



Stability Chambers

Stability Chambers has the following features:

- ✦ Walk-in Stability test chambers are especially designed to carry out stability and shelf life test on drug and drugs substance according to ICH / FDA / WHO guidelines.
- ✦ Double walled Construction with regular and GMP models.
- ✦ Pre-engineered, Pre-fabricated modular panels with 80mm thick 'PUF' insulation with easy-to-assemble panels on site.
- ✦ Inside coating of floor is of either aluminium or stainless steel sheet 10 SWG thick, pressed , non-slip.
- ✦ Perfect insulation and minimum power consumption.
- ✦ Fastenings are cam locks for easy assembly and possible disassembly.
- ✦ The door has two pane toughened glass viewing windows.
- ✦ Stainless steel racks and perforated trays to utilise the chamber for its maximum capacity.
- ✦ A port hole of 50mm dia is provided on the side wall for inserting calibration transmitter.
- ✦ A well balanced 'CFC-free' bypass ducting refrigeration system with eco-friendly refrigerant.

Data acquisition system complying to 21 CFR Part 11

- ✦ Data records and process control systems have Electronic Signature and Electronic Record capability. The controllers have a lockout feature that permits changes through a 21 CFR Part 11 compliant operator station, thus providing the necessary audit trail.
- ✦ Mean Kinetic Temperature value.
- ✦ Password security for log in and door operations.
- ✦ Operators need to enter user name and password before taking any action.
- ✦ Report search option using date and sample name
- ✦ Secure computer generated, time stamped runtime audit trail of batch stop / start,alarm acknowledgments, logins, signature details, configuration changes.
- ✦ Standard networking via Ethernet.
- ✦ User Actions with signing and authorization.
- ✦ Access control according to authority level.
- ✦ Export conversation facility to Excel.

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Stability Test Chambers(Lab Model)

Stability Test Chambers has the following features:

- ✦ Stability Chambers(lab model)are designed to carry out stability and shelf life test on drug and drugs substance according to ICH / WHO / FDA guidelines.
- ✦ Double walled Construction with regular and GMP models.
- ✦ 80mm thick 'PUF' insulation lagged in-between the walls to prevent loss of conditions.
- ✦ The chamber has two doors, inner full view glass door and outer metallic door with positive locking.
- ✦ A port hole of 50mm dia is provided on the side wall for inserting calibration transmitter.
- ✦ A well balanced CFC-free bypass ducting refrigeration system with eco-friendly refrigerant.
- ✦ Easily replaceable air tubular heater to heat the chamber.
- ✦ Low pressure water boiler & water reservoir with float valve & water level switch.
- ✦ Non-condensing water vapours injected into the chamber for humidification.
- ✦ Suitable dehumidification system by refrigeration method to maintain low humidity is provided within the prescribed accuracy.
- ✦ Dynamically balanced chamber circulatory system.
- ✦ Microprocessor based 2 channel multifunctional PID Temperature / Humidity (RH) controller used for processes requiring simultaneous control of temperature and % RH using capacitor type transmitter as RH sensor.
- ✦ The controller provides independent control output in the form of DC pulses for external solid state relays to control air heater, compressor and boiler heater.
- ✦ Separate display for Temperature, Humidity Set point and process values & real time clock.
- ✦ Easy front panel keyboard programmable.
- ✦ Capacity : 200 / 400 / 800 & 1000 Litres
- ✦ Temperature & RH configuration
 - ◆ 25°C / 60% RH.
 - ◆ 25°C / 40% RH.
 - ◆ 30°C / 65% RH.
 - ◆ 40°C / 75% RH.
 - ◆ 40°C / 25% RH.



