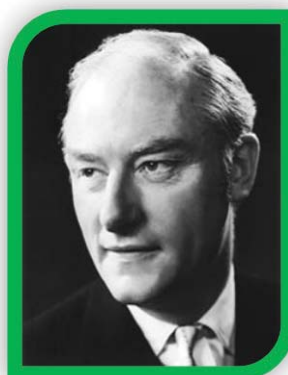


Chapter 7: Molecular and BioTech products



James Dewey Watson
April 6 1928



Francis Crick
8 June 1916 - 28 July 2004

James Dewey Watson and Francis Crick are two scientist from USA and UK respectively. They won the Nobel prize in 1962 for the discovery of the structure of DNA. The famous double helix structure was found using x-ray diffraction. A great discovery in the field of microbiology and genetics, it enabled greater study of the DNA. DNA is a nucleic acid which contains genetic information used in the development and functioning of the cell which is basic building blocks of life.

Study of the DNA will help us get a better understanding of diseases and help us find a cure. DNA holds the genetic 'codes' to make RNA. In turn, RNA is needed in your body because it holds the codes for the amino acids that make proteins. A famous quote from Watson was "Science moves with the spirit of an adventure characterized both by youthful arrogance and by the belief that the truth, once found, would be simple as well as pretty."

We at ScichemTech, we have eminent scientists and research scholars working for us and who follows the foot steps of "Watson and Crick". we are one of the few companies in the world who has dedicated to the " Genetic Engineering (Molecular Biology) and Bio-Technology (Bio-Tech). We ScichemTech always keep our motto "Serving the Science and Industry" progressing, In this Chapter our R & D has developed few commonly used products which are used in the Bio-Science and Bio-Tech industries. This time we have some Sample preparation equipments and techniques, Electrophoresis and related instruments, Some Gene manipulation instruments like Gene Guns, Electroporator, and techniques, Sample storage solutions Refrigerators, Deep freezers , Freeze dryers and Ultra low freezers and Liquid nitrogen containers. We dedicate this complete chapter to Watson- crick and all the Scientists who have contributed for the Molecular Biology / Bio-technology/Nano- Bio and related research.

ScichemTech Mol-Biol Team.

SCT-HAEMATO : DIGITAL DIFFERENTIAL CELL COUNTERS

SALIENT FEATURES:

- SCT-HAEMATO Differential Cell Counters are designed with creativeness to get the elegance and produced with proper quality and meets the specifications for the Haematological applications with high level performance.
- SCT-HAEMATO has the Soft-touch keys let you count faster and have less fatigue than you have ever experienced with the mechanical counters.
- SCT-HAEMATO has a separate 2-digit display for each cell type plus a 3-digit display for the total number of cells counted.
- SCT-HAEMATO has an Alarm actuates every 100 counts.
- SCT-HAEMATO has 12 keys to count the cells with better options.
- SCT-HAEMATO has the total percentage key, which enables the user to save the time consuming calculations.
- Conforms to the international standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.001.01	
MODEL NO.	SCT-HAEMATO	
Keypad	Twelve counting keys plus TOTALPERCENT, CONTI, +/+, CLEAR keys "Soft-touch" keys with audible click to acknowledge entry	
Display	Separate 2-digit LED displays for each channel and every LED goes up to 99. A 3-digit total channel is increased by one digit whenever the corresponding counting key is depressed. Available to count up to 999.	
Key functions	Counting keys	Each key enters a count into a separate channel and into the TOTAL channel. NON TOTAL key Enters a count into a separate channel, but not into the TOTAL channel.
	T 1% key	Total, otherwise calculating percentage
	CONTI key	You can get counts more than 100.
	+/- key	Adding or subtracting the numbers counted by SIP key to totalize
	CLEAR key:	Clears all channels
Dimensions	180W x 250D x 85H(mm)	
Net Weight	1 kg	

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.001.01	SCT-HAEMATO	SCT-HAEMATO : DIFFERENTIAL CELL COUNTER is supplied complete with the instruction manual.

SCT-MICRO ENUMER : DIGITAL COLONY COUNTERS SOFTWARE DRIVEN

SALIENT FEATURES:

- SCT-MICRO ENUMER Digital Colony counters are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the Microbiological applications with high level performance.
- SCT-MICRO ENUMER has made for reliable and traceable counting of bacterial colonies growing on any nutrient agar in petri-dishes with a wide range of diameter from 60~150mm.
- SCT-MICRO ENUMER has the pressure sensor design enables the counter being used by any kind marking pen.
- SCT-MICRO ENUMER has a nice digital 0.6" LED display, with four digits up to 9999 makes the user to see clearly and counts.
- SCT-MICRO ENUMER has a ring shaped illumination lamp with electronic ballast results in glare-free light without blinding or noise and makes operator working comfortable without eyestrain.
- SCT-MICRO ENUMER has an Innovative PC software empowers the user recording, tracing, or reporting data of sample number, date, user's name, row count, dilution factor, total count, dilution factor, total count, etc.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.002.01
MODEL NO.	SCT-MICRO ENUMER
Readout	4 digit (0~9999) bright red 0.6" LED display
Magnification	2~3X
Petri-dish size	60~150 mm diameter
Zero reset	Yes
Count back	Yes
Illumination	Glare-free ring-shaped lamp
Pressure sensitivity	Adjustable
Output	RS232
Dimension	W313 mm x H360 x D346 mm
Net Weight	5.2 kg
Gross Weight	6.4 kg

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.002.01	SCT-MICRO-ENUMER	SCT DIGITAL COLONY COUNTER is supplied complete with the instruction manual.

SCT-GRIND 1 : SEMI-AUTOMATED GLASS BATCH TISSUE GRINDERS / HOMOGENIZERS

SALIENT FEATURES:

- SCT GRIND-1 SEMI-AUTOMATED DIGITAL GLASS TISSUE GRINDERS / HOMOGENIZERS - are designed with creativeness to get the elegance and produced with proper quality , and meets the specifications for the applications with high level performance.
- SCT GRIND-1 has the combination of both the Potter-Elvehjem glass tissue grinder with PTFE pestle with the stainless steel rods, operates with the semi-automated Over head stirrer which is used as a grinder.
- SCT GRIND-1 has a Digital Over head homogenizer provides RPM and the torque for the homogenizing or mixing of the samples. It gives digital display of 50- 2200 RPM with the maximum power of 120 watt.
- SCT GRIND-1 operates with low speed, high torque and less noise, which enables the user to grind or quick homogenization of any soft plant or animal tissues.
- SCT GRIND-1 has glass tubes with 1,3,5,10,20 and 50 ml capacities for various applications, in which 10 & 20 ml comes as a standard with the instrument. Others are optional.
- SCT GRIND-1 has many applications in the biological field, however SCT recommends for extracting the mitochondria and the cytoplasm from the tissues. Also we recommend it for the soft grinding of any tissues, such as liver and brain tissues.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.

TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.003.01
MODEL NO.	SCT-GRIND-1
Motor Speed (rpm)	50-2200 rpm adjustable.
Maximum Power	120W
Homogenate Tube Size	10 ml, 20 ml, one each.
Optional bottle size	1 ml, 3 ml, 5 ml, 50 ml
Net Weight	12 Kg
Packing size	345x345x710 mm
Power Supply	100V - 240V / 50-60 Hz

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.003.01	SCT-GRIND-1	SCT Electric Glass Homogenizer is supplied with 10ml, 20ml glass tubes and the instruction manual

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTIONS
SCT-107.003.AA	Homogenate Probe Tip
SCT-107.003.AB	Glass Grinding Tube bottle 3ML
SCT-107.003.AC	Glass Grinding Tube bottle 5ML
SCT-107.003.AD	Glass Grinding Tube bottle 10ML
SCT-107.003.AE	Glass Grinding Tube bottle 20ML



SCT-GRIND 2 : HIGH SPEED HAND HELD HOMOGENIZERS

SALIENT FEATURES:

- SCT-GRIND 2 HIGH SPEED BATCH DIGITAL HAND HELD HOMOGENIZERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the Biological applications with high level performance.
- SCT-GRIND 2 has a digital display to show and see the speed. It has the high speed between 8000 to 30000 rpm.
- SCT-GRIND 2 is a hand held type with the wide range capacity of 0.2 ml upto 120 ml.
- SCT-GRIND 2 has a high speed rotor operating at close clearance to stator draws material in from the bottom of the mixing vessel and subjects it to intense mixing and shearing action.
- SCT-GRIND 2 has a The rotor accelerates the product towards the blades periphery. There it is expelled through the stator openings into the body of the mix while undergoing an intensive mechanical and hydraulic shearing action. Simultaneously new material is drawn in.
- SCT-GRIND 2 Digital High-Speed Homogenizers are ideal for batch homogenizing of cell tissues, emulsifying suspended solids, and air pollution filter extraction and is used to homogenize, emulsify, and disperse material in pharmaceutical, cosmetics, food, chemical, petrochemical industry, etc.
- SCT-GRIND 2 is supplied with 10 mm blade as a standard and 6 mm & 8 mm as an optional blades. The unit is portable & light in weight around 1kg only.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.003.02
MODEL NO.	SCT-GRIND-2
Motor Speed (rpm)	8000 - 30000 rpm
Speed display	Digital display
Speed mode	Stepless speed
Capacity (ml)	0.2 ml -120 ml
Accessories	10 mm
Total weight	1 kg
Power	160 W
Voltage	220V 50/60 Hz

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.003.02	SCT-GRIND-2	SCT High speed homogenizer is supplied completely with the instruction manual.

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTIONS
SCT-107.003.BA	S.S. BLADE 6MM
SCT-107.003.BB	S.S. BLADE 8MM

SCT-GRIND 3 : BENCH TOP DIGITAL HIGH SPEED BATCH HOMOGENIZERS

SALIENT FEATURES:

- SCT-GRIND 3 HIGH SPEED BATCH HOMOGENIZERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the heavy and large Biological /Industrial samples & applications with high level performance.
High speed mechanical and hydraulic shear forces are the real key to the success of this machine. Rotor & stator generates a shearing action which insures that materials being processed are subjected to thousands of shearing actions each minute. Shielded in a 316 stainless steel shaft, the rotor acts as a centrifugal pump to recirculate the liquid and suspended solids through the generator, where shear, impact, collision, and cavitation provide rapid homogenization.
- SCT-GRIND 3 has a wide capacity range from 2 ml till 10, 000 ml, which enables the user with a wide range of samples. We supply 3 sizes SS blades 10, 14 and 18 mm as an optional tool, enduser can select as per their requirement.
- SCT-GRIND 3 has a power full brushless high speed miniature motor with 360 watt power which operates the unit from 2800 till 28, 000 RPM, with digital display & control. This makes the unit to handle quickly even toughest tissue samples, emulsions and dispersions.
- SCT-GRIND 3 has a timer contro from 1 to 10 minutes (variable) with control.
- SCT-GRIND 3 has a good or the platform to keep the homogenizing vessel & the platform is temperature controlled to keep the vessels and samples at the desired temperatures during operation. Many of the biological samples needs this facility to get the samples without loss or damage.
- SCT-GRIND 3 has a great power, which makes the unit to be used in many applications like DNA/ RNA and Protein extractions, all types of biological and bio chemical research applications. Also it is used in homogenizing emulsions & suspensions.
- SCT-GRIND 3 is supplied with the complete unit and 10 mm blade, 14 mm & 18 mm as an optional stainless steel cutting blades.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.003.03
MODEL NO.	SCT-GRIND-3
Process Volume	2ml to 1000ml
Speed Range	2800 – 28000 rpm Timing Range : 1-9.9 min. adjustable.
Temperature	-10°C – 40°C
Total weight	6.0 Kg
Profile size	320 x 220 x 430 mm
Blade size (mm)	10, 14 and 18 mm (Optional)
Net Weight (Kg)	6 to 8 Kg
Packing Size	360 x 300 x 560 mm
Voltage / Power	220V - 240V / 50-60 Hz / 360 W

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.003.03	SCT-GRIND-3	SCT GRIND High-Speed Homogenizer with the speed of 2800-28000 rpm adjustable with timer is supplied completely with the instruction manual.

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTIONS
SCT-107.003.CA	S.S. Blade 10 MM
SCT-107.003.CB	S.S. Blade 14 MM
SCT-107.003.CC	S.S. Blade 18 MM

SCT-GRIND 4 : DIGITAL PORTABLE ULTRASONIC HOMOGENIZERS

SALIENT FEATURES:

- SCT-GRIND 4 DIGITAL PORTABLE ULTRASONIC HOMOGENIZERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the Biological / Analytical samples & applications with high level performance.
- SCT-GRIND 4 is portable type of ultrasonic homogenizer which works on the cavitation bubble principle, which is more suitable for the biological cells and samples.
- SCT-GRIND 4 has a clear digital LED display, which enable the user to see the temperature and the frequency details.
- SCT-GRIND 4 has 250 watt as the maximum output power and it works with 6 mm sonicator tip which gives a uniform and efficient ultrasonic wave generation. It has the process volume from 10 to 1000 ml.
- SCT-GRIND 4 has the time and power setting and controlling separately. It has 0.199 minutes as the total time and the unit operates in the normal controlled temperature.
- SCT-GRIND 4 has a wide range of applications like disintegrating the cells / tissues of various kinds of animals and plants, viruses, bacteria, and as well as to reshape inorganic substances. It can be used in emulsification, separation, disruption, collection cleaning and nano-material preparation dispersion acceleration of chemical reactions etc.
- SCT-GRIND 4 DIGITAL PORTABLE ULTRASONIC HOMOGENIZER is supplied with 6 mm sonication tip as a standard option.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.003.04
MODEL NO.	SCT-GRIND-4
Processing Volume	10-100 ml
Max Output Power	250W
Size	95x210x280mm
Control Type	Switchover by hand or automation
Pulse Generator	Shut circulation 0.199s adjustable Open circulation 0.199s adjustable.
Total Time	0.199 minutes adjustable
Accompany Tip	6 mm
Supply	220V/50Hz

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO	DESCRIPTION
SCT-107.003.04	SCT-GRIND-4	SCT GRIND-4 Portable Ultrasonic Homogenizer 250W, Accompany with 6mm tip supplied complete with instruction manual

SCT GRIND : HIGH FREQUENCY ULTRASONIC HOMOGENIZERS

SALIENT FEATURES:

- SCT GRIND-5 / 6 / 7 & 8 BENCH TOP ULTRASONIC HOMOGENIZERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the Biological / Analytical samples & applications with high level performance.
- SCT GRIND- 5 / 6 / 7 & 8 works with the cavitation principle and the method to disrupt cells is ultrasonic disruption. The unit work by generating intense sonic pressure waves in a liquid media which causes streaming in the liquid and, under the right conditions, rapid formation of micro-bubbles which grow and coalesce until they reach their resonant size, vibrate violently, and eventually collapse. This phenomenon is called cavitation. The implosion of the vapor phase bubbles generates a shock wave with sufficient energy to break covalent bonds. Shear from the imploding cavitation bubbles as well as from eddying induced by the vibrating sonic transducer disrupt cell / tissue shapes.
- SCT GRIND-5 / 6 / 7 & 8 has processing volumes from 100 till 1200 ml
- SCT GRIND-5 is supplied with 6 mm tips as standard and the 3 mm as an optional one. It has the processing volume from 10 to 100 ml and works with 20-25 KHz frequency and 150 watt power.
- SCT GRIND-6 is supplied with 6 mm tips as standard and the 3 mm as an optional one. It has the processing volume from 10 to 200 ml and works with 20-25 KHz frequency and 250 watt power.
- SCT GRIND-7 is supplied with 20 mm tips as standard and the 15 and 25 mm as an optional one. It has the processing volume from 50 to 1000 ml and works with 19.5 -20.5 KHz frequency and 1200 watt power.
- SCT GRIND-8 is supplied with 25 mm tips as standard and the 20 & 28 mm as an optional one. It has the processing volume from 50 to 1200 ml and works with 19.5 -20.5 KHz frequency and 1800 watt power.
- SCT GRIND-5 / 6 / 7 & 8 are supplied with sound reduction chamber with a moving base or shelf.
- SCT GRIND-5 / 6 / 7 & 8 has many applications due to it's wide range of frequency and power options... applications including disruption of cells, bacteria, spores, emulsification of immiscible liquids, homogenization, uniform dispersion of particles in liquids, acceleration of reactions, depolymerization of large molecules and degassing of liquids. It can be used in emulsification, separation, disruption, collection cleaning and nano-material preparation dispersion acceleration of chemical reactions etc.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PROUDCT NO.	SCT-107.003.05	SCT-107.003.06	SCT-107.003.07	SCT-107.003.08
MODEL NO.	SCT-GRIND-5	SCT-GRIND-6	SCT-GRIND-7	SCT-GRIND-8
Frequency (KHz)	20 – 25 KHz		19.5-20.5 KHz	
Accompany (F)	φ 6		φ20	
Optional Tip (F)	φ 3		φ15, 25	φ 20,28
Processing Volume (ml)	10 – 100 ml	10-200 ml	50-1000 ml	50-1200 ml
Duty Ratio (%)	1-99%		0.1-99.9%	
Power (W)	150 W	250 W	1200 W	1800 W
Power supply chassis (mm)	400 '280' 220 (mm)		40 '28' 22 (cm)	
Weight (Kg)	7 kg		12.1 kg	13 kg
Mainframe Weight (Kg)	9.3 kg	9.5 kg	14.6 kg	15 kg
Dimensions (mm)	534 '295' 435 mm			
Power Supply (V/Hz)	220/110V 50Hz/60Hz			

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO	DESCRIPTION
SCT-107.003.05	SCT-GRIND-5	SCT GRIND Ultrasonic Homogenizer, including Sound Reducing Chamber, 150W, Accompany with φ6, Crushing Capacity 10-100ml supplied complete with instruction manual
SCT-107.003.06	SCT-GRIND-6	SCT GRIND Ultrasonic Homogenizer, including Sound Reducing Chamber, 250W, Accompany with φ6, Crushing Capacity 20-200ml supplied complete with instruction manual
SCT-107.003.07	SCT-CHOP-7	SCT GRIND Ultrasonic Homogenizer, Including Sound Reducing Chamber, 1200W, Accompany with φ15, Temperature Controlled Crushing Capacity 50-1000ml supplied complete with instruction manual
SCT-107.003.08	SCT-CHOP-8	SCT GRIND Ultrasonic Homogenizer, Including Sound Reducing Chamber, 1800W, Accompany with φ20, Temperature Controlled Crushing Capacity 50-1200ml supplied complete with instruction manual

SCT-GRIND 9 : HIGH PRESSURE HOMOGENIZERS

SALIENT FEATURES:

- SCT GRIND-9 HIGH PRESSURE HOMOGENIZERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the Bio & Pharmaceutical Industrial high level samples & Bacterial / Mycological applications with high level performance.
- SCT GRIND-9 has a powerful hydraulic pressure system, which extrudes, breaks and homogenizes the large volume thick walled cells and samples.
- SCT GRIND-9 has 170 mm maximum pressure stroke and 6.8 mm/s as the pressure plate speed.
- SCT GRIND-9 has 25 mm diameter stainless steel sample tubes. It can accommodate 50 ml / time.
- SCT GRIND-9 has a dial pressure gauge to get the actual applied pressure.
- SCT GRIND-9 is best to disrupt microbial cells . With the exception of highly filamentous microorganisms, the method has been found to be generally suitable for a variety of bacteria, yeast and mycelia.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.

TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.003.09
MODEL NO.	SCT-GRIND-9
Capacity	50 ml/times continuous increase samples for scientific research
Voltage	380V
Maximum operating pressure	256Mpa (37120PSI)
Pressure device	Hydraulic System
Max Pressure Stroke	170 mm
Sample tube	Φ25mm Stainless
Pressure plate spread	6.8mm/s
Dimensions	555 '600' 1170mm
Largest volume of sample	50ml/times



ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.003.09	SCT-GRIND-9	SCT High-Pressure Homogenizer 256 MPa is supplied completely with the instruction manual.

* Other optional accessories upon request

SCT-GRIND 10 : HIGH THROUGHPUT STEEL-BALLS TISSUE GRINDER

SALIENT FEATURES:

- SCT-GRIND 10 HIGH THROUGHPUT STEEL BALLS TISSUE GRINDERS/ HOMOGENIZERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the Biological samples and applications with high level performance.
- SCT-GRIND 10 has the capacity of grinding many samples at a time in a quick way using steel balls, it has the frequency of 3- 30 times / sec, power with 375 watt, it has the timer upto 99 minutes.
- SCT-GRIND 10 has the capacity to grind 2x96 pairs of samples in 3 minutes.
- SCT-GRIND 10 has the choice in dry grinding, wet grinding, mixing and homogenizing treatment.
- SCT-GRIND 10 has the special applications for grinding plant tissues, animal tissues, cells, bacteria and yeast, etc. even nucleic acid extraction is possible using this grinder.
- SCT-GRIND 10 has four different sample sizes 0.0-0.5 ml x 192 places, 1 ml x 172 places, 2 ml x 64 places, and 5 ml x 48 places.
- SCT-GRIND 10 is supplied with 100 steel balls . Grinding balls are used with deep well plates and vial sets to bead beat plant tissues, seeds, and animal tissues. These grinding balls are made of 440°C stainless steel which allows them to be retrieved with a magnet while making them resistant to tarnishing. Grinding balls are treated to remove residual oils and contaminants prior to packaging.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.

TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.003.10
MODEL NO.	SCT-GRIND-10
Grinding Frequency	3 ~ 30 times per second
Digital Timer	1 - 99 minutes
Power	375 W
Sample size	0.2 - 0.5 ml / 192 holes, 1 ml / 72 holes, 2 ml / 64 holes, 5 ml / 48 holes.
Dimensions (mm)	L 520 x W 365 x H 505 mm



ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.003.10	SCT-GRIND-10	SCT HIGH THROUGHPUT STEEL-BALLS TISSUE GRINDER is supplied with 100 of Steel Balls and with the instruction manual.

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTIONS
SCT-107.003.DA	0.2 - 0.5 ml / 192 holes
SCT-107.003.DB	1 ml / 72 holes
SCT-107.003.DC	2 ml / 64 hole
SCT-107.003.DD	5 ml / 48 holes.

* Other optional accessories and application notes upon request

SCT-CHOP : LABORATORY BLENDERS

SALIENT FEATURES:

- SCT-CHOP-1/2/3/4 BASIC LABORATORY BLENDERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCT-CHOP-1/2/3/4 are powerful and durable for grinding, blending, chopping, and processing
- SCT-CHOP-1/2/3/4 has range from 1 liter to 4 liters. With stainless steel or glass containers.
- SCT-CHOP-1/2/3/4 are suitable for all types of basic laboratory applications.
- SCT-CHOP-1/2/3/4 these laboratory blenders are used with both wet and dry ingredients, and are available in various sizes 1L, 1.2L, and 4L with varying speeds. (one speed, two speed and variable speed)
- SCT CHOP – 4 has provides two handles for safer, easier lifting, pouring and carrying.
- SCT-CHOP-1/2/3/4 has sealed, precision, hi-tech ball bearing system extends the life of our blenders.
- SCT-CHOP-1/2/3/4 encases its industry-leading 3.75-HP motor for quiet operation.
- SCT-CHOP-1/2/3/4 has deeper, wider, full traction rubber non-skid feet keep the blender stable.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

SCT-PRODUCT No	SCT-107.004.01	SCT-107.004.02	SCT-107.004.03	SCT-107.004.04
SCT-MODEL	SCT-CHOP-1	SCT-CHOP-2	SCT-CHOP-3	SCT-CHOP-4
CAPACITY (ML)	1000 ml	1200 ml	1200 ml	4000 ml
SPEED	One speed	Two speed with 60 minutes mechanical timer	Variable speed for mixing, stirring, blending and homogenizing	Off - Lo - Med - Hi - Pulse
CONTAINER TYPE	Stainless steel with handle and two piece vinyl and styrene lid .	Heat resistant glass with handle and two piece vinyl and styrene lid .	Stainless steel with handle and two piece vinyl and styrene lid .	stainless steel with stainless steel blades - stainless steel clamp-on lid with rubber gasket and stopper
BASE	Epoxy Coated Motor Housing	Epoxy Coated Motor Housing	Epoxy Coated Motor Housing	Die-cast gray epoxy coating
POWER SUPPLY (V/Hz)	220-240 V -50/60 Hz	220--240 V -50/60 Hz	220-240 V -50/60 Hz	220-240 V -50/60 Hz
HEIGHT (mm)	360 mm	410 mm	410 mm	665 mm
WEIGHT (Kg)	3.7 Kg	5.9 Kg	5.9 Kg	17.2 Kg

341

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.004.01	SCT-CHOP-1	SCT LABORATORY BLENDERS one speed, 1000 ml capacity supplied complete with instruction manual.
SCT-107.004.02	SCT-CHOP-2	SCT LABORATORY BLENDERS two speed, 1200 ml capacity supplied complete with instruction manual.
SCT-107.004.03	SCT-CHOP-3	SCT LABORATORY BLENDERS variable speed, 1200 ml capacity supplied complete with instruction manual.
SCT-107.004.04	SCT-CHOP-4	SCT LABORATORY BLENDERS Off-Lo-Med-Hi pulse speed, 4000 ml capacity supplied complete with instruction manual.

* Models/ Brands subjected to chance due to quality Impratement

SCT-CHOP 5 : FOOD LABORATORY BLENDERS

SALIENT FEATURES:

- SCT-CHOP-5 BASIC LABORATORY BLENDERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCT-CHOP-5 has a clear digital LCD display which displays the temperature, rattling time, rattling speed etc.
- SCT-CHOP-5 has a volume of 3- 400 ml capacity, it has the rattling spacing of 0-5 mm (adjustable), it has the soft start mode to start the shaking softly. It has the rattling time of 0.1 till 99 minutes.
- SCT-CHOP-5 is a commonly used Lab blender for all the basic food samples and used in the food labs. It has the rattling speed of 1:3 - 12 times / second (ie) 0.1 times /sec
- SCT-CHOP-5 has sample security functions, with auto –stop anti-trap features. It will stop or pause if the samples are not placed properly.
- SCT-CHOP-5 has a stainless steel slap box. Vibration free operations.
- SCT-CHOP-5 can accept all types of standard lab blender bags.
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.

TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.004.05
MODEL NO.	SCT-CHOP-5
Rating Time	0.1 – 99 minutes (to 0.1 minutes step) or 6 ~ 5940 seconds
Rattling Speed	1: 3 – 12 times / sec (to 0.1 times/second step) Display actual rattling numbers, the system automatically adjusts the slap speed Multi-stage programming can be designed, parametric groups can be set according to one's wishes.
Parameter storage	More than 10 groups of multi-stage programming parameters are stored.
Effective Volume	3 - 400 ml
Slap Box	Stainless Steel
Supply	220 VAC / 50 Hz
Weight	18.5 kg
Maximum Power	300 W
Sterile Bag	17 x 30 cm
Display	LCD
Rattling Spacing	0~5 mm adjustable
Soft-start mode	Gentle start
Dimensions	420 x 245 x 340 mm
Pause Function	To ensure sample security With auto-stop anti-trap features. Removable windows and adjustable slap board, toughened glass security door.



ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-106.004.05	SCT-CHOP-5	SCT Laboratory paddle Blender with LCD display, Rap Speed: 3-400ml, 3-12 times / sec, speed stepless, 10 groups of multi-stage programming parameters can save supplied complete with instruction manual

342

SCT-CHOP 6 : FOOD & MICRO LABORATORY BLENDERS

SALIENT FEATURES:

- SCT CHOP – 6 BASIC LABORATORY BLENDERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
 - SCT CHOP – 6 has a clear digital LCD display and a key board for setting the parameters and for programming.
 - SCT CHOP – 6 has 6-9 times / second as the rap speed. And timing as 30, 180, 600 seconds or it can work continuously.
 - SCT CHOP – 6 has a capacity of 3- 400 ml. with 500-1500 rpm
 - SCT CHOP – 6 has a wide range of applications in all food labs and in the food industries. It is used to blend many related samples.
 - Conforms to the international standards & CE safety standards
 - Manufactured under ISO 9001 : 2008 Quality Standards.
- The homogenizer can be widely used in the homogenization of animal tissue, biological sample, foodstuff and cosmetics, especially used in the preparation of micro-organic test sample, featuring soft homogenization without contamination, no damage, no temperature-rise, no sterilizing treatment to the sample and no need to wash the utensils. The most special feature of this device is that it is ideal for homogenizing tumor tissues (liver cancer, intestine cancer, stomach cancer and breast cancer), not only obtaining plenty of single cells (2×10⁵ /2minutes),
- Conforms to the international standards & CE safety standards
 - Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

MODEL NO.	SCT-107.004.06
PRODUCT NO.	SCT-CHOP-6
Timing	30, 180, 600 sec or (continuous working)
Rap Speed	6-9 times/sec
Capacity	3-400 ml
Motor Speed	500 – 1500 rpm
Attenuation	1:6
Display	LCD
Setting	Keyboard setting
Sterile homogenization bags	170x300 mm
Net weight	22.5 kg
Dimensions	400 x 350 x 300 mm
Packing Size	495 x 465 x 360
Power	300W
Supply	220V/50HZ

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.004.0.06	SCT-CHOP-6	SCT Laboratory Paddle Blenders, Rap Speed: 6-9 times / sec, 3-400ml, Microbe Tissue, LCD Display supplied complete with instruction manual

SCT CHOP : LABORATORY PADDLE BLENDERS

SALIENT FEATURES:

- SCT CHOP – 7 BASIC PADDLE LABORATORY BLENDERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCT CHOP – 7 has a clear digital LCD display which displays the temperature, rattling time, rattling speed etc
- SCT CHOP – 7 has a volume of 3- 400 ml capacity, it has the rattling spacing of 0-5 mm (adjustable), it has the soft start mode to start the shaking softly. It has the rattling time of 0.1 till 99 minutes.
- SCT CHOP – 7 is a commonly used Lab blender for all the basic food samples and used in the food labs. It has the rattling speed of 1:3- 12 times / second (ie) 0.1 times /sec
- SCT CHOP – 7 has sample security functions, with auto –stop anti-trap features. It will stop or pause if the samples are not placed properly.
- SCT CHOP – 7 has a stainless steel slap box. Vibration free operations. Sterile homogenizer, also known as tapping-type homogenizer is widely used in animal tissue, such as homogenization of biological samples, in food, medicines, cosmetics, clinical, molecular, toxins and bacteria can be applied fields of detection, in particular, samples to be tested for preparation of micro-organisms.
- SCT CHOP – 7 has The unit uses stainless steel system can effectively separate the solid sample surface and homogeneous micro-organisms are included in the sample, the sample packed in disposable sterile homogenization bags, do not touch the instrument, with homogeneous soft, sample no pollution, no damage, no heating, no sterilization, no washing utensils, satisfying fast, accurate and reproducible requirements. This product is also suitable for tumor tissue (such as liver, colon cancer, gastric cancer, breast cancer) homogenate, can be a large number of single cells (2 minutes up to 2 × 10⁵), if necessary, can be extended homogeneous time, on tissue cells (such as liver, etc.) to achieve a soft, broken can accept all types of standard lab blender bags.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.

TECHNICAL SPECIFICATIONS:

MODEL NO.	SCT-107.004.07
PRODUCT NO.	SCT-CHOP-7
Time	0.1 ~ 99 minutes (in 0.1 minutes step) that is 6 to 5940 seconds
Several slap:	1.0 ~ 12 times / sec (0.1 times / second step) shows the actual number of slap, slap the system automatically adjusts the speed, multi-stage programming: any combination of parameters, set
Parameters are stored:	99 Multi-programming parameter storage
Effective volume	3 ~ 400ml
Beat box	stainless steel
Maximum Power	300W
Aseptic bag	17x30cm
Slap spacing	0 ~ 20mm adjustable
Soft-start mode	Soft start
With a pause function	to ensure sample security With auto-stop anti-trap feature Can adjust the loading window and slap plate, double security doors
Temperature Display	Slap box with temperature display
Disinfection	Slap box built-in light disinfection, disinfection can be expected on the working chamber (Single sterilization cycle 5min)
Dimensions	420x245x340mm
Weight	18.5kg
Power	220VAC/50HZ



ORDERING INFORMATION:

PRODUCT NO.	MODEL NO	DESCRIPTION
SCT-107.004.07	SCT-CHOP-7	SCT Laboratory Paddle Blenders, Flap-type, Temperature Range: Ambient - 50°C, can be set arbitrarily with disinfection function supplied complete with instruction manual

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTIONS
SCT-107.004.AA	FILTER HOMOGENOUS BAG
SCT-107.004.AB	DISPOSABLE STERILE TUBE.

* Please note : All other STIRRERS,MIXERS,SHAKERS, INCUBATORS + related Equipments are available in chapter-6

SCT MASS : LABORATORY SAMPLE CONCENTRATORS

SALIENT FEATURES:

- SCT-MASS 1 & 2: LABORATORY SAMPLE CONCENTRATORS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCT -MASS 1 & 2 has LED type digital display to show the temperature.
- SCT -MASS 1 & 2 has the Nitrogen consumption rate of 0-10 L/min.
- SCT -MASS 1 & 2 has 80 mm and 150 mm needles, which are made from high quality stainless steel, these can be used with any non-corrosive solvents.
- SCT -MASS 1 & 2 has the capacity of concentrating the samples in few minutes time to save the time. The Nitrogen gas is passed through the stainless steel needles over the solvent filled on the samples. The carrying Gas increases & takes the evaporating fumes of the solvent to give a quick concentration to the samples.
- SCT -MASS 1 & 2 has many parts to operate, it consists of a base and stand assembly, sample holder and gas distribution system. Test tubes are held in a block. The gas at 5 to 10 psig passes through the distribution manifold. Depending on the test-tube size and solvent volume they can be individually raised or lowered to the correct height.
Needles or glass pipettes blow gas onto the surface of the solution resulting in rapid evaporation of the solvent.
- SCT -MASS 1 has 80 mm needles and MASS-2 has 150 mm needles to pass the gas.
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.005.01	SCT-107.005.02
MODEL NO.	SCT-MASS-1	SCT-MASS-2
Temperature Control Range	RT+5°C~150°C	RT+5°C~150°C
Timer	1min~99h59min	1min~99h59min
Display	LED	LED
Temp. Control Accuracy @40~100°C	±0.5°C	±0.5°C
Temp. Control Accuracy @100~150°C	±1°C	±1°C
Display Accuracy	0.1°C	0.1°C
Heating Time (40~150°C)	≤30min	≤30min
Standard Blocks	1	2
Nitrogen Consumption	0-10L/min	0-10L/min
Dimension (mm)	280 x 240 x 110	280 x 240 x 110
Needle Length	80mm	150mm

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.005.01	SCT-MASS-1	SCT SAMPLE CONCENTRATOR is supplied with standard single block with the needle length of 80 mm is supplied completely with the instruction manual.
SCT-107.005.02	SCT-MASS-2	SCT SAMPLE CONCENTRATOR is supplied with standard single block with the needle length of 150 mm is supplied completely with the instruction manual.

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTION
SCT-107.005.AA	80mm Needles
SCT-107.005.AB	150mm Needles
SCT-107.005.AC	Flow Control Valve

BLOCK FOR SCT SAMPLE CONCENTRATION:

CODE	DESCRIPTION	DIMENSIONS (MM)
SCT-107.005.AD	49xΦ6mm	96x96x49
SCT-107.005.AE	49xΦ7mm	96x96x49
SCT-107.005.AF	25xΦ10mm	96x96x49
SCT-107.005.AG	25xΦ12mm	96x96x49
SCT-107.005.AH	25xΦ13mm	96x96x49
SCT-107.005.AI	12xΦ15mm	96x96x49
SCT-107.005.AJ	16xΦ15mm	96x96x49
SCT-107.005.AK	12xΦ16mm	96x96x49
SCT-107.005.AL	16xΦ16mm	96x96x49
SCT-107.005.AM	12xΦ19mm	96x96x49
SCT-107.005.AN	16xΦ19mm	96x96x49
SCT-107.005.AO	9xΦ20mm	96x96x49
SCT-107.005.AP	9xΦ26mm	96x96x49
SCT-107.005.AQ	4xΦ28mm	96x96x49
SCT-107.005.AR	4xΦ40mm	96x96x49
SCT-107.005.AS	49x0.5ml tubes	96x96x49
SCT-107.005.AT	25x1.5ml tubes	96x96x49
SCT-107.005.AU	25x2.0ml tubes	96x96x49
SCT-107.005.AV	96x0.2ml tubes	78x114x26
SCT-107.005.AW	96x0.2ml microplate	81x123x19

SCT FREEZE : LABORATORY FREEZE DRYERS

SALIENT FEATURES:

- SCT -FREEZE 1 & 2: LABORATORY FREEZE DRYERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
 - SCT-FREEZE 1 & 2 has LCD Display. display drying curve.
 - SCT-FREEZE 1 & 2 has 2 L & 3.5 L capacities. It has a large opening trap, no coil inside, with samples prefreeze function.
 - SCT-FREEZE 1 & 2 has Refrigeration compressor with CFC free refrigerant, the compressor operates in a low noise.
 - SCT-FREEZE 1 & 2 has the Cold trap and control panel were made by stainless steel, corrosion-resistant and easy to clean.
 - SCT-FREEZE 1 & 2 has the transparent steel sample holder, common sample plate spacing adjustable.
 - SCT-FREEZE 1 & 2 has a Optional nitrogen inflation valve
 - SCT-FREEZE 1 & 2 has a wide variety of applications in freeze drying many biological and pharmaceutical sample freeze dryer is a set of mini-type table equipment, which is suitable for the freeze-dry test and snack production of lab samples.
- Sample Tray the diameter of material-dry tray is 180mm, three layers; four layers; install the material about 1100ml (material thickness 10mm), or placed 155 bottles, the diameter of 22mm.
- Freeze dry time: about 24h (material thickness 10 mm)
- Please note that these freeze dryers need a suitable Vacuum source or a vacuum Pump. We recommend the user to visit our liquid handling or Vacuum pumps section and select the suitable pump for your operations.
- Conforms to the international standards & CE safety standards
 - Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.006.01	SCT-107.006.02
MODEL NO.	SCT-FREEZE-2	SCT-FREEZE-4
No load temperature	<-50°C	≤-60°C
No load freeze area	0.09 - 0.18m ²	0.18 - 0.27m ²
Plate load materials	0.7 - 2L	2-3.5L
Ability to capture water	4Kg / 24h	6Kg / 24h
Vacuum	<10Pa	<10Pa
Dimension	560*460* (710+430)(mm)	640*500*(960+450)(mm)
Material Tray Specifications	Φ200mm four-layered 70mm (common) Φ200mm six-layered 50mm (common) Φ180mm three-layered (with cover)	Φ240mm four-layered (common) Φ240mm six-layered 50mm (common) optional Φ200mm three-layered (with cover)
Consuming wattage	1000VA	1300VA
Voltage	220-240V / 50/60Hz	220-240V / 50/60Hz

Multi - manifold T-Frame: Standard 24 rubber seal valves, which can be attached ampoule tube 24
Special requirements can be customized.

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO	DESCRIPTION
SCT-107.006.01	SCT-FREEZE-1	SCT FREEZE DRYING MACHINE-2 Ltr. supplied complete with instruction manual.
SCT-107.006.02	SCT-FREEZE-2	SCT FREEZE DRYING MACHINE-3.5 Ltr. supplied complete with instruction manual.

SCT CRYOGEN : LABORATORY LIQUID NITROGEN CONTAINERS

SALIENT FEATURES:

- SCT-CRYOGEN-1/2/3/4/5/6/7 are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the preserving and storing the bio-samples and related applications with high level performance.
- SCT-CRYOGEN-1/2/3/4/5/6/7 Liquid nitrogen containers are classified in to 3 types (viz) PORTABLE CONTAINERS, STORAGE CONTAINERS AND THE TRANSPORT CONTAINERS.
- SCT-Liquid nitrogen is a cryopreservative of many human materials such as blood and semen. Every hospital uses a liquid nitrogen tank to store their blood work, semen, eggs, and even donor body organs. In fact, hospitals may be the largest consumer of liquid nitrogen tanks.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PARAMETERS	PRODUCT No	SCT-107.007.01	SCT-107.007.02	SCT-107.007.03	SCT-107.007.04	SCT-107.007.05	SCT-107.007.06	SCT-107.007.07
	MODEL NO.	CRYOGEN-1	CRYOGEN-2	CRYOGEN-3	CRYOGEN-4	CRYOGEN-5	CRYOGEN-6	CRYOGEN-7
CAPACITY LN2	LITERS	1.5	7.9	23.5	47.3	1.5	25.5	51.5
EMPTY WEIGHT	Kg	2.2	5.5	11.2	15.9	2.2	11.6	15
FULL WEIGHT	Kg	3.4	11.9	30.2	54.1	3.4	32.2	56.6
NECK DIA	MM	30	51	90	120	30	51	51
OUTER DIA	MM	175	300	460	460	175	400	460
TOTAL HEIGHT	MM	407	556	445	700	407	720	757
LOSS DUE TO EVAPORATION	LITERS/DAY	0.097	0.135	0.35	0.38	0.097	0.25	0.43
STATIC HOLDING TIME	DAYS	15	58	67	124	15	102	120
CANISTER OUTER DIA	MM	17	38	68	72	26	-	-
CANISTER HEIGHT	MM	120	120	120	280	120	-	-
NUMBER OF CANISTERS	NUMBERS	5	6	9	11	1	-	-
STRAW CAPACITY	0.5 ML	110	720	3285	11000	60	-	-
	0.25ML	250	1560	7380	24000	123	-	-

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO	DESCRIPTION
SCT-107.007.01	SCT-CRYOGEN-1	SCT-LIQUID NITROGEN CONTAINER-1.5 L CAPACITY IS SUPPLIED COMPLETELY .
SCT-107.007.02	SCT-CRYOGEN-2	SCT-LIQUID NITROGEN CONTAINER-7.9 L CAPACITY IS SUPPLIED COMPLETELY .
SCT-107.007.03	SCT-CRYOGEN-3	SCT-LIQUID NITROGEN CONTAINER-23.5 L CAPACITY IS SUPPLIED COMPLETELY .
SCT-107.007.04	SCT-CRYOGEN-4	SCT-LIQUID NITROGEN CONTAINER-47.3 L CAPACITY IS SUPPLIED COMPLETELY .
SCT-107.007.05	SCT-CRYOGEN-5	SCT-LIQUID NITROGEN CONTAINER-1.5 L (TRANSPORT) CAPACITY IS SUPPLIED COMPLETELY .
SCT-107.007.06	SCT-CRYOGEN-6	SCT-LIQUID NITROGEN CONTAINER-25.5 L CAPACITY IS SUPPLIED COMPLETELY .
SCT-107.007.07	SCT-CRYOGEN-7	SCT-LIQUID NITROGEN CONTAINER-51.5 L CAPACITY IS SUPPLIED COMPLETELY .

