

HUMIDITY INCUBATOR

CONSTRUCTION

Double walled, inner made of Stainless Steel, SS 304 grade. Outer made of Stainless Steel, SS 304 grade. Properly insulated. Inner chamber is provided with perforated stainless steel shelves. Provided with double walled door, which is metallic properly insulated and also provided with best quality handle, magnetic gasket, lock etc. Whole unit is mounted on castor wheels. Provided with 4 SS trays. Provided with aspirator.

TEMPERATURE

Temp range is from 5°C to 50°C and is controlled by Microprocessor based Digital Temperature Controller cum indicator. This controller is provided with time delay relay to control the accuracy in maintaining the temperature. Temp. is maintained with an accuracy of +/- 1.0°C. LCD display.

COOLING

Cooling is done with ISI Mark compressor of KIRLOSKAR make which is connected to thick copper coils placed in the rear of the chamber through condenser, fan motor, capacitor, relay etc. The refrigerant used is CFC free co-friendly & monitoring system.

HUMIDITY RANGE

Humidity ambient to 90% RH (Adjustable) and is controlled by Digital Controller with an accuracy of +3% RH. Humidity is generated through a S. Steel reservoir placed in the bottom of the main chamber and is generated through Imported Mist Generator.

HEATING

Heating is done with ISI mark strip type heaters.

AIR CIRCULATION

Air is circulated by 2-nos. ISI mark Silicon binded motors, which are connected to balanced blowers, which operates alternatively and continuously with heating and cooling. Air velocity and clean air normal.

ILLUMINATION

Illumination is done with the help of fluorescent and halogen/par lamps. Provided with light meter to display and record light output, Audio visual alarm for temperature, humidity variation, power failure and door open. Floor drain to remove excess water.

SIZE OF INNER CHAMBER

1.5mtr. x 1.5 mtr. X 0.8 mtr.

2' x 2' x 2'

3' x 3' x 3', 3' X 3.5' X 4' OR various other sizes as per requirement

OPTIONAL : Alarm, Data recorder, Stabilizer, UPS etc



An ISO 9001:2015 CERTIFIED CO.

SANDEEP INSTRUMENTS & CHEMICALS



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INCUBATOR SHAKER

CONSTRUCTION

Double walled, inner made of stainless steel, outer made of thick best quality Mild Steel duly powder coated painted. Insulation between inner and outer wall is done with thick glass wool to prevent any heat loss. Door is made of thick transparent double walled glass with best quality hinges handle etc. Whole unit is mounted on castor wheels.

TEMPERATURE

Temperature range is from +5°C to 60°C, uniformity of 0.2°C and digital belting by 0.1°C with a LED Digital readout by 0.1°C and is controlled by Microprocessor based Digital temperature Indicator Cum Controller with PT-100 sensor. This controller is provided with time delay relay to control the accuracy in maintaining the temp. Temp. is maintained with an accuracy of + 0.5°C.

COOLING

Cooling is done with ISI Mark compressor of KIRLOSKAR make which is connected to thick copper coils through condenser, fan motor, capacitor, relay etc. Whole cooling unit is placed below the main chamber in a G.I. housing.

HEATING

Heating is done with ISI mark strip type heaters placed near the cooling coils.

AIR CIRCULATION

Air is circulated by ISI mark Silicon wined motors which are connected to balanced blowers which operates alternatively and continuously with heating and cooling.

INTERIOR ILLUMINATION & TIMER

Interior Illumination is done with the help of 1 No. Fluorescent tubes and regulated by automatic 0-24 hours timer.

CONTROL PANEL

Provided with On/Off switch, Indicators, Digital Controllers, tachometer etc.

SHAKING

Shaking is done with 0.25 H.P. motor (brushless induction) step less electronic frequency control with shaking speed of 20-250 rpm, controlled by digital speed indicator cum controller
Shaking frequency => 20-250 rpm., Shaking Motion => Orbital / Gyrotary.,
Shaking deviation => +1% of the speed., Diameter of Orbital Motion = 25mm.,
Digital Indicator. Tray Size => 400x400mm. Drive => DC Motor, Power => 230V, 5 A single.
Provided With universal S. Steel platform to accommodate clamps of different size of flask



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PLANT GROWTH CHAMBER

CONSTRUCTION

Double Walled, inner made of Stainless Steel, outer made of thick best quality mild steel / CRC duly epoxy powder painted, properly insulated with PUFF to prevent any heat loss. Provided with full view glass door for inspection of material in the chamber. Provided with 4- 6 nos. perforated stainless steel trays. Inner full view transparent glass door and outer double walled, metallic door with best quality handle gasket lock etc. Whole unit is mounted on castor wheels for easy mobility. With door operated illumination lamp.

TEMPERATURE

Temp range is from 4°C to 60°C and is controlled by Microprocessor based Digital Temperature Controller. This controller is provided with time delay relay to control the accuracy in maintaining the temperature. Temp. is maintained with an accuracy of +/- 0.5C. 3 settable programmable controller with 10 sections each. LCD Display.

COOLING

Cooling is done with ISI Mark compressor of KIRLOSKAR make which is connected to thick copper coils placed in the rear of the chamber through condenser, fan motor, capacitor, relay etc. The refrigerant used is CFC free eco-friendly.

HUMIDITY RANGE

Humidity ambient to 95% RH (Adjustable) and is controlled by Digital Controller with an accuracy of +3% RH. Humidity is generated through a S. Steel reservoir placed in the bottom of the main chamber and is generated through Imported Mist Generator.

HEATING

Heating is done with ISI mark strip type heaters placed near the cooling coils.

AIR CIRCULATION

Air is circulated by 2-nos. ISI mark Silicon binded motors, which are connected to balanced blowers, which operates alternatively and continuously with heating and cooling. Air velocity and clean air normal.

ILLUMINATION

Illumination is done with the help of fluorescent tubes and PAR Lamps. Provided with Photoperiodic System Works on 220 – 240 Volts AC. Single phase 50 Hz.

SIZE OF INNER CHAMBER

1.5mtr. x 1.5 mtr. X 0.8 mtr. 2' x 2' x 2'

3' x 3' x 3' OR various other sizes as per requirement

OPTIONAL : Alarm, Data recorder, Voltage Stabilizer etc



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HYBRIDIZATION OVEN / SHAKER

CONSTRUCTION

Double walled Inside chamber made of Stainless Steel, outer made of M.S. Sheet duly powder coated. Temperature Range ambient to 80°C with increment of 0.1°C controlled by digital temperature controller with an accuracy of + 0.5°C. Provided with Air circulation fan to ensures temperature uniformity Rotor can. Provided with glass window in the door to inspect the chamber. Rotation upto 15 rpm. Works on 20/230 Volts AC

ACCESSORIES

Additional carrier to hold bottles
Hybridization bottle to cost extra



FREEZERS/SHAKERS/PACKAGING MACHINE / DEHUMIDIFIER

CONSTRUCTION

Double walled Inside chamber made of Stainless Steel, outer made of M.S. Sheet duly powder coated. Temperature Range ambient to 80°C with increment of 0.1°C controlled by digital temperature controller with an accuracy of + 0.5°C. Provided with Air circulation fan to ensures temperature uniformity Rotor can. Provided with glass window in the door to inspect the chamber. Rotation upto 15 rpm. Works on 20/230 Volts AC



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WATER BATH

Double walled, Outer body is made of thick mild steel sheet duly powder coated painted and inner chamber is made up of 304 grade Stainless Steel. Lid is made of stainless steel. Whole unit is mounted on a sturdy angle iron frame The cooling coils are brazed to the outer side of chamber thus ensuring perfect and uniform cooling. Insulation is done with thick glass wool to prevent any heat loss. For attaining the temp. below ambient, the refrigeration is done through CFC FREE hermetically sealed compressor and & for attaining the temp. above ambient, heating is done with immersion type heating element . Fitted with stirrer for temperature uniformity throughout the chamber. Temperature range is from 5°C to 100°C is controlled by Digital Temperature indicator cum controller with an accuracy of $\pm 0.1^\circ\text{C}$ with PT Sensor 100. To work on 220/230 volts AC supply. The unit is also fitted with a FHP PUMP for circulating the cooled liquid to an external source such as condenser coils, etc. Provided with timer 0 – 120 minutes

CAPACITY : SIZES AS PER REQUIREMENT.