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B.O.D Cooling Incubator

B.O.D Cooling Incubator has the following features:

- ✦ Application ranges, Biochemical Oxygen Demand, enzymatic, serum & sewage studies, storage of heat-sensitive vaccines, insulin, liver extract, plasma, medicines and ICH stability test.
- ✦ Double walled Construction with regular and GMP models.
- ✦ 80mm thick 'PUF' insulation lagged in-between the walls to prevent loss of temperature.
- ✦ The chamber has two doors, inner full view glass door and outer metallic door with positive locking.
- ✦ A port hole of 50mm dia is provided on the side wall for inserting calibration sensor.
- ✦ A well balanced **CFC-free** refrigeration system with eco-friendly refrigerant.
- ✦ Easily replaceable air tubular heater to heat the chamber.
- ✦ Dynamically balanced chamber circulatory system.
- ✦ Microprocessor based PID temperature controller with PT-100 sensor.
- ✦ Easy front panel keyboard programmable.
- ✦ Temperature range : 5°C to 60°C, $\pm 0.5^\circ\text{C}$.
- ✦ Capacity : 200 / 300 / 400 / 800 / 1000 Liters

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Bacteriological Incubator

Bacteriological Incubator has the following features:

- ✦ Application ranges, research and development laboratories of industry, medicine and biotechnology, incubation of valuable biological products and enzymes.
- ✦ Double walled Construction with regular and GMP models.
- ✦ Easily replaceable air tubular heater to heat the chamber.
- ✦ The chamber has two doors, inner full view glass door and outer metallic door with positive locking.
- ✦ Dynamically balanced chamber circulatory system.
- ✦ Microprocessor based digital temperature controller with PT-100 sensor.
- ✦ Temperature range : 5°C above ambient to 60°C, $\pm 0.5^\circ\text{C}$.
- ✦ Capacity : 90 / 225 / 300 / 400 / 800 / 1000 Litters



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Plant Growth Chambers

Plant Growth Chambers has the following features:

- ✦ Plant Growth chambers are designed to facilitate many botanical and agricultural research applications, including seed germination studies, plant pathology, plant tissue culture studies and plant genetic research.
- ✦ Double walled Construction with regular and GMP models.
- ✦ 80mm thick 'PUF' insulation lagged in-between the walls to prevent loss of temperature.
- ✦ The chamber has two doors, inner full view glass door and outer metallic door with positive locking.
- ✦ A well balanced **CFC-free** refrigeration system with eco-friendly refrigerant.
- ✦ Easily replaceable air tubular heater to heat the chamber.
- ✦ Dynamically balanced chamber circulatory system.
- ✦ Incorporated with microprocessor based programmable PID temperature / humidity control system for accurate control of humidity.
- ✦ Temperature and % of RH are displayed on digital meter.
- ✦ Programmable timer for regulating day / night effect.
- ✦ Temperature range : 10°C to 50°C, $\pm 0.5^\circ\text{C}$.
- ✦ Humidity range : 40% to 95% $\pm 2\%$ RH.
- ✦ Light level : 2,000 TO 16,000 lux

✦ Capacity : 200 / 400 / 800 / 1000 Litters

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Basket Centrifuge



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Vacuum Oven

Vacuum Oven has the following features:

- ✦ Ideal for space limitation due to compact work chamber and integrated control insert.
- ✦ Double walled Construction with regular and GMP models.
- ✦ Thermal insulation lagged in-between the walls to prevent loss of temperature.
- ✦ Stainless steel perforated or non-perforated trays.
- ✦ Uniform drying under vacuum with digital temperature control.
- ✦ Fitted with Vacuum gauge and clear view glass window.
- ✦ The heating elements are wound around the chamber to facilitate uniform dissipation of heat all over the chamber.
- ✦ Vacuum upto 760 mm of mercury.
- ✦ Temperature range : Ambient to 200°C
- ✦ Working size round : 22.5 dia x 30 L cms & 38.0 dia x 45 L cms

Laboratory Oven

Laboratory Oven has the following features:

