



OM SAI SWARAHANTRA PVT. LTD



TECHNICAL CATALOGUE

**OSSPL – ELECTRICAL BASED CREMATION /
INCINERATION SYSTEM**

GREEN REVOLUTION FOR CREMATION



1. Option 1.

Model: **OM-SA-SW-90,**

Capacity: 1 body / 90 min

Fuel: **Electricity**

2. Option 2.

Model: **OM-SA-SW-180,**

Capacity: 1 body / 45 min

Fuel: **Electricity**

3. Option 3.

Model: **OM-SA-SW-270,**

Capacity: 2 body / 45 min

Fuel: **Electricity**

Mechanism:

Due to Resistance the coils heat up when electricity is passed through coils. That heat is utilized to increase the temperature inside the furnace which is responsible for the disposal of dead body. The pollutants are collected in wet scrubber and filter gases are leave to environment through a chimney and ash is removed.

This is a eco-friendly way to cremate a dead body with the heat evolved by electrical coils. Which can fulfill the need of recent problem associated with the disposal of dead bodies.

It is designed in such a way so that maximum heat evolve from the electrical coils is utilized for cremation of the dead body (**i.e. Maximum Combustion Efficiency**) and air input is as per requirement for complete combustion & controlled so that less suspended particles in flue gas.

An Initiative Which Can Fulfill the Need Of The Hour



TECHNICAL SPECIFICATION -

ELECTRICAL CREMATION/INCINERATION SYSTEM

S. N.	Particulate	Specification
CREMATION FURNACE SYSTEM (CFS)		
MODEL NO: OM-SA-SW-90 / OM-SA-SW-180 / OM-SA-SW-270		
Power Rating: 45 to 270 KW		
Capacity: Model: OM-SA-SW-90 No. of Bodies at a time: 1 (One) Time Duration: 90 minutes Dead Load : 150-180 Kg Mode of Operation: Manual Max. lifting Height: 150-200mm	Capacity: Model: OM-SA-SW-180 No. of Bodies at a time: 1 (One) Time Duration: 45 minutes Dead Load: 150-180 Kg Mode of Operation: Manual Max. lifting Height: 150-200mm	Capacity: Model: OM-SA-SW-270 No. of Bodies at a time: 2 (Two) Time Duration: 45 minutes Dead Load: 300-360 Kg Mode of Operation: Manual Max. lifting Height: 150-200mm
Auxiliary Load: 6kW / 12kW / 18kW		
Temperature Ranges: Primary chamber -- 800°C / 1000°C / 1200°C Maximum System Temperature -- 1100°C / 1400°C / 1800°C		
Ash Remaining: Upto 5%		
Ash Door: Our System Comes with the Ash Door		
Ash Chamber: Provided below the Primary Combustion Chamber/Furnace.		
Space Requirement: <u>For Machine:</u> 10 ft x 25 ft. (For OM-SA-SW-90 & OM-SA-SW-180) 20 ft x 50 ft. (For OM-SA-SW-270) <u>For Complete Room:</u> 2000 to 5000 sq. ft		
Material of Construction: Cremation Furnace: Mild Steel / Stainless Steel Insulation: With Refractory Bricks		
Heating Element /Radiant tubes: <ul style="list-style-type: none"> - Alumunium / Nickel Chrome Wire - Power Metallurgy Wire - Quantity: 6/12/18/24 (As per Client Requirement) - Distribution: Side / Chamber / Coil Bricks - Form: Coil / Wire Formation 		
Cremation Trolley: Mode of Operation – Automatic / Manual Trolley to be travelled in: Rails Mechanism: Lowering & Lifting We provide trolley and Stretcher both for easy loading of the Dead Bodies.		
Cremation Furnace: <u>Dimension:</u> Length/Depth: 2500mm – 4500mm (As per Client Requirement) Width: 1500mm – 2700mm (As per Client Requirement) Height: 2500mm – 4500mm (As per Client Requirement) Our Furnace shall be provided with a proper insulation and a reflector so that there are no any heat losses and can bear a high temperature. Also, we provide the shell of heavy thickness which is 3.5mm and 5mm. Also, we provide the baffles to collect heavy particles in smoke.		

NOTE: This specification may change to improve our product so, we reserve the right for the same.

Furnace Door:

Driven: Motor Mechanism

Motor Rating: 0.5 HP / 1.0 HP / 2.0 HP (as required by Client)

Type: Hydraulic / Rise and Fall Lifting via motor / Manually

Accessories: Reduction Gear Box / Helical Gear Box, Chain, Sprocket, Limit Switch

Refractory Brick Lining:

Location: In the Furnace

Thickness: 80-100mm

Type: Refractory Fire Bricks

Alumina Content:

40% minimum in general area & 60% minimum in high wear & tear area

ID Fan:

Type : Centrifugal

Capacity : 1400 / 2800 / 2900 rpm

Pressure : 250mm WG / 350 mm WG / 450 mm WG

Motor Make : Crompton / Bharat Bijlee / ABB

Motor rating : 3 H.P. / 5 H.P. / 7.5 H.P.

Qty. : 1 Set. / 2 Set. (As per Client's Requirement)

Chimney:

Material of Construction: Mild Steel

Height: 20 meter / 30 meter

Top Diameter: 300-450mm (as per client's requirement)

Base Diameter: 700mm / 900mm

Foundation Bolts: Heavy duty 800mm to 1600mm Long

Wire Rope Type: Steel Core (8mm diameter)

Control Panel:

Number of Panels: 2Set.

Mounting: Floor

Material of Construction: Mild Steel

Accessories:

All sorts of Protection Devices, Contractor, Relays, Indication Lights, Fuses, Power Meter.etc. and as required items shall be provided

Wet Scrubber (Venture Type):

Material: SS AISI 304

Type of Water Circuit: Closed

Efficiency: Minimum 92%

Nozzle Material: Bronze

Fume Discharge Capacity: 1200-1800 cu.m. per hour

Recirculation Pump Rating: 1.0 HP / 2.0 HP / 3.0 HP (as per client Requirement)

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16. TROLLEY