* Optional accessories (can be added here)

ELECTROPHORESIS

Electrophoresis is a technique used to separate biological molecules, such as nucleic acids, carbohydrates, and amino acids, based on their movement due to the influence of a direct electric current in a buffered solution. Positively charged molecules move toward the negative electrode, while negatively charged molecules move toward the positive electrode.

In the last 3 decades the role of electrophoresis in the separation of the bio-molecules like nucleic acids and the proteins have increased rapidly. In turn, many commercial companies started producing various units to perform the Electrophoresis. We at ScichemTech also started our new line of electrophoretic equipment. We focus with the basic line of electrophoretic equipments and related accessories. Apparatus for gel electrophoresis are relatively simple. Electrophoresis cells are essentially plastic boxes with anode and cathode buffer compartments, electrodes (usually platinum wire), and jacks for making electrical contact with the electrodes. Gels are held vertically between the electrode chambers during the run. Gel cassettes have open tops and bottoms. The bottom is sealed with a gasket during gel formation and the top is open to receive monomer solution. The top and bottom ends are open and in contact with buffer for electrophoresis. High-voltage direct current supplies provide electrical power for electrophoresis. Micropipettes, test tubes, and heating blocks are sample-handling necessities. Many suitable devices are available from ScichemTech.

Our equipments are designed to cater the Educational and basic research related applications and the customers. Also we focus mainly on the equipment part and incase if you need the related chemicals, reagents and buffers we can supply upon request.

Our SCT R & D team is sure that, our customers will enjoy the simplicity of our inhouse designed units.

In the early days of DNA manipulation, DNA fragments were laboriously separated by gravity. In the 1970s, the powerful tool of DNA gel electrophoresis was developed. This process uses electricity to separate DNA fragments by size as they migrate through a gel matrix.

Electrophoresis may be the main technique for molecular separation in today's cell biology laboratory. Because it is such a powerful technique, and yet reasonably easy and inexpensive, it has become common place. In spite of the many physical arrangements for the apparatus, and regardless of the medium through which molecules are allowed to migrate, all electrophoretic separations depend upon the charge distribution of the molecules being separated.

Electrophoresis can be one dimensional (i.e. one plane of separation) or two dimensional. One dimensional electrophoresis is used for most routine protein and nucleic acid separations. Two dimensional separation of proteins is used for finger printing, and when properly constructed can be extremely accurate in resolving all of the proteins present within a cell (greater than 1, 500).

We at ScichemTech, developed the Nucleic Acids Electrophoresis Units and with the suitable accessories for our Bio customers. We have named this series of products as DRBALA series & Wattrick Series in order to recognise and remember all the known and unknown scientist who have contributed for the Nucleic Acids research. In the following pages find some of related products.

SCT- DRBALA : NUCLEIC ACID ELECTROPHORESIS (800 ML)

SALIENT FEATURES:

- SCT DRBALA-1-NUCLEIC ACID ELECTROPHORESIS UNITS - are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCT Electrophoresis tanks Accommodates standard gels for both analytical and preparative studies of nucleic acid.
- Designed for separations of DNA and RNA restriction fragments in agarose gel as well as PCR® screening and RFLP.
- Maximum number of samples: 72 with 4 combs.
- Gel tray 10 x 14 cm has 4 spaces for combs insertion.
- Gel tray 10 x 8 cm has 2 spaces for combs insertion.
- Combs 10, 16 and 18 teeth compatible with multichannel pipettes.
- Preparative combs also available. 4 adjustable feet and bubble level. Red strips for wells visualisation.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

MODEL NO.	SCT-107.008.01
PRODUCT NO.	SCT-DRBALA-1
Buffer Volume	800 ml Unit dimensions
(w x l x h)	28 x 16 x 9 cm

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.008.01	SCT-DRBALA-1	SCT NUCLEIC ACID ELECTROPHORESIS included removable U.V. transparent gel tray 10x14 cm (w x l), 2 removable casting gates, 2.0 mm thickness 16 teeth comb, sample volume 24 µl, safety lid, set of power leads, buffer circulation accessories, user's manual.

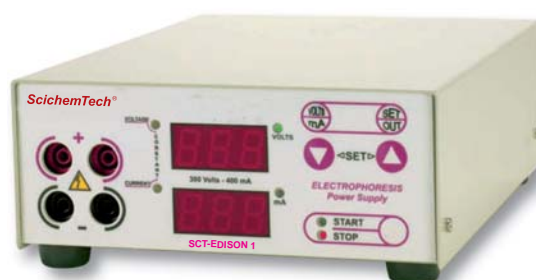
OPTIONAL ACCESSORIES:

PRODUCT NO.	THICKNESS	TEETH	SAMPLE VOLUME*	WELL WIDTH
SCT-107.008.AA	Comb 1.0 mm	10	24 µl	6.0 mm
SCT-107.008.AB	Comb 2.0 mm	10	48 µl	6.0 mm
SCT-107.008.AC	Comb 3.0 mm	10	72 µl	6.0 mm
SCT-107.008.AD	Comb 1.0 mm	16	12 µl	3.0 mm
SCT-107.008.AE	Comb 2.0 mm	16	24 µl	3.0 mm
SCT-107.008.AF	Comb 3.0 mm	16	36 µl	3.0 mm
SCT-107.008.AG	Comb 1.0 mm	18	14 µl	3.5 mm
compatible with multichannel pipettes				
SCT-107.008.AH	Prep Comb 1.0 mm 1 sample/2 markers - 360 µl/2 x 12 µl			90.0/3 mm
SCT-107.008.AI	Prep Comb 1.0 mm 2 samples/2 markers - 160 µl/2 x 12 µl			40.0/3 mm
SCT-107.008.AJ	Prep Comb 2.0 mm 1 sample/2 markers - 720 µl/2 x 24 µl			90.0/3 mm
SCT-107.008.AK	U.V. transparent tray 10 x 14 cm (w x l) Supplied with 2 removable casting gates			
SCT-107.008.AL	U.V. transparent tray 10 x 8 cm (w x l) Supplied with 2 removable casting gates			
SCT-107.008.AM	Set of power leads			
SCT-107.008.AN	Separate gel Casting base with adjustable feet and bubble			

OPTIONAL POWER SUPPLY : (TO BE ORDERED SEPARATELY)

We recommend the following power supplies for the above units;

PRODECT NO	SCT-107.011.10
MODEL NO.	SCT-EDISON-1
Voltage Output range / Resolution	1 - 300 V / 1 volt steps
Current Output range / Resolution	1 - 400 mA / 1 mA steps
Maximum Power	100 W
Minimum regulated value	1 volt - 1 mA
Minimum non regulated value	1 volt - 15 µA - 0.3 W
Fault detection	stop - audible alarm - message
Operating temperature	0°C - 40°C
Dimensions (w x d x h)	17 x 24 x 7 cm
Weight	1.6 kg



SCT DRBALA : NUCLEIC ACID ELECTROPHORESIS (1200 ML)

SALIENT FEATURES:

- SCT DRBALA-2 & 3 - NUCLEIC ACID ELECTROPHORESIS UNITS are designed with creativeness to get the elegance and produced with proper quality and meets the specifications for the applications with high level performance.
- Accommodates standard gels for both analytical and preparative studies of nucleic acid. Designed for separations of DNA and RNA restriction fragments in agarose gel as well as PCR® screening and RFLP.
- Short and long length separation according to the selected Gel Tray.
- Gel tray 15 x 20 cm has 8 spaces for comb insertion.
- Gel tray 15 x 17 cm has 6 spaces for combs insertion.
- Gel tray 15 x 12 cm has 4 spaces for combs insertion.
- Gel tray 15 x 8 cm has 2 spaces for combs insertion.
- Conventional, compatible with multichannel pipettes and preparative combs.
- 4 adjustable feet and bubble level.
- Red strips for wells visualization.
- Ports for buffer circulation.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.008.02	SCT-107.008.02
MODEL NO.	SCT-DRBALA-2	SCT-DRBALA-3
Buffer Volume	1200 ml	1200ML
Unit dimensions	(w x l x h) - 30 x 20 x 8 cm	More accessories

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.008.02	SCT-DRBALA-2	SCT-DRBALA-2 Includes: removable U.V. transparent gel tray 15 x 17 cm (w x l), 2 removable casting gates, 2.0 mm thickness 27 teeth comb, sample volume 32 µl*, safety lid, set of power leads, buffer circulation accessories, user's manual
SCT-107.008.03	SCT-DRBALA-3	SCT-DRBALA-3 Fully equipped with 6 combs for running 96 samples on a 15 x 17 cm gel. Includes: removable U.V. transparent gel tray 15 x 17 cm (w x l), equipped by 2 removable casting gates, 6 x 1.0 mm thickness 16 teeth comb, compatible with multi-channel pipettes, sample volume 24 µl*, safety lid, set of power leads, buffer circulation accessories, user's manual

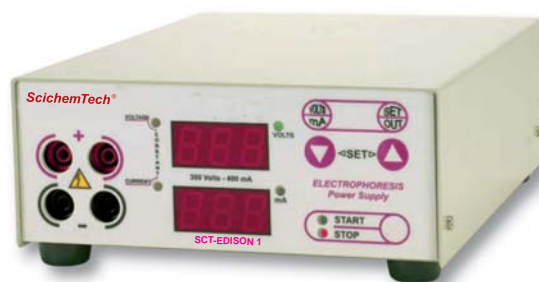
OPTIONAL ACCESSORIES:

PRODUCT NO.	THICKNESS	TEETH	SAMPLE VOLUME*	WELL WIDTH
SCT-107.008.BA	Comb 1.0 mm**	16	24 µl	6.0 mm
SCT-107.008.BB	Comb 2.0 mm**	16	48 µl	6.0 mm
SCT-107.008.BC	Comb 3.0 mm**	16	72 µl	6.0 mm
SCT-107.008.BD	Comb 1.0 mm	27	16 µl	4.0 mm
SCT-107.008.BE	Comb 2.0 mm	27	32 µl	4.0 mm
SCT-107.008.BF	Comb 3.0 mm	27	48 µl	4.0 mm
SCT-107.008.BG	Comb 1.0 mm**	32	14 µl	3.5 mm
SCT-107.008.BH	Prep Comb 1.0 mm 1 sample/1 marker - 140 µl/24 µl			138/5 mm
SCT-107.008.BI	Prep Comb 2.0 mm 1 sample/1 marker - 280 µl/48 µl			138/5 mm
SCT-107.008.BJ	Prep Comb 3.0 mm 1 sample/1 marker - 420 µl/72 µl			138/5 mm
SCT-107.008.BK	U.V. transparent tray 15 x 20 cm (w x l) Supplied with 2 removable casting gates			
SCT-107.008.BL	U.V. transparent tray 15 x 17 cm (w x l) Supplied with 2 removable casting gates			
SCT-107.008.BM	U.V. transparent tray 15 x 12 cm (w x l) Supplied with 2 removable casting gates			
SCT-107.008.BN	U.V. transparent tray 15 x 8 cm (w x l) Supplied with 2 removable casting gates			
SCT-107.008.BO	Set of power leads			
SCT-107.008.BP	Separate gel Casting base with adjustable feet and bubble			

OPTIONAL POWER SUPPLY : (TO BE ORDERED SEPARATELY)

We recommend the following power supplies for the above units;

PRODUCT NO.	SCT-107.001.10
MODEL NO.	SCT-EDISON-1
Voltage Output range / Resolution	1 - 300 V / 1 volt steps
Current Output range / Resolution	1 - 400 mA / 1 mA steps
Maximum Power	100 W
Minimum regulated value	1 volt - 1 mA
Minimum non regulated value	1 volt - 15 µA - 0.3 W
Fault detection	stop - audible alarm - message
Operating temperature	0°C - 40°C
Dimensions (w x d x h)	17 x 24 x 7 cm
Weight	1.6 kg



SCT-WATRICK : PORTABLE NUCLEIC ACID SEQUENCERS

SALIENT FEATURES:

- SCT-WATRICK PORTABLE NUCLEIC ACID SEQUENCERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCICHEMTECH DNA sequencing unit is designed with cabinet style doors and a safety lid to provide easy access for sample loading without compromising safety. All components are shielded and the unit cannot operate until the doors are closed and the safety lid is in place. A combination of rubber mounted, precision machined aluminium heat transfer plates, float glass plates and clamps, ensure excellent heat distribution and straight sample migration through the gel. A drainage port in the upper buffer tank facilitates emptying of the running buffer. An optional fan kit provides adjustable thermostatic control of the gel and enables gels to be run at higher speeds. With the fan kit a 33 x 41 cm, 0.35 mm 6% gel can be run at 55°C within 1 hour 45 minutes (including the pre-run).
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.009.01	
MODEL NO.	SCT-WATRICK-1	
Gel dimensions	33 x 41 cm	
Max buffer volume	upper	700 ml (W x L)
	lower	700 ml
Dimensions	17.5 x 51.5 x 48 cm (W x L x H)	
Max. sample capacity	48	
Combs available		
No. of samples	40, 48, 60, 80, 96	
Thickness	0.25, 0.35 mm	

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.009.01	SCT-WATRICK-1	SCT DNA Sequencing Gel Unit, 33 x 41 cm with Integral Aluminium Heat Sink Plate Includes: 2 x Notched Glass Plate, 2 x Plain Glass Plate, 1 x Set of 0.35 mm Melinex Spacers, 1 of 0.35 mm Melinex 48 Sample Shark's Tooth Comb.

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTION
SCT-107.008.CA	Notched Glass Plate, pk/2
SCT-107.008.CB	Plain Glass Plate, pk/2
SCT-107.008.CC	0.25 mm Spacer Set, 2 x 41 cm (W x L)
SCT-107.008.CD	0.35 mm Spacer Set, 2 x 41 cm (W x L)
SCT-107.008.CE	Thermostatic Fan kit for sequencing units
SCT-107.008.CF	Temperature probe (suitable for Power supplies)

COMBS FOR SEQUENCING UNITS SPECIFICATIONS & ORDERING INFORMATION

33 cm Wide Combs suitable for DNA Sequencing

SCT-107.008.DA	0.25	40	4	3	5
SCT-107.008.DB	0.25	60	2	2.5	2.5
SCT-107.008.DC	0.25	80	2.5	1.1	2.5
SCT-107.008.DD	0.35	40	4	3	7
SCT-107.008.DE	0.35	60	2	2.5	3.5
SCT-107.008.DF	0.35	80	2.5	1.1	4

33 cm Wide Shark's Tooth Combs suitable for DNA Sequencing

SCT-107.008.EA	0.25	48	0.25	5.6	7
SCT-107.008.EB	0.25	60	0.25	4.5	5
SCT-107.008.EC	0.25	96	0.25	2.8	3
SCT-107.008.ED	0.35	48	0.25	5.6	7
SCT-107.008.EE	0.35	60	0.25	4.5	7
SCT-107.008.EF	0.35	96	0.25	2.8	5

OPTIONAL POWER SUPPLY : (TO BE ORDERED SEPARATELY)

PRODUCT NO.	SCT-107.011.13
MODEL NO.	SCT-EDISON-4
Output voltage range / Resolution	10 - 3000 Volt / 10 Volt steps
Output current range / Resolution	15 μ A - 300 mA / 1 mA steps
Output current range with Prog. #28	0 mA - 300 mA
Output power range / Resolution	0.3 - 300 watts / 1 watt steps
Temperature range / Resolution	0 - 99°C in 1°C steps
Integrator range / Resolution	1 - 99999 Volt-Hr / 1 Volt-Hr steps
Timer range / Resolution	1 - 9999 minutes / 1 minute steps
Minimum regulated value	10 Volt - 1 mA - 1 watt
Value display range / Resolution	0 - 3000 Volt / 10 Volt
	0 - 300 mA / 1 mA
	0 - 300 watts / 1 watt
	0 - 99°C / 1°C
	0 - 99999 Volt-Hr / 1 Volt-Hr steps
Minimum non regulated value	10 Volt - 15 μ A - 0.3 W
Minimum output with program #28	10 Volt - 0 mA - 0 W
Fault detection	stop, audible alarm and displayed messages
Dimensions (w x d x h)	27 x 34 x 11 cm
Weight	4 kg



PROTEIN GEL ELECTROPHORESIS:

ScichemTech- USA Protein gel Electrophoresis An Intro:

Protein electrophoresis, proteins are separated on the basis of charge, and the charge of a protein can be either + or -, depending upon the pH of the buffer. In normal operation, a column of gel is partitioned into three sections, known as the Separating or Running Gel, the Stacking Gel and the Sample Gel. The sample gel may be eliminated and the sample introduced via a dense non-convective medium such as sucrose. Electrodes are attached to the ends of the column and an electric current passed through the partitioned gels. If the electrodes are arranged in such a way that the upper bath is - (cathode), while the lower bath is + (anode), and anions are allowed to flow toward the anode, the system is known as an anionic system. Flow in the opposite direction, with + cations flowing to the cathode is a cationic system.

At one time or another during the course of protein analysis or purification, researchers are likely to make use of gel electrophoresis. All laboratories working with proteins have some capability for carrying out gel electrophoresis and all researchers have at least rudimentary knowledge of the technique.

Gel electrophoresis can provide information about the molecular weights and charges of proteins, the sub-unit structures of proteins, and the purity of a particular protein preparation. It is relatively simple to use and it is highly reproducible. The most common use of gel electrophoresis is the qualitative analysis of complex mixtures of proteins. Microanalytical methods and sensitive, linear image analysis systems make gel electrophoresis popular for quantitative and preparative purposes as well. The technique provides the highest resolution of all methods available for separating proteins. Polypeptides differing in molecular weight by as little as a few hundreds of daltons and proteins differing by less than 0.1 pH unit in their isoelectric points are routinely resolved in gel.

We at Scichemtech realized that Protein Electrophoresis must be incorporated along with the Nucleic Acids..Hence, we have introduced ProJames, DRKJ, Leningh Protein Electrophoresis and related product series series, inorder to remember all the known and unknown Scientists / Prof's who have contributed to the Bio-Chemistry and the protein chemistry. In the following pages you will find our Protein Electrophoresis related products.

SCT-PROTEIN GEL ELECTROPHORESIS PROJAMES 1 (300-400 ml)

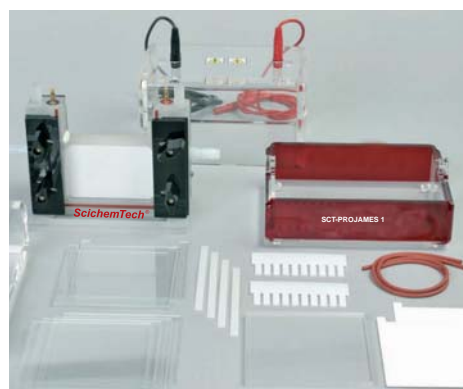
SALIENT FEATURES:

Our PROJAMES electrophoresis units are manufactured to a high specification and design to combine versatility with safety. The robust gel tanks are easy to use and are offering many gel sizes standard gels. All PROJAMES gel units are supplied with float glass plates to ensure that the gels are of uniform thickness, providing an even sample migration and minimum lane distortion. Gel can be cast in the inner running frame.

The PROJAMESL-2 is designed in order to be compatible with our pre-cast gels and with most pre-cast gels 10 x 10 cm. Cooling is a built-in equipment but not necessary for all applications. All PROJAMES models have a gel casting system using the slab gel running module and a leak-free separate casting base equipped by two silicone seals and two clamping cams. This system allows two gel to be cast at a time directly in the gel running module.

Then, after gel polymerisation, the running module is removed from the casting base and directly placed in the outer buffer tank.

