



ESTEEM INDUSTRIES INC.

AN ISO 9001:2008, ISO 13485, CE, FDA, WHO - GMP, NSIC & DGS & D Registered

ESTEEM MEDINCEPTION LTD.



The Global Scientific Group

Laboratory & Medical

Equipment Manufacturers



CE FDA

Certificates





ESTM- 101 ESTEEM MORTUARY CABINET

Mortuary storage system is designed for storing cadaverous under cool condition to prevent decomposition. The latest development in Mortuary technology offering vast space advantage over the conventional type together with greater hygiene Useful for Hospitals, Railways & Airports Double-walled with mild steel/pre fabricated panels for out surface and stainless steel inner chamber with insulation between. Front opening, hinged insulated doors lined with magnetic gasket, handle and lock arrangement with keys in duplicate individual dead bodies. Trays to carry dead bodies with handles both ends, travel on rollers fitted for easy movement. Extra surface in chemically treated, antitrust coated and duly with powder coated paint. To avoid any moving part inside cabinet, for easier maintenance and cleaning refrigeration unit kept outside the chamber and fixed at rear. Temperature of 2°C +5°C is maintained by hermetically sealed refrigerator compressor unit and is controlled by an automatic electronic solid state digital temperature controller cum indicator Temperature controller is mounted on front panel, provided on front top, along with pilot lamp, main switch etc. Supplied complete with trays, cord and plug. Suitable to work on 220 V, single phase, 50 Hz, Ac supply.

Our mortuary chambers are made of corrosion free metal components with advance poly urethane insulation ensuring maximum thermal efficiency and durability. We specialize in both standard and customized models of mortuary chamber specially designed to meet various special requirements of our customers across India and abroad. Over a short period of time Esteem have been established as leading exporters of mortuary chambers in India, catering to South Asian, African And European Markets. Beside the regular exports we are also catering to our domestic market and are suppliers of our mortuary chambers to various army installations, central and state police units, Para military establishments, government, semi government and private hospitals and morgues etc.

The various capacity Mortuary Chambers that we offer.

- | | | |
|----------------|---------------|------------------|
| a) Single Body | b) Two Bodies | c) Three Bodies |
| d) Four Bodies | e) Six Bodies | f) Eight Bodies |
| g) Nine Bodies | h) Ten Bodies | i) Twelve Bodies |



SALIENT FEATURES:

- Corrosion free exterior and interior
- Designed for long storage of cadaverous
- Environmental friendly CFC free cooling
- Micro processor based temperature control
- Audio visual alarm for high and low temperature
- Special loading trolley
- PUF insulation
- Reliable
- Sturdy Construction
- Light Weight
- Digital temperature indication
- Special design ensuring best hygiene
- Energy Efficient
- Low Maintenance
- Door with glass

CONSTRUCTION DETAILS:

Esteem mortuary chamber is double walled cooled units. Outer body of our mortuary chambers are constructed out of thick steel/ aluminum sheets, painted with long lasting stove enamel or elegantly powder coated.. The inner chamber is made of heavy gauge stainless steel sheet of SS-304 grade or anodized aluminum sheet or G.I. (as per the customer's requirements). The 100 mm gap between the walls is filled high grade poly urethane insulation, which ensures maximum thermal efficiency.

OUTER PANELS :

The outer panels of all our mortuary chambers are made of SS-304

INTERIOR CONSTRUCTION :

The interior of our morgue chambers are constructed of high grade stainless steel sheets of grade ss-304, thus making it easier to clean and ensure greater stability and life

DOOR :

The doors are connected by very sturdy chrome plate hinges and fitted with hard chrome plated lubricated latches for opening the door. The doors are made of galvanized steel sheets, lined with stainless steel for extra protection and long life. All the doors are fitted with high quality neoprene rubber gaskets for air tight fittings



FLOOR :

The floor of our mortuary chambers are constructed out of hardened and reinforced steel sheets containing spills for easy cleaning and hygiene.

CASTORS :

The unit is provided with very sturdy castors

INDIVIDUAL LOCKS :

All the chambers of the mortuary freezers are provided with individual multi channel lock for safety and security

COOLING :

An energy efficient cooling unit is installed in our mortuary chambers. We use ISI marked high end CFC free compressors of Kirloskar / Tecumseh make, conforming to latest international standards and guidelines

TEMPERATURE RANGE

Temperature range of our standard mortuary chamber models are 20 c to 80 c. / -150 c to +100 c. However we have the capacity to modify the same to suit the individual specialized requirements of our customers.(The above given temperature could be achieved too)

TEMPERATURE CONTROL :

The temperature inside our mortuary chamber is controlled through programmable micro-processor based temperature controller cum indicator.

