INDUSTRIAL FURNACE

No leaflet can do justice to the vast range of Furnace and Kilns manufactured by SHIVANG (The sketches on this page are a small selection of the many types available) Each plant is individually designed to meet the specific requirements, related to process of the customer, fuel, method of job handling, safety requirements, through output etc.

INHERENT DESIGN FEATURE :

- Robust MS shell to withstand continuous operetion.
- Specially designed, self-locking type door.
- Heating elements operating on low surface load for longer element life and continuous trouble - free furnace operation.
- Refractory and insulation of high quality bricks / ceramic fibre for energy conservation. Heat loss prevention by asbestos rope for door.
- Prefect temperature uniformity in the furnace useful space.
- Automatic temperature control by digital controller.
- Electrical Switch Gear items of reputed make, along with controller housed in aesthetic Control Panel.
- Safety interlocks and protection devices for safe furnace operation.

AREA OF APPLICATIONS :

HIgh / Low temperature Tempering, Annealing,
Heat Treatment, Ceramic ware Biscuting & Glazeing
Carburizing, Nitriding & many more.

CHAMBER SIZES :

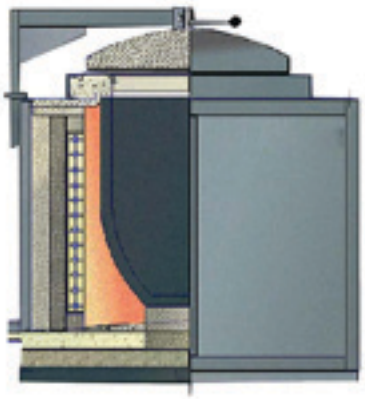
Custom - built to suit customer's specific requirements.

TEMPERATURE RANGES :

Up to 950°C
Up to 1150°C
Up to 1400°C

HEATING MEDIA :

Electrical / Gas / Oil



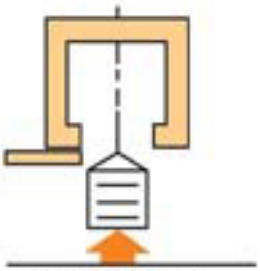
Development is constant process at "SHIVANG", Specifications and Data mentioned above may change without any prior notice.

WE CAN MANUFACTURE ANY SIZE AS PER CUSTOMER SPECIFICATIONS

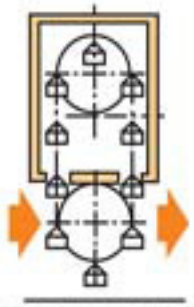
INDUSTRIAL OVEN

FRONT LOADER

TOP LOADER



BOTTOM LOADER



VERTICAL CONVEYOR

No leaflet can do justice to the vast rage of Ovens and Dryers manufactured by Shivang (The sketches on this page are a small selection of the many types available) Each equipment is individually designed to meet the specific requirements, related to process of the customer, fuel, method of job handling, safety requirements, through output etc.

INHERENT DESIGN FEATURE :

- Sturdy Construction
- Mild Steel (Stainless steel above 350°C)
- Mineralwool Insulation Material
  (in conjunction with Ceramic fibre above 550°C)
- Panel mounted controlgear with optional Safety controls
- Manual or Powered door operation.

AREA OF APPLICATIONS :

SHIVANG equipments are designed for many industries including, Aerospace, Aluminium, Brass, Ceramics, Electronics, Ferrous metals, Finishing, Foundry, Glass, Motor rewinding, Plastics, Paint curing, Powder coating, Rubber and, Trade heat treatment.

CHAMBER SIZES :

From 600 x 600 x 600mm upwards, units too large to transport in one piece are manufactured in sub-assemblies for final erection on site.

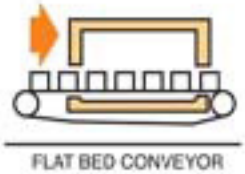
TEMPERATURE RANGES :

200°C, 400°C, 550°C, 750°C
(above 750°C Custom built
Furnaces are available)

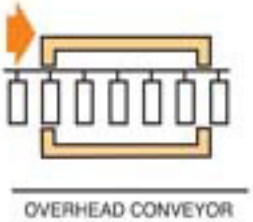
HEATING MEDIA :

Electrical, Gas/Oil, Direct or Indirect fired, Steam/Thermic Fluid.