- Easy to use clamping system.
- Safety lid with integral power leads.
- Long life pure platinum electrodes are both protected and user replaceable.
- Gold plated terminals for corrosion resistance.
- Leak-free buffer seals.
- Float glass plates ensure uniform gel thickness and straight sample migration.
- Supplied with casting base.
- Complemented with a full range of combs and spacers



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.010.01
MODEL NO.	SCT-PROJAMES-1
Total Buffer Volume	300 - 400 ml
Maximum number of samples	2 x 15
Unit dimensions (H x W x D)	14 x 17 x 12 cm

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.010.01	SCT-PROJAMES-1	SCT PROJAMES 1 fully equipped for 2 x 0,8 mm gel 10 x 10 cm and casting base Includes : 2 notched glass plates, 2 plain glass plates, 2 ceramic plates, 1 blind plate, 2 combs 10 wells 0,8 mm, 4 spacers 0,8 mm, 2 replacement gasket, internal running module, with internal cooling chamber, safety lid with power cords, gel casting base, user's manual

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTION
SCT-107.010.AA	6 teeth comb 1,5 mm - Well volume 266 µl - Teeth wide 11 mm
SCT-107.010.AB	8 teeth comb 1,5 mm - Well volume 42 µl - Teeth wide 7,7 mm
SCT-107.010.AC	9 teeth comb 1,5 mm multi-channel pipette - Well volume 138 µl - Teeth wide 138 mm
SCT-107.010.AD	10 teeth comb 1,5 mm - Well volume 134 µl - Teeth wide 5,7 mm
SCT-107.010.AE	12 teeth comb 1,5 mm - Well volume 103 µl - Teeth wide 4,3 mm
SCT-107.010.AF	Set of 2 x 1,5 mm spacers
SCT-107.010.AG	6 teeth comb 0,8 mm - Well volume 142 µl - Teeth wide 11 mm
SCT-107.010.AH	8 teeth comb 0,8 mm - Well volume 99 µl - Teeth wide 7,7 mm
SCT-107.010.AI	9 teeth comb 0,8 mm multi-channel pipette compatible - Well volume 41 µl - Teeth wide 138 mm
SCT-107.010.AJ	10 teeth comb 0,8 mm - Well volume 73 µl - Teeth wide 5,7 mm
SCT-107.010.AK	12 teeth comb 0,8 mm - Well volume 55 µl - Teeth wide 4,3 mm
SCT-107.010.AL	Set of 2 x 0,8 mm spacers
SCT-107.010.AM	Plain glass plate 10x10 cm (1piece)
SCT-107.010.AN	Notched glass plate 10x10 cm (1 piece)
SCT-107.010.AO	Notched alumina plate 10x10 cm (1 piece)
SCT-107.010.AP	Blocking plate for running one gel (Blind plate)
SCT-107.010.AQ	Water cooled removable Running module (already included in the package no. 400000)
SCT-107.010.AR	Replacement clamps for running module no. 400010 (x 2)
SCT-107.010.AS	Replacement gasket for running module no. 400010 (x 2)
SCT-107.010.AT	Gel casting base (already included in the package no. 400000)
SCT-107.010.AU	Replacement gasket for casting base (x 2)
SCT-107.010.AV	Gel casting base + acrylic block with gasket and clamps for casting 2 gels independently

OPTIONAL POWER SUPPLY : (TO BE ORDERED SEPARATELY)

COMPACT, LIGHT WEIGHT AND POWERFUL UNIT

PRODUCT NO.	SCT-107.011.10
MODEL NO.	SCT-EDISON-1
Voltage Output range / Resolution	1 - 300 V / 1 volt steps
Current Output range / Resolution	1 - 400 mA / 1 mA steps
Maximum Power	100 W
Minimum regulated value	1 volt - 1 mA
Minimum non regulated value	1 volt - 15 µA - 0.3 W
Fault detection	stop - audible alarm - message
Operating temperature	0°C - 40°C
Dimensions (w x d x h)	17 x 24 x 7 cm
Weight	1.6 kg



SCT PROTEIN ELECTROPHORESIS PROJAMES-2 (1300ml)

SALIENT FEATURES:

- SCT-PROJAMES-2 PROTEIN ELECTROPHORESIS UNITS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- Glass plate sizes 20 cm W x 18-20 cm L
- Acrylamide capacity 24-49 ml
- Current constant 15-75 mA/gel
- Maximum voltage 1000 Volt
- Run time 30-180 minutes
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.

TECHNICAL SPECIFICATIONS:

MODEL NO.	SCT-107.010.02
PRODUCT NO.	SCT-PROJAMES-2
Total Buffer Volume	1300 ml
Maximum number of samples	50
Unit dimensions (H x W x D)	30 x 24 x 16 cm
Active gel sizes	19 x 8.5 cm (W x H)
Glass plate sizes	20 cm W x 18-20 cm L
Acrylamide capacity	24-49 ml
Current constant	15-75 mA/gel
Maximum voltage	1000 Volt
Run time	30-180 minutes



ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.010.02	SCT-PROJAMES-2	SCT-PROJAMES 2 fully equipped for 2 x 1,5 mm gel 20 x 20 cm + gel casting base Includes : 4 notched glass plates, 4 plain glass plates, 1 blind plate, 2 combs 15 wells 1,5 mm, 2 combs 20 wells 1,5 mm, 8 spacers 1,5 mm, 2 replacement gasket, internal running module, with internal cooling chamber, safety lid with power cords, gel casting base, user's manual

OPTIONAL ACCESSORIES:

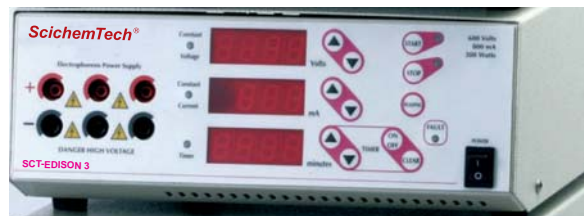
PRODUCT NO.	DESCRIPTION
SCT-107.010.BA	10 teeth comb 1,5 mm - Well volume 449 µl - Teeth wide 13 mm
SCT-107.010.BB	15 teeth comb 1,5 mm - Well volume 271 µl - Teeth wide 8 mm
SCT-107.010.BC	20 teeth comb 1,5 mm - Well volume 182 µl - Teeth wide 5,5 mm
SCT-107.010.BD	25 teeth comb 1,5 mm - Well volume 129 µl - Teeth wide 4 mm
SCT-107.010.BE	Prep comb 2 teeth 1,5 mm - Well volume 4230 µl/135 µl - Teeth wide 151/5 mm
SCT-107.010.BF	Set of 2 x 1,5 mm spacers
SCT-107.010.BG	10 teeth comb 0,8 mm - Well volume 239 µl - Teeth wide 13 mm
SCT-107.010.BH	15 teeth comb 0,8 mm - Well volume 144 µl - Teeth wide 8 mm
SCT-107.010.BI	20 teeth comb 0,8 mm - Well volume 97 µl - Teeth wide 5,5 mm
SCT-107.010.BJ	25 teeth comb 0,8 mm - Well volume 69 µl - Teeth wide 4 mm
SCT-107.010.BK	Set of 2 x 0,8 mm spacers
SCT-107.010.BL	Plain glass plate 20 x 20 cm (1 piece)
SCT-107.010.BM	Notched glass plate 20 x 20 cm (1 piece)
SCT-107.010.BN	Water cooled removable Running module (already included in the package no. 420000)
SCT-107.010.BO	Replacement clamps for running (x 2)
SCT-107.010.BP	Replacement gasket for running (x 2)
SCT-107.010.BQ	Gel casting base (already included in the package)
SCT-107.010.BR	Replacement gasket for casting base (x 2)

OPTIONAL POWER SUPPLY : (TO BE ORDERED SEPARATELY)

Recommended Power supply:

PRODUCT NO.	SCT-107.011.12
MODEL NO.	SCT-EDISON-3
Output range / Resolution	1 - 600 volt / 1 volt steps
Current Output range / Resolution	1 - 800 mA / 1 mA steps
Timer range / Resolution	0 - 9999 min. / 1 min. steps
Power	0.3 - 300 watts
Displays	3
Minimum regulated value	5 volt - 1mA
Minimum non regulated value	1 V - 15 µA - 0.3 W
Fault detection	stop - audible alarm - fault Led
Operating temperature	0°C - 40°C
Dimensions (w x d x h)	27 x 34 x 11 cm
Weight	4 kg.

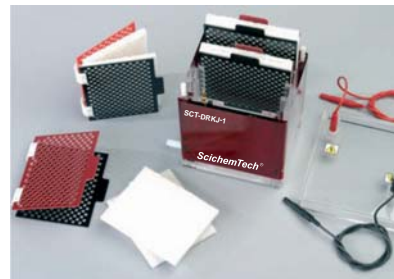
APPLICATIONS	SCT-EDISON-3
DNA/RNA Electrophoresis agarose gel	Recommended
RFLP and DNA Fragments	Recommended
PCR Screening	Recommended
Protein Electrophoresis	Recommended
2-D Electrophoresis	Possible
Preparative gel. SDS Page	Recommended
Semi-dry Blotting	Recommended
Western Blotting	Recommended



SCT DRKJ : MINI TRANSBLOTTERS FOR GELS (10 X 10 CM) (LIQUID BLOTTING).

SALIENT FEATURES:

- SCT DRKJ-1 MINI TRANSBLOTTERS FOR GELS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the NORTHERN, SOUTHERN AND WESTERN applications with high level performance.
- SCT DRKJ-1 Units are used for the gels with 10x10 cm size.
- SCT DRKJ-1 has Water cooled base with stirring bar which can be placed in the unit under the compression cassette. Then unit is placed on a stable magnetic stirrer.
- SCT DRKJ-1 has an open square grid design for the cassettes provides a maximum area for the transfer and is strong enough to maintain a firm contact between the gel and the transfer membrane.
- SCT DRKJ-1 has replaceable platinum electrodes.
- SCT DRKJ-1 has Safety lid provides complete protection to the user.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.010.03
MODEL NO.	SCT-DRKJ-1
Buffer Volume	1300 ml
Unit dimensions (H x W x D)	15 x 13 x 15 cm
Transfer Area	9 cm W x 9 cm L
Run Time	4 hours - Overnight

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.010.03	SCT-DRKJ-1	SCT-DRKJ-1 Electro-blotting unit for up to four 10 x 10 cm gels includes 4 compression cassettes, 8 small fibre packs

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTION
SCT-107.010.CA	Compression cassette
SCT-107.010.CB	Fibre pads 10 x 10 cm, PK/4

OPTIONAL POWER SUPPLY : (TO BE ORDERED SEPARATELY)

Recommended Power supply:

PRODUCT NO.	SCT-107.011.11
MODEL NO.	SCT-EDISON-2
Voltage Output range / Resolution	1 - 300 V / 1 volt steps
Current Output range / Resolution	1 - 400 mA / 1 mA steps
Maximum Power	100 W
Minimum regulated value	1 volt - 1 mA
Minimum non regulated value	1 volt - 15 μ A - 0.3 W
Fault detection	stop - audible alarm - message
Operating temperature	0°C - 40°C
Dimensions (w x d x h)	17 x 24 x 7 cm
Weight	1.6 kg



SCT-DRKJ : TRANSBLOTTERS FOR GELS (20 X 20 CM) (LIQUID BLOTTING)

SALIENT FEATURES:

- SCT DRKJ-2 TRANSBLOTTERS FOR GEL are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the NORTHERN, SOUTHERN AND WESTERN applications with high level performance.
- SCT DRKJ-2 units are used for the gel with 20x20 cm sizes.
- SCT DRKJ-2 has Water cooled base with stirring bar which can be placed in the unit under the compression cassette. Then unit is placed on a stable magnetic stirrer.
- SCT DRKJ-2 has an open square grid design for the cassettes provides a maximum area for the transfer and is strong enough to maintain a firm contact between the gel and the transfer membrane.
- SCT DRKJ-2 has Replaceable platinum electrodes.
- SCT DRKJ-2 has Safety lid provides complete protection to the user.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

MODEL NO.	SCT-107.010.04
PRODUCT NO.	SCT-DRKJ-2
Buffer Volume	3000 ml
Unit dimensions (H x W x D)	25 x 23 x 10 cm
Transfer Area	19 cm W x 19 cm L
Run Time	4 hours - Overnight

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.010.04	SCT-DRKJ-2	SCT SCT-DRKJ-2 Electro-blotting unit for up to two 20 x 20 cm gel includes: 2 compression cassettes, 4 large fibre packs

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTION
SCT-107.010.DA	Compression cassette 20 x 20 cm with pads
SCT-107.010.DB	Fibre pads 20 x 20 cm, PK/4

354

OPTIONAL POWER SUPPLY : (TO BE ORDERED SEPARATELY)

Recommended Power supply:

PRODUCT NO.	SCT-107.011.12
MODEL NO.	SCT-EDISON-3
Output range / Resolution	1 - 600 volt / 1 volt steps
Current Output range / Resolution	1 - 800 mA / 1 mA steps
Timer range / Resolution	0 - 9999 min. / 1 min. steps
Power	0.3 - 300 watts
Displays	3
Minimum regulated value	5 volt - 1mA
Minimum non regulated value	1 V - 15 μ A - 0.3 W
Fault detection	stop - audible alarm - fault Led
Operating temperature	0°C - 40°C
Dimensions (w x d x h)	27 x 34 x 11 cm
Weight	4 kg.



SCT DRKJ : THE SLIM- FAST BLOTTERS (LIQUID BLOTTING)

Designed for all blottings:

PROTEINS: WESTERN with standard alloy anode and cathode.

DNA: SOUTHERN with platinized Titanium anode.

RNA: NORTHERN with platinized Titanium anode.

- Western Blots of 0,75 or 0,8mm thick gels are cleared of proteins up to 170kD in size in 40 minutes at 24Volts.
- Western Blots of 1mm thick gels in 30 minutes at 24Volts.

SALIENT FEATURES:

- SCT DRKJ -3 THE SLIM FAST BLOTTERS are designed with creativeness to get the elegance and produced with proper quality and meets the specifications for the NORTHERN, SOUTHERN AND WESTERN applications with high level performance.
- SCT DRKJ -3/4/5/6 can perform fast blotting for PROTEINS: WESTERN with standard alloy anode and cathode.
- SCT DRKJ -7/8/9/10 can perform fast blotting for PROTEINS: WESTERN with standard alloy anode and cathode and for DNA: SOUTHERN with platinized Titanium anode.
- SCT DRKJ -11/12/13/14 can perform fast blotting for DNA: SOUTHERN with platinized Titanium anode and for RNA: NORTHERN with platinized Titanium anode.
- SCT DRKJ -3 TILL 14 has LOW BUFFER VOLUME. And just a few minutes for loading. High surface area assures a high field at the gel.
- SCT DRKJ -3 TILL 14 has maintenance free platinized Titanium electrodes. No bubble surrounding the electrodes and Standard alloy electrodes should be wiped occasionally.
- SCT DRKJ -3 TILL 14 has 5 models with alloy electrodes for WESTERN Blot, Western Blots of 0, 75 or 0, 8mm thick gel are cleared of proteins up to 170kD in size in 40 minutes at 24Volts. and Western Blots of 1mm thick gel in 30 minutes at 24Volts
- SCT DRKJ -3 TILL 14 has 5 models with platinized Titanium anode for SOUTHERN and NORTHERN blotting.
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.



ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.010.05	SCT-DRKJ-3	10 x 15 cm unit with alloy anode for Western Blots Buffer 350 ml
SCT-107.010.06	SCT-DRKJ-4	15 x 20 cm unit with alloy anode for Western Blots Buffer 800 ml
SCT-107.010.07	SCT-DRKJ-5	20 x 24 cm unit with alloy anode for Western Blots Buffer 1400 ml
SCT-107.010.08	SCT-DRKJ-6	25 x 34 cm unit with alloy anode for Western Blots Buffer 2500 ml
SCT-107.010.09	SCT-DRKJ-7	10 x 15 cm unit with Platinized Titanium anode for Southern and Western Blots Buffer 350 ml
SCT-107.010.10	SCT-DRKJ-8	15 x 20 cm unit with Platinized Titanium anode for Southern and Western Blots Buffer 800 ml
SCT-107.010.11	SCT-DRKJ-9	20 x 24 cm unit with Platinized Titanium anode for Southern and Western Blots Buffer 1400 ml
SCT-107.010.12	SCT-DRKJ-10	25 x 34 cm unit with Platinized Titanium anode for Southern and Western Blots Buffer 2500 ml
SCT-107.010.13	SCT-DRKJ-11	10 x 15 cm Platinized Titanium anode for nucleic acid blots
SCT-107.010.14	SCT-DRKJ-12	15 x 20 cm Platinized Titanium anode for nucleic acid blots
SCT-107.010.15	SCT-DRKJ-13	20 x 24 cm Platinized Titanium anode for nucleic acid blots
SCT-107.010.16	SCT-DRKJ-14	25 x 34 cm Platinized Titanium anode for nucleic acid blots

* Other optional accessories up on request

OPTIONAL POWER SUPPLY : (TO BE ORDERED SEPARATELY)

Recommended Power supply:

PRODUCT NO.	SCT-107.011.10
MODEL NO.	SCT-EDISON-1
Voltage Output range / Resolution	1 - 300 V / 1 volt steps
Current Output range / Resolution	1 - 400 mA / 1 mA steps
Maximum Power	100 W
Minimum regulated value	1 volt - 1 mA
Minimum non regulated value	1 volt - 15 μ A - 0.3 W
Fault detection	stop - audible alarm - message
Operating temperature	0°C - 40°C
Dimensions (w x d x h)	17 x 24 x 7 cm
Weight	1.6 kg

SCT-EDISON-2	SCT-107.011.11
Voltage Output range / Resolution	1 - 300 V / 1 volt steps
Current Output range / Resolution	1 - 500 mA / 1 mA steps 0 - 999 min. / 1 min steps
Maximum Power	100 W
Minimum regulated value	1 volt - 1 mA
Minimum non regulated value	1 volt - 15 μ A - 0.3 W
Fault detection	stop - audible alarm - message
Operating temperature	0°C - 40°C
Dimensions (w x d x h)	17 x 24 x 7 cm
Weight	1.6 kg



SCT LENINGH : SEMI-DRY BLOTTERS FOR PROTEINS AND NUCLEIC ACIDS

SALIENT FEATURES:-

- SCT LENINGH 1 & 2 –SEMI-DRY BLOTTERS FOR PROTEINS AND NUCLEIC ACIDS are designed with creativeness to get the elegance and produced with proper quality , and meets the specifications for the BLOTTING OF PROTEINS AND NUCLEIC ACIDS applications with high level performance.

SCT-LENINGH - 1 & 2

- Mini and Large Semi-Dry Blotters 2 sizes: 11 x 11 cm & 20 x 20 cm
- Very high conductivity with corrosion free electrodes.
- Cathode in stainless steel , anode in platinum plated titanium for long life.
- Up to 3 mA/cm² of gel provides a very fast transfer.
- Strong side clamp system provides an uniform pressure between the gel and the transfer membrane.

Solution 1: Semi-Dry BLOTTING

- Recommended for BLOTTING OF PROTEINS AND NUCLEIC ACIDS.
- Ideal for transferring all Protein , overall less than 150 kd.
- No significant volume of buffer to prepare.

Ideal for proteins less than 150 KD - Fast WESTERN BLOT Mini Gels in 15 minutes! - Designed for extensive use.

Heavy lid with Stainless Steel Cathode Plate.

Mini format for 10 x 10 cm gels Base with Platinum coated Titanium Anode Plate.

Heavy duty knobs.

Large gels up to 20 cm x 20 cm or four gels 10 x 10 cm.



TANKS FOR BLOTTING:

	PROTEIN	DNA/RNA
Membrane	Nitrocellulose	Nylon
	0.45µm or 0.2µm	
	PVDF 0.45µm or 0.2µm	
Transfer Buffer	Towbin Buffer, 3 Buffer	0.5X - 1XTBE, NAQ
	System, Bjerrum	
	Schafer-Nielsen	
Power Setting	Constant current	Constant current
	0.8-3mA/cm ²	0.5-3mA/cm ²
	gel surface area	gel surface area
	10-14 Volts maximum	10-14 Volts max.
Running Time	30 minutes to 2 hours	30 minutes to 2 hours generally in the lower
	Needs to be experimentally determined (large molecules need longer transfer time)	

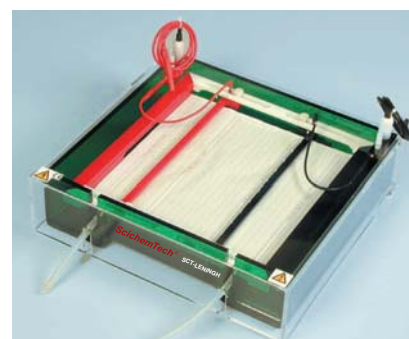
ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.011.01	SCT-LENINGH-1	Mini LENINGH - 1 Semi-Dry Blotter for gel up to 11 x 11 cm
SCT-107.011.02	SCT-LENINGH-2	Large LENINGH Semi-Dry Blotter for gel up to 20 x 20 cm

SCT-LENINGH : ISO ELECTRIC FOCUSING (IEF) UNITS

SALIENT FEATURES:

- SCT LENINGH-3 ISO-ELECTRIC FOCUSING UNITS are designed with creativeness to get the elegance and produced with proper quality, and meet the specifications for the all the flat-bed electrophoresis techniques / applications with high level performance.
- SCT LENINGH-3 has a large 270 x 270 mm cooling plate allows for the running of virtually all of the available pre-cast gels and self-cast gels.
- SCT LENINGH-3 has a removable cooling plate has a specially designed ceramic surface, which provides homogeneous thermostating over it's entire surface. This provides even heat dissipation, particularly important when using ultra-thin IEF gels at high voltages. Gel can be electrophoresed at temperatures as low as 4°C.
- SCT LENINGH-3 has some markings on the ceramic plate show the position of the electrodes when using the most popular sizes of commercially available pre-cast gels. The markings, also coincide with markings on the electrode stand, which allows for the alignment of the electrodes before lowering them onto the gel. The coded grid allows for the accurate measurement of sample migration.
- SCT LENINGH-3 has some positions of the electrodes are adjusted by moving them in an electrode frame. The electrode frame is also designed for easy electrode tensioning and replacement.
- SCT LENINGH-3 needs a refrigerated circulator for the cooling purposes, we at SCT strongly recommend to use our SCT refrigerated circulators for this purpose. Pls. refer our chapter 6 - SCT-HYDRO Product No: SCT-106.028.03 for more details.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.011.03
MODEL NO.	SCT-LENINGH-3
Running Buffer Volume (ml)	600 ml per chamber
Cooling plate size (mm)	270 x 270 mm
Unit dimensions (W x L x L) (mm)	375 x 405 x 100 mm

ORDERING INFORMATION:

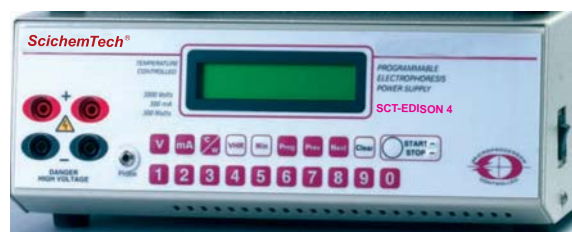
PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.011.03	SCT-LENINGH-3	SCT Complete LENGTH - 3 IEF Unit comes along with Running Tank, Cooling Plate, Glass Electrode Frame and Electrodes.