TEMPERATURE SENSITIVITY :

Temperature inside our chamber is controlled with a sensitivity of + 10 c or better

AUDIO VISUAL TEMPERATURE ALARM :

An audio visual temperature alarm is provided in the unit for protection during temperature fluctuations.

ILLUMINATION

Our mortuary chamber are provided with door operated illumination system comprising of fluorescent lights



FRONT PANEL :

Front panel of our units comprises of on/off switches cooling and mains indicator lamps, temperature controllers and voltmeters.

TECHNICAL MATRIX FOR MORTUARY CHAMBER

TEMPERATURE CONTROL

Temperature Sensitivity \pm °C, 1 or better

Spatial Deviation In Temperature \pm °C, 1 or better

Readability °C, 0..1

Temperature range °C, 2°C to 8°C/-15°C 8°C (Standard

Temperature Sensor, PT-100

Temperature Controller, Solid State digital Controller/PID

Display, optional

Adjustable alarm limits, LED/LCD

Water quality, Optional With PID controller only

SAFETY THERMOSTATS, Distilled / Ionized

Temperature variation Adjustments

Temperature Sensors, 3 (With PID Controllers only

Automatic temperature setting, PT-100

Adjustable limits, Yes (With PID Controllers only





CONDENSER

Efficient condenser with automatic

Air Circulation, evaporating system (condensate

Refrigerant: Lux, Forced

Light intensity (Both Sides): Lux, R134A Non CFC

ACCESSORIES, As Desired (optional feature)

de-icing module

Program (Real Time), OPTIONAL

Data Acquisition Program, OPTIONAL

Serial Port (Printer): RS232C, OPTIONAL

Inspection window in door

Water reservoir: Liters, OPTIONAL

CAPACITY, 18 LTRS

Standard

Internal Dimensions: mm, 1/2/3/4/6/8/10

Maximum Permitted load per shelf: kg, Model Specific

Maximum Permitted total load: kg, 155 Kg

ACCESSORIES

Printer Report Program

2 x 24 characters LCD Display, OPTIONAL

Access Port 30 mm, OPTIONAL

Castors, lockable, OPTIONAL

POWER CONSUMPTION, YES

Nominal power : W

Nominal voltage: V, 950-1450

Frequency: HZ, 220-230 Volts, 50 Hz Single Phase





ESTM- 101 ESTEEM MORTUARY CABINET

Specification :

1. DESIGN REQUIREMENTS :

- 1.1 The cadaver box assembly for two bodies will be full SS construction (SS grade 304), both inside and outside surface. All accessories and parts will be SS unless otherwise specified and the entire structure will be designed to carry the total load of the number of cadavers, trolley, compressor, UPS & other accessories.

The arrangement for two body cabinet will be vertical- one above one

- 1.2 The compartment insulation will be designed for a maximum heat gain of 5 °C per hour with 100 lt of water at 5 °C in the compartment with outside ambient temp of 35 °C.

- 1.3 Each compartment, will be designed for storage of one cadaver will be fully enclosed and isolated from other compartments and each compartment will have a separate lockable door with required gaskets and handles.

- 1.4 The minimum dimensions of the box (inside clear) will be: Depth- 2250mm, width-900mm, Height- 600 mm the minimum dimension of clear opening will be: width-650mm (clear of door leaf overlap, if any);

height – 500 mm (clear above the highest point of the cadaver tray)

- 1.5 Each compartment will be provided with a full SS construction cadaver tray with inbuilt holding/lifting arrangement, designed to carry the specified cadaver weight. The tray will be shaped to keep the cadaver in position without rolling off the tray, during placement on tray and box and retrieval. This may be concaved in a curve with rounded edges or with sloped edge plates at an obtuse angle, with rounded edges, to avoid damage to the cadaver skin. The minimum tray size, exclusive of lifting arrangement and sloped edge (the actual cadaver holding size) will be as below: Length -1900 mm, width- 600mm.