OPTIONAL : SHAKING SYSTEM, ALARM, MICROPROCESSOR CONTROLLER.

Double walled, inner made of stainless steel, outer made of Mild steel duly powder coated painted, insulation with thick glass wool to prevent any heat loss. Lid made of thick stainless steel in gable type shape. Temperature from ambient (room temperature) to 100°C with an accuracy of $\pm 0.5^\circ\text{C}$ controlled by digital temperature indicator cum controller, works on 220-250V and 15 Amp. Provided with stirrer with stainless steel shaft and blade and electronic speed control. Water circulation by Motor pump tullu type. Motorized system to remove complete filled water. Whole body is mounted on castor wheels for easy mobility

CAPACITY : SIZES AS PER REQUIREMENT.

OPTIONAL : SHAKING SYSTEM, ALARM, MICROPROCESSOR CONTROLLER.



WATER BATH SHAKER

A constant temperature as well as uniform shaking bath for a wide varieties of applications. Double walled inside made of Stainless Steel and outer made of Mild Steel duly enamel painted. The bath has an oscillating tray riding on ball roller and oscillated by a conveyor controlled variable speed Motor. Shaking speed Range is 40 to 140 cycles per minute. Temperature is controlled by a thermostat from room temperature to 100°C with accuracy of 1°C . Provided with digital temperature indicator cum controller with an accuracy of $\pm 1^\circ\text{C}$. Control Panel has individual switch for heater, knob for thermostat setting, control of shaking speed, two pilot lights, etc. The bath has connecting cord, plug, etc. But without racks glassware. Workable on 220V, 50 Hz AC.

275 mm x 275 mm x 150 mm

405 mm x 300 mm x 150 mm

Note : Sizes can be changed as per requirement



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GEL SHAKING SYSTEM

A metal platform with non slip rubber mat moves in a gentle see saw motion. The movement is controlled precisely with DC motor. Cushion and rubber feet prevents unit from slipping.

Provided with 0-120 minutes timer. Platform Size : 33 x 35 x 21Cm.

Platform covering rubber mat.

Speed range from 3 to 60 RPM.

Input Voltage : 230 volts, +/- 10%, 50 Hz. Single Phase.



OVEN/DEHYDRATION MACHINE

CONSTRUCTION

Double walled, inner made of thick stainless steel, outer made of heavy duty M. Steel duly powder coated paint . Insulation between inner and outer wall is done with 75mm thick glass wool to prevent any heat loss. Provided with double walled door with inner made of thick stainless steel. Door is provided with best quality handle with spring ball type latch, brass duly chromed hinges and gasket for perfect sealing etc. Inner chamber is provided with 3-10 nos. stainless steel wire mesh shelves.

TEMPERATURE RANGE

Temp. range from ambient +5C to 250C with an accuracy of +2C and is controlled by microprocessor based digital temperature controller cum indicator with PID. LED display.

HEATING

Heating is done with ISI mark heating elements made from ni-chrome heating wire duly chromed placed in porcelein cups in bottom as well as in sides to maintain the uniformity of the temp.

AIR CIRCULATING FAN

Air circulating fan to maintain the uniformity of the temp. throughout the chamber.

Works on 220/230V 50HZ single phase A.C. Supplied with 1 KVA stabilizer.

Size : 300 X 300 X 300 mm

Size : 355 X 355 X 355 mm

Size : 455 X 455 X 455 mm

Size : 455 X 455 X 605 mm

Size : 605 X 605 X 605 mm

Size : 605 X 455 X 910 mm

Size : 600 X 600 X 900 mm

..... OR AS PER REQUIREMENT.



OPTIONAL

Triple Walled Outer Body S.S. instead of M.S. Temperature range upto 350C Stabilizer.



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AMLA SHREDDER

Automatic machine.
Material used SS 304. Power- 1HP 3Ø motor.
Easy handling and cleaning system.
Finely polished and tested job.
For processing both small and big size.
Aonla shredding done without seed cracking.
Mounted on stand. Electrical motor operated.
Capacity- 30 to 100 Kgs.



DEEP FREEZER -20°C

SPECIFICATION

Imported under the Brand Name VESTFROST

VERTICAL TYPE

TEMP. UPTO -20°C
Built in condenser gives low energy consumption.
No Dust Low Noise.
Combination of pull out drawers and fast freeze shelves.
Control panel at the top of cabinet with thermometer or temperature warning light.
Single Door
Thermostat
Fast freeze button and lamp.
Mains warning lamp.
CFC free heavy duty compressor.
Provided with total 8 shelves.
Lock Facility
Provided with two nos. rear wheels
Gross Capacity : 345 Ltrs.
Net Capacity : 308 ltrs.
Hours from -18 to -9 : 18 Hrs.

OPTIONAL

- Digital Temperature Controller & Display
- Voltage Stabilizer



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SEED - DRYER

CONSTRUCTION

Double walled construction. The inside chamber is made of stainless steel, and the outer of Mild Steel with primer coated for anti rusting and duly enamel painted. Insulation between inner and outer chamber is done with 75mm thick glass wool to prevent any heat loss. The tray positions are adjustable inside the chamber and total 3 Nos.. Door is also double walled metallic, properly insulated and is provided with best quality gasket, handle lock etc. Easily replaceable tubular heaters in the side. These heaters are made from imported kanthal heating wires. Motorized blower for Air circulation inside the chamber is provided. This blower helps in maintaining the uniformity in the temperature.



TEMPERATURE

Temperature is from ambient to 70°C and is controlled by Digital temperature Indicator cum controller for controlling the set temperature within the accuracy of 1°C. This digital temperature controller is provided with unique facility of time delay relay, which helps in maintaining the uniformity in the temperature. Seed dryer for the drying of small lots/ test sample of all kinds of cereal seeds, forest seed, oil seed, pulses etc.

SPECIFICATION

Inside Chamber Size : 120cm x 90cm x 90 cm (approx,)
No. of Trays : 3 adjustable
Size of Tray : 90 x 89 x 5 cm Deep (approx.)
Blower Motor : 1/2 H.P.
Operating Voltage : 220V AC +10% 50 Hz.



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SEED - DRYER

CONSTRUCTION

Double walled construction with inner chamber made of Stainless Steel and outer body made of MS with epoxy finish, Gap in between the walls is filled with good quality glass wool for proper insulation to avoid heat loss. Air ventilators on upper part of the sides. Door with double glass fitted, heavy hinge. Inner chamber is provided with trays. Ribs are provided at various height to adjust the shelves as per convenience.

TEMPERATURE

Temperatures range ambient to 70°C with an accuracy of + 0.1C controlled by Digital temperature indicator cum controller. Minimal Temperature variation. Operation through controller,



HEATING ELEMENT

High-grade wire covered with suitable material should be provided at the bottom and on sides.