- ✿ Ideal for wide range of incubating, tempering, thermal storage and drying application.
- ✿ Double walled Construction with regular and GMP models.
- ✿ Thermal insulation lagged in-between the walls to prevent loss of temperature.
- ✿ Ventilator is provided on top for exhaust.
- ✿ The door will be of flush type and will be provided with positive locking arrangement.
- ✿ Heavy duty capacitor run motor with blower circulation provided from bottom of the oven for air circulation inside the chamber.
- ✿ The heating elements are fitted at the bottom of the oven to facilitate uniform dissipation of heat all over the chamber.
- ✿ Digital temperature controller with Cr/Al thermocouple.
- ✿ Working size : 45 x 45 x 45 cms, 60 x 60 x 60 cms, 60 x 60 x 90 cms
- ✿ Temperature range : Above ambient to 250°C, 300°C & 400 °C





Water Jacketed Oven

Water Jacketed Oven has the following features:

- ✦ Ideal for wide range of incubating, tempering, thermal storage and drying application of inflammable material.
- ✦ Triple walled construction with inner and middle chamber form a jacket and made out of thick gauge stainless steel.
- ✦ Water inlet / outlet and overflow provided.
- ✦ Stainless steel water reservoir with float valve is fitted on the rear side of the oven.
- ✦ Thermal insulation lagged in-between the walls.
- ✦ The door will be of flush type and will be provided with positive locking arrangement.
- ✦ Heavy duty capacitor run motor with blower circulation provided on top of the oven for air circulation inside the chamber.
- ✦ The heating elements are wound around the chamber to facilitate uniform dissipation of heat all over the chamber.
- ✦ Digital temperature controller with PT-100 sensor.
- ✦ Working size : 45 x 45 x 45 cms.
- ✦ Temperature range : Above ambient to 80°C.

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Hot Air Drying Oven

Hot Air Drying Oven has the following features:

- ✦ Ideal for wide range of incubating, tempering, thermal storage and drying application.
- ✦ Triple walled Construction with regular and GMP models.
- ✦ Thermal insulation lagged in-between the walls to prevent loss of temperature.
- ✦ Ventilator is provided on top & side wall for exhaust. This can be adjusted according to the requirement.
- ✦ The door will be of flush type and will be provided with positive locking arrangement.
- ✦ Cross flow air circulation for better uniformity and accuracy.
- ✦ The heating elements are fitted on the two sides of the oven to facilitate uniform dissipation of heat all over the chamber.
- ✦ Digital temperature controller with Cr/Al thermocouple.
- ✦ Working size : 45 x 45 x 45 cms, 60 x 60 x 60 cms & 60 x 60 x 90 cms
- ✦ Temperature range : Above ambient to 250°C.



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Cryostat

Cryostat has the following features:

- ✦ Application ranges, research and development laboratories of industry, medicine and biotechnology, incubation of valuable biological products, calibration tests and external circulation.
- ✦ The main reservoir is made of thick gauge S.S. with drain.
- ✦ The bath is having drop-in lid with handle.
- ✦ 'PUF' insulation lagged in between the walls to prevent temperature loss.
- ✦ A well balanced **CFC-free** refrigeration system with eco-friendly refrigerant.
- ✦ Stainless steel water immersion heaters.
- ✦ Thermo stirrer with centrifugal pump driven by heavy-duty capacitor run AC motor helps maintain uniform temperature across the bath media.
- ✦ Can be used for external tempering.
- ✦ Microprocessor based PID temperature controller with PT-100 sensor.

- ✦ Temperature range : +60°C to -80°C.
- ✦ Capacity : 5 / 10 / 15 / 20 Liters

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Orbit Incubator Shaker

Orbit Incubator Shaker has the following features:

- ✦ Application ranges, closed monitoring of temperature and regulated shaking for laboratory research.
- ✦ Double walled Construction with regular and GMP models.
- ✦ Front opening door with double pane window on the door.
- ✦ Microprocessor based PID temperature controller with PT-100 sensor.
- ✦ Easily replaceable air tubular heater to heat the chamber.
- ✦ Dynamically balanced chamber circulatory system.
- ✦ A well balanced **CFC-free** refrigeration system with eco-friendly refrigerant.
- ✦ Shaking mechanism is driven by high torque DC motor.
- ✦ The speed of the rotating platform is continuously variable from 50 to 200 rpm and is indicated on digital display.
- ✦ Rotating platform and lotus clamps are made out of 304 AISI stainless steel.
- ✦ Capacity : For 16/24/36 or more flasks of 250 / 500 / 1000 ml.
- ✦ Temperature range :

- ◆ 5 0 C above ambient to +60°C, ± 0.5°C.
- ◆ 5°C to +60°C, ± 0.5°C.