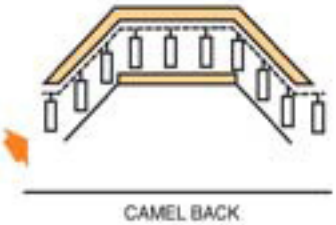
TUNNEL TYPE



FLAT BED CONVEYOR



OVERHEAD CONVEYOR



CAMEL BACK

WE CAN MANUFACTURE ANY SIZE AS PER CUSTOMER SPECIFICATIONS

TRAY DRYER / DEHYDERATOR

Inherent Design / Construction Features

CABINET
Cabinet of the Dryer / Dehyderator will be fabricated out of Mild Steel Angle frame with double wall construction. The chamber will be lined internally and externally with 18 SWG Mild Steel sheets. Cavity formed in between double wall will be properly insulated with 60 mm thick Mineral Wool to prevent heat losses from Dryer / Dehyderator. We can also offer the Dryer / Dehydrator with inside lining options of Stainless Steel and Aluminum.

DOORS
Heavy duty airtight hinged doors made from 16 SWG MS sheet backed by 50 mm Mineral wool on the inner side and ball catch locking arrangement together with 40 mm asbestoses gasket rope ensure sturdy construction of the Dryer / Dehydrator.

AIR CIRCULATION
The uniform air circulation within the Dryer / Dehydrator will be carried by multi blade type fabricated fan mounted on externally on ball bearing pedestal and driven by TEFC Electric motor. Air inlet and outlet dampers are provided on the top roof of the Dryer / Dehydrator cabinet.

STEAM / THERMIC RADIATOR
Fins Tube Type Steam Radiator will be provided inside the oven. The radiator will be made of 16 SWG ERW tube with 26 SWG CRCA MS Fins at 6 FPI. The tube will be expanded after fining.

HEATERS
Strip type heaters will be provided along the side. The heaters are suitable to be operated on 415 Volts, 3 Phase, 4 Wire system.

CONTROL PANEL
Pre wired control panel will be consisting of Temperature Indicating controller, Contactor for heater & Motor, Fuses, Indicating lamp, Push buttons, Main isolator switch etc.

TROLLEYS / RACKS
The structure for the heavy duty trolleys will be made from 40 mm MS angle and horizontal support will be of 25 mm angle. The design of trolley will be good enough for the proper hot air circulation. The trolley will be fitted with 2 Nos. castor wheels and 2 Nos. fixed wheel for the easy movement.

PAINTING
The Dryer / Dehydrator will be spray painted with two coats of high temperature resistance Aluminum paint and the outside cabinet will be coated with Red oxide backed by hammer tone finished paint.

Technical Specifications

DIMENSIONS - INSIDE						
- WIDTH	550 MM	550 MM	1050 MM	1050 MM	2100 MM	2100 MM
- DEPTH	880 MM	880 MM	880 MM	880 MM	880 MM	1800 MM
- HEIGHT	400 MM	990 MM	990 MM	1800 MM	1800 MM	1800 MM
WORKING TEMPERATURE	150°C	150°C	150°C	150°C	150°C	150°C
CONSTRUCTION INSIDE	MILDSTEEL / AISI-304 / AISI-316 / ALUMINIUM AS PER BUYERS CHOICE					
OUTSIDE	MILDSTEEL / AISI-304 / AISI-316 AS PER BUYERS CHOICE					
NO. OF DOORS	ONE	ONE	ONE	ONE	TWO	TWO
NO. OF TROLLEYS	ONE	ONE	ONE	ONE	TWO	FOUR
NO. OF TRAYS	6	12	24	50	100	200
NO. OF FANS	ONE	ONE	ONE	ONE	TWO	FOUR
FAN HP / EACH	0.5 HP	1 HP	1 HP	1 HP	1 HP	1 HP
TYPE OF HEATING	ELECTRICAL / STEAM / OIL OR GAS BUILT IN HOT AIR GENERATOR					
HEATER RATING	4.5 KW	6 KW	9 KW	12 KW	21 KW	42 KW
POWER SUPPLY	415 VOLTS, 3 PHASE, 4 WIRE					

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SHIVANG FURNACESANDOVENS

LABORATORY OVENS

INHEREANT DESIGN FEATURE

Sturdy Construction
Steel Lined (Stainless steel above 350^0 C)
Mineralwool Insulation Material
(in conjuction with Ceramic fibre above 550^0 C)
Panel mounted controlgear with
optional safety controls.