BLOWER & AIR CIRCULATION FAN

Air movement by motorized blower giving perfect incubation system. The circulating fan will be fitted in the ducts.

POWER

Works on 220/230V 50HZ single phase A.C.
Complete with cord 2 Mtrs long and suitable plug.



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FOOD PROCESSING EQUIPMENTS

SCREW TYPE JUICE EXTRACTOR

Made of aluminum and one sieve of stainless steel Equipped with 1/2 HP motor
Capacity 250-300 Oranges/hr.
Capacity 500 Oranges/hr. with 1 H.P. Motor



VACUUM PACKAGING MACHINE

Perishable food, meat products, dehydrated vegetables and fruits, tea, spices, dry fruits, pickles fresh tea leaves, prepared dishes and also for articles where oxidation creates pitting and deterioration. Stainless steel compartment, Transparent lid for observation, High capacity vacuum pump, Provision for measurement & control of vacuum, Electronic control systems, Chamber size (L x W x H) 320mm x 340mm x 80mm, Seal Length 300mm, Vacuum pump capacity (m³ / hr): 30, electrically operated motor



OPTIONAL

Inert Gas- Flushing arrangements.(Without cylinder)

SUGARCANE PRESSER 3 ROLLER

Imported model, All Contract parts of Food grade material, Electrically Operated



PLENTRY MIXER

Imported model,
All Contract parts of Food grade material
Capacity : 5 Ltrs.
Capacity : 10 Ltrs.
Capacity : 20 Ltrs



GRINDER/PULVERIZER

All Contract parts of Food grade /Stainless Steel material, 2HP Motor, 8" Dia with sieves Cap : 30-40 Kg



MEAT MINCER

Motorized complete S.S.,Robust, high performance, die casting aluminium body, stainless steel casing, easy to clean, high powered motor
Capacity 100 Kg. / Hr.
Capacity 150 Kg. / Hr.



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FOOD PROCESSING EQUIPMENTS

SHREDDER

Corrosion resistant, rigid construction, easy to maintain and clean, Equipped with ½ HP motor & provided with different attachment with 304 quality stainless steel blade, cutting, dicing, mincing, slicing, Chopping and shredding of different hard vegetables into cubes, slices, dices. Different attachments made of stainless steel. Used of slicing of various fruits and vegetables. **Capacity : 5-50 Kg/hr.**



FRUIT / VEGETABLE CRUSHER

It is used for crushing stone less fruits & vegetable like citrus/ pineapple etc. before pulping / juice extraction. Mounted on a Stainless Steel Stand, with 1 HP Motor & starter. Provided with stainless steel hooper with stationery blades. All contact parts made of stainless steel (AISI 304) Capacity 0.5 TON. per hour with 1 HP Motor ISI Mark branded. The product is fed into the hooper manually and the products gets crushed by SS rotor 304 which crushes it against SS 304 blades. Crushing head size 6"



GRINDER/PULVERIZER

All Contract parts of Food grade /Stainless Steel material, Motor, 8"-10 Dia with sieves. **Capacity : 10-60 Kg**



MUFFLE FURNANCE

Useful for hardening, annealing, reheating etc., Outer made of double walled thick PCRC Sheet duly powder coated painted insulation with high temperature ceramic fiber wool. Heating elements made of Kanthal wire in coil form wrapped on the muffle, embedded in high grade refractory cement and backed by HIGH DENSITY CERAMIC FIBRE BLANKET, which avoids loss of heat. The temperature is controlled by digital temperature indicator cum controller. the maximum temperature is 1400°C and the working temperature is 1200°C.



Size (WxHxD)

- (a) 100x100x225 mm
- (b) 125x125x250 mm
- (c) 150x150x300 mm
- (d) 200x200x300 mm
- (e) 150x150x450 mm..... or as required



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MUFFLE FURNANCE (INDUSTRIAL GROOVED TYPE)

Do— SAME AS ABOVE but chamber made of grooved refractory, the maximum temperature is 105°C and the working temperature is 1000°C

Size (W x H x D)

- (a) 125x125x300 mm
- (b) 150x150x300 mm
- (c) 200x200x300 mm
- (d) 300x300x300 mm

SHAKER (RECIPROCATING TYPE)

Complete with carrier for flasks, test tube racks, bottles, etc. Speed is unaffected by normal line voltage fluctuation or leading with specified limit 0.25 H.P. Motor with covered body with variable speed controller 70 to 300 strokes per minute, 50 cycles. Provided with digital display of shaking. Works on 220V 50HZ single phase A.C.

Sizes : As per the Requirement.

OPTIONAL : Timer



SHAKER (RECIPROCATING TYPE)

It is a very light and precise machine and is very useful for laboratory tests. When used as a grader the top screen is used for scalping and the bottom for grading. By changing the screen size the same machine can be used as Paddy, Maize, Arhar, Urd, Wheat, Mustard, Gram etc. Provided with 10 nos. screens (For Paddy, Maize, Arhar, Urd, Wheat, Mustard, Gram etc.) and 2 nos. screen. Provided with 1/2 H. P. single phase motor and can be operated manually.

Size : 80 x 54 x 75cm. (approx.)

Capacity : 25-40 Kgs.

Operating Voltage : 220V, 50 Hz., A. C.

Screen Area : 38 x 25.4cm. (approx.)



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RICE POLISHER

In this machine hand full grains can be tested and polished in a short time. It is provided with single phase motor with grinding wheels for polishing the grain and is provided with sieve for removal of bran. With timer. works on 220V, 50hz AC



RICE SHELLER

Used for easy husking of paddy, either in the laboratory or in the rice mill. Husked rice the husk and the immature paddy are automatically separated by an aspirator. With detachable husk collector. Large hooper. With safety measure by stone damage at the time of shelling. Single phase built in motor. Capacity .on paddy 30-40 Kg./hr. Size of rubber roller 35x100mm (width x area)



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ORBITAL INCUBATOR SHAKER

CONSTRUCTION

Double walled, inner made of stainless steel, outer made of thick best quality Mild Steel duly powder coated painted. Insulation between inner and outer wall is done with thick glass wool to prevent any heat loss. Door is made of thick transparent double walled glass with best quality hinges handle etc.

TEMPERATURE

Temp. range from 5°C to 70°C, uniformity of 0.5°C and digital belting of 0.1°C with a LED Digital readout by 0.1°C and is controlled by Microprocessor based PID temperature Indicator Cum Controller with PT-100 sensor. This controller is provided with time delay relay to control the accuracy in maintaining the temperature. Temp. is maintained with an accuracy/stability of $\pm 0.5^\circ\text{C}$. LED display screen for indication and controller for speed and running time. Cooling is done with ISI marked hermetically sealed compressor with eco friendly refrigerant. LED display of set and actual values of temperature and speed.



COOLING

Cooling is done with ISI Mark compressor of KIRLOSKAR make which is connected to thick copper coils through condenser, fan motor, capacitor, relay etc. CFC free, Eco friendly refrigerant

HEATING

Heating is done with ISI mark strip type heaters placed near the cooling coils.

AIR CIRCULATION

Air is circulated by ISI mark Silicon winded motors which are connected to balanced blowers which operates alternatively and continuously with heating and cooling.

INTERIOR ILLUMINATION & TIMER

Interior Illumination is done with the help of 1 No. Fluorescent tubes regulated by automatic 0-24 hours timer.

