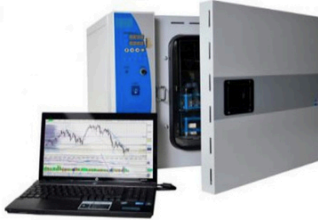
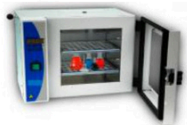
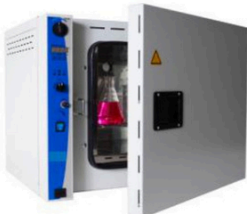
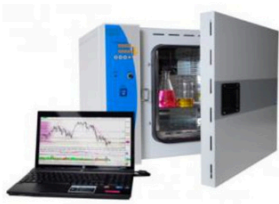


Seeds Lab.

item name	Discriptions	Picture
Growth Chambers with and with or without humidity control - Vertical Airflow	FIELDS OF APPLICATION: • Plant growth • Seed germination • Acclimation of plants • Culture of plant cells and tissues • Chemical industry • Test which needs specific temperature, humidity and illumination • Genetic manipulations of plants • Cultivation of protoplasm and cells • Incubation and rearing of insects • Chemical and pharmaceutical industry Reaserch • Quality test • Plant biotechnology • Timber and forestry industry • Cosmetic Industry	benhtop chamber  on floor chamber 
REFRIGERATED INCUBATOR	• Powerful and fast refrigeration system • Operating temperature from 0°C to 100°C • Outer structure in sheet steel painted with anti-acid epoxy powder coating • Inner chamber in stainless steel • Second door in tempered glass • RS-485 output • Data management software, standard USB cable and adaptor • Sterilization cycle (160°C for 2.5 hours)	
COOLING INCUBATOR with PC connection to check the process	• Programmable with ramps • 4 working programs, 8 segments • Optimization of working time • Graphic realization • Historical file • Repeatability • PC connection to check the process • External frame painted with acid resistant epoxy paint • Internal chamber in stainless steel • Tempered glass inner door • Double door lock for better temperature thermal insulation • Chimney of 45 mm on the back side for extraction exhaust fumes; including device for opening/closing regulation to allow the probe or cable passage • Microprocessor temperature control • Timer from 0 to 99.99 hours + infinite • Temperature range: from -10C below room temperature to +80C • Security class 3.1	
COOLING INCUBATOR	* External frame painted with acid resistant epoxy paint * Internal chamber in stainless steel * Tempered glass inner door * Double door lock for better temperature thermal insulation * 10 mm hole on the top side to insert a thermometer or a probe * Microprocessor temperature control * Timer from 0 to 99.99 hours + infinite * Fan ventilation * Temperature range: from -10C below room temperature to +80C	

INCUBATOR	* External frame painted with acid resistant epoxy paint * Internal chamber in stainless steel * Tempered glass inner door * Double door lock for better temperature thermal insulation * Chimney of 45 mm on the back side for extraction exhaust fumes; including device for opening/closing regulation to allow the probe or cable passage * Hole of 10 mm on the top to allow the passage of thermometer * Microprocessor temperature control * Timer from 0 to 12 hours + infinite	
MINI INCUBATOR	Transparent Plexiglass for easy chamber inspection door. Natural air circulation. Microprocessor temperature control PID with PT100 probe.	
FORCED VENTILATION OVEN	Forced Ventilation Oven. * External steel structure varnished with epoxy paint * Internal chamber in stainless steel * Double door block for a better temperature thermal insulation. * 45 mm hole placed on the posterior part for fume discharge, whit regulation device for opening/closing passage * 10 mm hole placed on the upper part for insertion of probe or thermometer * Digital Timer * Adjustable forced ventilation	
NATURAL VENTILATION OVEN	NATURAL VENTILATION OVEN. * External steel structure varnished with epoxy paint * Internal chamber in stainless steel * Double door block for a better temperature thermal insulation. * 45 mm hole placed on the posterior part for fume discharge, whit regulation device for opening/closing passage * 10 mm hole placed on the upper part for insertion of probe or thermometer * Digital Timer * Security class 3.1	
NAT. VENT OVEN WITH RAMPS (PC connection to check the process)	Natural Ventilation Oven with ramps. * External steel structure varnished with epoxy paint * Internal chamber in stainless steel * Double door block for a better temperature thermal insulation. * 45 mm hole placed on the posterior part for fume discharge, whit regulation device for opening/closing passage * 10 mm hole placed on the upper part for insertion of probe or thermometer * Digital timer * Security class 3.1 Programmable with ramps: * 4 working programs, 8 segments * Optimization of working time * Graphic realization * Historical file * Repeatability	
FORCED VEN. WITH RAMPS	Forced Ventilation Oven. Programmable with Ramps and RS 232 interface : * 4 working programs, 8 segments * Optimization of working time * Graphic realization * PC connection to check the process * Historical file * Repeatability	