CONSTRUCTION DETAIL

Mild Steel Outer Casing
Mild Steel / Aluminum / S.S. Inner Casing
Double / Triple Wall Construction

CHAMBER SIZES

300 X 300 X 300 MM
400 X 400 X 400 MM
450 X 450 X 450 MM
450 X 450 X600 MM
600 X 600 X 600 MM
600 X 600 X 900 MM
750 X 750 X 900 MM
900 X 900 X 900 MM

TEMPERATURE

Up to 250° C
Up to 300° C
Up to 500° C

TYPES

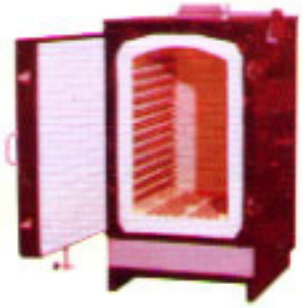
Natural Convection
Hot Air Circulation,
Hot Air Recirculation

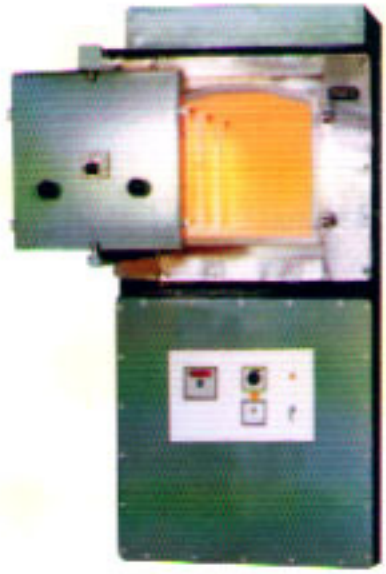
OPTIONS

Temperature Recorders,
Programmable Controllers,
Oven Furniture.

WE CAN MANUFACTURE ANY SIZE AS PER CUSTOMER SPECIFICATIONS

LABORATORY FURNACES





FURNACES up to 1200°C

MODEL	CHAMBER SIZE (INSIDE WORKING)			POWER		
	WIDTH	HEIGHT	DEPTH	950°C	1150°C	1200°C
SMF - 3	100 MM	100 MM	225 MM	1.8 KW	2.0 KW	2.2 KW
SMF - 4	125 MM	125 MM	250 MM	2.0 KW	3.0 KW	3.5 KW
SMF - 6	150 MM	150 MM	250 MM	3.0 KW	4.5 KW	4.8 KW
SMF - 12	200 MM	200 MM	300 MM	4.5 KW	4.5 KW	4.8 KW
SMF - 27	300 MM	300 MM	300 MM	6.0 KW	6.0 KW	7.5 KW
SMF - 54	300 MM	300 MM	600 MM	7.5 KW	7.5 KW	9.0 KW
POWER SUPPLY	220 VOLTS 1 PHASE, 2 WIRE UP TO 4.8 KW. 415 VOLTS, 3 PHASE, 4 WIRE ABOVE 4.8 KW.					