SHAKING

Shaking is done with 0.25 H.P. motor (brushless induction) step less electronic frequency control with shaking speed of 20-250 rpm, controlled by digital speed indicator cum controller. Shaking frequency \Rightarrow 20-250 rpm., Shaking Motion \Rightarrow Orbital., Shaking deviation \Rightarrow +1% of the speed., Diameter of Orbital Motion = 20mm., Digital Indicator. Timer 99.9hrs or continuous. Drive \Rightarrow DC Motor, Power \Rightarrow 230V, 5 A single. Provided With universal S. Steel platform to accommodate clamps of different size of flask. Cap : Up to 15 X 1000 ml. Microplate rack & test tube rack option.



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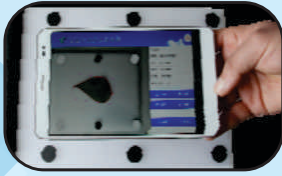
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LEAF AREA METER (DIGITAL)

SAN - YMJ-C



The system of intelligent leaf area meter consists of a backlight apparatus and a tablet computer embedded application software (android). It is used for measuring leaf area and other values.
System: Android4.2.2 above
Size: 7inch full-color touch-screen
Rear camera: 800million
Resolution: 1920*1200

LEAF AREA METER (PORTABLE)

Measuring range : leaf area, average area, length of leaf, leaf width.
Measuring unit : Millimeter and Square centimeter
Length < 1000 mm
Width < 160 mm
Thickness < 8 mm
Storage : 200 groups with RS-232 Interface

SAN - YMJ-B



GRAIN MOISTURE METER

SAN - LDS-1H



Measuring error: d" 0.5% (main moisture range)
Measuring range: 3-35%
Sampling mode: basis weight 150g (except special samples)
Working compensation: automatic
Working environment: 0-40°C
Calibration: floating 3 points calibration, unlimited sample

GRAIN MOISTURE METER

Measuring object: non-metallic granulated materials such as cereal, wheat, rapeseed, soybean, vegetable seeds, corn, feed and so on
Measuring error: d" ±0.5 % (main moisture range)
Measuring range: 3-35%
Temperature compensation: automatic
Attached function: volume-weight conversion display, sample weight display, temperature display, average moisture content calculation.
Calibration: 4 points calibration, unlimited sample (20 common varieties have been calibrated in advance, can be tested directly).
Working power: AC/DC, DC6V (4AA dry batteries)/special external power adapter

SAN - LDS-1G



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SEED COUNTER

Microcomputer automatic control, press key are touches, complete automated operation. LED shows the hypothesis number and the actual number. Count speed can change, no noise, the precision is higher. Digital, complete automated operation, changeable counting speed, reset key, automatic stop button, speed regulation option, LED display, thumb wheel switches, digital counter speed regulator, detachable pan, high sensitive sensor.

TECHNICAL SPECIFICATION

Measuring range: 1-99999

Application scope:

Small sample: 0.7 - 4mm x 0.7-12mm

Big sample: 3 - 10mm x 3-12mm

Time for test: more than 1000/3minute

Precision: big sample: 2/1000

Small sample: 4/1000

Power: 220V 50HZ

SAN - SLY-C



SEED COUNTER HIGH ACCURACY

SAN - SLY-D



with 4G SD card, data can be stored without limits, be able to connect to PC, with the weighing function. Count number range: 1-99999 (LED display)

PLANT NUTRIENT ANALYZER

Index : Nitrogen, Chlorophyll and leaf temperature

Nitrogen scale : Full scale

Nitrogen Accuracy : +5%

Chlorophyll range : 0.0 to 99.9 SPAD

Chlorophyll accuracy : ± 2 SPAD

Leaf Temperature range : 0-90 OC

Leaf Temperature Accuracy : ± 0.5 OC

SAN - TYS-3N



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VACUUM SEED COUNTING AND PLACING APP

Used for seed counting, suction and placing in the course of seed germination. Made up of main machine, suction tube and suction head with control button to control the suction power according to seed size. With 5 different seed suction heads, its size and specification match with Petri dish, meet needs of different seed germination.

Temperature: 40 °C

Power: 1200W 220V/50Hz

Voltage: 220V/50HZ

Machine size: 300*250*400 mm

Suction plate: 5pcs

Suction size: 13*19 (100 Holes, 50 holes/pc) 11.5*11.5 (100 holes, 2pcs), Ø8(100 holes/pc)

Vacuum planting plates

SAN - ZLC-2000



SEED BLOWER

SAN - CFY-II



Wind speed is adjustable according to granule size can achieve the best effect, and can be timed.

Max air volume: 3.8m³/min

Max wind pressure: 1300 pa

Noise: d"50db

Timing: 0-10min

Power: 180W, 220V 50HZ

LAB SIEVE SHAKER (WITH ONE SET OF SIEVE)

Max sieving quantity range: 500g

Sieving frame level: 3 layers

Sieving range: 100mm

Rotation speed: 115±5r/min

Sieve diameter: 220mm (grain sieve should buy separately)

Power: 60W AC220V 50Hz

Weight: 13kg

Package Size: 42*45*31CM

SAN - DSX



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MULTI-RICE, WHEAT & CORN THRESHER

It is a small electric threshing cleaning machines used in the laboratory for wheat, corn and so on grain threshing. The machine satisfies the threshing, cleaning, sorting and separation for grain

SAN - TLS-150A



LAB WHIRLWIND MILL

SAN - FS-II



Suitable for making grinding samples, efficiently and rapidly grind wheat, corn, rice, mung bean, soybean and so on.

SOIL MOISTURE METER

Hand-held meter Directly test and display soil moisture content.

SAN - TZS-1K



SOIL HARDNESS METER

SAN - TYD-2



Maximum load: 100Kg (Kg and N can be switched automatically).
Resolution: 0.01 Kg.
Accuracy: $\pm 0.5\%$.
Measuring depth: 0~450mm.
Power, charging power supply: 220V/AC,
Continuous operating time of battery, 6~8 hours
Stability, temperature drift: $0.2\mu\text{V}/^\circ\text{C}$ (0-60°C), Null drift, \d
d" 0.1%/8 hours / FS Calibration range: full-scale calibration.
Ambient temperature: 0~ 60°C.
Ambient humidity: d" 80%.
Allowable overload: 150%.
Power supply mode: 5 nickel cyanogens battery /220V AC
charge 4~6hour



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SOIL WATER POTENTIAL METER

Max load: 100kpa
 Resolution: 0.01kpa
 Accuracy: ± 1
 Soil Temperature testing range: $-55^{\circ}\text{C} \sim 150^{\circ}\text{C}$
 Temperature accuracy: ± 0.5
 Probe quantities: 3
 Can test both soil water potential index and soil temperature index

SAN - TRS-II



PLANT CHLOROPHYLL METER

Quick & easy measurement of chlorophyll levels in plants leaves
 Measuring area: 10mm
 Measuring mode: 2-wavelength concentration difference of optical methods
 Sensors: Silicon semiconductor photodiode
 Display mode: measuring value: 3 digits liquid crystal display
 Measuring times: 2 digits liquid crystal display
 Min measuring interval : < 2s
 Measuring Range: 9.9-199.9 SPAD
 Accuracy: ± 1.0 SPAD
 Repeat: ± 0.3 SPAD
 Operating temperature: $0-50^{\circ}\text{C}$
 Storage temperature: $-20-55^{\circ}\text{C}$

SAN - TYS-A



LEAF THICKNESS METER

Measure range: $0 \pm 6\text{mm}$;
 Resolution: 0.01mm;
 Accuracy: 0.015mm;
 Contact area: $\phi 10\text{mm}$; Pointed type

SAN - YH-1



GERMINATION BOX

SAN - GB-101



Big	13x19x12cm
Small	12x12x6cm



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SEMI-AUTOMATIC KJELDAHL NITROGEN ANALYZER (DISTILLATION PART)

Test varieties: grain, food, dairy products, drink, animal food, soil, medicine, settling, chemical and so on.