SHAKER STIRRER (Stirring amplitude: Orbital or Orizzontale)	These shaker stirrers are recommended for all diagnostic and haematology laboratories as well as series applications. These rugged stirrers are made of sheet steel which has been oven coated with acid-resistant epoxy paint.	
ROTARY SHAKER	Rotary shaker for test tubes suitable for mixing different sized tubes via a "tumbling" motion and "rolling" motion Ideal to use in laboratories for preparation protocols Suitable for using with incubators, even refrigerated Rotary shaker for test tubes with adjustable angle rotation Digital speed control 999 min digital timer	
VIBRATION MIX	Mixer is ideal for mixing solutions in test tubes. It functions automatically by exerting pressure on the small stirring cup. Continuous operation can be selected by pushing the switch on the front panel. Stirring frequency can also be selected by the knob also on the front panel. The Vario Mixer is fitted with four small suction cups providing a firm grip on the work to.	
ELECTROMAGNETIC STIRRERS		  
STIRRING HEATING MANTLES		
VERTICAL AUTOCLAVES	MAIN FEATURES Dia of Sterilization chamber: The heavy-gauge sterilization chamber in a diameter of 40 cm offers a massive space to satisfy various sterilization requirements. Microcomputer control system: "Inspiration" fast speed Microcomputer intelligent control system is highly robust to not only realize the total-process controls of sterilization, but also enable convenient maintenance, inquiry, calibration, recording and upward scalability in the future. It allows three tiers of administrations, i.e. user, user administrator and engineer, to guarantee satisfactory use and management of autoclave. Drying function: drying according to CE standards. Cooling lock open temperature: Each procedure can set different cooling lock open temperatures according to the thermal inertia of the sterilization object so as to prevent the user from opening the cover and hence getting burnt when the sterilization object is still in an unsafe state. Sterilization Temperature: 105-138 °C	
VERTICAL AUTOCLAVES	Dry scorch protection Over pressure protection Safety valve Over temperature protection Over current and short circuit protection Electric leakage protection Anti-scald chamber cover and bench Automatic troubleshooting with 13 error detection procedures 2 safety devices: • Self-induction interlocking device to avoid misuse • Safety pressure lid locking Microcomputer control system Automatic cold air discharging monitoring to guarantee pure steam sterilization environment Manual water filling	

VERTICAL AUTOCLAVES	Top-loading portable sterilizer with 4 preset sterilization cycles and 1 manual sterilization cycle, easy to use, high performance and complies with current standards. Stainless Steel basket included.	
front loading AUTOCLAVES	front-loading sterilizer, for steam sterilisation of wrapped or unwrapped instruments. Two sterilization cycles: Choose from 134°C or 121°C cycle. Sterilization times with wrapped instruments, not set at 134°C – 35 minutes Sterilization times with wrapped instruments, not set at 121°C – 45 minutes. All pre-heating, sterilization cycles, and drying are automatic. Safety door-locking mechanism can only be opened by operator. Thermodynamics expel pockets of cold air. Inner chamber made entirely of stainless steel with single block heating elements, provides uniform heating of the 4 aluminium trays. Stainless steel chamber supplied with 4 standard trays.	 
Automatic Seed Counter	Automatic seed Counter can automatic count many kinds of grains by setting number. In agriculture it is mainly used in grain count, exp. Rice, wheat, sorghum, corn, vegetables seed and so on. Count Range:1-12mm ,Count Accuracy:±2% ,Count Speed:≥1000 /3min (Sesame)	
Seed Counter	7-inch color touch screen to guide the operation process. - Record content: time, total number of grains, number of samples. - Adjustable speed: stepless speed regulation. - Turntable operation: automatic, jog, manual three can be converted. Suitable for corn, rice, wheat, rape, vegetables and other seeds. It has an automatic sample separation function.	
Thresher	Multi-rice, wheat thresher is a small electric threshing cleaning machines used in the laboratory for wheat, rice and grain threshing. The machine satisfies the threshing, cleaning, sorting and separation for grain, meanwhile. It is easy to open the cover and clean residue, including sweep the corners and guarantee no confounding. - Roller diameter: 175 mm - Roller rotation speed: 900 rpm - With strong corrosion resistance	
Double Ring Infiltro-meter & Mariotte Tubes	Used in the field for measuring the rate of infiltration of a liquid, generally, water, into fine or coarse-grained soil Features: Reliable field measuring results Performs well in fine-grained soils Provides useful data for geotechnical and environmental studies, and on a soil's infiltration potential	
Soil Grinder	Prepares samples for Atterberg Limits or grain size testing and other standard lab tests. It is an efficient method for reducing agglomerations of caked soil to individual grains, and much less labor-intensive than a manual mortar and pestle operation Features: Fast, efficient sample preparation of soils A manually-operated gate controls the feed rate Processes most soil types in less than 30 seconds	

