

ROSS BOILERS

WE ARE THE HEAT SOURCE



















STEAM BOILERS









HOT AIR GENERATORS

THERMIC FLUID HEATERS





EDIBLE OIL HEATERS

STEAM BOILERS



| Model | Capacity (kg/hr) |
|----------|---------------------|
| RSR 100 | 100 |
| RSR 200 | 200 |
| RSR 300 | 300 |
| RSR 400 | 400 |
| RSR 500 | 500 |
| RSR 600 | 600 |
| RSR 800 | 800 |
| RSR 1000 | 1000 |
| RSR 1200 | 1200 |
| RSR 1500 | 1500 |
| RSR 2000 | 2000 |
| RSR 2500 | 2500 |
| RSR 3000 | 3000 |

- 3 pass reverse flue compact horizontal boiler available both in Non-IBR & IBR version
- Ideally suited to burn light oil, heavy oil, NG or LPG with imported burners
- Hinged front refractory door for quick access to furnace & smoke tubes
- Fully automatic operation with field proven controls & safeties
- High thermal efficiency due to spirals in flue tubes for better heat transfer

RSB Series

Coil Type Oil / Gas Fired Steam Boilers

- 3 pass reverse flue coil type steam boiler available both in non-IBR version (models 100 to 800) & IBR version (all models)
- Fitted with optional combustion air pre-heat and economizer for high thermal efficiency
- Designed to operate with light oil, heavy oil, NG or LPG fuel with rugged in-house or European burner
- Easy to operate & maintain with quick delivery of steam in few minutes
- Fully automatic operation with field proven controls & safeties

| Model | Capacity (kg/hr) |
|----------|---------------------|
| RSB 100 | 100 |
| RSB 200 | 200 |
| RSB 300 | 300 |
| RSB 400 | 400 |
| RSB 600 | 600 |
| RSB 800 | 800 |
| RSB 1000 | 1000 |
| RSB 1200 | 1200 |
| RSB 1500 | 1500 |
| RSB 2000 | 2000 |
| RSB 2500 | 2500 |
| RSB 3000 | 3000 |
| RSB 3500 | 3500 |
| RSB 4000 | 4000 |



STEAM BOILERS

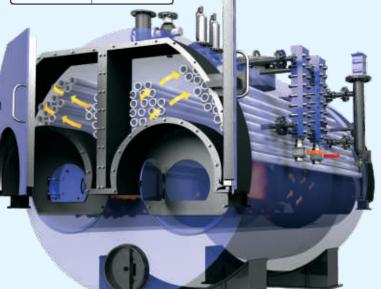
RSW Series

Solid Fuel Fired Shell Type Flue Tube Steam Boiler

| Model | Capacity (TPH) |
|----------|-------------------|
| RSW 1000 | 1.0 |
| RSW 1500 | 1.5 |
| RSW 2000 | 2.0 |
| RSW 2500 | 2.5 |
| RSW 3000 | 3.0 |
| RSW 4000 | 4.0 |

| Model | Capacity (TPH) |
|----------|-------------------|
| RSW 4000 | 4.0 |
| RSW 5000 | 5.0 |
| RSW 6000 | 6.0 |





Solid Fuel Fired Twin Furnace Three Pass Steam Boiler

- High thermal efficiency due to twin furnace design.
- Hinged doors for quick and easy cleaning of tubes.
- Easy to operate and maintain.
- Can fire a variety of fuels, such as coal, wood, agrowaste, etc.
- Rugged design
- Has high steam and water storage to cater to fluctuating steam demands.

RSBE Series

Space saving designs

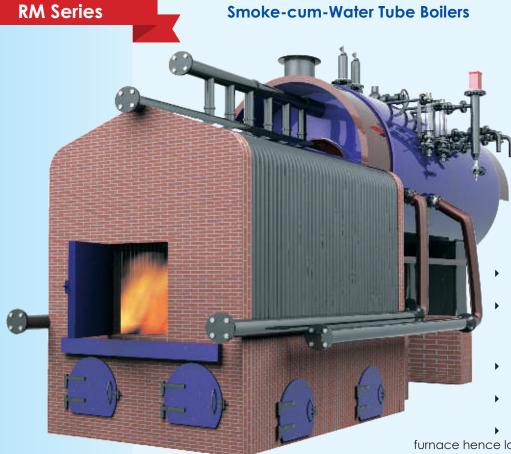
- Fully automatic operation
- Clean & quiet operation
- Fully packaged unit, minimizes site work
- No fuel tank & chimney required

Electric Steam Boilers

| Model | Capacity (kg/hr) |
|----------|---------------------|
| RSBE 10 | 15 |
| RSBE 15 | 23 |
| RSBE 20 | 30 |
| RSBE 35 | 55 |
| RSBE 50 | 78 |
| RSBE 65 | 100 |
| RSBE 130 | 200 |
| RSBE 165 | 250 |
| RSBE 200 | 300 |
| RSBE 260 | 400 |
| RSBE 320 | 500 |
| RSBE 390 | 600 |
| RSBE 450 | 700 |
| RSBE 520 | 820 |
| RSBE 640 | 1000 |