Number of testing sample: solid <5 pieces , liquid <15ml

Measurement Range: 0.1 mgN-200mgN (0.02%-95%)

Water Inlet Mode: running water and distilled water, wide use coverage

Recycle Rate: $\geq 99\%$ (relative error, including digest process)

Repeat Rate: relative standard error $< \pm 1\%$

Distilled speed: 5-15min/sample (according to sample amount)

Time for cooling water: 3L/Min



SAN - KDN

AUTOMATIC KJELDAHL NITROGEN ANALYZER (DISTILLATION PART)

SAN - ZDDN-II



Measure variety: foodstuff, feedstuff, foods, dairy products, drink, soil, water, medicine, precipitate and chemical.

Storing data: 250 datum

Measure range: 0.1 mgN-200mgN (nitrogen content 0.02%-99%)

Recovery rate: $100 \pm 1\%$ (relative error, include digestion process)

Repetition rate: relative standard deviation $< \pm 1\%$

Working hours: distillation time: 5-15 minutes

Voltage: AC 220V, 50Hz, 1000W

Cooling water consumption: distillation fraction 3L /min (water temperature is less than

20 degrees)

Water temperature: $< 20^{\circ}\text{C}$

DIGESTION BLOCK

Adopts quartz infrared heating pipe, the radiation is primary and the conduction is auxiliary; short heating time, high efficiency

Temperature controlling mode: digital

Temperature control range: room temperature- 600°C

Temperature control accuracy: $\pm 1^{\circ}\text{C}$

Heating speed: $30^{\circ}\text{C}/\text{min}$

Measurement range: 0.1 mgN-200mgN (mg nitrogen)

Measurement quantity: measure several varieties simultaneously at a time 20holes

Digest time: 60-90 min/batch (according to sample quantity)

Digestive pipe capacity: 300ml

Temperature control accuracy: $\pm 1^{\circ}\text{C}$

Power: 1000W/1500W/2500W

SAN -KDN-20C



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ROTARY EVAPORATOR

ISO 9001, 14001, CE CERTIFIED

Dimensions (W x D x H) : 730 x 410 x 630mm
Power source : AC 220 V 50/60Hz 2.5A/ Weight : 19.5kg
Distinguished Features
6 different types of flasks are attachable (from 50 ml to 3000ml)
Digital speed control
Digital R.M.P Display/ Speed control Range : 20~280 R.P.M
Slant type condenser
Digital interior temperature measure and display
(It catches the temperature changes caused by the interior pressure drops)
Motorized UP- DOWN control switch
Easy to utilize standard distillation solution
Included Water bath HS-3001 (PTFE coating)
Heater: 1000W/ Bath Material : SUS304 / Weight : 2.8kg
Bath Dimension (Q x H)mm: 245 X 120 (Capacity: 4.3L)
Required Power Source : AC 220V 60Hz 4.5A
Distinguished Features
If the amount of water goes down under the certain threshold in the heating bath, the system automatically turns off its power for the safety purpose
Temp. Control range : Amb.~180°C
Temp. Setting/Display : Digital control (controlled by the main controller)
Double jacketed bath body (safe to touch)

HS-20055-N (CE)



ROTARY EVAPORATOR

HS-2005V-N(CE)

Dimensions (WxDxH) : 620x410x87mm
Power source : AC 220V 50/60Hz 2.5A
Weight : 19.5kg
6 different types of flasks are attachable (from 50ml to 3000ml)
Consists of two receiving flasks and two evaporating flask : One liter each.
Digital speed control
Digital R.P.M Display



WATER BATH (PTFE COATING)

Heater : 1000W / Bath Material : SUS304 / Weight : 2.8kg
Bath Dimensions(φ x H)mm : 245x120(Capacity:4.3ℓ)
Required Power Source : AC 220V 60Hz 4.5A
If the amount of water goes down under the certain threshold in the heating bath, the system automatically turns off its power for the safety purpose
Temp. Control range : Amb.~180°C
Temp. Setting / Display : Digital control(controlled by the main controller)
Double jacketed bath body (Safe to touch)
Provision for maintaining ambient temperature in laboratory for proper functioning of equipment.

HS-3001



An ISO 9001:2015 CERTIFIED CO.

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ROTARY EVAPORATOR

VACUUM CONTROLLER

HS-O245



Solid state module maintains precise control (+3%) of the system Vacuum by cycling the pump on/off as required.

Adjustable for any level between 1mmHg and 760mmHg

Power source : AC 220V 50/60Hz

Dimensions (W x D x H) : 160 x 130 x 95

Weight : 1.8kg

VACUUM PUMP

100% oil-free transfer. Two stage diaphragm.

Pure transfer, evacuation and compression

Highly compatible with vapors and condensation

Chemically-resistant

Therefore suitable for highly aggressive and corrosive gases or vapors

Maintenance-free

Environmentally friendly

Technical data

Delivery (l/min) : 20

Ultimate vacuum (mmHg) : 730

Connectors for tube (mm) : OD 10

Voltage/Frequency : 230/50Hz

Pressure : > 10 mbar

Operating Current : 0.5A

HS-O153(CE)



CHILLER CIRCULATOR WITH DIGITAL DISPLAY

HS-3005



As a source of cooling water to the Rotary Evaporator and as a heat-emitting equipment it supplies sufficient quantity of cooling water as highly efficient chemical pumps are installed and does not contaminate other instruments as it does not get corroded

Specification

Capacity : 15Ltr.

Bath Dimension (D x H) : 280x270

Circulator Pump 15ltr/min : Magnet 20W max, flow

Temp. range : Down to -20°C

Controller : FND Controller

Refrigerator : 3/4 HP

Refrigerant : 134A

Dimension (W x D x H) : 350 x 390 x 840 mm

Gross weight : 40kg



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OEM EQUIPMENTS

VORTEX SHAKER

Power: 220V
Power: 40W
rpm: 2800 rev / min
Work: continuous, tap
Table diameter: 60mm rubber head
Dimensions: 160×120×170mm

QL - 901



VORTEX SHAKER

VORTEX - 5



Power: 220V
Power: 50W
Rpm: 2800 rev / min
Working mode: continuous, touch, tune Speed
Workbench: Bowl type, Flat type changeable
Dimensions: 120 × 170mm × 170.