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTION
SCT-107.011.EA	Cooling Plate
SCT-107.011.EB	Glass Electrode Frame
SCT-107.011.EC	Cathode Electrode
SCT-107.011.ED	Anode Electrode
SCT-106.028.03	SCT-Immersion Bath Circulator (Refrigerated)

OPTIONAL POWER SUPPLY : (TO BE ORDERED SEPARATELY)

PRODUCT NO.	SCT-107.011.12
MODEL NO.	SCT-EDISON-3
Output voltage range / Resolution	10 - 3000 Volt / 10 Volt steps
Output current range / Resolution	15 μ A - 300 mA / 1 mA steps
Output current range with Prog. #28	0 mA - 300 mA
Output power range / Resolution	0.3 - 300 watts / 1 watt steps
Temperature range / Resolution	0 - 99°C in 1°C steps
Integrator range / Resolution	1 - 99999 Volt-Hr / 1 Volt-Hr steps
Timer range / Resolution	1 - 9999 minutes / 1 minute steps
Minimum regulated value	10 Volt - 1 mA - 1 watt
Value display range / Resolution	0 - 3000 Volt / 10 Volt
	0 - 300 mA / 1 mA
	0 - 300 watts / 1 watt
	0 - 99°C / 1°C
	0 - 99999 Volt-Hr / 1 Volt-Hr steps
	0 - 9999 minutes / 1 mn steps
Minimum non regulated value	10 Volt - 15 μ A - 0.3 W
Minimum output with program #28	10 Volt - 0 mA - 0 W
Fault detection	stop, audible alarm and displayed messages
Dimensions (w x d x h)	27 x 34 x 11 cm
Weight	4 kg



SCT-EDISON SERIES POWER SUPPLY

PRODUCT NO.	SCT.107.011.10	SCT.107.011.11	SCT.107.011.12	SCT.107.011.13
MODEL NO.	EDISON-1	EDISON-2	EDISON-3	EDISON-4
Maximum Voltage (Volts)	300	300	600	3000
Maximum Current (mA)	400	500	800	300
Maximum Power (W)	100	100	300	300
Constant Voltage and Current	♦	♦	♦	
Constant Voltage				
Current and Power				♦
Timer / Gel Saver		♦/♦	♦	♦
Integrator				♦
Programmable				♦
Temperature control by external Probe				♦
Settings by tactile switches	♦	♦	♦	♦
RS232 Computer compatibility				♦

FILED OF APPLICATIONS	EDISON-1	EDISON-2	EDISON-3	EDISON-4
DNA/RNA electrophoresis agarose gel	♦	♦	♦	•
RFLP and DNA Fragments	♦	♦	♦	•
PCR Screening	♦	♦	♦	•
Nucleic acid sequencing				♦
Isoelectro focusing SSCP - DGGE				♦
Protein Electrophoresis	♦	♦	♦	
Preparative gels SDS - Page	♦	♦	♦	•
Semidry Blotting	•	♦	♦	
Western Blotting	♦	♦	♦	

SCT-LENINGH : VACUUM HEATED GEL DRYERS

SALIENT FEATURES:

- SCT LENINGH- 4 & 5 VACUUM HEATED GEL DRYERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the Gel drying applications with high level performance.
- SCT LENINGH- 4 & 5 has two sizes of vacuum, heated, gel dryer, 450 x 340 mm and 500 x 400 mm.
- SCT LENINGH- 4 & 5 have two timers, one for the temperature and one for the vacuum pump. The drying temperature can be set between ambient and 90°C and regulated to $\pm 2^\circ\text{C}$, and the drying time set up to 5 hours in 1 minute steps.
- SCT LENINGH- 4 & 5 has the optional vacuum pump which can also be timed to automatically switch off, any time up to 5 hours in 1 minute steps.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.011.04	SCT-107.011.05
MODEL NO.	SCT-LENINGH-4	SCT-LENINGH-5
GEL DRYERS		
Unit dimensions (H x W x D)	110 x 570 x 400 mm	120 x 630 x 480 mm
Weight	14 Kg	14 Kg

VACUUM PUMP (OPTIONAL ACCESSORY)	
Unit dimensions	32 x 18 x 22 cm
Maximum Vacuum	-440 mbar
Maximum Airflow	70 litres/min
Noise Level	45 dBA at 1 metre
Weight	7 Kg

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.011.04	SCT-LENINGH-4	45x34 cm Complete Slab Gel Dryer System Includes: Stainless steel screen, Mylar sheet, Porous polyethylene sheet, clear silicone rubber overlay sheet
SCT-107.011.05	SCT-LENINGH-5	50x40 cm Slab Gel Dryer System Includes: Stainless steel screen, Mylar sheet, Porous polyethylene sheet, clear silicone rubber overlay sheet

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTION
SCT-107.011.BA	Vacuum Pump

SCT-VIN-SERIES THERMAL CYCLERS & PCR (POLYMERASE CHAIN REACTION) MACHINES

Thermal Cyclers are one of the important tools used in all the molecular biological & genetic Labs. Customers needs quick & reliable results .Thinking this aspect ScichemTech's R&D has colabrated with some of the leading PCR Technologist & developed ,New SCT- Vin series Peltier based PCR Machines.We have offered 2 models which can be useful for all type of customers like University –college students to Advanced Research Lab customers. We are sure ,our PCR machines will give you precise, accurate & quick results.

SCT –VIN-1 : PETIER BASED THERMAL CYCLER (PCR MACHINE)

SALIENT FEATURES:

- SCT-VIN-1: Thermal Cycler (PCR Machine) is designed in a ergonomic way,elegant & compact
- SCT-VIN-1: Thermal Cycler (PCR Machine) has a touch screen large (7") with colour graphic display
- SCT-VIN-1: Thermal Cycler (PCR Machine) has High Quality & Durable premium Peltier parts, Ensure long life and High Quality
- SCT-VIN-1: Thermal Cycler (PCR Machine) has optional quickly changeable modules for Gradient PCR 96 Module: 96wells× 0.2ml
9677 Module: 96wells× 0.2ml+77wells× 0.5ml
48 Module: 48wells× 0.2ml+48wells× 0.5ml
384 Module: 384wells
Multi-Purpose Module: 9677 Module + In-Situ Adapter
- SCT-VIN-1: Thermal Cycler (PCR Machine) has Peltier based heating / cooling and uniform blocks which gives precise and better results.
- SCT-VIN-1: Thermal Cycler (PCR Machine) has in-built PCR protocols & USB driven
- SCT-VIN-1: Thermal Cycler (PCR Machine) has user friendly & unique lid opening technology



- SCT-VIN-1: Thermal Cycler (PCR Machine) can have upto 1000 programs & 30 steps programming and upto 100 Typical cycles & 6000 nesting cycles.
- SCT-VIN-1: Thermal Cycler (PCR Machine) has Long & Touch down PCR's
- SCT-VIN-1: Thermal Cycler (PCR Machine) has a user friendly windows based software for handling the PCR data's..
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.

TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.012.01
MODEL NO.	SCT-VIN-1
Heating and Cooling Technology	Modern Generation Peltier-Based Technology
Display	Graphical Color Display, 7" Touch Screen
Language	English
USB Flash Drive	Unlimited Storage of Protocols with USB Flash Drive
Communications	2 USB2.0 and LAN
Additional In-Situ Function	Yes, Available for 9677 Module
Temperature	
Block Temperature Range	0 ° C ~100° C
Max. Heating Rate	5° C/s
Max. Cooling Rate	4° C/s
Temperature Uniformity	≤ ± 0.2° C (at 95°C)
Temperature Accuracy	≤ ± 0.1° C (35°C -100°C)
Display Resolution	0.1° C
Mode of Temperature Control	Sim-Tube & Block Mode
Ramping Rate Adjustable	Yes
Gradient	
Gradient Accuracy	≤ ± 0.1° C (35°C -100°C)
Column Uniformity	≤ ± 0.2° C (at 95°C)
Gradient Range	30° C~100° C
Temp. Differential Range	1~30° C
Gradient Capability	12 Column
Programming	
Max. No. of Programs	Max. 10000 Programs Onboard, Unlimited Storage of Protocols With USB Flash Drive
Max. Step	30 Steps
Max. Cycle	100 Typical Cycles, Max. 60000 nesting cycles
Time Increment/Decrement	1~120 Sec Long PCR Available
Temp. Increment/Decrement	0.1~10.0° C Touchdown PCR Available
Auto Pause	Yes
Auto Restart	Yes
Hold at 4° C	Forever
Running Status Display	Yes
Real Time Display	Yes, Battery Buffered
Heat Lid	
Height of Heat Lid	Steplessly Adjustable Lid, Accommodates all kinds of PCR Tubes, Strips and Plates
Heat Lid Temperature Range	30° C~112° C
Auto Shut -Off	Yes
Other Features & Optional modules	
Block Optional	Gradient Module
	96 Module: 96wells× 0.2ml
	9677 Module: 96wells× 0.2ml+77wells× 0.5ml
	48 Module: 48wells× 0.2ml+48wells× 0.5ml
	384 Module: 384wells
	Multi-Purpose Module: 9677 Module + In-Situ Adapter
Power Supply Range	Wide Range Power Supply 85V ~ 265V, 47-63Hz
Power Consumption	Max.: 600W
Approvals	ISO 9001: 2000, CE
Dimension(L× W× H)	362× 256× 255mm
Net Weight	7.3kgs

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.012.01	SCT-VIN-1	SCT –VIN-1 : PETIER BASED THERMAL CYCLER (PCR Machine) Is supplied complete with instruction manual.

SCT-VIN-2: AUTOMATIC ADVANCED THERMAL CYCLER (PCR MACHINE)

SALIENT FEATURES :

- SCT-VIN-2: Automatic Thermal Cycler (PCR Machine) is designed in a ergonomic way,elegant & compact
- SCT-VIN-2: Automatic Thermal Cycler (PCR Machine) has Modern Peltier based technology and High Quality & Durable premium Peltier parts, Ensure long life and High Quality
- SCT-VIN-2: Automatic Thermal Cycler (PCR Machine) can have upto 15,000 programs & 30 steps programming and upto 100 Typical cycles & 60,000 nesting cycles.
- SCT-VIN-2: Automatic Thermal Cycler (PCR Machine) has Long & Touch down PCR's
- SCT-VIN-2: Automatic Thermal Cycler (PCR Machine) Automatically Calculates the Melting and Annealing Temperature through input Two Primer Sequences and holds at 4°C ,if required for ever.
- SCT-VIN-2: Automatic Thermal Cycler (PCR Machine) has Data & Protocols protection using , Password-Based Authentication prevents from View, Copy and Alteration of Protocols
- SCT-VIN-2: Automatic Thermal Cycler (PCR Machine) has user friendly & Innovative "TOP-OPEN" Technology Realizes Open and Lift the lid in One Step.
- SCT-VIN-2: Automatic Thermal Cycler (PCR Machine) has Auto pause ,Auto re-start & auto Shut-off.
- SCT-VIN-2: Automatic Thermal Cycler (PCR Machine) has optional quickly changeable modules for Gradient PCR 96 Module: 96wells× 0.2ml
9677 Module: 96wells× 0.2ml+77wells× 0.5ml
48 Module: 48wells× 0.2ml+48wells× 0.5ml
384 Module: 384wells
Multi-Purpose Module: 9677 Module + In-Situ Adapter
- SCT-VIN-2: Automatic Thermal Cycler (PCR Machine) has Global Adaptable switch power (85v-265v) Increasing safety & Reliable Performance
- SCT-VIN-2: Automatic Thermal Cycler (PCR Machine) has a user friendly windows based software for handling the PCR data's..
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.012.02
MODEL NO.	SCT-VIN-2
Display	Touch Screen, colour Graphical Display of Protocols and Running Status with large (7") screen.
Communications	2 USB2.0 and LAN
Temperature	
Block Temperature Range	0°C~100°C
Max. Heating/Cooling Rate	6°C/s
Temperature Uniformity	≤±0.2°C(at 95°C)
Temperature Accuracy	≤±0.1°C(35°C -100°C)
Display Resolution	0.1°C
Mode of Temperature Control	Sim-Tube & Block Mode
Gradient	
Gradient Accuracy	≤±0.1°C(35°C -100°C)
Column Uniformity	≤±0.2°C(at 95°C)
Gradient Range	30°C~100°C
Temp. Differential Range	1~30°C
Gradient Capability	12 Column
Software	
Max. No. of Programs	Max. 15,000 Programs Onboard, Unlimited Storage of Protocols with USB Flash Drive
Max. Step	30 Steps
Max. Cycle	100 Typical Cycles, Max. 60,000 nesting cycles
Time Increment/Decrement	Yes , Available for Long PCR & Touchdown PCR
Auto Pause / Auto Restart	Yes
Multi-User Log In	Password-Based Authentication prevents from View, Copy and Alteration of Protocols
Tm Calculator	Automatically Calculates the Melting and Annealing Temperature through input Two Primer Sequences
Hold at 4°C	Forever
Program Wizard	Yes, Create PCR Protocols with Only a Few Clicks
Running Report	Yes, Provide Objective and Precise information for the Whole Experiment
Heating and Cooling Technology	Modern Generation Peltier-Based Technology

Heat Lid	
Height of Heat Lid	Steplessly Adjustable Lid, Accommodates all kinds of PCR Tubes, Strips and Plates
Open Method	Innovative "TOP-OPEN" Technology Realizes Open and Lift the lid in One Step
Heat Lid Temperature Range	30°C~112°C
Auto Shut-Off	Yes
Other Features & Optional blocks	Gradient Module
Block Optional	96 Module: 96wells×0.2ml
	9677 Module: 96wells×0.2ml+77wells×0.5ml
	48 Module: 48wells×0.2ml+48wells×0.5ml
	384 Module: 384wells
	Multi-purpose Module: 9677 Module + In-Situ Adapter
Dimension(L×W×H)	362×256×255mm
Net Weight	7.3kgs

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.012.02	SCT-VIN-2	SCT-VIN-2: Automatic Advanced Thermal Cycler (PCR Machine) is supplied complete with instruction manual.

SCT-SPB-1 : DIGITAL HYBRIDIZATION OVENS

SALIENT FEATURES:

- SCT-SPB-1 DIGITAL HYBRIDIZATION OVENS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the DNA / SOUTHERN BLOTTING applications with high level performance.
- SCT-SPB-1 has a clear digital display to indicate the correct speed and the temperature of the oven.
- SCT-SPB-1 has a variable speed with 5 to 20 RPM, which is exactly suitable for all the Hybridization related work and it has the proper temperature range of ambient +/- 5 till 85OC, with a greater 20 minutes temperature balance time.
- SCT-SPB-1 has the ability to work continuously for 24 hours and even the rotator rotates continuously.
- SCT-SPB-1 covers majority of the Southern blotting / hybridization applications. It is supplied with (4 pcs) of 35 x 220 mm hybridization tubes in case if the user needs the spare tubes, please order separately.
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.

TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.013.01
MODEL NO.	SCT-SPB-1
Temperature range	Ambient Temp +5°C-100°C
Temperature Accuracy	± 0.5°C
Temperature error	± 0.3°C
Display resolution	0.1°C
Temperature equilibrium time	<20 min
Rotation speed	5-20 r/min, adjustable
Continuous working time	24 hour
Tube specification	Φ35*220mm
Voltage	220VAC, 50Hz
Power	<600VA
Net Weight	22Kg



361

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.013.01	SCT-SPB-1	SCT SPB-1 HYBRIDIZATION OVEN is supplied completely with one set of 35x220 mm (4 pcs.) included with the instruction manual.

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTION
SCT-107.013.AA	Hybridization tubes / bottles (35 x 220 mm)

SCT SPB-2 : DENATURALIZATION AND HYBRIDIZATION SYSTEM

Programmable system and automatic humidifying that automates the steps in a slide-based FISH procedure, and provides walk-away convenience for clinical and research personnel. The low cost unit accepts a wide range of sample types, is easy to use, and reduces hands-on time by more than 50% while ensuring overall precision and accuracy in all FISH assays. Up to 12 slides can easily be added or removed with one hand. Two-side heating of slides that allows achieving exact correspondence of the set and actual temperature and maintaining uniform temperature across all slide positions.

SALIENT FEATURES:

- SCT-SPB 2 DIGITAL SLIDE DENATURALIZATION & HYBRIDIZATION SYSTEMS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the FISH related applications with high level performance.
- SCT-SPB 2 has digital display with touch screen allows for easy to read and easy programming. And 99 user programmable settings
- SCT-SPB 2 has three operation modes: denaturation/hybridization, hybridization, and fixed temperature, it can be used as a fixed temperature slide warmer.
- SCT-SPB 2 eliminates manual steps and reduces hands-on time during FISH procedures. Slides do not need to be fully loaded to maintain temperature accuracy. Slide guide keeps slides in place and allows for one hand removal, it has more stringent temperature control
- SCT-SPB 2 has rapid temperature ramp-up and accuracy of $\pm 1^{\circ}\text{C}$. and Superior temperature uniformity across all slide positions, also has Two-side heating slide to temperatures ideal for FISH procedures
- SCT-SPB 2 has automatic control humidity, built-in humidity sensor can detects the chamber humidity, the CPU system can be automatically humidify and keep ideal humidity and alarms while the humidity shortage
- SCT-SPB 2 has a perfect lid seals tightly will maintain uniform temperature and ensure humidity across all slide positions
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.013.02
MODEL NO.	SCT-SPB-2
Temperature Control Range	RT+5°C~100°C
Temperature Accuracy	$\pm 1^{\circ}\text{C}$
Temperature Uniform	$\pm 1^{\circ}\text{C}$
Processing Timer	1min~99h59min
Heating Time (37°C to 95°C)	3min
Cooling Time (95°C to 37°C)	5min
Temperature Control Programmable	30°C~100°C
Capacity	12 slides
Overall Dimensions (L x W x H)	380×210×160 mm
Net Weight	6kg

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.013.02	SCT-SPB-2	SCT SPB-2 -FISH Slides - Hybridization System is supplied completely with instruction manual.

SCT-SPB-3 : DIGITAL CELL FUSION APPARATUS

SALIENT FEATURES:

- SCT -SPB -3 DIGITAL CELL FUSION APPARATUS is designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the Cell fusion / embryo operations/ hybridoma generations /plant protoplast fusion applications with high level performance.
- SCT -SPB -3 has a major role in making the animal and plant cell fusions using DC direct pulses .These electric pulses are variable and changeable.
- SCT -SPB -3 has clear digital displays to show the cell fusion functions.
- SCT -SPB -3 has the ability to give different types of electrical pulses which are buncy electric voltage, buncy electrical frequency, square wave fusion pulses. It makes the fusions using micro slides and the special electrodes.
- SCT -SPB -3 has the special type of electrodes, which ranges from the length of 1mm till 5mm. each electrode works properly till 1500 pulses.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.

TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.013.03
MODEL NO.	SCT-SPB-3
AC Under Parameters	
Buncy pulse voltage	Peak-Peak Value 0-48V (0 - +4V) Adjustable continuously.
Buncy pulse frequency	30KHz - 3MHz adjustable
DC Under Parameters	
Square wave fusion pulse voltage	1-600V adjustable (electrode distance) 1.0 mm electric voltage field reach 6000V/cm.
Square wave fusion pulse range	1us-5ms selective 10 grades
With fusion flat electrode	Polar distance 1mm
Net Weight	9.22 Kg.
Packing size	450 x 370 x 290 mm



ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.013.03	SCT-SPB-3	SCT-SPB-3 CELL FUSION APPARATUS is supplied completely with instruction manual.

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTION
SCT-107.103.BA	Microslides, Electrode Distance 0.5mm, volume 20µl, voltage range 0-500V DC
SCT-107.103.BB	Microslides, Electrode Distance 1.0mm, volume 40µl, voltage range 0-500V DC
SCT-107.103.BC	Microslides, Electrode Distance 2.0mm, volume 80µl, voltage range 0-500V DC
SCT-107.103.BD	Microslides, Electrode Distance 3.2mm, volume 0.7ml, voltage range 0-500V DC
SCT-107.103.BE	Genetodes Electrode length 5 mm, Pole tip configuration - Micro, Pole configuration Straight, Electrode spacing 1 - 10mm, Pole tip diameter 0.5 mm, Voltage DC 0-200V.
SCT-107.103.BF	Genetodes Electrode length 5 mm, Pole tip configuration - Micro, Pole configuration Straight, Electrode spacing 1 - 10mm, Pole tip diameter 0.5 mm, Voltage DC 0-200V.
SCT-107.103.BG	Genetodes Electrode length 10 mm, Pole tip configuration - Micro, Pole configuration Straight, Electrode spacing 1 - 10mm, Pole tip diameter 0.5 mm, Voltage DC 0-200V.
SCT-107.103.BH	Genetodes Electrode length 5 mm, Pole tip configuration - Micro, Pole configuration L-shape, Electrode spacing 1 - 10mm, Pole tip diameter 0.5 mm, Voltage DC 0-200V.
SCT-107.103.BI	Genetodes Electrode length 3 mm, Pole tip configuration - Blunt, Pole configuration L-shape, Electrode spacing 1 - 10mm, Pole tip diameter 0.5 mm, Voltage DC 0-200V.
SCT-107.103.BJ	Genetodes Electrode length 1 mm, Pole tip configuration - Blunt, Pole configuration L-shape, Electrode spacing 1 - 10mm, Pole tip diameter 0.5 mm, Voltage DC 0-200V.