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Muffle Furnace

Muffle Furnace has the following features:

- ✦ Designed for routine laboratory application such as incineration, backing, drying, annealing, heat treatment of metal and material testing.
- ✦ Low weight, compact design, short heating-up periods, high-grade insulation.
- ✦ Furnace casing of steel sheet, observation hole in the door, vapour vent in the rear.
- ✦ Temperature is accurately controlled and maintained by fully automatic solid state time proportional digital controller with thermocouple.
- ✦ Maximum temperature : 1150°C.
 - ◆ Muffle size : 9" x 4" x 4" Rating 1.5 kw.
 - ◆ 10" x 5" x 5" Rating 2.5 kw.
 - ◆ 12" x 6" x 6" Rating 3.0 kw.
 - ◆ 18" x 9" x 9" Rating 6.0 kw.

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Automatic Ice Flaker

Automatic ice flaker has the following features:

- ✿ Commercial ice flaking machine for ready made ice flakes round the clock.
- ✿ Compact elegant model with corrosion free interior S.S. collecting bin with 'PUF' insulation.
- ✿ Ice making & crushing done simultaneously & collected in a well insulated bin for ready use.
- ✿ User friendly door system.
- ✿ A well balanced CFC-free refrigeration system with eco-friendly refrigerant.
- ✿ Vertical cylindrical evaporator with an auger that extrudes ice flakes.
- ✿ Machine gets automatically cut off when the collecting bin is full of ice flakes thereby saving the power consumption.
- ✿ Auto cut off in case of no water supply. Overload protector for motor and refrigeration system.
- ✿ Capacity : 50/100/200/400 kg per day.



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Deep Freezer

Deep Freezer has the following features:

- ✿ Application ranges, storage and preservation of valuable biological products, enzymes, virus, serum, blood plasma, heat sensitive vaccines, insulin, liver extract, medicines.
- ✿ Double walled Construction with regular and GMP models.
- ✿ 'PUF' insulation lagged in-between the walls to prevent loss of temperature.
- ✿ A well balanced CFC-free refrigeration system with eco-friendly refrigerant.
- ✿ Microprocessor based PID temperature controller with audio-visual alarm for variation in temperature incorporated.
- ✿ Temperature : Down to -86°C.
- ✿ Capacity : 100 / 200 / 300 / 400 / 500 / 800 / 1000 Litres

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Orbital Shaking Incubators

We offer Orbital shaking incubators that are designed as per the I.S. Standards for orbital or reciprocating shaking motion application in the various fields such as medical, agricultural, industrial, research laboratories, hospitals .

Features

- Double Walled Inner SS/Outer MS
- Temperature Range: 10°C to 60°C.
- Controlled by preset dual display electronic digital temperature controller cum indicator
- RPM Range: 50 to 250 RPM Orbital (25 cms)
- Variable Speed Controlled by Digital Display RPM Controller cum Indicator (Permanent Management DC Motor)
- Complete with St. Steel Tray with lotus shaped spring action clamps but without conical flasks.

Models	Capacity in Ltr.
BTI 8a	9 x 250 ml
BTI -8b	16 x 250 ml
BTI -8c	20 x 250 ml
BTI -8d	36 x 250 ml
BTI -8e	9 x 500 ml
BTI -8f	16 x 500 ml
BTI -8g	20 x 500 ml
BTI -8h	36 x 500 ml





Memmert Type Bacteriological Incubator

We offer a premium range of bacteriological incubator, which are constructed using premium grade raw material. Equipped with advanced control facilities, our bacterial incubator finds its application in diverse industries.