TECHNICAL SPECIFICATION

- **SHELL OF THE FURNACE**
  THE SHELL OF THE FURNACE WOULD BE FABRICATED OUT OF 1.2 MM THICK MILD STEEL SHEETS REINFORCED WITH MINIMUM 35X35X5 MM ANGLES. THE FRONT OF THE FURNACE WOULD BE FABRICATED OUT OF 1.6 MM THICK MILD STEEL SHEETS.
  ALL MILD STEEL MEMBERS WILL BE WELDED AND OR BOLTED TOGETHER AS PER OUR STANDARD PRACTICE. WHENEVER REQUIRED TO CONSTRUCT A STURDY STRUCTURE.
- **HEATING CHAMBER**
  THE HEATING CHAMBER WILL BE MADE OUT OF CAST REFRACTORY MUFFLE. THE MUFFLE WILL BE CAST WITH SPECIAL GRADE REFRACTORY CEMENT TO WITHSTAND TEMPERATURE UP TO 1300 DEG. C.
- **HEATING ELEMENTS**
  SPIRALLY SHAPED, HELICAL WOULD HEATING ELEMENT WILL BE MADE OUT OF SUITABLE GRADE OF FE.CR.AL HEATING ELEMENT ALLOY WIRE, HAVING SUFFICIENT CROSS SECTION AND DESIGNED TO OPERATE OF SAFEST SURFACE WATT LOADING FOR ENHANCE ELEMENT LIFE.
- **INSULATION**
  THE HEATING CHANBER WOULD BE INSULATED WITH A VARIOUS LAYERS OF COLD AND / OR HOT FACE INSULATING BRICKS FOLLOWED BY CERAMIC / MINERAL WOOL INSULATING MATERIAL AS PER OUT STANDARD PRACTICE.
- **CONTROLS**
  THE FURNACE WILL BE CONTROLLED WITH A THERMOCOUPLE SENSED DIGITAL TEMPERATURE CONTROLLER AND AIR BRAKE MAGNETIC CONTACTOR. THIS CONTROL EQUIPMENT / INSTRUMENTS WILL BE PROVIDED JUST BELOW THE FURNACE CHAMBER.

FURNACES up to 1500°C

GENERAL FEATURES :

- SILICON CARBIDE HEATING ELEMENTS IN MATCHED SETS ENSURE BETTER TEMPERATURE UNIFORMITY AND LONGER ELEMENT LIFE.
- ELEMENTS CAN BE MOUNTED HORIZONTALLY OR VERTICALLY.
- HOT FACE LINING MADE OF SPECIAL REFRACTORY BRICKS FOLLOWED BY HIGH DENSITY CERAMIC FIBRE INSULATIONS OF DIFFERENT GRADES.
- THYRISTORISED POWER CONTROLS
- MICRO-PROCESSOR BASED PID TEMPERATURE CONTROLLER / PROGRAMMER WITH THERMOCOUPLE THROUGH REAR / ROOF OF HEATING CHAMBER.

MODEL	CHAMBER SIZE (INSIDE WORKING)			POWER (IN KW)		
	WIDTH	HEIGHT	DEPTH	1400°C	1450°C	1500°C
HSMF - 3	100 MM	100 MM	225 MM	2.0	3.0	3.5
HSMF - 4	125 MM	125 MM	250 MM	3.0	4.5	4.8
HSMF - 6	150 MM	150 MM	250 MM	4.5	4.5	4.8
HSMF - 12	200 MM	200 MM	300 MM	6.0	6.0	7.5
HSMF - 27	300 MM	300 MM	300 MM	7.5	7.5	9.0
HSMF - 54	300 MM	300 MM	600 MM	9.0	9.0	12.0
POWER SUPPLY	220 VOLTS, 1 PHASE, 2 WIRE UP TO 4.8 KW. 415 VOLTS, 3 PHASE, 4 WIRE ABOVE 4.8 KW.					

WE CAN MANUFACTURE ANY SIZE AS PER CUSTOMER SPECIFICATIONS

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SHIVANG FURNACES AND OVENS

SHIVANG

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"SHIVANG" CREMATION FURNACES

• A BRIEF IDEA

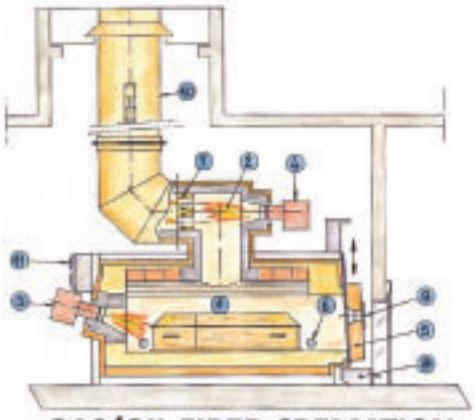
THE IDEA BEHIND THE DEVELOPMENT OF THE SAID FURNACE IS TO HELP THE PEOPLE OF THE NATION, WHERE THE POPULATION IS INCREASING DAY BY DAY. IT IS INDEED A NEWS OF PLEASURE THAT THE DEATH RATE IS REDUCING BUT THE NUMBER OF CREMATIONS ARE INCREASING DAY BY DAY.

