressors, condensor fan motor etc. in cooling model.
- A key lockable insulated door having positive door gasket seals door perfectly.
- Mechanical convection system (Motorized blower) ensures even air distribution within the chamber.
- Heating is provided by 'U' type SS air heaters.
- r emovable ss wiremesh shelves or ss rod type shelves.
- Independent Automatic Autotuning Microprocessor based PID Temp. Controller with Dual Digital Indicator & PT - 100 sensor for both chambers.

CAT NO.	COMPARTMENT - I (W X D X Ht)	COMPARTMENT - 2 (W X D X Ht)	TOTAL CAPACITY	WATTS
cic - 29a	18" x 18" x 18"	18" x 18" x 18"	192 Ltrs	4000
cic - 29b	24" x 24" x 24"	24" x 24" x 24"	456 Ltrs	6000
Combination of Cooling Model Temp. range 2°C To 8°C/-20°C also available in above mentioned sizes, Prices on request.				

OPTIONAL

- PRINTER OUTPUT: facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- SAFETY CONTROLLER : required to take over control in case of Temp. overshoot or if main PID Temp. Controller fails.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management.
- AUDIO ALARM: facility to alert for Temp. Overshoot/undershoot.
- ti MEr f acility.
- TOUCH SCREEN HMI facility.
- Temperature Scanner having 4 temp. probes to monitor and record temp. inside the equipment with printing facility.



HEATING MANTLE (REGULAR – GMP – MODELS)

- aluminium housing – non rusting.
- Powder Coated Finish in REGULAR MODEL.
- Body & Housing of SS 304 in GMP MODEL.
- Thick hand knitted fibre glass netting.
- High quality insulation.
- Energy regulator – power controller.
- Maximum surface temperature 350°C.
- booster heaters – in bigger sizes.
- Usable with round bottom flask.

CAT. NO.	FLASK CAPACITY	WATTS	CIRCUITS	VOLTS
cic – 1	50 ml	60	1	230
cic – 1	100 ml	60	1	230
cic – 1	250 ml	150	1	230
cic – 1	500 ml	200	1	230
cic – 1	1 Litre	300	1	230
cic – 1	2 Litre	450	1	230
cic – 1	3 Litre	500	1	230
cic – 1	5 Litre	600	1	230
cic – 1	10 Litre	2 x 500	2	230
cic – 1	20 Litre	3 x 600	3	230
cic – 1	50 Litre	6 x 600	3	440
cic – 1	100 Litre	6 x 900	3	440
cic – 1	200 Litre	9 x 900	3	440

OPTIONAL

- MICROPROCESSOR BASED PID TEMP CONTROLLER facility.



Digital Heating Mantle

AUTOMATIC CO₂ INCUBATOR (WATER JACKETED REGULAR – GMP – MODELS)



- Triple walled in construction with Inner Jacket made of SS 304 and Exterior made of GI sheet duly finished in powder coated shade.
- The high grade layer of compressed foam Insulation provided in between the Jacket and wall to avoid heat exchange.
- The Temp. is being controller by Microprocessor Based PID Controller with % Indicator and imported TC Sensor.
- The Temp. is being controller by Microprocessor Based PID Temp. Controller with Digital Indicator and PT-100 sensor.
- All control grouped at top of the unit for easy access.
- Temp. Range: 5°C Above Ambient to 60°C, Temp. Accuracy: ± 0.1°C, Temp. Uniformity: ± 0.2°C
- co₂ range: 0% to 20%, co₂ Uniformity: ± 0.2%, CO₂ stability: 0.1%
- The Shelves are adjustable to relocate at desired height if needed.
- The Humidity Pan supplied for natural humidification upto 98% RH at 37°C.
- The unit includes the following
 - 1) Online filters to prevent contamination.
 - 2) audible and Visible alarm indicates c o₂ deviation 1% above or below set point.
 - 3) Low watt Heater in Outer Door prevents contamination.
 - 4) Automatic shut off prevent gas dumping if power fails.
 - 5) t he matched thermister c o₂ sensor.
 - 6) audible and visible alarm indicates t emperature deviations 1°c above or below set point.