Bulk Density Soil Sampling Kit	The kit is ideal for sampling the soil surface, in auger holes or in profile pits	
Balances		
Moisture balance	Moisture Balance, 120 g capacity by 0.001/0.01 g sensitivity with tare up to 10 g. Samples are dried by a infrared lamp with adjustable heat control. A built-in-timer switches off the heater at the end of the drying cycle. Moisture loss percentage and residual mass are read directly from the lighted scale.	
Sieve shaker motor operated	It accepts sieves having dia. 200 - 250 - 300 - 315 mm, and 8"..."12". This simple and low cost Sieve Shaker is activated by an electric motor and can hold up to 8 Sieves Ø 200 mm or 7 Sieves Ø 300 mm plus pan and lid. It is also possible to perform wet sieving tests (see accessories mod. A046 and A047). Provided of timer 0 - 60 minutes	
Research meter	pH/ORP & EC/TDS/Resistivity/Salinity & Temperature	
Water Bath	produces high-purity distilled water for the most common laboratory applications. Made of stainless steel, it is ideal for the production of high quality water. Equipped with a level sensor for automatic operation.	
Water Bath	Baths with Dubnoff type shaking action are made entirely of sheet steel which has been oven coated with acid-resistant epoxy paint whilst the inner tank is made of stainless steel.	

Water Bath	*CAPACITY 5 - 15 - 24 lt * External case in ABS CAPACITY 50 lt * External case in steel painted with epoxy paint ALL CAPACITY * Stainless steel tank (made by mould) * General switch * Digital thermoregulator * Safety thermostat * Good insulation between external case and tank	
Water Bath	The tanks are molded in one single piece sheet of 18/8 stainless steel. Stopcocks are fitted to the rear of the tanks to drain the liquid without lifting the tank off the table. The external athermic casing is made of shock-resistant ABS with excellent insulation properties. They are feature with electronic pre-set temperature regulation thanks to the PID microprocessor and temperature control by the PT 100 sensor; a second safety thermostat is fitted in case the sensor does not work.	
Spectrophotometers	• Atomic Absorption • Double Beam • UV-Visible • Water • Visible • Chemistry	
HPLC Chromatography	Chromatography system gives excellent reliability and stability with accurate flow rate. Comes with easy to use LCW software offers complete control, powerful data processing, reporting functions, intelligent diagnostic systems and maintenance utility ensure a complete and flexible software solution for your analytical work.	
Microscopes with or without camera		
Electronic pressure flow monitoring gas chromatography	gas chromatography is a new generation of gas chromatograph with high stability and reliability, which is suitable for routine testing. It is equipped with advanced electronic pressure and flow measurement monitoring EPFM module, by adjusting gas circuit knob, can get gas parameters easily in the host screen and workstation, including the pressure and flow of carrier gas, hydrogen, air etc, and the injection port diversion ratio, column flow, etc. No flow meter measurement and manual calculation required, easy to operate.	
Gas Chromatography System	5 kinds of sample injectors and all conventional detectors can be attachable depending on samples for analysis. In particular, for analysis of environmental samples (water quality, air, soil and wastes) satisfactory outcome can be achieved by connecting a sample preparation system such as the Purge & Trap.	
Multi-parameter photometer with COD for water & waste water		