AS YOU ALL KNOW THE COMMON METHOD OF CONVENTIONAL CREMATION IS BY PUTTING THE DEAD BODY ON THE WOOD PIER AND THEN SET FIRE THEREIN. THE SAID SYSTEMS HAVE MANY NEGATIVE POINTS THEN THE POSITIVE ONE OF THE RELIGION. IF YOU CONSIDER THE DAMAGE TO THE ATMOSPHERE, DUE TO THE IMPROPER COMBUSTION OF THE WOOD, WHICH GENERATES A HIGH VOLUME OF CARBON MONOXIDE AND CARBON DIOXIDE. WHICH IS HAZARDOUS TO THE HUMAN BEING AS WELL AS TO THE NATURE.

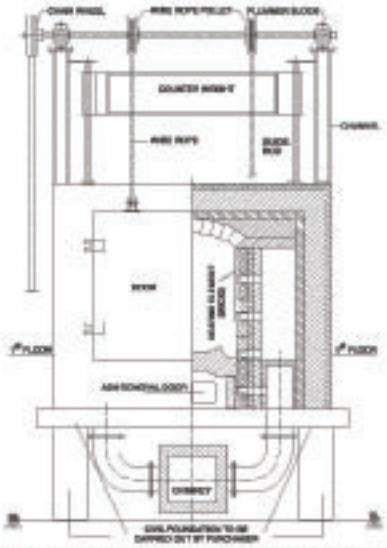
SECOND MAJOR DISADVANTAGE IS THE CONSUMPTION OF WOOD, A SURVEY SAYS THAT, TO CREMATE A NORMAL ADULT DEAD BODY YOU REQUIRE AROUND 300 KGS OF WOOD, IF WE CONSIDER THE DEATH RATE IN A CITY LIKE AHMEDABAD WHICH IS AVERAGE 10 PERSONS PER DAY, MEANS ONLY AHMEDABAD CONSUMES AROUND 90 TONES WOOD PER MONTH, THE COST PART THESE WILL ALSO HARM OUR FORESTS AND THUS OUR NATURE AND FUTURE BY DISTURBING THE RAIN CYCLE.

NOW IF WE COMPARE THE ABOVE COST WITH THE COST OF THE CREMATION IN ELECTRICALLY OPERATED CREMATION FURNACES, IT CONSUMES AROUND 200 KWH FOR CREMATION AT THE RATE OF 4 TO 5 DEAD BODY PER DAY, IF WE CONSIDER THE UNIT PRICE RS. 4=00, IT WILL COME TO RS. 800=00 PER DAY, TO MAINTAIN THE TEMPERATURE UP TO 650 DEG.C [RECOMMENDED FOR THE PROPER CREMATION.] THE COST OF CREMATION IN ELECTRICAL WORKS OUT TO RS. 200=00 PER CREMATION THIS IS DEFINITELY LESS COMPARED TO THE WOOD.

ABOVE ALL THE ELECTRICAL CREMATORIA GIVES A BETTER, HYGIENIC, NATURE FRIENDLY ODORLESS CREMATIONS., WHICH ARE MOST REQUIRED IN THE BIG CITIES WHERE NOW A DAYS CREMATORIA GROUNDS ARE IN THE CENTER OF THE CITY.



GAS/OIL FIRED CREMATION



ELECTRICAL CREMATION

SALIENT FEATURES

• MODERN DESIGN

"SHIVANG FURNACES" are designed with the all modern design features,unlike our competitors, We never belive to enforce age old designed on our Customers. The shivang cremation furnaces are built with the use of modern insulating material like ceramic fibre, high alumina element holding refractory, calcium silicate boards etc, to ensure low thermal losses and highest possible efficiency.