Our bacterial incubator is available in the following sizes:

S. No.	Size in inches	(HXWX D) (In Cms.)
1	12" X12" X12"	(30 x 30 x 30 Cm.)
2	14" X14"X14"	(35 x 35 x 35 Cm.)

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BOD Incubator

We provide BOD incubator which are used across various industries. Widely in demand, our BOD incubators are fabricated using premium grade raw material. Available in various specifications and sizes, we can also provide customized options. Sizes available:

S. No.	Size	Dimensions
1	3 Cu. Ft (90 Ltr)	45 x 45 x 50 Cm
2	6Cu. Ft (170 Ltr)	50 x 50 x 70 Cm

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Horizontal Laminar Air Flow

Available in for different models, our horizontal laminar air flow is ideal for culture analysis, bacteriological & virological applications.

Used in the following:

- Hospitals.
- Pharmaceutical.
- Food.
- Beverage.
- Electronic Industries.

Features of laminar air flow horizontal are as follows:

- Convenient
- Clear view through transparent acrylic sheet.
- Front door with full and semi opening option.
- Variable air flow speed to suit individual requirements.

Sturdy

- Epoxy painted inner chamber for longer life.
- Decolam covered ISI marked plyboard cabinet.
- Sealed filler seat for leak resistant operations.

Economical

- Best quality at a reasonable price.
- True value for money.

Specifications:

PARA METERS	MODEL HLF-1	MODEL HLF-2	MODEL HLF-3	MODEL HLF-4
Work table size (usable space) Feet	2 x 2	3 x 2	4 x 2	6 x 2
Chamber				

height Feet

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Vertical Autoclave

We offer a range of autoclave, which are used for sterilizing the steam. Fabricated using qualitative stainless steel and others, our autoclave is known for its durability and superior performance. Available in the following sizes and capacities, we can also provide tailor autoclave as per requirements.

Sizes Available (diameter x height)	Capacity in Ltr.
25 x 45 cm	22
30 x 50 cm	35
35 x 55 cm	52
45 x 60 cm	95
55 x 75 cm	175

Features of autoclave:

- Convenient and reliable method of steam sterilization.
- Inner chamber fabricated with thick S.S.
- Outer Chamber manufactured with M.S/S.S.
- Provided with immersion type heater.
- Lid constructed using S.S. and dies pressed.
- Equipped with pressure gauge, steam release valve and safety valves.
- Pressure controlled using spring valves.
- Supplied with aluminum/S.S. basket.
- Equipped with joint less silicon rubber gasket.
- Working steam pressure upto 15 PSI.
- Operated on 230 Volts A.C. only.

Optional accessories:

- Auto cut off.
- Digital temperature indicator cum Controller.
- Foot lifting arrangement.
- Water level indicator.

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Stability Cooling Chambers

Also known as Environmental Test Chambers / Humidity Control Ovens - Double Walled - Inner SS - Outer MS - 3" Gap Puff insulation; Full length inner glass door for clear inner view Outer metal door with magnetic gaskets & lock. Forced air circulation for uniform temperature throughout the chamber. Dual display preset electronic digital Temperature controller Cum Indicator with cooling system by means of Hermetically sealed Compressor Unit coupled with evaporation Coil and Condenser. Temp. Range 10°C to 60°C 1°C; Humidity Range 40% Rh to 90% Rh 3% Rh.