SCT-SPB-4 : DIGITAL UV CROSS LINKERS / FIXERS

SALIENT FEATURES:

- SCT-SPB-4 DIGITAL UV (ULTRA VIOLET) CROSS LINKERS / FIXERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCT-SPB-4 has a digital display with time and the exposure details.
- SCT-SPB-4 is a multi-function at instrument of UV radiation system and mainly used in fixing DNA on membrane. It can also be used to cut DNA in agarose gel to select RecA mutation, partly digest thymine dimmer by restriction endonucleases, to eliminate the PCR contamination by means of UV sterilization. And, it is also used in the fields such as UV sterilization and disposal of polymer.
- SCT-SPB-4 has the ability to fix the nucleotides on the membrane, it's only a matter of several-seconds-of radiation at 254 nm by the UV Fixer. However, according to the traditional methc the membrane has to be baked for 2 hours at 80°C by using a vacuum oven.
- SCT-SPB-4 uses UV Wavelength : 312 nm (365 nm, 254 nm provided)
Exposure time and measuring range : 0-9999.9 minutes, power 60W
UV source : 10w light tube x 5 information lossless under turning off
Energy sets and save : 9 exposures display
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



363

TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.013.04
MODEL NO.	SCT-SPB-4
UV wavelength	312nm (365nm - 254nm provided)
Exposure time and measuring range	0-999.9 minutes; power 60W
UV source	10W light tube×5 Information lossless under turning off
Energy sets and save	9 exposures display on liquid crystal screen
Time setting and save	9 exposures Touchable keyboard
UV exposure Manual set energy	UV shaded window
UV exposure Manual set time	Wide stainless steel UV
External dimension	360mm×340mm×310mm
Exposure room dimension	340mm×260mm×150mm

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.013.04	SCT-SPB-4	SCT-SPB 4 : DIGITAL UV CROSS LINKERS / FIXERS is supplied completely with instruction manual.

SCT-ANN 1 : DIGITAL PORTABLE ELECTROPORATORS (IN VIVO).

SALIENT FEATURES:

- SCT ANN-1 DIGITAL PORTABLE ELECTROPORATORS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the CELL TRANSFECTION AND ELECTROPORATION applications with high level performance.
- SCT ANN-1 has digital display indicates the voltage being used during the electroporation. It has a pulse voltage of 50-200 VDC stepless, variable .
- SCT ANN-1 is a simple portable unit, has a wide application of in various DNA transfer to cells.
- SCT ANN-1 has the application of pulsed electric fields of cells by using low voltage can enhance cell-membrane permeability and thus facilitate polynucleotide uptake into cells. Resulting in a distinct improvement of DNA vaccines and gene therapy.
- SCT ANN-1 is a fantastic tool for the researchers who uses the electroporation technique. It is simple and user friendly with high reliability.
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.014.01
MODEL NO.	SCT-ANN-1
Pulse voltage	50~200VDC, stepless adjustable
Pulse width	10, 20 - 90, 100, 120, 140, 160, 180ms (when Power at 50Hz)
Waveform	8.3, 16.6, 25.0, 33.3, 41.6, 50.0, 58.3, 66.6, 75.0, 83.3, 100.0, 116.6, 133.3, 150.0ms(when power at 60Hz), total 14 shifts. There are total 18 shifts, plus 4 repetitious shifts.
Numbers of discharge	Square wave, duty ratio 0.5
Output electrode	1~9 pulses/discharge
Input voltage	Changeable
Input power frequency	110V in USA or West Europe (Set by wiring inside the instrument. No set switch outside.)
	50 Hz or 60 Hz

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.016.02	SCT-Ann-1	SCT-Ann-1 DIGITAL PORTABLE ELECTROPORATORS (IN VIVO) is supplied completely with instruction manual.

SCT-ANN 2 : DIGITAL BENCH TOP ELECTROPORATORS

SALIENT FEATURES:

- SCT ANN-2 DIGITAL BENCH TOP ELECTROPORATORS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- Electroporation is a process by which a high voltage is applied across an electrical field to disrupt a cell membrane and introduce a foreign substance into the cell. Electroporation is a versatile and efficient method of DNA transfection because it has been shown to work for such a wide variety of cell types.
- SCT ANN-2 has digital display of the test parameters. It has 100-450 V low input voltage and 400 ~2500 V high output voltage.
- SCT ANN-2 is micro processor controlled instrument for the precise control over the resistance & the capacitance, which sets a ideal environment for the Gene Electroporation and the safer operations.
- SCT ANN-2 is widely applicable to the electro-perforation of micro-organism cells of animals and plants and is also used for cell hybrid and mixing as well gene electroporation
- SCT ANN-2 has an excellent transfection rate and efficiency.
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.014.02
MODEL NO.	SCT-ANN-2
High voltage mode	400-2500V
Low voltage mode	100-450V
HV capacitance	1, 5, 6, 25, 30, 31 μ F
LV capacitance	100, 125, 150 --- 1675 μ F
	(25 μ F resolution)
Resistance	50, 100, 150, 1600; (30grades)
Operation	Microprocessor
DC waveform	Decaying or truncated exponential waveform with RC time constant
Outer dimension	36.8×31.6×22.9cm
Net weight	10.5kg
Packing Dimension	480×420×280mm



ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.016.01	SCT-Ann-2	SCT-Ann-2 DIGITAL BENCH TOP ELECTROPORATORS is supplied completely with instruction manual.

SCT-DRRUX 1 : HAND HELD GENE GUNS

SALIENT FEATURES:

- SCT- DRRUX 1- HAND HELD INSITU GENE GUNS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCT- DRRUX 1 is a convenient hand-held devices, which can direct gene transfer rang in situ. The adjustable press of helium drives the metal-powder particles pre-packed with DNA, RNA or some other substance in the interior of a small nylon tube into the inside of cells. Compared with other gene delivery systems it has being a safe, convenient, efficient of the advantages. It can be commonly used by cells of different kinds. The help of a small amount of DNA and some other cells, multi-material micro-carriers import can jointly be carried out. It is able to transport large pieces of DNA and make the target gene have many cells transferred and eligible for transformation both outside and inside. It makes the operation of transgenic work become more flexible, simple.
- SCT- DRRUX 1 is Portable, Light weight, user friendly and safe.
- SCT- DRRUX 1 is a special gas valve and hoses, plus sample devices, cutting machine
- SCT- DRRUX 1 has an optional specially-made nylon tube 50 Feet/bag, metal Micro-carriers (powder).
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

MODEL NO.	SCT-107.015.01
PRODUCT NO.	SCT-DR.RUX-1
Experimental conditions	In situ, In vitro, in VIVO, from the body
Target Region	2cm ²
Pressure range	0.5-5MPa
Target Type Animals / Plants	Target type Animals: any organization (skin, organs) exposure to gene gun; cells, explant and organ culture. Field and greenhouse use, plant cell culture and explant, yeast, bacteria, other microbes
Carrier Gas	Helium
Metal Micro-carriers	Φ0.6-1.6μm (common Φ1.6μm)
Voltage	9V (capable of firing 1000 times).

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.015.01	SCT-DR.RUX-1	SCT DRRUX-1 Portable Gene Gun supplied with special gas wall and hoses, plus sample devices, cutting machine.

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTION
SCT-107.015.AA	Specially made nylon tube 50 Feet/bag
SCT-107.015.AB	Metal Micro carriers
SCT-107.015.AC	Powder 0.8 - 1.5 μm or 1.5 - 3.0μm

SCT-DRRUX 2 : BENCH TOP HIGH PRESSURE GENE GUNS

SALIENT FEATURES:

- SCT DRRUX-2 BENCH TOP HIGH PRESSURE INSITU GENE GUNS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCT DRRUX-2 Gene gun technology (particle bombardment) is a all-new gene-delivery technology, also a physical method, in which the genetic material or other substances attached to a high-speed micro-bomb are shot directly into the cells, so it is a late gene-transferred technology internationally.
- SCT DRRUX-2 pneumatic Gas gene gun can make a wide range of cell types instantly stable and highly-efficient transformation. The gene gun has a special rupture which generates a gas shock ware. The degree of Helium-pressure that drives the carrier film is determined by the different rupture films used in the process. Within a proper atmospheric pressure the different rupture films penetrate the DNA-coated micro carriers into the target cells at the bottom of the bombardment chamber.
- SCT DRRUX-2 gene gun is applicable in gene-transformation of plants and animals, cell cultures, embryos, bacteria and small animals. It has have fast, simple, safe and efficient features.
- SCT DRRUX-2 has a unique circular bombardment transformation room, removable for easy cleansing and disinfection, low cost Standard Configuration host, vacuum pumps, breakage film, carrier film, stainless steel net, tungsten powder.
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

MODEL NO.	SCT-107.015.02
PRODUCT NO.	SCT-DR.RUX-2
Pressure range	3-12 Mpa
Max. target area	40cm ²
The diameter of the largest target	Φ50mm
Voltage	220V
Gas source	Helium or nitrogen
Metal Micro Carriers	Φ0.6 - 1.6 μm (common Φ 1μm)

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.015.02	SCT-DR.RUX-2	SCT DRRUX 2 High Pressure Gas Gene Gun supplied with vacuum pumps, breakage film, carrier film, stainless steel net, tungsten powder.

* Other optional accessories and the application notes upon request

SCT-MOLINC : ID INCUBATORS

SALIENT FEATURES:

- SCT MOLINC DIGITAL ID CARD INCUBATORS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCT MOLINC Incubator is for 24-gel cards in racks at 37°C.
- SCT MOLINC has 2 independent incubation zones with a capacity for 12 gel cards.
- SCT MOLINC has Digital interface screen for control and visualization of remaining incubation time and real temperature for each one.
- SCT MOLINC has Fixed pre-set temperature time of 15 minutes, which can be adjust by the user.
- SCT MOLINC has audible programmable alarm to notify end of incubation period.
- SCT MOLINC has a 15 minutes variable timer.
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.016.01
MODEL NO.	SCT-MOLINC-1
Capacity	24 Gel cards
Temperature	37°C
Timer	15min (Variable)
Power	AC220V or AC120V 50-60Hz, 300W
Dimensions	DxWxH=380x220x115 mm

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.016.01	SCT-MOLINC-1	SCT MOLINC-1 ID INCUBATORS is supplied complete with instruction manual.

SCT-MOLCEN : ID CENTRIFUGES

SALIENT FEATURES:

- SCT MOLCEN DIGITAL ID CENTRIFUGES are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCT MOLCEN is a simultaneous centrifuge of up to 24 gel cards.
- SCT MOLCEN has a removable and exchangeable spinning head.
- SCT MOLCEN has Pre-defined centrifuge parameters for optimum gel cards processing, acceleration, speed, braking and time.
- SCT MOLCEN has digital interface visor control and visualization of centrifuge speed and time remaining for processing.
- SCT MOLCEN Programmable audible alarms for end of centrifugal time periods.
- SCT MOLCEN operates at 1500 RPM and it has 0 to 99 minutes timer.
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001:2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.016.02
MODEL NO.	SCT-MOLCEN-1
Capacity	24 Gel cards
Speed	Two stages (It can be variable according to user need)
Max.speed	1500rpm
Timer	0-99min
Power	AC100-240V, 50/60Hz, 50W
Dimensions	DxWxH=530x410x180 mm

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.016.02	SCT-MOLCEN-1	SCT MOLCEN-1 ID CENTRIFUGES is supplied complete with instruction manual.

SCT-ANTIBODY : SEMI AUTOMATED DIGITAL MICROPLATE / ELISA READERS

SALIENT FEATURES:

- SCT ANTIBODY SEMI-AUTOMATED DIGITAL MICROPLATE / ELISA READERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCT ANTIBODY has an easy Windows operation system with touch screen or mouse, large LCD display 8-channel optical fiber system enables 5 secs' reading for the whole plate Bichromatic measurement, calculation modes including ABS, Cut-off, Curve, Linear, Log and Exponential regression
Large memory, up to 100 test protocols and 10, 000 can be stored
- SCT ANTIBODY has a auto self-check when power on With lamp sleeping and wake-up function Random positive and negative control setting
- SCT ANTIBODY has a Multi-assay enables up to 12 different assays on one plate shaking function
- SCT ANTIBODY has the following optional features to upgrade later. Internal printer (external printer optional) Powerful QC function: Grubs, Westguard Multi-rule, Levey Jennings plot (optional)
Easy software upgrade by SD card, support USB mouse and keyboard
Multiform result output including patient comprehensive report
Ability to communicate with PC for data management(optional)
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.017.01
MODEL NO.	SCT ANTIBODY
Absorbance Range	0.000-4.000Abs
Resolution	0.001Abs (display), 0.0001Abs (calculation)
Accuracy	±0.1% or ±0.005 Abs
Type of Microplate	Standard with 96-well or other kind of microplate and strip
Wavelength	405, 450, 492, 630nm, 4 more filters optional (from 400-700nm available on special order)
Measurement range	0.000-2.500Abs
Optic System	8-channel optic fiber system
Light Source	Halogen lamp
Wavelengths	405, 450, 492, 630nm, 4 more filters optional
Wavelength Accuracy	± 1nm
Band width	<8nm
Calculation Method	ABS, %ABS, Cut-Off, Single Standard, Curve, Multi-Percent, Percent Log, Linear, Exponential, Power, 4PL Regression
Reading Speed	5 seconds for 96 well plate (single wavelength)
Shaking Plate	Shaking time and speed adjustable
Operation	PC operation, bidirectional communications
Memory	More than 100 programs, up to 100, 000 test results
Interface	RS-232, USB, SD card interface
Display	6" LCD (with touch screen function)
Input	Touch panel or mouse
Output	Internal printer; External printer (optional)
Power supply	AC 110V - 220V ± 10%, 50-60Hz
Net Weight	9KG
Dimensions L×W× H (mm)	460×330×200

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.017.01	SCT ANTIBODY	SCT Anti body MICROPLATE READER SUPPLIED COMPLETE WITH INSTRUCTION AND READY TO USE.

SCT-ANTIGEN : SEMI AUTOMATED DIGITAL MICROPLATE / ELISA WASHERS

SALIENT FEATURES:

- SCT ANTIGEN SEMI AUTOMATED DIGITAL MICROPLATE / ELISA WASHERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCT ANTIGEN has an easy Windows operation system, large LCD display. Washes flat, U and V-bottom strips and plates 12-way or 8-way manifold, automatic and manual positioning Large memory, up to 50 wash protocols can be programmed.
- SCT ANTIGEN has a automatic monitoring for vacuum and pressure, automatic rinse cycle Washing pressure volume and time adjustable, Liquid level detection and alert function.
- For SCT ANTIGEN No special air-tight bottle required for wash bottle and easy maintenance
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.

TECHNICAL INFORMATIONS:

PRODUCT NO.	SCT-107.017.02
MODEL NO.	SCT-ANTIGEN
Plate Mode	96-/48-well plate or strip
Dispense Precision	CV<2.0%
Residual Volume	<1µl
Washing Volume	50~3000µL for 8-way manifold 50~2000µL for 12-way manifold
Washing Cycle	Maximum 99 cycles
Strip Washing	1 to 12 strips programmable
Soaking Time	0~24hours
Shaking Time	0~24hours
Display	5" LCD
Wash Channels	3 channel bottles, 1 for wash, 1 for water (rinse) and 1 for waste
Bottles Capacity	2 Liters each bottle
Memory	50 washing protocols
Interface	RS-232
Power Supply	AC 110/220V±10%, 50~60HZ
Net Weight	8 KG
Dimension L×W×H(mm)	390×340×170



ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.017.02	SCT-ANTIGEN	SCT ANTIGEN MICROPLATE WASHER COMPLETE WITH INSTRUCTION AND READY TO USE.

* Other optional accessories and application notes, upon request

SCT-FLAKE : SEMI-AUTOMATED LAB ICE FLAKE MACHINES

SALIENT FEATURES:

- SCT FLAKE 1/2/3/4 SEMI-AUTOMATED LAB FLAKE ICE MACHINES are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCT FLAKE 1/2/3/4 has a high quality stainless steel chamber with anti-corrosive durable construction.
- SCT FLAKE 1/2/3/4 has a good quality CFC free, noiseless Compressor which works constantly give a continuous production of flake ice.
- SCT FLAKE 1/2/3/4 has a microprocessor controlled operation to achieve maximum output in the flake ice production with the same type of flakes. It makes environmental friendly operations.
- SCT FLAKE 1/2/3/4 has different production capacities 20, 40, 70 and 100 Kg/day of ice flakes.
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	MODEL NO.	Ice volume (kg/24h)	Ice weight (kg)	Dimension (L W Hmm)	Packing size (L W Hmm)	Net weight (kg)
SCT-107.018.01	SCT-FLAKE-1	20	10	300*493*547	377*571*595	32
SCT-107.018.02	SCT-FLAKE-2	40	15	380*543*722	457*621*770	40
SCT-107.018.03	SCT-FLAKE-3	70	25	548*611*883	625*690*932	57
SCT-107.018.04	SCT-FLAKE-4	100	25	548*611*883	625*690*932	58

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.018.01	SCT-FLAKE-1	SCT-FLAKE: SEMI-AUTOMATED LAB ICE FLAKE MACHINES is supplied complete with instruction manual.
SCT-107.018.02	SCT-FLAKE-2	SCT-FLAKE: SEMI-AUTOMATED LAB ICE FLAKE MACHINES is supplied complete with instruction manual.
SCT-107.018.03	SCT-FLAKE-3	SCT-FLAKE: SEMI-AUTOMATED LAB ICE FLAKE MACHINES is supplied complete with instruction manual.
SCT-107.018.04	SCT-FLAKE-4	SCT-FLAKE: SEMI-AUTOMATED LAB ICE FLAKE MACHINES is supplied complete with instruction manual.

* Other optional accessories and others upon request capacities

SCT – RINSE : AUTOMATIC LABORATORY GLASS WASHING MACHINES

SALIENT FEATURES:

- SCT RINSE AUTOMATIC LABORATORY GLASS WASHING MACHINES are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCT RINSE has 160 liters capacity.
- SCT RINSE is a cleaning and disinfection machine adopts computer controlled technology to control the water temperature, pressure and flushing time of the high pressure and dynamic spray.
- SCT RINSE can be used for surface and intra cavity cleaning and disinfection work with the other detergent or disinfectant for dental equipment, surgical instrument, lab containers etc. and has been widely used in dental clinics, hospital supply centre, operating room and various biological and toxicological laboratories.
- SCT RINSE is supplied with standard rack for holding lab glasswares.
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.

**TECHNICAL SPECIFICATIONS:**

PRODUCT NO.	SCT-107.018.05
MODEL NO.	SCT-RINSE
Flow direction	Three dimensional dynamic comprehensive in consecutive spray rinse
Rated external water pressure	0.041.00Mpa
Water pressure	0.3~0.4Mpa
Automatic cleaning program	strong, standard, economy, rinse, fast, ultra-fast, pre-wash, seven kinds of procedures
Vacuum Composite Filter	Minimum filtration =10um
Maximum power	≤1760W
Drying mode	high-temperature hot-dry
Stainless steel chamber	Heat-resisting, corrosion-resisting, easy to clean
Dimension (L×W×H)	590×595×850(mm)
Chamber volume	about 160L
Experimental vessel cleaning rack	Cleaning 18 Beakers and 20 burettes each time
Water filters Porosity	20-85m3/h
Working noise	≤50dB
Net weight	43kg

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.018.05	SCT-RINSE	SCT AUTOMATIC LABORATORY GLASS WASHING MACHINES is supplied complete with instruction manual.