VORTEX SHAKER (VORTEX-5, OPTIONAL FITTING)

Can be placed in capacity (factory does not contain test tubes): 0.5ml*30; 1.5ml*30
Microplate insert (factory excluding microplate)
: 96-well microplate



VORTEX - 5 H106

MAGNETIC AGITATOR (DIGITAL)

Power: 220V
Maximum heating power: 350W
Speed: 100-1200rpm
Maximum mixing area: 6L
Heating temperature: 300° C at room temperature
Temperature control method: Digital
Protection temperature: 220 deg.] C
Dimensions: 198 × 225 × 115mm
Heating plate diameter: 150mm

GL - 3250B



MAGNETIC AGITATOR

GL - 3250C



Power: 220V
Maximum heating power: 35W
Speed: 100-1200rpm
Maximum mixing area: 5L
Heating temperature: No heating
Temperature control: electronic
Protection temperature: Not
Overall dimensions: 198 × 225 × 115mm
Diameter of the tray: 150mm



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OEM EQUIPMENTS

PORTABLE UV REFLECTOMETER

GL - 9406



Power Supply: 220V
UV wavelength: 254nm of 365 nm
UV power: 16W
Filter size: 50mm × 200

MINI - CENTRIFUGE

Power: 220V
Power: 30W
Rpm: 3000 rev / min
Centrifugal amount: 1.5mlx6 0.5mlx6 0.2ml ×6
Dimensions: 120x100mm

LX - 100



MINI - CENTRIFUGE

LX - 200



Power: 220V
Power: 30W
Rpm: 7000 rev / min
Centrifugal amount: 1.5mlx6 0.5mlx6 0.2ml ×6 0.2mlx16
Dimensions: 130x120x100mm

MINI DESKTOP VACUUM PUMP

Pumping speed: 6L/min
Maximum negative pressure (shown at the head): 0.08mpa
Negative pressure regulation: 0.01-0.08mpa
Capacity bottle capacity: 1000ml
Dimensions: 295×240×250mm

GL - 802A



DRY THERMOSTAT

Temperature range: room temperature +5 ° C -150 ° C digital
Test tube standard: 95×25×50mm
The capacity can be placed (the factory does not contain the centrifuge tube) : 0.5ml*18+1.5ml*16
Maximum power: 200W

GL - 150



DRY THERMOSTAT

GL - 150B



Temperature range: room temperature +5 ° C -150 ° C digital
Test tube standard: 95×25×50mm×2 blocks
The capacity can be placed (the factory does not contain the centrifuge tube) : 0.5ml*35 or 1.5ml *24 or 1.5ml*4
Maximum power: 200W



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OEM EQUIPMENTS

COMPACT WHITE LIGHT TRANSMISSOMETER

Transmission power: 32W
Transmission size: 250×150mm 250×200mm

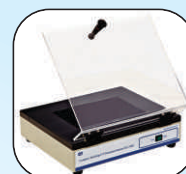
GL - 800



COMPACT DESKTOP UV TRANSMISSOMETER

UV wavelength: 312nm
UV Power: 48W
Power: 220V
Filter specifications: 200 x 150mm
Dimensions: 130mm × 270 × 320.

GL - 3120



INFRARED STERILIZER

MH - 3000A



Maximum temperature in the central area: 825°C ± 50°C
Standby to maintain temperature: 480°C
The largest disinfection items: 14mm
The total length of heating zone: 150mm
Outer Size: 150×102×180mm
Power: 170W
Weight: 1.3KG

MINI SHAKER

MH - 2



Power: 220V
Power: 30W
Amplitude: 6mm
Timing: 0-120 min
Frequency: 0-2800 rpm / min
External dimensions: 185×185×120mm
Range: 96 2

MICROPOROUS QUICK SHAKER

Power: 220V
Power: 30W
Frequency: 0-1350 rpm
speed: stepless
Range: 96-well microplate 4 pieces
Timing: 0 to 120 points/continuous
Appearance size: 350 × 250 × 150mm

QB - 9001



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OEM EQUIPMENTS

MICROPORUS QUICK SHAKER

QB - 9002



Power: 220V
Power: 35W
Frequency: 0-1450 rpm
speed: stepless
Range: 96-well microplate 6 pieces
Timing: 0-120min
Appearance Dimensions: 370 × 335 × 145mm

CONSTANT TEMPERATURE MICROPOROUS QUICK SHAKER

Temperature range: room temperature $70^{\circ}\text{C} < \pm 1.5^{\circ}\text{C}$
Frequency: 100-1450 rev / min
Speed: Promise speed regulation
Capacity: 96-well microtiter plate 4
Timing: 0-120min/continuous

QB - 9006



SPIRAL MIXER

KB - 3 - D



Power Supply: 230V / 50HZ
speed: of 6 rpm
Maximum loading volume: 0.8KG
Weight: 1.2KG
Movement/Slope: 3-D/Fixed 20 degrees
Working temperature: +4 deg. C -65
Dimensions: 341 × 172 × 172mm

HIGH SPEED OSCILLATION MIXER

Power: 35W
Speed: about 300 -2800 rpm /
Cyclotron amplitude : about 3mm
Oscillation mode: cycle
Timing: 0-120 min/ Continuous
Machine weight: 6.5KG

QB - 600



MULTIPURPOSE DECOLORIZING SHAKER (UPGRADED)

Power: 220V
Power: 35W
Frequency: 40 to 240 rpm
Turning radius: 15mm
Timing: 0 to 120 minutes
Platform size: 250 × 230mm

TS - 2000A



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OEM EQUIPMENTS

TRANSFERENCE SEESAW SHAKER

BETS - M5



Power: 220V
Power: 30W
Weight: 5.5kg
Rocker speed: 10-75 rpm / min
Speed display: digital
Timing range: 0-120 min / continuous
Swing angle: Up and down 25mm
Tray size: 240 × 230mm
Outside Size: 240 × 290 × 140mm

SUPER THIN ORBITAL DECOLORIZING SHAKER

Voltage: 80/240V 50/60HZ
Power: 40W
Operation mode: circumferential horizontal oscillation
Turning radius: 15mm
Frequency: 100-350 rev / Minute
Speed display: LCD
Time display: LCD
Timing range: 99.59 hours
Tray size: 330 × 330mm
Dimensions: 420 × 370 × 110mm

BETS - O10



ROLLER MIXER

Power: 110/220/50HZ/60HZ
Number of rollers: 6
Speed: 5-80rpm
Swing up and down Amplitude: 16mm
Maximum carrying capacity: 5kg
Roller specifications: 275×30mm
External dimensions: 250×470×110mm

SRT - 101



ROTATION MIXER

WH - 986



Power: 220V
Speed: 5 rpm / min imported motor
Working status: 360° Rotating
Working size: 250×100/0.5-10ml
The capacity can be placed (factory without test tube)
: 0.5ml×18 1.5ml×30 5ml×12



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OEM EQUIPMENTS

TEST - TUBE OSCILLATING MIXER

Power supply: 220V/50HZ
Maximum power consumption: 20W
Swing: 25°C
Swing frequency: 16 times / min
Internet Size: 130mm × 320
Ambient temperature: +4-65°C
Maximum load: 1KG
Outside Size: 385×148×140mm
Weight: 4KG

BE - 2011



FOUR-DIMENSIONAL ROTATING MIXER

BE - 1100



- Unique adjustable rotating frame combination
- Multiple rotation modes, from gentle rotation to flip-type rotation
- Widely used in molecular biology, histochemistry, biochemistry, clinical applications, etc.
- Provides 5 kinds of centrifuge tube fixtures, which greatly satisfy Experimental requirements
- When rotating, gently press the centrifuge tube clamp by hand to achieve forward and reverse rotation
- Can be used for cold storage and incubator

Power: 220V/50HZ
Power: 40W
rpm: 18rpm
Dimensions: 240×145×210mm
Temperature range: +4-65°C
Weight: 1KG

MULTIPURPOSE SHAKER (DIGITAL)

Power: 220V
Power: 35W
Tray load: 4kg
Speed Control: Digital
Timing: 0-120 points / continuous
Tray: 250×160mm
Rotation speed: 360 degrees vertical rotation 10-80
Can be placed (factory without centrifuge tube)
: 1.5ml × 12 15ml × 6 50ml × 3 fixtures
Multipurpose Shaker (optional fitting)

QB - 208



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OEM EQUIPMENTS

TOTTERING MIXER (45° LATERAL SWING)