Order Code	Capacity	
	Cu. ft	Ltrs
BTI - 3a	3 cft	90L

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Environmental Test Chamber

Leveraging on our dexterous workforce, we offer environmental test chamber, which is developed from leak proof materials. Known for their durability and reliability, our test chamber are available in the following standard sizes:

S. No.	Size in Cms.
1	(45 x 45 x45 Cm.)
2	(71 x 45 x45 Cm.)
3	(85 x 50 x50 Cm.)
4	(100x90x90 Cm.)

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Cryostat Baths/ Recirculators

We offer **cryostat bath** that provides a simple and reliable solution for obtaining consistent results. Available in varied configuration and specific requirement of our clients, below mentioned are the technical details of our products:

Order Code	Capacity	
	Cu. ft	Ltrs
BTI - 3a	3 cft	90L
BTI - 3b	6 cft	180L
BTI - 3c	10 cft	300L

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Constant Temperature Water Bath

We offer a premium range of constant temperature water bath, which are known for their efficient operations and maintenance free operations. Available in various sizes, we can also provide made to order water bath as per client's requirement.

Size Available:

S. No.	Capacity	Dimensions
1	2 rack	25x15x17 Cm
2	4 rack	35x 25 x 17 Cm

Features:

- Double walled construction.
- Stainless Steel fabricated inner chamber and lid.
- Outer chamber constructed with powder coated mild steel.
- Glass window fixed on the front for both sides, to provide a clear view during the immersion test.
- To prevent heat loss, there is high grade glass wool between the chambers to minimize the loss of heat.
- Working temp. range from ambient to 100°C, which is controlled by digital temp, indicator cum controller with $\pm 0.5^{\circ}\text{C}$ of accuracy.
- For continuous stirring and maintaining uniform heating throughout the chamber, there is speed stirrer motor 1/20 HP is fitted in the unit.
- The heating mechanism comprises of set of heaters.
- Designed for external circulation to maintain constant temp and immersion requirements.
- Operates at 230 Volts AC only.





Memmert Type Hot Air Oven

Our hot air ovens are constructed using premium grade raw material like stainless steel and other materials. Known for their sturdy construction and functional accuracy, our hot air ovens are available with various optional accessories.

Available standard sizes:

S. No.	Size in inches	H x W x D (in cms)
1	12" X12" X12"	(30 x30 x30 Cm.)
2	14" X14" X14"	(35 x35 x 35 Cm.)
3	18" X18" X18"	(45 x45 x45 Cm.)



Round Vacuum Oven

Developed by using sophisticated techniques, our round vacuum oven is fabricated using qualitative stainless steel. Used in diverse industrial applications, our ovens can be made tailored as per the requirements of our clients.

Specifications of vacuum oven:

- Double walled.
- Inside chamber constructed with thick stainless steel 304 Quality.
- Out side chamber manufactured with mild steel sheet pre greased, pretreated and powder coated for rust proofing.
- Proper glass wool insulation between the chambers to prevent heat loss.
- Operating temperature ranges from 50°C to 200°C with -2°C accuracy. Uniform drying through vacuum.
- Precise Vacuum control upto 30Hg, which are displayed on Analog gauge.

- For quick and uniform heating, the vacuum chamber is fitted with set of high quality heaters.
- Digital temp indicator cum controller helps in controlling the temperature.
- The Door has a thick tempered toughened glass window and is properly sealed with silicon rubber gasket for observation without disturbing thermal condition.
- Control panel on the front panel, with temperature controller, switches and indicating lamps.

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Muffle Furnace

We are one of the top-notch providers of muffle furnace, which are widely used in chemical and other industries. Constructed using qualitative materials, our muffle furnace are available in customized options, as per the specifications provided by our customers.

Features of muffle furnace:

- Light weight and fast heating equipment.
- Beneficial for ashing, fissions, igniting and heat treating of small parts in chemical, industrial fields, colleges.
- Out side body fabricated with heavy gauge M.S /G.I duly powder coated.
- High temp insulating material used for inner muffle.
- Maximum temperature capacity 1000°C/1200°C.
- Working temperature 930°C/1130°C.
- Heating elements made up of kanthal wire, extremely beneficial for the muffle.
- Digital temperature controller cum indicator used for controlling temperature
- Uniform distribution of heat with kanthal wire.
- Control panel equipped with indicating lamps & switches.
- For protecting the elements in case of over heating,

there is a special solid state silver fuse.

- Operates on 230 Volts A.C only.