SCT-REFRIGERATORS/ (0 to 15 °C)

SALIENT FEATURES:

- SCT POLAR-1/2/3 LABORATORY / MEDICAL / PHARMACEUTICAL REFRIGERATORS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- Precise Temperature Control System Microprocessor PID controller ensures the most accurate temperature control and maintains cooled temperature during defrost cycle by unique designated technology
PC SOFTWARE SYSTEM:
RS-232C / 485 interface to LIS / HIS requirement with monitoring software is supplied
- SELF-DIAGNOSTIC AND ALARM SYSTEM
 - High / Low working room temperature Alarm
 - Electric power failure Alarm
 - Status of door opening warning Alarm
 - Low battery for controller warning Alarm
 - Operating temperature check in high and low
 - Password locking system for set temperature
- NON-CFC/HCFC REFRIGERATION SYSTEM
CFC/HCFC-free Hermetically sealed compressor and Natural Refrigerant gas are used for compliance with the New Environmental Regulation
- IQ-OQ DOCUMENTATION & VALIDATION is provided on request as optional order
HIGH-DENSITY POLYURETHANE FOAM INSULATION with 60mm thickness Insulation provides excellent low temperature and maintains cool temperature for a long time in case of power failure
- VACUUM SEALED PAIR GLASS DOOR
With embedded invisible heating film prevents viewing window from moisture condensation
- AUTOMATIC DEFROST AND DEHUMIDIFY SYSTEM
Unique air flow circulation and defrost system provides high precision temperature uniformity and stability
USER FRIENDLY DESIGN
- Built-in Fluorescent lamp with ON/OFF switch and circulation fan stops while door is opening
- Door key Lock device and password lock for safety
 - Height adjustable epoxy powder coated shelf
- MAGNETIC PACKING WITH ADJUSTABLE TENSION DOOR
Magnetic packing with adjustable enforced tension door prevent cold temperature from any air leakage
- PT-100Q RTD SENSOR
Provides the exact temperature control for products in the chamber (Option: Sensor in liquid bottle) WHO - Compliance (Optional Chart Recorder)
 - Conforms to the international standards & CE safety standards
 - Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.019.01	SCT-107.019.02	SCT-107.019.03
MODEL NO.	SCT-POLAR-1	SCT-POLAR-2	SCT-POLAR-3
Capacity	295L	612L	1125L
Refrigerator Non CFC	¼ HP	¼ HP	½ HP
Defrost Heater	300W	300W	300W
Drawer Shelf	3 Each	6 Each	12 Each
Controller	Microprocessor Digital PID Controller with battery back up system		
Display	4 DIGIT LED Display & LED Signal Lamp		
Temperature Range	2°C - 10°C / 0°C to 15°C		
	Set Accuracy +/-0.1 °C / Uniformity +/-1°C at 4°C		
Temperature Alarm	Set High limit & Low Limit Temperature, Audible and Visible alarm		
Material Interior	Stainless steel 304		
Exterior	Epoxy Powder Coated EGI Steel		
Door	Vacuum Sealed Pair Glass Swing Door: Invisible Heat Film Embedded		
	Key locker, Adjustable tension spring, Magnetic Packing door		
Air Circulation	Turbo Fan with automatic stop/run during door open		
Safety	High /Low Temp, Protector, ELCB, Thermal Protector		
Electric Supply	110V, 60Hz or 220 / 230V, 50/60 HZ		
Dimensions Inner	560x 660x 800	620 x 700x 1410	1140x700x1410
(WXDXH mm) Outer	683 x 775 x 1490	740x805x1985	1260 x 805 x1998

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.019.01	SCT-POLAR-1	SCT-POLAR-1 LABORATORY/ MEDICAL / PHARMACY REFRIGERATORS Supplied complete with Battery Back up system
SCT-107.019.02	SCT-POLAR-2	SCT-POLAR-1 LABORATORY/ MEDICAL / PHARMACY REFRIGERATORS Supplied complete with Battery Back up system
SCT-107.019.03	SCT-POLAR-3	SCT-POLAR-1 LABORATORY/ MEDICAL / PHARMACY REFRIGERATORS Supplied complete with Battery Back up system

OPTIONAL ACCESSORIES:

SCT-107.019.AA	7 days Chart Recorder
SCT-107.019.AB	STS Drawer Shelf
SCT-107.027.AC	Digital Recorder

SCT- BLOOD BANK REFRIGERATORS 4 ° C

- SCT POLAR 11/12/13 are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance. Precise Temperature Control System Microprocessor PID controller ensures the most accurate temperature control and maintains cooled temperature during defrost cycle by unique designated technology.
- PC SOFTWARE SYSTEM
RS-232C / 485 interface to LIS/HIS requirement with monitoring software is supplied.
- SELF-DIAGNOSTIC AND ALARM SYSTEM
- High / Low working room temperature Alarm.
Electric power failure Alarm.
Status of door opening warning Alarm.
Low battery for controller warning Alarm.
- Operating temperature check in high and low.
- Password locking system for set temperature.
- NON-CFC/HCFC REFRIGERATION SYSTEM
CFC/HCFC-free Hermetically sealed compressor and Natural Refrigerant gas are used for compliance with the New Environmental Regulation.
- IQ-OQ DOCUMENTATION & VALIDATION is provided on request as optional order.
- HIGH-DENSITY POLYURETHANE FOAM INSULATION
With 60mm thickness Insulation provides excellent low temperature and maintains cool temperature for a long time in case of power failure.
- VACUUM SEALED PAIR GLASS DOOR
With embedded invisible heating film prevents viewing window from moisture condensation.
- Automatic Defrost and Dehumidify System.
- Unique air flow circulation and defrost system provides high precision temperature uniformity and stability.
- USER FRIENDLY DESIGN
- Built-in Fluorescent lamp with ON/OFF switch and circulation fan stops while door is opening
Door key Lock device and password lock for safety.
Height adjustable epoxy powder coated shelf.
- Magnetic packing with adjustable tension Door Magnetic packing with adjustable enforced tension door prevent cold temperature from any air leakage.
- PT-100Q RTD SENSOR
Provides the exact temperature control for products in the chamber (Option : Sensor in liquid bottle). WHO - Compliance (Optional Chart Recorder)
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.020.01	SCT-107.020.02	SCT-107.020.03
MODEL NO.	SCT-POLAR-11	SCT-POLAR-12	SCT-POLAR-13
Capacity	295L	612L	1125
500ml Bags Capacity Approx.	150 Each	300 Each	550 Each
Compressor Non Cfc	¼ HP	¼ HP	½ HP
Defrost Heater	300W	300W	300W
	Stable temperature during defrost cycle		
Drawer Shelf	3 Each	6 Each	12 Each
Controller	Microprocessor Digital PID Controller with battery back up system		
Display	4 DIGIT LED Display & LED Signal Lamp		
Temperature Range	4°C		
	Set Accuracy +/-0.1°C / Uniformity +/-1°C at 4°C		
Temperature Alarm	Set High limit & Low Limit Temperature, Audible and Visible alarm		
Material Interior	Stainless steel 304		
Exterior	Epoxy Powder Coated EGI Steel		
Door	Vacuum Sealed Pair Glass Swing Door : Invisible Heat Film Embedded		
	Key locker, Adjustable tension spring, Magnetic Packing door		
Air Circulation	Turbo Fan with automatic stop / run during door open		
Safety	High /Low Temp, Protector, ELCB, Thermal Protector		
Electric Supply	110V, 60Hz or 220 / 230v, 50/60 HZ		
Dimensions Inner	560x 660x 800	620 x 700x 1410	1140x700x1410
(WDXH mm) Outer	683 x 775 x 1490	740x805x1985	1260 x 805 x1998

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.020.01	SCT-POLAR-11	SCT POLAR-11 BLOOD BANK REFRIGERATORS Supplied complete with 7 days chart recorder, STS Drawer Shelf, Battery Back up system
SCT-107.020.02	SCT-POLAR-12	SCT POLAR-11 BLOOD BANK REFRIGERATORS Supplied complete with 7 days chart recorder, STS Drawer Shelf, Battery Back up system
SCT-107.020.03	SCT-POLAR-13	SCT POLAR-11 BLOOD BANK REFRIGERATORS Supplied complete with 7 days chart recorder, STS Drawer Shelf, Battery Back up system

SCT-COMBINED : REFRIGERATORS / FREEZERS

SALIENT FEATURES:

- SCT POLAR 21/22/23 SCT- combined refrigerators and freezers are designed with creativeness to get the elegance and produced with proper quality and meets the specifications for the applications with high level performance.
- Precise Temperature Control System Microprocessor PID controller ensures the most accurate temperature.
- CONTROL and maintains cooled temperature during defrost cycle by unique designated technology.
- AUDIBLE AND VISIBLE ALARM SYSTEM
- High / low temperature alarm system provides safety and security storage.
- NON-CFC / HCFC REFRIGERATION SYSTEM CFC / HCFC-free Hermetically sealed compressor and Natural Refrigerant gas are used for compliance with the New Environmental Regulation.
- MAGNETIC PACKING WITH ADJUSTABLE TENSION DOOR
- Magnetic packing with adjustable enforced tension door prevent cold temperature from any air leakage.
- METAL SOLID DOOR WITH AIR TIGHT GASKET
- Protects samples and reagents from sun light.
- HIGH-DENSITY POLYURETHANE FOAM INSULATION
- With 60mm thickness Insulation provides excellent low temperature and maintains cool temperature for a long time in case of power failure.
- AUTOMATIC DEFROST AND DEHUMIDIFY SYSTEM
- Unique air flow circulation and defrost system provides high precision temperature uniformity & stability.
- Built-in Fluorescent lamp with ON/OFF switch and circulation fan stops while door is opening.
- Door key Lock device and password lock for safety.
- Height adjustable epoxy powder coated shelf.
- PC SOFTWARE SYSTEM RS-232C / 485 interface to LIS / HIS requirement can be ordered as option.
- TWO IN ONE COMBINATION Refrigerator and Freezer combined with one cabinet WHO - Compliance (Optional Chart Recorder)
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL INFORMATION:

PRODUCT NO.	SCT-107.021.01	SCT-107.021.02	
MODEL NO.	SCT-POLAR-21	SCT-POLAR-22	SCT-POLAR-23
CAPACITY	600 l (300Lx2)	1110 l (555Lx2)	1110 l (277Lx4)
COMPRESSOR	1/4 HP	1/2 HP	1/2 HP
DEFROST HEATER	300W	300W	300W
	Stable temperature during defrost cycle		
EPOXY POWDER COATED WIRE SHELF	6each	12 EACH	12 EACH
CONTROLLER	MICROPROCESSOR Digital PID Controller		
DISPLAY	4 DIGIT LED Display & LED Signal Lamp		
Temperature Range	Refrigerator 2°C TO 15°C / Freezer 10°C to -30°C		
Set Accuracy	0.1°C		
Uniformity	Refrigerator +/-1°C at 4°C / Freezer +/-2°C		
Material Interior	Stainless steel 304		
Exterior	Epoxy Powder Coated EGI Steel		
Door	TWO SOLID DOOR	TWO SOLID DOOR	FOUR SOLID DOOR
Air Circulation	Turbo Fan with automatic stop / run during door open		
Safety	High /Low Temp, Protector, ELCB, Thermal Protector		
Electric Supply	110V, 60Hz or 220 / 230v, 50/60 HZ		
Dimensions Inner	620X 700X 1410	1140X 700 X 1410	1140X 700 X 1410
(WXDXH mm) Outer	740 X 805X 1985	1260 X 805X 1998	1260 X 805X 1998

ORDERING INFORMATION:

PART NO.	MODEL NO.	DESCRIPTION
SCT-107.021.01	SCT-POLAR-21	SCT POLAR-21 LABORATORY REFRIGERATORS CUM FREEZERS is supplied complete with instruction manual.
SCT-107.021.02	SCT-POLAR-22	SCT POLAR-22 LABORATORY REFRIGERATORS CUM FREEZERS is supplied complete with instruction manual.
SCT-107.021.03	SCT-POLAR-23	SCT POLAR-23 LABORATORY REFRIGERATORS CUM FREEZERS is supplied complete with instruction manual.

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTION
SCT-107.021.AA	7 Days Chart Recorder
SCT-107.021.AB	Digital Recorder
SCT-107.021.AC	RS 232 /485 Interface Graphic Monitoring for Temperature on real time
SCT-107.021.AD	Battery back up system
SCT-107.021.AE	STS Drawer Shelf

SCT- DEEP FREEZERS (-10 TO -35°C)

SALIENT FEATURES:

- SCT POLAR 31/32/33/34 are designed with creativeness to get the elegance and produced with proper quality and meets the specifications for the applications with high level performance.
- Unique refrigeration technology, cfc / hcfc natural environmentally friendly refrigerant.
- Efficient evaporator rapid cooling to -35°C.
- Cavity of high quality stainless steel, rounded design is easy to clean.
- Mechanical design cabinet, perfect seal on and off.
- Microcomputer digital PID controller with audio-visual alarm system.
- Built-in test holes used for additional data monitoring and application.
- *completely sealed off, low temperature refrigeration.
- Three times as tight thermoplastic rubber thermoplastic elastomer gaskets to reduce energy loss.
- Independent door HDPE material, protection of air-conditioning.
- A unique heated door frame designed to reduce the door frame freezes, convenient re-open the door. Advanced latch system to facilitate open and tightly closed.
- CFC FREE / HCFC cooling system.
Natural environmentally friendly refrigerant and Hermetic Compressor, comply with new environmental protection regulations.
durable and user-friendly design box structure.
- Heavy duty castors with mounting bracket for easy mobility.
- 0mm high-density polyurethane foam insulation layer to maintain low temperature.
 - Electric and refrigeration easy-to-open access door.
 - Height adjustable shelves, stainless steel or epoxy powder coated wire.
- The automatic voltage regulator and energy-saving circuitry.
Efficient and durable electrical components to provide long life and minimum power load to consume the lowest energy.
- Matching liquid nitrogen & carbon dioxide back-up system.
We recommend to use our Liquid Nitrogen containers for storing Liquid nitrogen.
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT No	SCT-107.022.01	SCT-107.022.02	SCT-107.022.03	SCT-107.022.04
MODEL NO.	POLAR-31	POLAR-32	POLAR-33	POLAR-34
Refrigeration type	Single-stage refrigeration systems / Vertical			
Capacity	369 L	492 L	615 L	730 L
Size mm Internal	600 × 640 × 960	600 × 640 × 1280	750 × 640 × 1280	750 × 960 × 1280
W x D x H External	895 × 990 × 1 730	895 × 990 × 2050	1045 × 990 × 2050	1045 × 1110 × 2050
Compressor	3/4 HP	3/4 HP	1HP	1.5 HP
Controller	The digital PID microprocessor control with battery back-up system			
Temperature	-10°C to -35°C			
Insulation insulation layer	High density 145mm thick polyurethane foam insulation thermal insulation layer			
Material Internal	304 stainless steel			
Material External	Epoxy powder coated galvanized steel			
Safety devices	High and low temperature protection, earth leakage circuit breaker, thermal protection			
Power supply	220/230V, 50/60Hz			

373

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.022.01	SCT-POLAR-31	SCT-POLAR-31 DEEP FREEZER -10 TO -35 C / 369 L is supplied completely with the user manual
SCT-107.022.02	SCT-POLAR-32	SCT-POLAR-32 DEEP FREEZER -10 TO -35 C / 492 L is supplied completely with the user manual
SCT-107.022.03	SCT-POLAR-33	SCT-POLAR-33 DEEP FREEZER -10 TO -35 C / 615 L is supplied completely with the user manual
SCT-107.022.04	SCT-POLAR-34	SCT-POLAR-34 DEEP FREEZER -10 TO -35 C / 730 L is supplied completely with the user manual

(PLS NOTE RACKS / CRYO BOXES ARE NOT INCLUDED IN THE STANDARD SUPPLY. TO BE ORDERED SEPARATELY)

* Other Horizontal models upon request

SCT : ULTRA LOW FREEZERS (-85°C) VERTICAL

SALIENT FEATURES:

- SCT POLAR 41 / 42 / 43 & 44 are designed with creativeness to get the elegance and produced with proper quality and meets the specifications for the applications with high level performance.
Up Right Type -85°C Deep Freezer Non-CFC high-density polyurethane Insulation thickness 145mm.
- The Unique Refrigeration technology with Non-CFC / HCFC natural refrigerant.
- Fast Cooling down to -85°C perfect contacted evaporator system.
- High quality stainless steel inner chamber with rounded corners for easy clean.
- Mechanical designed cabinet with perfect door seal and closure.
- Microprocessor PID digital controller with Audible & Visible Alarm system.
- Built-in access port for external data monitoring and supply.
- Complete sealing and closure mechanism for ultra low temperature.
 - Triple air tight Santoprene sealing gaskets made from Thermoplastics Elastomer.
 - The individual inner doors made from cold-free HOPE material.
 - Mechanically heated door frame seal keeps ice formation-free.
 - Advanced door latch system for perfect closing and easy opening.
- Non-CFC/HCFC Refrigeration System.
Natural refrigerant and hermetically sealed compressor are used for compliance with the New Environmental Protection Regulation.
- Heavy-duty and user friendly designed chamber structure Heavy-duty caster with built-in adjustable stands for easy movement.
145 mm High density polyurethane foamed insulation maintain cool temperature Easy opening access door for electric and refrigeration compartments.
- Height adjustable shelf is stainless steel or epoxy powder coated wire.
- Automatic voltage regulation and Energy saving electric circuit system Efficient and durable electric parts and components, provides long life cycle, and minimize electric load leading to consumption of low energy and to protection.
- Optional LN2 & CO2 back up System. Who - Compliance
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.023.01	SCT-107.023.02	SCT-107.023.03	SCT-107.023.04
MODEL NO.	SCT-POLAR-41	SCT-POLAR-42	SCT-POLAR-43	SCT-POLAR-44
REFRIGERATION TYPE	Cascade Refrigeration System / Upright Type			
CAPACITY	369 L	492 L	615 L	730 L
REFRIGERATOR NON CFC	1 HPX2	1 HPX2	3/2 HPX2	3/2 HPX2
CONTROLLER	MICROPROCESSOR Digital PID Controller with battery back up system			
Temperature	-40°C TO -85°C			
Insulation	145 mm High Density Polyurethane Foamed Insulation			
Material Interior	Stainless steel 304			
Exterior	Epoxy Powder Coated EGI Steel			
Door	Vacuum Sealed Pair Glass Swing Door : Invisible Heat Film Embedded			
Safety	High /Low Temp, Protector, ELCB, Thermal Protector			
Electric Supply	220 / 230v, 50/60 HZ			
Dimensions Inner	600x650x955	600x650x1275	750x 655x 1275	750x775x1275
(WXDXH mm Outer)	895x845x 1660	895x845x1985	1045x845x1985	1045x 965x1985

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.023.01	SCT-POLAR-41	SCT-POLAR-41 ULTRA LOW DEEP FREEZERS-(-85°C) UPRIGHT is supplied complete with 7 days chart recorder, STS Drawer Shelf, Battery Back up system
SCT-107.023.02	SCT-POLAR-42	SCT-POLAR-42 ULTRA LOW DEEP FREEZERS-(-85°C) UPRIGHT is supplied complete with 7 days chart recorder, STS Drawer Shelf, Battery Back up system
SCT-107.023.03	SCT-POLAR-43	SCT-POLAR-43 ULTRA LOW DEEP FREEZERS-(-85°C) UPRIGHT is supplied complete with 7 days chart recorder, STS Drawer Shelf, Battery Back up system
SCT-107.023.04	SCT-POLAR-44	SCT-POLAR-4 ULTRA LOW DEEP FREEZERS-(-85°C) UPRIGHT is supplied complete with 7 days chart recorder, STS Drawer Shelf, Battery Back up system

OPTIONAL ACCESSORIES:

SCT-107.023.AA	7 days Chart Recorder
SCT-107.023.AB	Electromagnetic door Password locking system
SCT-107.023.AC	CO2 / LN2 Backup System

*Racks and other storage boxes and vials upon request

SCT - ULTRA LOW FREEZERS (-85°C) HORIZONTAL

SALIENT FEATURES:

- SCT POLAR 51 / 52 / 53 & 54 Horizontal ultra low deep freezers (-86°C) are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
Chest Type -85°C Deep Freezer Non-CFC high-density polyurethane Insulation thickness 145mm.
- The Unique Refrigeration technology with Non-CFC/HCFC natural refrigerant.
- Fast Cooling down to -85°C perfect contacted evaporator system.
- High quality stainless steel inner chamber with rounded corners for easy clean.
- Mechanical designed cabinet with perfect door seal and closure.
- Microprocessor PID digital controller with Audible & Visible Alarm system.
- Built-in access port for external data monitoring and supply.
- Complete sealing and closure mechanism for ultra low temperature.
 - Triple air tight Santoprene sealing gaskets made from Thermoplastics Elastomer.
 - The individual inner doors made from cold-free HOPE material.
 - Mechanically heated door frame seal keeps ice formation-free.
 - Advanced door latch system for perfect closing and easy opening.
- Non-CFC/HCFC Refrigeration System.
Natural refrigerant and hermetically sealed compressor are used for compliance with the New Environmental. Protection Regulation.
- Heavy-duty and user friendly designed chamber structure Heavy-duty caster with built-in adjustable stands for easy movement 145mm High density polyurethane foamed insulation maintain cool temperature Easy opening access door for electric and refrigeration compartments
- Height adjustable shelf is stainless steel or epoxy powder coated wire
- Automatic voltage regulation and Energy saving electric circuit system Efficient and durable electric parts and components, provides long life cycle, and minimize electric load leading to consumption of low energy and to protection
- Optional LN2 & CO2 back up System WHO - Compliance
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.024.01	SCT-107.024.02	SCT-107.024.03	SCT-107.024.04
MODEL NO.	SCT-POLAR-51	SCT-POLAR-52	SCT-POLAR-53	SCT-POLAR-54
Refrigeration Type	Cascade Refrigeration System / Chest Type			
Capacity	210 L	331 L	456 L	550 L
Refrigerator Non CFC	1 HPX2	1 HPX2	1 HPX2	1 HPX2
Controller	MICROPROCESSOR Digital PID Controller with battery back up system			
Temperature	-40°C TO -85°C			
Material Interior	Stainless steel 304			
Exterior	Epoxy Powder Coated EGI Steel			
Safety	High /Low Temp, Protector, ELCB, Thermal Protector			
Electric Supply	220 / 230v, 50/60 HZ			
Dimensions Inner	600x690x500	600x690x800	1100X 600x690	1400x600x690
(WDXH mm Outer)	890x900x1010	1088x889x1010	2040x890X 1050	2040X1040X1050

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.024.01	SCT-POLAR-51	SCT-POLAR-51 ULTRA LOW DEEP FREEZERS(-85°C) CHEST is supplied with complete instruction manual.
SCT-107.024.02	SCT-POLAR-52	SCT-POLAR-52 ULTRA LOW DEEP FREEZERS(-85°C) CHEST is supplied with complete instruction manual.
SCT-107.024.03	SCT-POLAR-53	SCT-POLAR-53 ULTRA LOW DEEP FREEZERS(-85°C) CHEST is supplied with complete instruction manual.
SCT-107.024.04	SCT-POLAR-54	SCT-POLAR-54 ULTRA LOW DEEP FREEZERS(-85°C) CHEST is supplied with complete instruction manual.