• STURDY CONSTRUCTION

The "SHIVANG FURNACES" built to last longer and coostructed with superior quality of mild steel sheets, Angles and Structural material of Adequate thickness as per our standard practice to work under required heavy duty requirements of our valued pattrons.

• BEST PERFORMERS

"SHIVANG" cremation furnaces are semi automatic and can be operated with ease. The door operates with the touch of button (Oplionally) A unique temperature indicating controller can control the temperature inside the cremation chamber at 600° C, recommanded for clean and proper cremation. Specially designed clean-out tools, allow for quick and easy removal of cremains form the chamber.

TECHNICAL DATA	
Lenth of Cremating Chamber	2400 mm
Hight of Cremating Chamber	850 mm
Width of Cremating Chamber	900 mm
Operating Temperature	650 °C
Operating Voltage	415 V ±5%

OTHER PRODUCTS

DEVELOPMENT IS ONGOING PROCESS AT SHIVANG FURNACES AND OVENS INDUSTRIES. THE SPECIFICATION MENTIONED ABOVE ARE LIABLE TO CHANGE WITHOUT ANY FURTHER NOTICE

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"SHIVANG" BIOMEDICAL WASTE INCENERATOR

"SHIVANG" DUAL CHAMBER INCINERATOR CONSISTS OF:

Combustion Chamber/Primary Chamber

"SHIVANG" Incinerators fabricated out of Mild Steel and is refractory lined and insulated from inside. This is equipped with loading door, ash removal door and automatic burner operated by temperature indicating controller which is set at 800 ± 50 °C. High pressure air from a blower is provided through a number of nozzles fitted in the walls of the primary chambers. Since refractory is very thick and air is circulated within the chamber, it ensures a very low skin temperature of the Incinerator. The primary chamber is provided with a waste charging door and separate ash door for removal of ash from the Incinerator.

Post Combustion Chamber/ Secondary Chamber

This part is also fabricated out of Mild Steel and refractory lined similar to primary chamber. This is equipped with automatic burner. A temperature controller is provided, which is connected to the control panel. The operating temperature is 1050 ± 50 °C. Minimum 1 second residence time is provided for flue gases in this chamber. The residence time can be increased on customer's request by increasing the size of the chamber.

Electrical Control Panel

The control panel supplied along with the Incinerator is outdoor type and placed separately. All controls will be housed within this common control panel. The panel is duly powder coated. It houses the primary and secondary burner controls, all the temperature controllers, motors starters, isolator switches, overload relays for burners and fans and audio visual alarms for abnormal workings. All electrical power, earth and control cabling from the control panel to the individual drives and components shall be provided by us. The control panel is pre-wired. However, external wiring is to be carried out at site.

Venturi Scrubber

The flue gases from the Cyclone separator are then sent to venturi scrubber. Venturi scrubber is a high energy device (fabricated out of stainless steel) where particulate matter as well as acidic pollutants are scrubbed. Here the acidic gases are removed by absorption with caustic and the particulates by the inertial impaction energy. A high-pressure drop across the venturi scrubber, imparts sufficiently high energy which helps in atomizing the scrubbing liquid and thus trapping the particulates. In venturi, gases saturate due to evaporation of water vapors and thus cools. 5% caustic solution is used as scrubbing liquid to neutralize the SO2 present in flue gases.

SYSTEM FEATURES

Dual-chamber design, starved air operation:

A Conventional approach has been adopted to minimize emission of particulate matter, and to provide sufficient oxygen, turbulence, high temperature and residence time in the secondary chamber for complete combustion.

Venturi scrubber:

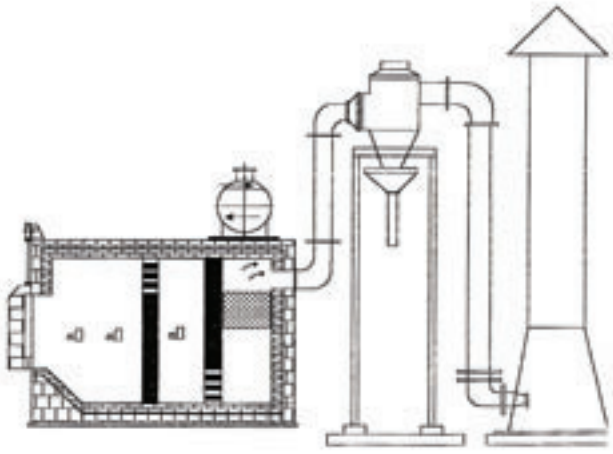
Another well proven approach has been adopted to quench the hot flue gas and to remove particulate matter and acid gases. A simple system without clogging or plugging potential has been designed for removal of liquid droplets in the outlet gas.