- 1.6 A sliding arrangement designed to carry the specified maximum cadaver weight (160 Kg) and the cadaver tray weight will be provided. The arrangement may be a telescopic channel arrangement fixed to the bottom or sided of the box or cradle with wheels with movement limiter. The sliding arrangement will allow to full slide out the whole cadaver tray in such manner that the inner tray handle is clear of the cadaver box / door or any other fixture by at least 150mm, without causing any sag or instability to the cadaver box/sliding mechanism / cadaver tray or need for additional support so that the tray with cadaver loaded on it can be lifted and carried easily, for transfer.

The specified maximum cadaver weight is 160 Kg.

- 1.7 The inside finish of the box, along with the slider and cadaver tray will be fully washable, free from sharp edges, corners or projections where wash water of debris may accumulate. A drain with an open able plug with collection funnel or valve, with BSP threaded end connection will be provided for extension of the drain. The floor will be properly shaped and sloped for full drainage of wash water.

- 1.8 The entire structure of the cadaver box of 2 body will be provided with SS level adjusting feet so that a clear space of minimum 200 mm is achieved between the box bottom outer surface and floor.

- 1.9 Each compartment will be refrigerated using individual CFC free, hermetically sealed refrigeration compressor and fan coil unit of required capacity to achieve the cooling capacity and temperature range as specified. The specified cooling capacity will be minimum 6000 BTU/Hr. or equivalent to lower the temperature of 100 lits. Of water from 35 °C to 5 °C in maximum three hours.

The temperature range specified is 2 °C to 5 °C.

The refrigeration unit would be so designed that the cadaver compartment is frost free. A drain tray for collection and drainage of condensate from the cooling coil and insulated drainage pipe, with "U" liquid trap will be provided. The drain pipe end will be compatible for extension with BSP threaded plumbing pipe & fixtures. Each refrigeration unit will be serviceable and maintained independently without disturbance in operation of operation of any of the other unit/compartments.

- 1.10 Each compartment will have an independent digital temperature controller and display unit. The controller will maintain the temperature of the compartment with in the specified range. The indicator and controller will have an accuracy of $\pm 0.5^{\circ}\text{C}$, factory calibrated, with calibration certificate. The thermostat differential temperature will be 2 to 3 °C to avoid fast hunting of compressor. The display will indicate temperature in °C, with a refresh of 10 to 15 times per minute.

- 1.11 Each compartment will have one LPMV-UVC type ultraviolet light, IP-55 rated (water jet proof), for disinfection of the cadaver box, which would be inactivated upon opening of the cabinet door, by a limit switch or proximity sensor. Additional override switch will be provided on the front panel for maintenance & servicing.

- 1.12 Each compartment will have one bulk head IP-55 rated (water jet proof) light, for general illumination inside the cadaver box, which would be activated by a switch provided on the front panel.

- 1.13 A common, pure sine wave output UPS and batteries of required capacity rating for continuous operation of all the cadaver boxes refrigeration and instrumentation for a period of minimum 3 Hrs. backup will be provided or 2000 VAH per body, whichever is more. The batteries will be sealed maintenance free type in required configuration and number to achieve a minimum capacity of 2500 VAH per and UPS will be rated for 3000 VA per body cabinet.





2. CONSTRUCTION DETAILS

- 2.1 All sides (to bottom, front, back & sides) of the cadaver box and its door will be manufactured using double walled stainless steel (SS304), with high pressure injected polyurethane foam (PU). The PU foam will be minimum density of 40 KG/ M³. All edges will be closed with SS sheet. All joints and corners ground smooth. The individual sheet thickness will not be less than 1mm.
- 2.2 The SS level adjusting feet will be minimum 20 mm OD, bullet type, with minimum level adjustment range of 25 mm. the attachment to the body of the box will be stiffened using SS 304 angle/ channel or other suitable Section.
- 2.3 The temperature controller and display unit will be mounted on the front of the unit. Corresponding to each body box. All wiring will be carried through concealed conduits. The temperature sensor probe will be located at the top surface, minimum 2/3 distance of the box inside, reckoned from the fan coil unit or approx. 600-750 mm from the door.