COD test tube holder		
Automated Nitrogen Concentrator	automatic parallel system increases the capacity by 25% in comparison to the MultiVap 8 boosting the lab throughput. The price/performance ratio has further increased. With this system it is possible to evaporate to solid state or concentrate into a fixed end-point volume. A compact solution compared to conventional rotary evaporators, with the possibility to be used outside the fume hood thanks to the integrated vapor evacuation system.	
Clipper Micro Debearder	The Clipper Micro Debearder is a multi-purpose machine available with various motor sizes and voltages along with optional variable speed controls to handle a wide variety of jobs with ease. The Clipper Debearder originally designed to debeard barley has become one of the most versatile machine in the entire Clipper line. The Debearder Micro incorporates improvements such as increased drum material thickness, hardened hammers, and a new style machined stress proof drive shaf	
Specimen Radiography System	Imaging seed has never been easier. When checking to see whether your seed has a viable, intact embryo in the seed case or not, utilizing a KUBTEC cabinet X- ray system will provide you with high-resolution digital images in seconds. KUBTEC cabinet X-ray systems to analyze growth, viability, development, damage in the seeds. The system is used by Botanical gardens, Seed Producers and Forestry services to inspect seed health.	
Centrifuges		
		

Centrifuges		
Portable leaf area meter	A lightweight, non-destructive instrument to get leaf area measurements where you need to Ideal for rapid field surveys of attached leaves at a single point in time, or throughout their life cycles, the LI-3000C measures the area, length, average width, and maximum width of each leaf. Measurements are displayed on the digital readout as data are taken and recorded in the on-board memory for subsequent analysis	
Seed Counter	Designed for the seed breeding and research business highest counting precision with 99.9% counts all seed from 0.5 mm to 18 mm rapid counting speed • 6 seconds for 1000 rape seeds • 12 seconds for 1000 cereal seeds • 25 seconds for 1000 corn seeds • Table count, free count and batch count • Auto calibration and automatic calculation of TGW/TSW • quick emptying of hopper • 15" touch panel PC with research software- • Easy configuration of external devices directly in the software • high flexibility due to Windows user interface • count weight and thousand grain weight in Excel • import and export via USB drive	
Air Screen Cleaner	It has following features : • Inlet with capacity shutter and vibrator feeder with start/stop and potentiometer. • Aspiration system with pre-aspiration and final aspiration connected to an air recirculation system. • Screen section consisting of two sieve boats with 2 screen layers in the upper boat, 1 return screen layer, and 2 screen layers in the lower boat with several screen diagram possibilities. • All screen segments with rubber ball cleaning. * Extended outlet tray • Inspection windows. • Variable drive of sieve boat with frequency converter.	
Seed Cleaner CLIPPER OFFICE TESTER	It has following features: • Clipper Dependability and Precision • Accurate, dependable performance for small lot cleaning, testing, or sampling. • Tabletop design is small, yet accurate. • Compact and easy to move. • Used in seed plants for sampling large lots. • Popular with vegetable and flower growers and in seed stores for specialized cleaning, grading, and sizing. • Includes 2 screens of your choice (include screen sizes when ordering)	
Sealing machine	Vacuum packaging machine features a 16" seal bar with a powerful dual piston pump, which quickly creates tight seals within seconds, making this efficient machine a time saver for your establishment	

Gravity separator	Gravity Separator is an important piece of equipment in the laboratory and is the last link in a series of cleaning and grading equipment for grains It has following features: • Inlet with capacity shutter and vibrator feeder with start/stop and potentiometer. • Oscillating triangular grading deck with air distribution plate and standard covering. • Eccentric shaft with digital readout. • Manually adjustable deck stroke length, deck speed, air volume, deck inclinations length wise and crosswise. • Outlet section with manually adjustable product guide plates. • Integrated fan with frequency converter. • Collecting drawers for 5 fractions. • Motors.	
Clipper	Is a small cleaner designed to meet the low maintenance and easy clean-out requirements of today's industry It has following features: • Inlet Feed Hopper • Heavy Duty Eccentric Shaft and Drive • Scotch-Ply Shoe Hangers • 2 Screens 24-1/2" x 22-1/4" Flows included: scalp, sift • Ball Tray Screen Cleaning • Adjustable Bottom Air – Bottom Clean-out Air Door • 1 Hp, 60 Hz, 1800 RPM, TEFC, 1 Phase 115/230 Volt Motor and Drive • Back Air Dust Box Settling Chamber with Filters	
Hygropalm	The perfect solution for on-site water activity measurements to confirm product stability and indicate shelf life Features • Highest-possible measuring accuracy • Guarantees absolute reproducibility • Measures relative humidity and temperature • Calculates all psychrometric values • Two interchangeable probe inputs, digital or analog • 20,000 data point memory • Data capture of 250 data points each for up to 8 defined locations • Probe adjustment direct to dew point reference • Battery charge indicator and recharging function	