CAT NO.	INNER CHAMBER SIZE (W x D x Ht.)	SHELVES	CAPACITY
cic - 73 a	14" x 14" x 14"	2	45 Ltrs.
cic - 73 b	18" x 18" x 18"	2	96 Ltrs.
cic - 73 c	20" x 20" x 28"	3	184 Ltrs.

NOTE: If Cooling in above chamber required then it can be provided from 15°C to 60°C. Prices on request.

OPTIONAL

- PRINTER OUTPUT facility required to record PV, SV, Actual Date/Time with variable print time interval, 5000 line memory & Audio alarm facility in case of memory full.
- 21 CFR PART 11 COMPLIANCE SOFTWARE for Data Management.
- co₂ r egulator with charging line.

HOT PLATE (RECTANGULAR / ROUND)

RECTANGULAR / ROUND SHAPE MODEL FEATURES

- Plates are in Rectangular/Round Shape.
- Top plate over hangs by supporting MS/SS pillars which allows air insulation between plate and control compartment to keep control compartment cool.
- Long Lasting nichrom Elements.
- Body made of thick mild steel/GI sheet duly finished in powder coated shade in REGULAR MODEL.
- Body made of SS 304 & plate also made of SS 304 in GMP MODEL.
- Microprocessor based PID Temp. Controller with Dual Digital Indicator & PT - 100 sensor.
- Max. Surface Temp. : 300°C.
- operates on 230 Volts a.c .

REFERENCE - MODEL - ROUND

CAT NO.	SIZE OF PLATE	WATTS
cic - 10 a	8" Dia	1.0 k.w.
cic - 10 b	9" Dia	1.5 k.w.
cic - 10 c	12" Dia	2.0 k.w.

Heavy Duty Model For Working Temp. Range 350°C/400°C Available. Price On Request.

REFERENCE - MODEL - RECTANGULAR

CAT NO.	SIZE OF PLATE	WATTS
cic - 11 a	10"W x 16"L	1.0 k.w.
cic - 11 b	12"W x 18"L	2.0 k.w.
cic - 11 c	18"W x 24"L	3.0 k.w.

Heavy Duty Model For Working Temp. Range 350°C/400°C Available. Price On Request.





LAMINAR AIR FLOW CABINET

M.O.C: In MS powder coated in REGULAR MODEL.

In SS 304 Matt/Buf finish in GMP MODEL.

Filter Details:

Minipleat HEPA filter - EU-13 rating (99.997% down to 0.3 micron).

Type of HEPA Filter Media: Make - M/s. Lydall/ M/s. Hollingsworth & Vose
sealant - polyurethane

Pre Filter - EU – 5 rating (Eff.: 95% down to 5 micron) at working side

Face Velocity - Face Velocity of HEPA is adjustable from 90 ± 20 FPM

Air Cleanliness & Filter Efficiency - Dust counts exceeds Class 100 requirements as per ISO-14644 & IEST-RP-CC001.3

Motor Blower - Custom built drive type motor with blower which is Dynamically & Statically balanced blower for less vibration & noise level.

Instrumentation & Accessories :

Lights Intensity - U.V Light - 1 No And Diffused Fluorescent Lighting to provide an intensity of 300 Lux White Light

Magnehelic Gauge - Digital, Range: 0 to 25 mm (to check Pressure drop across the Hepa filters)

Electrical Switches - On /Off Switch & indicator for Motor Blower

On/Off Switch for Light

(220V, Single Phase, 50Hz, Lighting additional power point included 15/5 Amps switch socket combine)

Documentation:

DQ/IQ/OQ/PQ will be provided at the time of Installation also with MOC Certificate of SS 304 and Filter Test Certificate