- 2.4 The UVC light will be installed in the center of the cabinet mounted on the top side.
- 2.5 The general illumination light will be installed 300-450mm from the door mounted on the top side.
- 2.6 The temperature controller/ indicator will be mounted on the front of the cabinet, besides or above or below the door and following indicators & control switches will be provided LED or back LED temperature indicators 2.5 or 3 digital, minimum 6mm character height LED / bulb type indicators for incoming power, compressor on & fault indicators.
- 2.7 The door will provided with EPDM or silicon rubber gasket and compression mechanism to achieve an air light closure. The compression mechanism may be built in the closing/ opening handle or alternately opening handle may be built up using the door material with a separate fixture for achieving gasket compression and sealing. All such fixtures and hardware will chrome plate brass or pressing die cast aluminium / Zinc alloy.
- 2.8 The refrigeration unit would be integrated or rigidly affixed to the cadaver box, located / mounted on top or back of the entire unit. The unit enclosure will have ventilation openings and removable inspection and maintenance covers, located and sized for proper servicing the UPS and batters, if placed on the unit will be provided with acid proof base material to protect the cadaver box body. In case the UPS will be placed and maintenance.
- 2.9 The UPS and batteries, if placed on the unit, will be provided with acid proof base material to protect the cadaver box body. In case the UPS and battery is supplied as standalone unit, the batteries and UPS will be placed on a fabricated stand made of SS 304 angles or other suitable sections to carry the full weight/load, with dimensions to ensure stability and ease of servicing. All wiring to the UPS will be properly harnessed or secured in conduits, and the arrangement will not allow wires to touch the floor.





ESTAT -101 ESTEEM AUTOPSY TABLE

- Frame work of Postmortem Table constructed with Strong stainless steel 304 grade of SS material.
- Top is constructed of postmortem table made with stainless steel sheet, with high boarder.
- Provided with a built stainless steel sink, connected waste tube.
- Provision of hot and cold water shower Tap.
- An electricity board connection attached with postmortem table for On/ Off geezer and other operation.
- Four stainless steel flat accessories for performing different action such as neck, shoulder, legs cutting etc.

Dimensions

- Overall size of postmortem table: 2500 (L) x 850(H) mm.

Finishing

- Stainless Steel Mirror Buffer finishing.

Packing Detail

- Table packed in heavy duty wooden boxes, after folding the table.

Other features

- Easy to moveable.
- An ISO certified product.
- Legs section of the table is making in folding position.
- Easy and fast assembly.
- Tool kit for assembling the stand.



Technical Specifications :

- For entire sterilization required places
- 304 grade stainless steel
- Hydraulic lift system with handle
- Able to lift up to 150 Kgs.
- Easy to access to first, second and third cells of morgue unit
- Four castors with two brakes

Dimension (WxDxH) : 640 x 2020 x 380 / 1700mm.

Weight : 230 KG

Technical Specifications :

- For entire sterilization required places
- 304 grade stainless steel
- Hydraulic lift system. Able to lift up to 150 Kgs.
- Chargeable battery and can be used up to one week without charge
- 220 V electric input. Supplies electric power in case of electric cut
- Easy to access to first, second and third cells of morgue unit
- Four castors with two brakes
- Dimension (WxDxH): 600x2040x380/1700mm.



Technical Specifications :

- Frame work constructed with stainless steel material.
- Top is made with stainless steel sheet, with high boarder.
- A shelf is provided under the top.
- Mounted on 100 mm swivel castors, two with breaks.
- Provision for drainer hole with tube for drainer hole with tube for waste liquid.
- Overall size: 2400 (L) x 800(W) x 850(H) mm.



ESTEEM AUTOPSY SAW

- Autopsy Saw is the instrument of choice for most prosectors faced with removing the brain. The blade reciprocates rapidly with a small amplitude. This action prevents the saw from cutting soft tissues, notably the prosector's hand.
- A well balanced and lightweight autopsy saw, has a powerful 17,000 rpm motor that swings at 32,000 oscillations per minute. Easy to handle and cuts quickly to minimize operator fatigue. The high speed oscillating action quickly cuts through bone without harming soft tissue.
- The saw is an essential instrument for pathologists. It may be used for removing the skull cap, making linear cuts, or taking small bone specimens.
- Ships complete as a — 115V with 2.5in/6cm diameter round blade with arbor, wrench and manual

ESTEEM-100 ESTEEM EMBALMING MACHINE



- With the advanced Technology of Automatic Pressure Control (APC) capability that automatically self-adjusts to manage various sources of vascular resistance during embalming.
- Inject at low pressure or use high pressure, to overcome blockages.
- Pump is an industry standard and works with magnetic drive.
- Your optimum solutions are ensured by a mixture of automatic.
- Ultra quiet operation while injecting.
- Built in rate of flow-meter. Now you'll really have control of your injection process.
- Choose between pulsing (i.e. a pumping rhythm similar to the cardiac cycle) or continuous injection.
- Completely stainless steel cabinet. DODGE quality components and construction, and the DODGE warranty.
- Quick release injection tubing. Easy to detach, drain, coil, and store in tank. Or use the hose clip on front of the machine.
- Easy access to the in-line filter.
- Integrated tank with lid: ca. 7 liters.
- Recessed and reinforced carrying handles allow the machine a light moving.
- Hose complete with adapter and stopcock to accommodate threaded or Luer-lock arterial tubes.