QB - 212



Power: 220V
Power: 35W
Mixing speed / min
Mix: up and down 45° wobble
Rocking plate size: 250×160mm
Dimensions: 420 × 170 × 190mm
Can be configured (factory not Containing centrifuge tube)
: 1.5ml × 48 / 15ml × 10 / 50ml × 6 Fixtures
Tottering Mixer (accessories)

ROLLING INCUBATOR (DIGITAL)

QB - 228

Power: 220V 50HZ
Rotating speed: 10-80 rpm
Speed control: Digital
Timing: 0-120 Points / Continuous
Dimensions: 290 × 220 × 360mm



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DIGITAL COND-TDS-SAL METER

MICROPROCESSOR BASED

Technical Specification :

Function : Cond. & Temp., TDS & Temp., SAL & Temp. Simultaneously

Display : 16 character x 2 lines alphanumeric BL LCD

Power supply : 230 V \pm 10% 50 Hz AC

Conductivity-TDS-SAL

Range : Cond : 0.00 μ S/cm to 1000 mS in 6-Auto ranges

TDS : 0.00 ppm to 200 ppt in 5-Auto ranges

SAL : 0.0 ppt to 50 ppt

Resolution : Cond : 0.01/0.1/1 μ S/cm or mS/cm as per range

TDS : 0.01/0.1/1 ppm or ppt as per range

SAL : 0.1 ppt

Accuracy : \pm 0.5% of range \pm 1 digit

TDS Factor : 0.50(By default) & adjustable manually

SAL Factor : 0.75(By default) & adjustable manually

Cell const. adjustment : Digital 0.05 to 2.000 By default 1.000

Temp. Compensation : 0 to 70°C Auto with temp. probe/Manual with keys

Temp. Coefficient adj. : 0.00% to 4.00% adjustable. By default 2.00%

Calibration : Manual

Reference Temp. : 20 Degree C & 25 Degree C(selectable)

Measuring Frequency : 100 Hz & 1 KHz Auto Selection

Temperature

Range : -20.0°C to +200°C

Resolution : 0.1°C

Accuracy : \pm 0.1% of range \pm 1 digit

Calibration : Two point manual

Sensors : Pt100 probe

Data entry : By six soft touch keys with audible sound

Storage : 1000 samples

Real time display : 24 Hour mode with Date

Interface : RS-232, Centronics & Computer

Print format : All Data

Date Wise

Digital output : Serial RS-232

Parallel Centronics

Accessories : Conductivity Cell

Instruction Manual

Dust cover

Temp Probe

Appearance & specification subjected to change due to continuous development

PRINT FORMAT:-

DATE	TIME	TEMP(DegC)	PARAMETER	MODE	SPNo
12/12/08	11:18	T= 020.0	C=00.00 μ s/cm	MANUL	001
12/12/08	11:18	T= 020.0	TDS=00.00ppm	MANUL	002
12/12/08	11:18	T= 020.0	SAL=000.5ppt	MANUL	003



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www.sancochemicals.com

DIGITAL DO METER MICROCONTROLLER BASED

Technical Specification :

Function : DO & temperature simultaneously

Display : 16 character x 2 lines alphanumeric BL LCD

Power supply : 230 V \pm 10% 50 Hz AC

DO

Range : 0 to 20 ppm

Resolution : 0.1 ppm

Accuracy : \pm 2% \pm 1 digit

Pressure adjustment : 0 to 999 mm of Hg Manual By default 760

Temp. compensation : 0 to 50 °C Auto with temp probe/Manual with keys

Salinity Correction : 0 to 20 mg/l (Manual) By Default (00)

Calibration : Auto as well as manual 2 point

Temperature

Range : -20.0 °C to 200 °C

Resolution : 0.1 °C

Accuracy : \pm 0.1% of range \pm 1 digit

Calibration : two point manual

Sensors : Pt100 probe

Data entry : By soft touch keys with audible sound

Storage : 1000 samples

Real time display : 24 Hour mode with Date

Interface : RS-232, Centronics & computer

Print format : All Data

Date Wise

Digital output : Serial RS-232

Parallel Centronics

Accessories : DO probe

Dust cover

KCL, Sodium Sulphite Salt

Instruction Manual

Temp Probe

DO Membrane(10)

Appearance & Specification subjected to change due to continuous development

DATE	TIME	TEMP(DegC)	PARAMETER	MODE	SP. No
12/12/08	11:18	T= 020.0	DO=00.0 ppm	MANUL	001
12/12/08	11:19	T= 020.0	DO=08.0 ppm	MANUL	002



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DIGITAL PH METER MICROPROCESSOR BASED

Technical Specification :

Function : pH & temp. OR mV & temp. simultaneously

Display : 16 character x 2 lines Alphanumeric BL LCD

Power supply : 230 V \pm 10% 50 Hz AC

pH

Range : 0 to 14 pH

Resolution : 0.01 pH

Accuracy : \pm 0.01 pH \pm 1 digit

Slope adjustment : 80% to 120% By default 100%

Temp. compensation : 0 to 100 °C Auto with temp probe / Manual with keys

Auto buffer recognition : 4.00 pH, 7.00 pH, 9.20 pH

Calibration : Auto & Manual, 3 point & 2 point (Programmable)

mV

Range : -1999 mV to +1999 mV

Resolution : 1 mV

Accuracy : \pm 0.1% \pm 1 digit

Calibration : Two point manual

Temperature

Range : -20.0 °C to 200 °C

Resolution : 0.1 °C

Accuracy : \pm 0.1% of range \pm 1 digit

Calibration : two point manual

Sensors : Pt100 probe

Data entry : By six soft touch keys with audible sound

Storage : 1000 samples

Real time display : 24 Hour mode with Date

Interface : RS-232, Centronics & computer

Print format : All Data & Date Wise (Programmable)

Digital output : Serial RS-232 Parallel Centronics (Programmable)

Error Indication : pH ERROR, ORP ERROR, CAL ERROR & T-ERROR

Accessories : pH electrode Instruction Manual Buffer Solutions

Dust cover Electrode Stand Temp Probe

Appearance & Specification subjected to change due to continuous development

PRINT FORMAT:-

DATE	TIME	TEMP(DegC)	PARAMETER	MODE	SPNo
12/12/08	11:18	T= 020.0	pH= 07.00	MANUL	001
12/12/08	11:18	T= 020.0	mV= 0000	MANUL	002
12/12/08	11:18	T= 020.0	T= 020.0°C	MANUL	003



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SOLUTION ANALYZER KIT MICROCONTROLLER

***TEMP.* pH * ORP * COND
*TDS * SAL * DO**

Technical Specification :

pH

Range : 0-14 pH
Resolution : 0.01pH
Accuracy : + 0.01 pH (relative)
Temp. Comp. : Automatic with Pt100 Sensor & Manual by keys
Buffer Recognition : 4.00 , 7.00 , 9.20 (Automatic)
Calibration : Automatic & Manual 2 Point, 3 Point(Prog.)

mV/ORP

Range : - 1999 to +1999 mV
Resolution : 1 mV
Calibration : Manual
Accuracy : + 0.1% + 1digit

Conductivity

Range : 0-1000 mS/cm
Range Selection : Automatic
Resolution : 0.01/ 0.1/ 1 uS/cm or mS/cm as per range
No. of Ranges : Six
Accuracy : + 0.5%
Temp. Comp. : Automatic with Pt100 Sensor
Ref. Temp. : 25 degree C/20 degree C(Prog.)
Temp. Co-efficient : 0-4% adjustable
Cell constant : 0.05 to 2.0 adjustable