Energy Recovery:

A condensing heat exchanger is used to recover energy in the form of hot water.

Fine Polishing Emission Control:

To ensure meeting not only standards for particulate matter and acid gases, but also trace organic compounds and other pollutants, activated carbon and HEPA filters are used. The resulting system is identical to that used in the ARC's research facility, which has proven performance to meet very strict air emission standards.



OUR USP

We are capable of providing compact design, which occupies minimum space and shows high efficiency in operations. The systems are designed by the scientifically expertized professionals / engineers / scientist. We make use of the latest techniques and high quality materials, provided with high tech control panel, resulting in easy operation and minimum manpower requirement. Our company's sheer sincere hard work towards maintaining a healthy environment has marked a distinct identification mark in the Domestic and International markets.

PRODUCT APPLICATIONS

We design, manufacture & supply various kind of "Incinerators Systems" for all kinds of Biomedical waste and Animal carceses.

- Biomedical / Hospital Waste
- Pathological Waste
- Industrial Waste
- Secret Document Disposal
- Waste Disposal System For Hotel / Canteen Waste
- Effluent / Pharmaceutical Waste
- Chemical & Petrochemical Waste
- Hazardous / Municipal Waste
- Slaughter House - Animal Carcases

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"SHIVANG" WELDING ELECTRODE & FLUX DRYING OVEN

Proper drying, heating, and rebacking of WELDING ELECTRODES provides better quality welding . Welding with moist and untreated welding roads causes many problems like - Under Bead Cracking, Poor Slag Removal, Under Cutting, Spatter Loss, Rough Welds, Increased Arc Power etc., These hazards can be eliminated with proper care. SHIVANG range of Welding Electrode and Flux Drying Ovens are designed to provide total solutions to the welding problems mentioned above by rebacking and preheating of Various types of welding rods and various welding fluxes for various industries like heavy fabrication workshops, pipe manufacturing units, boiler manufactures, etc

■ SAILENT FEATURES:

- LOW SURFACE LOAD OF HEATING ELEMENTS
- ADEQUATE THERMAL INSULATIONS
- HIGHEST SAFETY STANDARDS
- STURDY AND RUGGED CONSTRUCTION
- EVEN THERMAL ACCURACY
- FINEST TEMPERATURE CONTROLS

"SHIVANG" ELECTRODE AND FLUX DRYING OVEN

Electrode Oven	I			II			III			IV			VI		
Inner Size	W	D	H	W	D	H	W	D	H	W	D	H	W	D	H
	450	490	440	450	490	440	450	490	440	600	600	600	600	600	600
Capacity	25 Kgs. / Selves			25 Kgs. / Selves			25 Kgs. / Selves			35 Kgs. / Selves			35 Kgs. / Selves		
No. Of Shelves	5			5			5			5			5		
Temp. Range	50°C to 250°C			50°C to 350°C			50°C to 500°C			50°C to 250°C			50°C to 350°C		
Rating	3 Kw			4.5 Kw			7.5 Kw			6 Kw			12 Kw		
Volts	230 V / 1Ø			415 V / 3 Ø			415 V / 3 Ø			415 V / 3 Ø			415 V / 3 Ø		

"SHIVANG" PORTABLE OVEN

Size	85 x 85 x 460 mm (L)
Temperature	50°C to 250°C
Capacity	4 Kgs
Controls	Thermostatic
Voltage	230 V / 1Ø
Rating	500 Watts

OTHER PRODUCTS

WE CAN ALSO MANUFACTURE ANY SIZES AS PER CUSTOMER REQUIREMENTS.

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