ESTP-121

ESTEEM POSTMORTEM KIT :

Esteem Post Mortem Kit in Metal Box consist :

- Stainless chopper
- Autopsy knife curved, 21.5 cm, stainless, with plastic handle
- Skinning knife curved, 15 cm, stainless, with plastic handle
- Boning knife, pointed, 15 cm, stainless, with plastic handle
- Sharpening steel, 25 cm
- Spine wrench, stainless
- Cartilage knife
- Post mortem hammer
- Bone scissors, stainless, 23 cm
- Nursing scissors, 14 cm
- Rochester pean, straight, 16 cm
- Metal box with tray
- Bone Saw, stainless
- Brain knife , stainless
- Bone chisel, stainless
- 3 scalpels
- Bowel scissors
- Straight scissor B/P, 16 cm
- Tape measure 2m
- Complete kit



ESTEEM BONE CUTTER

Bone cutter is a surgical instrument used to cut or remove bones. Unpowered bone cutting implements include varieties of hacksaw and sabre saw. In many applications, the saw is used in specialized jigs to provide accurate, measurable cuts, e.g. in knee surgery. Specialized saws such as the Gigli saw, a cable made of sharp strands of wire, are also used in some procedures.

AUTOPSY INSTRUMENT



Sharp-Sharp Curved



Sharp-Sharp Straight



Farabeuf Rugine 6 1/4"



Heygroves Bone Holding Forceps 8", 10", 12"

AMPUTATION SET



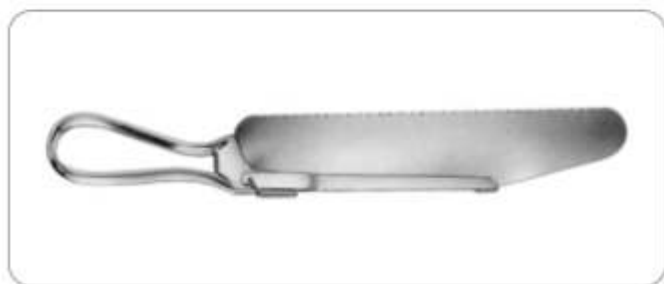
Liston Bone Cutting Forceps 7 1/2", 8 3/4"



Sequestratum Forceps 7 1/4"



File Large 8 3/4"



Amputation Saw With Hinged Back 9"

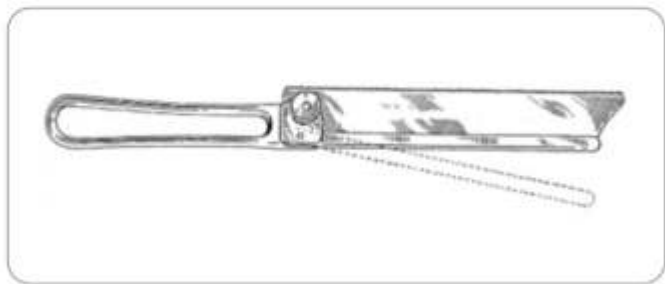
AMPUTATION SET



Amputation Shield 7"



Penny Baker Rongeur 6"



Army Regulation Amputaion Saw 7"



SS TRAY 23" X 20 1/2"



The Global Scientific People

ESTEEM INDUSTRIES INC.

AN ISO 9001:2008, ISO 13485, CE, FDA, WHO - GMP, NSIC & DGS & D Registered

ESTEEM MEDINCEPTION LTD.

WORKS & HEAD OFFICE : 2EF, EPIP, PHASE-I, JHARMAJRI, BADDI- 174103 H.P. (INDIA)

P 01795-271037, 01795-271038 **F** 01795-271436 **E** info@esteem.ind.in & esteem.lab@gmail.com

W www.esteem.ind.in / www.esteemind.com