OPTIONAL ACCESSORIES:

PRODUCT NO.	DESCRIPTION
SCT-107.024.AA	7 days Chart Recorder
SCT-107.024.AB	Electromagnetic door Password locking system
SCT-107.024.AC	CO2 / LN2 Backup System

SCT-CRYO-STORE : MOVABLE COLD STORAGE CHAMBERS (-0 to 15 °C)

SALIENT FEATURES:

- SCT CRYO STORE-1 & 2 : MOVABLE COLD STORAGE CHAMBERS are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- SCT CRYO STORE-1 & 2 has digital Microprocessor based PID controllers with battery back-up. Due to these controllers the samples will be stored in a properly controlled environment.
- SCT CRYO STORE-1 & 2 operates and maintains between 0°C to 10°C with +/- 0.1°C accuracy, which adopts an unique air flow mechanism provides precise and uniform temperature throughout the cold chambers and optional (0 to 15°C) available
- SCT CRYO STORE-1 & 2 equipped with fully automatic defrost and auto evaporator systems.
- SCT CRYO STORE-1 & 2 has glass doors and a heating film is embedded on these doors for a proper extra insulation required many sensitive and valuable samples, reagents.
- SCT CRYO STORE-1 & 2 has complete quality stainless steel interiors and the exterior with epoxy powder coated steel.
- SCT CRYO STORE-1 & 2 available in two different capacities 682 & 1050 Liters, these movable cold stores are suitable for storing bulk containers, experimental instruments etc.
- SCT CRYO STORE -1 & 2 : for these models we can provide IQ & OQ validation informations manual which is mandatory for all the Pharmaceutical industries compliances. (It is an Optional, pls contact SCT for price / cost details).
- Conforms to the international standards & CE safety standards.
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.025.01	SCT-107.025.02
MODEL NO.	SCT-CRYO-STORE-1	SCT-CRYO-STORE-2
CAPACITY	682 L	1050 L
COMPRESSOR	3/4 HP X 2	1/2 HP X 2
AIR CIRCULATION FAN	95W FAN X 3 EACH	95W FAN X 4 EACH
SHELVES	3 EACH	6 EACH
Temperature Range	0°C TO 10°C / 0 to 15°C	
Accuracy	+/- 0.1°C	
Uniformity	+/- 1°C at 4°C	
Material Interior	Stainless steel	
Exterior	Epoxy powder coated EGI STEEL	
DEFROST	Auto Function Defrost System	
EVAPARATOR	Auto Function Defrost System	
SAFETY	High / Low Temp Protector, ELCB	
Electric Supply	110V, 60HZ OR 220V, 50/60 Hz	
Dimensions	Inner (WXDXH) mm	1500 x 840 x 1950
	Outer (WXDXH) mm	2220 x 1047 x 2332

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.025.01	SCT-CRYO-STORE-1	SCT- MOVABLE COLD STORAGE CHAMBERS supplied complete with instruction manual.
SCT-107.025.02	SCT-CRYO-STORE-2	SCT- MOVABLE COLD STORAGE CHAMBERS supplied complete with instruction manual.

SCT -VAPOR : LAB FUME HOODS / CABINETS

SALIENT FEATURES:

- SCT VAPOR 1/2/3 LABORATORY –GENERAL PURPOSE FUME HOODS / CABINETS are designed with creativeness to get the elegance and produced with proper quality and meets the specifications for the applications with high level performance.
- AIR LEAK CABINET STRUCTURE with high clean stainless steel interior work station and epoxy powder coated steel exterior for long durability
- TEMPERED SAFETY GLASS SLIDING DOOR for maintain high quality cleanliness and for clear view
- LOW NOISE LEVEL AND VIBRATION FREE
56-60 dB high efficiency Sirocco fan blower
- MICROPROCESSOR DIGITAL CONTROLLER
Air velocity and alarm system temperature monitor at working zone
INFLOW AIR VELOCITY CONTROL
Inflow velocity 0.5m/s
- TEMPERATURE MONITORING SYSTEM
digital temperature display at working zone
Customized structure available as optional order
Material Selection Guide
Work Top
- Synthetic ceramic work top as standard
- Stainless steel top 304 or 316 as optional
- Epoxy resin top, Heavy duty as optional
- Trespa phenolic work top as optional
- Sink
- PP or PVC Round type
- PP or Stainless steel Rectangular Type
- Exterior Structure



- Epoxy powder coated EGI
- 2. Hair-lined stainless steel 430 or 304 as optional
- Interior Structure
 - Hair-lined stainless steel 430 as standard
 - Hair-lined stainless steel 304 or 316 as optional
 - Trespa phenolic resin as optional
 - Epoxy powder coated EGI for economic models
- Exterior Color Selection for 2 tone
 - Main color maroon/brown
 - Front panel dark blue / red purple / all light grey
 - Base Stand dark blue / red purple with light grey
- centrifugal Sirocco Fan
- EG / steel fan with epoxy powder coated 2. Polypropylene fan or anti - acid
- Sash Glass
 - Tempered safety glass t : 5 mm
 - Tempered safety glass with laminated t : 6mm
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.

TECHNICAL SPECIFICATIONS:

PRODUCT NO.		SCT-107.026.01	SCT-107.026.02	SCT-107.026.03
MODEL NO.		SCT-VAPOR-1	SCT-VAPOR-2	SCT-VAPOR-3
Air Volume (Approx.)		1450 CMH (+/- 10%) 260W	2400 CMH (+/- 10%)	2400 CMH (+/- 10%)
Built-in Fan		260 W	400W	
Controller		Air velocity and monitoring, automatic air velocity control		
		Low air velocity visual & audible alarm, Clock and time, auto stop for door excess open		
Face Air Velocity		0.5 m/sec at Factory set		
Air Speed Control Range		0.3 - 1.0 m / sec		
Noise Level		56 - 60dBA		
Light with safety cover		Incandescent lamp x 1 EA		
Material	Interior	Stainless steel 304 Hair - lined		
	Exterior	Epoxy powder coated Electro Galvanized steel		
Sash Door		Tempered safety glass sliding door with stainless steel frame		
Utility Device		Water faucet, Air cock, Gas cock 2 Ports Power Receptacle 11 OV or 220V x 2EA		
Electric Supply		110V, 60Hz or 220V, 50/60 Hz		
Dimensions	Inner	1050 x 650 x 750	1350 x 650 x 750	1650 x 650 x 750
(Wx D x H mm)	Outer	1200 x 750 x 2250	1500 x 750 x 2250	1800 x 750 x 2250

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.026.01	SCT-VAPOR-1	SCT - VAPOR-1 LAB FUME HOODS / CABINETS 1200 mm is supplied complete with instruction manual.
SCT-107.026.02	SCT-VAPOR-2	SCT - VAPOR-2 LAB FUME HOODS / CABINETS 1500 mm is supplied complete with instruction manual.
SCT-107.026.03	SCT-VAPOR-3	SCT - VAPOR-3 LAB FUME HOODS / CABINETS 1800 mm is supplied complete with instruction manual.

*Please refer chapter-9 for chemicals, solvents storage cabinets

SCT HEPA : LAMINAR FLOW CABINETS / BENCHES (VERTICAL)

SALIENT FEATURES:

- SCT-HEPA 1/2/3/4 LAMINAR FLOW CABINETS / BENCHES VERTICAL TYPE are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- ISO 14644-1, ISO Class 5 (Class 100) Standards Compliance
- HEPA filter removes 99.99% of 0.3, mm particles
- Easy to Replace Filter from the Back Panel with maintenance free design and structure
- Laminar Air flow and Uniform air velocity provide high clean filter air for high performance
- Built-In Lamps and Utilities
- UV and fluorescent lamp, air and gas cock, power consent are built as standard
- One Piece Cabinet Structure
- no required separate stand, easy to move, free from the loading
- Air Leak Proof Cabinet Structure with high clean stainless steel interior work station and epoxy powder coated steel exterior for long durability
- Tempered Safety Glass Sliding Door for maintain high quality cleanliness and for protection from UV exposure
- Low Noise Level and Vibration free
- 56-60 dB high efficiency fan blower
- Microprocessor Digital Controller with LCD back light display
- Filter Replacement Warning Signal by Pressure gauge & Controller display
- Built-in Mesh guard for HEPA Filter protection
- One touch open front panel for easy maintenance
- UV Sterilization with on/off working timer
- Option: ULPA Filter 99.999% of 0.3 um particle remove
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.		SCT-107.027.01	SCT-107.027.02	SCT-107.027.03	SCT-107.027.04
MODEL NO.		SCT-HEPA-1	SCT-HEPA-2	SCT-HEPA-3	SCT-HEPA-4
Vertical Air Flow Type					
Air Volume		980 m2/h	1350 m2/h	1700 m2/h	2030 m2/h
Controller		9 stage velocity control, Total using timer, UV/FL Lamp on/off			
HEPA Filter		Class 100, purity 0.3 m, Particle Removal			
Prefilter		3~30 m Particle Removal			
Air flow velocity		0.3 ~ 0.6 m/sec			
Noise Level Light		56 ~ 60 dBA			
Material	Interior	Stainless Steel 304			
	Exterior	Epoxy Powder Coated Electro Galvanized Steel			
Door		Tempered Safety Glass Sliding Door			
Utility Device		Air cock, Gas Cock, 110/220V Consent			
Electric Supply		110v, 60Hz or 220V, 50/60 Hz			
Dimension (W x D x H mm)	Inner	890x550x650	1190x550x650	1490x550x650	1790x550x650
	Outer	1050x800x1880	1350x800x1880	1650x800x1880	1950x800x1880

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.027.01	SCT-HEPA-1	SCT-HEPA-1 LAMINAR FLOW CABINETS / BENCHES (VERTICAL) 1050 mm width supplied complete with instruction manual.
SCT-107.027.02	SCT-HEPA-2	SCT-HEPA-2 LAMINAR FLOW CABINETS / BENCHES (VERTICAL) 1350 mm width supplied complete with instruction manual.
SCT-107.027.03	SCT-HEPA-3	SCT-HEPA-3 LAMINAR FLOW CABINETS / BENCHES (VERTICAL) 1650 mm width supplied complete with instruction manual.
SCT-107.027.04	SCT-HEPA-4	SCT-HEPA-4 LAMINAR FLOW CABINETS / BENCHES (VERTICAL) 1950 mm width supplied complete with instruction manual.

SCT HEPA : LAMINAR FLOW CABINETS / BENCHES (HORIZONTAL)

SALIENT FEATURES:

- SCT - HEPA 11/12/13/14 LAMINAR FLOW CABINETS / BENCHES HORIZONTAL TYPE are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- ISO 14644-1, ISO Class 5 (Class 100) Standards Compliance
- HEPA filter removes 99.99% of 0.3, mm particles
- Easy to Replace Filter from the Back Panel with maintenance free design and structure
- Laminar Air flow and Uniform air velocity provide high clean filter air for high performance
- Built-In Lamps and Utilities
- UV and fluorescent lamp, air and gas cock, power consent are built as standard
- One Piece Cabinet Structure
- no required separate stand, easy to move, free from the loading
- Air Leak Proof Cabinet Structure with high clean stainless steel interior work station and epoxy powder coated steel exterior for long durability
- Tempered Safety Glass Sliding Door for maintain high quality cleanliness and for protection from UV exposure
- Low Noise Level and Vibration free
- 56-60 dB high efficiency fan blower
- Microprocessor Digital Controller with LCD back light display
- Filter Replacement Warning Signal by Pressure gauge & Controller display
- Built-in Mesh guard for HEPA Filter protection
- One touch open front panel for easy maintenance
- UV Sterilization with on/off working timer
- Option: ULPA Filter 99.999% of 0.3 mm particle remove
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.		SCT-107.027.11	SCT-107.027.12	SCT-107.027.13	SCT-107.027.14
MODEL NO.		SCT-HEPA-11	SCT-HEPA-12	SCT-HEPA-13	SCT-HEPA-14
Horizontal Air Flow Type					
Air Volume		980 m2/h	1350 m2/h	1700 m2/h	2030 m2/h
Controller		9 stage velocity control, Total using timer, UV/FL Lamp on/off			
HEPA Filter		Class 100, purity 0.3 m, Particle Removal			
Prefilter		3~30 m Particle Removal			
Air flow velocity		0.3 ~ 0.6 m/sec			
Noise Level Light		56 ~ 60 dBA			
Material	Interior	Stainless Steel 304			
	Exterior	Epoxy Powder Coated Electro Galvanized Steel			
Door		Tempered Safety Glass Sliding Door			
Utility Device		Air cock, Gas Cock, 110/220V Consent			
Electric Supply		110v, 60Hz or 220V, 50/60 Hz			
Dimension (W x D x H mm)	Inner	890x550x650	1190x550x650	1490x550x650	1790x550x650
	Outer	1050x800x1880	1350x800x1880	1650x800x1880	1950x800x1880

ORDERING INFORMATIONS:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.027.11	SCT-HEPA-11	SCT-HEPA-11 LAMINAR FLOW CABINETS / BENCHES (HORIZONTAL) 1050 width is supplied complete with instruction manual.
SCT-107.027.12	SCT-HEPA-12	SCT-HEPA-12 LAMINAR FLOW CABINETS / BENCHES (HORIZONTAL) 1350 width is supplied complete with instruction manual.
SCT-107.027.13	SCT-HEPA-13	SCT-HEPA-13 LAMINAR FLOW CABINETS / BENCHES (HORIZONTAL) 1650 width is supplied complete with instruction manual.
SCT-107.027.14	SCT-HEPA-14	SCT-HEPA-14 LAMINAR FLOW CABINETS / BENCHES (HORIZONTAL) 1950 width is supplied complete with instruction manual.

SCT PROTECT : BIO-HAZARD SAFETY CABINETS –CLASS II TYPE A2

SALIENT FEATURES:

- SCT PROTECT-1/2/3/4 are designed with creativeness to get the elegance and produced with proper quality, and meets the specifications for the applications with high level performance.
- ISO 14644-1, ISO Class 5 (Class 100) Standards Compliance
- HEPA filter removes 99.99% of 0.3, um (micro meter) particles
Easy to Replace Filter from the Back Panel with maintenance free design and structure
- Laminar Air flow and Uniform air velocity provide high clean filter air for high performance
Built-In Lamps and Utilities
- UV and fluorescent lamp, air and gas cock, power consent are built as standard
Air Leak Proof Cabinet Structure with high clean stainless steel interior work station and epoxy powder coated steel exterior for long durability
- Tempered Safety Glass Sliding Door for maintain high quality cleanliness and for protection from UV exposure
- Low Noise Level and Vibration free
56-60 dB high efficiency fan blower
- Microprocessor Digital Controller with LCD back light display
Air Velocity Control & Alarm System
- Temperature monitor air working zone
- Easy to replace HEPA Filter in front panel
Built-in Mesh guard for HEPA Filter production
- Removable Working Tray easy to clean and disinfection for working zone
One touch open front panel or easy maintenance
- Maximum Door Opening alarm to protect air flow performance and safety.
UV Sterilization with on/off working timer
- Conforms to the international standards & CE safety standards
- Manufactured under ISO 9001 : 2008 Quality Standards.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.		SCT-107.028.01	SCT-107.028.02	SCT-107.028.03	SCT-107.028.04
MODEL NO.		SCT-PROTECT-1	SCT-PROTECT-2	SCT-PROTECT-3	SCT-PROTECT-4
Air Volume (Approx.)		980 m ² /h	1350 m ² /h	1700 m ² /h	2030 m ² /h
Microprocessor		Air Velocity and Temperature monitoring, Automatic Air Velocity control			
Digitla LCD		Low Air Velocity visual & audible Alarm, Filter using & change time Alarm			
Control		Clock and Timer, Auto stop for door excess open			
HEPA Filter		Class 100, purity 0.3 m Particle Removal 99.99%			
Air Flow Velocity	Down Flow	0.3 ~ 0.36 m/sec			
	In Flow	> 0.5 m/sec			
Noise Level		56 ~ 60 dBA			
Light		UV 20W x 1 EA, FL 20W x 1EA		UV 40 W x 1EA, FL 40W x 1EA	
Material	Interior	Stainless Steel 304			
	Exterior	Epoxy Powder Coated Electro Galvanized Steel			
Door		Tempered Safety Glass Sliding Door			
Utility Device		Air Cock, Gas Cock, 110/220V Consent			
Elelctric Supply		110V, 60Hz or 220V 50/60 Hz			
Dimension	Inner	890x600x635	1190x600x635	1490x600x635	1790x800x635
(W x D x H mm)	Outer	1050x800x1880	1350x800x1880	1650x800x1880	1950x800x1880

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.028.01	SCT-PROTECT-1	SCT-PROTECT-1 BIO HAZARD SAFETY CABINETS –CLASS II TYPE A2 1050 mm width is supplied complete with instruction manual.
SCT-107.028.02	SCT-PROTECT-2	SCT-PROTECT-2 BIO HAZARD SAFETY CABINETS –CLASS II TYPE A2 1350 mm width is supplied complete with instruction manual.
SCT-107.028.03	SCT-PROTECT-3	SCT-PROTECT-3 BIO HAZARD SAFETY CABINETS –CLASS II TYPE A2 1650 mm width is supplied complete with instruction manual.
SCT-107.028.04	SCT-PROTECT-4	SCT-PROTECT-4 BIO HAZARD SAFETY CABINETS –CLASS II TYPE A2 1950 mm width is supplied complete with instruction manual.

* Other Type and models upon request

SCT CLEAN-WALK AUTOMATIC SHOE COVER MACHINE

SALIENT FEATURES:

- SCT CLEAN-WALK Automatic shoe cover machine is pleasantly designed with a great look.
- SCT CLEAN-WALK Automatic shoe cover machine is made for clean walk facilities ,where all you need dust free walk.
- SCT CLEAN-WALK Automatic shoe cover machine can accomdate different sizes of shoes.
- SCT CLEAN-WALK Automatic shoe cover machine seals / covers the shoes automatically, no need to put any buttons.No need to bend ,works with user friendly principle.
- SCT CLEAN-WALK Automatic shoe cover machine cover only the lower part of the shoes and give a nice look while wearing the shoe cover.
- SCT CLEAN-WALK Automatic shoe cover machine is a portable machine can be shifted easily any where.
- SCT CLEAN-WALK Automatic shoe cover machine is suitable for any clean dust free environment especially High sensitive Labs ,
- SCT CLEAN-WALK Automatic shoe cover machine make the shoe cover or seals in 3- 5 seconds.
- SCT CLEAN-WALK Automatic shoe cover machine has very long Life times.



TECHNICAL SPECIFICATIONS:

PRODUCT NO.	SCT-107.030.30
MODEL NO.	SCT-CLEAN WALK
Loading Capacity of shoe cover	1000pcs / Batch/roll
Life Time	300,000 times
Material	ABS- Outer Case
Preheating Time	≈120s
Film-delivering Time	3-5s
Film Shaping Time	2-3s
Operating Voltage	230±5%V
Maximum Power	1300W
Standby Power	75W
Dimension of Machine	80 x 44.5 x 33 cm

Dimension of Carton	87 x 50 x 40 cm
Net Weight	24kg
Gross Weight	27kg

ORDERING INFORMATION:

PRODUCT NO.	MODEL NO.	DESCRIPTION
SCT-107.030.30	SCT-CLEAN WALK	SCT-CLEAN WALK Automatic Foot / Shoe sealing Machine is supplied with one roll of PVC Thermo shrinkable Film Roll & a Proper user manual.

CONSUMABLES: (To be ordered Separately)

PRODUCT NO.	DESCRIPTION
SCT-107.030.30 AA	SCT-Thermo shrinkable PVC FILM ROLL 32X32X28 CM

NOTES :

We at ScichemTech would like to thank our customers for sparing your valuable time in reading and using our Chapter 7, We hope we have listed most of the products you would be using or looking for.

We assure you that, our R&D will be thinking ahead always and working to bring you something useful and unique, we will be keep discovering and making the products. In case, should you require any additional informations or clarifications, please contact us anytime us at sales@scichemtech.com, we are sure you will enjoy our next chapter SCT-TEST & MEASUREMENT, PROCESS PRODUCTS.

* Manufacturer has the rights to change (or) modify the specifications without prior notice for quality improvement.