REFERENCE – MODEL - HORIZONTAL

CAT NO.	WORKING AREA	SIZE OF FILTER	HEPA FILTER	PRE FILTER	ILLUMINATION WITH UNIT	U.V. LIGHT
cic - 128 a	2' x 2' x 2'	2' x 2' x 3"	1	1	1 x 20 watts	1 x 3'
cic - 128 b	3' x 2' x 2'	3' x 2' x 3"	1	1	2 x 20 watts	1 x 3'
cic - 128 c	4' x 2' x 2'	4' x 2' x 3"	1	1	2 x 40 watts	1 x 3'

REFERENCE – MODEL - VERTICAL

cic - 129 a	2' x 2' x 2'	2' x 2' x 3"	1	1	1 x 20 watts	1 x 3'
cic - 129 b	3' x 2' x 2'	3' x 2' x 3"	1	1	2 x 20 watts	1 x 3'
cic - 129 c	4' x 2' x 2'	4' x 2' x 3"	1	1	2 x 40 watts	1 x 3'

21 CFR COMPLIANCE SOFTWARE

ZEMSCAN ALARM TEMPERATURE 8 CHANNEL:

Lupin Ltd.
Preparing Report

Equipment Model: 801000000
Equipment Serial: 2101000000
From Date & Time: 21/03/2019 9:00:00
To Date & Time: 21/03/2019 9:00:00

Print & Load: 400 x 300
Printed By: JCD/IN
Print Date & Time: 21/03/2019 9:00:00

Date	Time	Temperature °C							
		T1	ALM	T2	ALM	T3	ALM	T4	ALM
20/03/2019	13:36	499.9	SA	499.7	SA	499.7	SA	499.7	SA
20/03/2019	13:37	499.9	SA	499.7	SA	499.7	SA	499.7	SA
20/03/2019	13:38	499.7	SA	499.7	SA	499.7	SA	499.7	SA
20/03/2019	13:39	499.7	SA	499.7	SA	499.7	SA	499.7	SA
20/03/2019	13:40	499.7	SA	499.7	SA	499.7	SA	499.7	SA
20/03/2019	13:41	499.9	SA	499.7	SA	499.7	SA	499.7	SA
20/03/2019	13:42	499.9	SA	499.7	SA	499.7	SA	499.7	SA
20/03/2019	13:43	499.9	SA	499.7	SA	499.7	SA	499.7	SA
20/03/2019	13:44	499.9	SA	499.7	SA	499.7	SA	499.7	SA
20/03/2019	13:45	499.9	SA	499.7	SA	499.7	SA	499.7	SA
20/03/2019	13:46	499.9	SA	499.7	SA	499.7	SA	499.7	SA
20/03/2019	13:47	499.9	SA	499.7	SA	499.7	SA	499.7	SA
20/03/2019	13:48	499.9	SA	499.7	SA	499.7	SA	499.7	SA
20/03/2019	13:49	499.9	SA	499.7	SA	499.7	SA	499.7	SA
20/03/2019	13:50	499.7	SA	499.7	SA	499.7	SA	499.7	SA
20/03/2019	13:51	499.7	SA	499.7	SA	499.7	SA	499.7	SA

Examine Pro

Password

Password:
Reason for Activity:

Data Acquisition

Water Level Alarm Detected

Save As

File name: backup_21_May_2013_11_30.dbl
Save as type: (*.dbl;*.dbf) Files

FEATURES

- browser based software
- real time analysis
- graphical analysis
- first time user Login change password
- password Encryption
- alpha numeric password and password ageing
- authorized multilevel username & password.
- Data acquisition
- Data generated on pDf report.
- real time parameter setting.
- auto Logout, account blocking & reactivating facility.
- Log Data, Event and audit trail Data recording
- secured audit trail (alarm)
- changeable sV temp. from software



NOTES

Our national & international presence

USA, Africa, Kenya, Abu Dhabi, Oman, Iran, Bangladesh, Nepal, Malaysia, Thailand, Indonesia, Singapore
Hyderabad, Chandigarh, Mumbai, Gujarat, Goa, Bangalore, Kolkata, Vizag, Chennai, Karnataka, Indore



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