STEAM BOILERS



| Model | Capacity (TPH) |
|-------|-------------------|
| RM 04 | 4 |
| RM 05 | 5 |
| RM 06 | 6 |
| RM 08 | 8 |
| RM 10 | 10 |
| RM 15 | 15 |
| RM 20 | 20 |
| RM 25 | 25 |
| RM 30 | 30 |

- Very high thermal efficiency due to high combustion chamber volume.
- Minimum radiation losses & minimum air leakage due to membrane water wall panelled radiant furnace.
- Very large water holding and steam space.
- Automatic operation for consistent & uninterrupted steaming.
- ▶ Minimum usage of refractory in furnace hence lower maintenance costs.
- Easy & safe to operate.

RS Series

Shell Type Conventional 3 Pass Fully Wet Back Steam Boilers

- Straight three pass design.
- Ideally suited to burn light oil, heavy oil, NG, LPG & biogas.
- Fully automatic operation with field proven controls & safeties.
- Rugged & durable design.
- Higher radiation as well as convective heat transfer areas.

| Model | Capacity (TPH) |
|--------|-------------------|
| RS 01 | 1.0 |
| RS 1.5 | 1.5 |
| RS 02 | 2.0 |
| RS 2.5 | 2.5 |
| RS 03 | 3.0 |
| RS 04 | 4.0 |
| RS 05 | 5.0 |
| RS 06 | 6.0 |
| RS 08 | 8.0 |
| RS 10 | 10 |

- Large combustion volume, hence enhanced safety and higher efficiency.
- ▶ Easy and quick erection and commissioning.



THERMIC FLUID HEATERS

ALFA Series

Oil / Gas Fired Thermic Fluid Heaters

| Model | Capacity (kcals/hr) |
|-----------|------------------------|
| ALFA 100 | 1,00,000 |
| ALFA 200 | 2,00,000 |
| ALFA 300 | 3,00,000 |
| ALFA 400 | 4,00,000 |
| ALFA 600 | 6,00,000 |
| ALFA 800 | 8,00,000 |
| ALFA 1000 | 10,00,000 |
| ALFA 1500 | 15,00,000 |
| ALFA 2000 | 20,00,000 |
| ALFA 2500 | 25,00,000 |
| ALFA 3000 | 30,00,000 |
| ALFA 3500 | 35,00,000 |
| ALFA 4000 | 40,00,000 |



- High temperature up to 300°C at low pressure of 1 to 3 bar
- No heat loss due to hot condensate and flash steam discharge
- No risk of corrosion
- Low maintenance costs

- Easy to operate (does not require a steam boiler certified operator)
- Large heating surface area hence higher efficiency
- Hinged front door for easy cleaning & inspection
- Rugged construction
- Maximum running reliability

DELTA Series

Solid Fuel Fired Thermic Fluid Heaters



- Reliable operation
- Safety against low thermic fluid flow
- Precise thermic fluid temperature Control
- Maximum running reliability

DELTA 4 Pass Models:

| Model | Capacity (kcals/hr) |
|------------|------------------------|
| DELTA400 | 4,00,000 |
| DELTA 600 | 6,00,000 |
| DELTA 800 | 8,00,000 |
| DELTA 1000 | 10,00,000 |
| DELTA 1500 | 15,00,000 |
| DELTA 2000 | 20,00,000 |
| DELTA 2500 | 25,00,000 |
| DELTA 3000 | 30,00,000 |
| DELTA 3500 | 35,00,000 |
| DELTA 4000 | 40,00,000 |

DELTA 3 Pass Models:

| Model | Capacity (kcals/hr) |
|-----------|------------------------|
| DELTA 100 | 1,00,000 |
| DELTA 200 | 2,00,000 |
| DELTA 300 | 3,00,000 |
| DELTA 400 | 4,00,000 |
| DELTA 600 | 6,00,000 |



THERMIC FLUID HEATERS

RTH Series

Vertical Oil / Gas Fired Thermic Fluid Heaters

RTH series heaters are compact, vertical, factory-assembled fired equipment for high temp, closed loop thermal oil process heat applications. Synthetic or mineral based thermal oils having stable properties over a wide temp range of 10 to 300 deg C are used as heating medium at comparatively low operating pressure of 3-4 kg/cm². RTH series TF Heaters are fitted with indigenous

| Model | Capacity (kcal/hr) |
|---------|-----------------------|
| RTH 100 | 100,000 |
| RTH 200 | 200,000 |
| RTH 300 | 300,000 |
| RTH 400 | 400,000 |
| RTH 600 | 600,000 |

pre-heated air burners in three-pass combustion system to improve thermal efficiency. These heaters are fitted with standardized components & are quite simple to operate & maintain. A large number of options, such as choice of fuel, addition of standby TF pump, sizing of De-aerator tank etc are available to users to meet their process needs.