Salinity

Range : 0-50 ppt
Resolution : 0.1 ppt
Temp. Comp. : Automatic
Accuracy : + 0.5%
Salinity factor : 0.75 by default(adjustable)

DATA INTERFACE:

RS232 & Parallel output available for interfacing to computer/printer

Accessories

1. pH electrode
2. Buffer solutions
3. Conductivity/TDS/Salinity Cell
4. Temp. probe
5. DO probe, DO membranes, KCL
6. Operation manual
7. ORP Electrode AT EXTRA COST
8. Data cable



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SOLUTION ANALYZER KIT MICROCONTROLLER

* TEMP * pH * ORP * COND
* TDS * SAL * DO * TURBIDITY

Technical Specification :

pH

Range	: 0-14 pH
Resolution	: 0.01pH
Accuracy	: + 0.01 pH (relative)
Temp. Comp.	: Automatic with Pt100 Sensor & Manual by keys
Buffer Recognition	: 4.00 , 7.00 , 9.20 (Automatic)
Calibration	: Automatic & Manual : 2 Point, 3 Point(Prog.)

mv/ORP

Range	: -1999 to +1999 mV
Resolution	: 1 mV
Calibration	: Manual
Accuracy	: + 0.1% + 1digit

Conductivity

Range	: 0-1000 mS/cm
Range Selection	: Automatic
Resolution	: 0.01/ 0.1/ 1 uS/cm or mS/cm as per range
No. of Ranges	: Six
Accuracy	: +0.5%
Temp. Comp.	: Automatic with Pt100 Sensor
Ref. Temp.	: 25 degree C/20 degree C(Prog.)
Temp. Co-efficient	: 0-4% adjustable
Cell constant	: 0.05 to 2.0 adjustable

Salinity

Range	: 0-200ppt in 5-ranges Automatic
Resolution	: 0.01/0.1/1 ppm or ppt as per range
Temp. Comp.	: Automatic
Accuracy	: + 0.5%
Salinity factor	: 0.75 by default(adjustable)
Cell constant	: 0.05 to 2.0 adjustable
Ref. Temp.	: 25 degree C/20 degree C(Prog.)

Data Interface:

RS232 & Parallel output available for interfacing to computer/printer

Accessories

1. pH electrode
2. Buffer solutions
3. Conductivity/TDS/Salinity Cell
4. Temp. probe
5. DO probe, DO membranes, KCL
6. Operation manual
7. ORP Electrode AT EXTRA COST
8. Test Tubes



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SOLUTION ANALYZER KIT MICROCONTROLLER

* TEMP * pH * ORP * COND
* TDS * SAL * DO * TURBIDITY

Dissolved Oxygen

Range	: 0 to 20 ppm
Resolution	: 0.1 ppm
Calibration	: Automatic
Accuracy	: + 0.2 ppm + 1digit
Temp. Comp.	: Automatic with Pt100 Sensor & Manual By keys
Pressure comp.	: 0-999 mm of Hg (Manual)
Salinity Correction	: 0-20 mg/l

Temperature

Range	: -20.0 to +200 degree C
Resolution	: 0.1 degree C
Accuracy	: + 0.2% + 1digit
Input	: Pt100
Calibration	: Manual

TDS

Range	: 0-200ppt in 5-ranges Automatic
Resolution	: 0.01/0.1/1 ppm or ppt as per range
Temp. Comp.	: Automatic
Accuracy	: + 0.5%
TDS Factor	: 0.50 by default(adjustable)
Cell constant	: 0.05 to 2.0 adjustable
Ref. Temp.	: 25 degree C/20 degree C(Prog.)

Turbidity

Range	: 0-1000 NTU in Two Ranges
Resolution	: .1 NTU in lowest Range
Range Selection	: Automatic
Accuracy	: $\pm 3\%$ FS ± 1 -digit
Detector	: Photodiode/Photocell
Sample System	: 30 mm Clear Glass test tube
Light Source	: 6V Tungsten Lamp
Calibration	: Manual

General

Display	: 16 characters X 2 lines alpha Numeric BL LCD
Display format	: Temp. and parameter Simultaneously
Real Time Display	: 24 Hour Mode With Date & Time
Controls	: By soft keys Menu Driven
Storage	: Up to 1000 samples
Power Supply	: 230 V +10 % 50 Hz & Inbuilt 12 V Rechargeable battery
Digital Output	: Serial RS-232 : Parallel Centronics
Print format	: All Data : Date Wise (Programmable)
Error Indication	: pH Error,ORP Error,T-Error
Appearance and specifications	subject to change due to continuous development



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TURBIDITY METER MICROCONTROLLER BASED

Technical Specification :

Function	Turbidity & temp. simultaneously
Display	16 character x 2 lines Alphanumeric BL LCD
Power supply	230 V \pm 10% 50 Hz AC
Turbidity	
Range	0-1000 NTU in Two Ranges
Resolution	.1 NTU in lowest Range
Accuracy	\pm 3% FS \pm 1-digit
Range Selection	Automatic
Detector	Photodiode / Photocell
Sample System	30 mm Clear Glass test tube
Calibration	Manual
Light Source	6V Tungsten Lamp
Display format	Temp. and parameter Simultaneously
Real Time Display	24 Hour Mode With Date & Time
Temperature	
Range	-20.0°C to 200°C
Resolution	0.1°C
Accuracy	\pm 0.1% of range \pm 1 digit
Calibration	Two point manual
Sensors	Pt100 probe
Data entry	By six soft touch keys with audible sound
Storage	1000 samples
Real time display	24 Hour mode with Date
Interface	RS-232, Centronics & computer
Print format	All Data & Date Wise (Programmable)
Digital output	Serial RS-232 Parallel Centronics (Programmable)
Accessories	Instruction Manual, Test Tube, Temp Probe



Appearance & Specification subjected to change due to continuous development

PRINT FORMAT:-

DATE	TIME	TEMP(DegC)	PARAMETER	MODE	SP.No
12/12/08	11:18	T= 020.0			001
12/12/08	11:18	T= 020.0			002
12/12/08	11:18	T= 020.0			003



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INSTRUMENTS FOR WATER TESTING

Instruments Type

Measurement

Display

Rang

Resolution

Accuracy

Temperature

Compensation

Slope Control

Recorder Output

Power Requirement

Deluxe pH Meter

MODEL #151-R

pH & ORP

3^{1/2} Digit LED

0-14.00 pH

0 ± 1999mV

0.01 pH. 1mV

± 0.01 pH, ± 1mV

Auto + Manual

0 to 100°C

80 to 120%

0 to 10mV / pH

Adjustable

220 VAC ± 10% 50Hz

Deluxe pH Meter

MODEL #152-R

pH & ORP

3^{1/2} Digit LED

0-14.00 pH

0 ± 1999mV

0.01 pH. 1mV

± 0.01 pH, ± 1mV

Manual

0 to 100°C

80 to 120%

0 to 10mV / pH

Adjustable

220 VAC ± 10% 50Hz

Instruments Type

Model

Display

Range

Accuracy

Temperature

Compensation

Cell Constant

Adjustment

Conductivity/

TDS Cell

Power

Digital Conductivity

Meter

215-R

3^{1/2} Digital LED

5 Range

0 to 1000m Mhos/cm

±1% FS ±1 Digit

Manual 0 to 100°C

Adjustable

Digital Display

DIP Type

220V ± 10% 50Hz

Digital TDS Meter

235-R

3^{1/2} Digit LED

5 Range

0 to 1000 ppt

±1% FS ±1 Digit

Manual 0 to 100°C

Adjustable

Digital Display

DIP Type

220V ± 10% 50Hz



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