Smaller capacity thermal oil heaters in output range 100 to 300 x 1000 kcal/hr require light fuel oil for combustion for ease of maintenance & operation. These heaters are fitted with single stage burners.

Larger capacity TF Heaters are available for operation with light or heavy fuel oil as per customer's choice. Being fully shop-assembled & tested, these heaters are supplied in ready-to-install condition to facilitate quick plant start-up.



RTHE Series

Electric Thermic Fluid Heaters



ROSS electric operated thermic fluid heaters are designed & manufactured using high quality heating elements, precise dimensions in a state of the art manufacturing facility. Our quality control guarantees highest safety and long life span.

- Short installation time due to pre-assembled units
 - Depending on the overall dimensions, complete systems can be skid mounted on a base frame. Systems are factory tested for function, control and leakage. Installation and start-up time can therefore be greatly reduced.
- Low Watt density flanged electric heaters Low watt density heaters maintain low heat flux densities. The surface area provided is generously sized to keep thermic fluid film temperatures low, which protects the thermic fluid from carbonizing.

HOT WATER GENERATORS

ASTRA Series

Model Capacity (Kcals/hr) ASTRA 100 1,00,000 ASTRA 150 1,50,000 ASTRA 200 2,00,000 ASTRA 250 2,50,000 ASTRA 300 3,00,000 ASTRA 400 4,00,000 ASTRA 500 5,00,000 ASTRA 600 6,00,000 ASTRA 800 8,00,000 **ASTRA 1000** 10,00,000 **ASTRA 1500** 15,00,000 **ASTRA 2000** 20,00,000 **ASTRA 2500** 25,00,000 **ASTRA 3000** 30,00,000

Reverse Flue Shell Type Three Pass Oil / Gas Fired Hot Water Generators



- 3 pass reverse flue horizontal HW Generators with large water volume
- or LPG with imported burners
- Hinged front refractory door for quick access to furnace & smoke tubes
- Fully automatic operation with field proven controls & safeties
- High thermal efficiency due to spirals in flue tubes for better heat transfer
- Available for pressurized hot water system at 140 deg C max outlet temp

RHBC Series

Coil Type Water Tube Hot Water Generators

| Model | Capacity (Kcals/hr) |
|-----------|------------------------|
| RHBC100 | 100,000 |
| RHBC 150 | 150,000 |
| RHBC 200 | 200,000 |
| RHBC 300 | 300,000 |
| RHBC 400 | 400,000 |
| RHBC 500 | 500,000 |
| RHBC 600 | 600,000 |
| RHBC 800 | 800,000 |
| RHBC 1000 | 1,000,000 |
| RHBC 1250 | 1,250,000 |
| RHBC 1500 | 1,500,000 |
| RHBC 2000 | 2,000,000 |
| RHBC 2500 | 2,500,000 |
| RHBC 3000 | 3,000,000 |

- Three-pass, once through, coil type HWG with efficient fuel combustion & compact construction for closed loop process heating at maximum 160°C temperature.
- ▶ Single or multi-start coils are designed to accommodate customer-specific larger hot water flows at lower pr drops to ensure low electric power demand for pumping water.
- Process fluid being soft water, is nonhazardous, non-contaminating & nonpolluting.
- Process fluid is re-cycled, unlike condensate wastages in steam heating, resulting in valuable resource & heat energy conservation.
- Low initial equipment cost, low operating & maintenance cost.
- Less corrosion or scaling of HWG coil as water remains in liquid phase even at 160°C.



HOT WATER GENERATORS

RHBE Series

Electric Hot Water Generators



These units have high thermal efficiency & low maintenance. Units are easy to install & can be located close to the point of use. They are environment friendly & pollution free. Units are available in capacities from 9 Kw up to 1000 Kw. These units are ideal for commercial & residential buildings for generating hot water. All units are factory tested ready to use. ROSS Electric hot water generators have small physical size as compared to oil or gas fired units, hence require less floor space.

- ▶ Low watt density flanged electric heaters
- ▶ Easy to operate and maintain
- High thermal efficiency, environment friendly & pollution free
- Custom built units
- Requires less floor space

SIGMA Series

Horizontal Solid Fuel Fired Hot Water Generators

3 pass wet back horizontal HW Generators for 95 to 140 deg C outlet temp

Designed to burn various agro-waste fuels like wood, bagasse, coal, etc.

 Hinged front refractory door for easy maintenance of flue tubes

 Large water volume helps to overcome varying heat loads

| Model | Capacity (Kcals/hr) | | |
|------------|------------------------|--|--|
| SIGMA 100 | 1,00,000 | | |
| SIGMA 150 | 1,50,000 | | |
| SIGMA 200 | 2,00,000 | | |
| SIGMA 250 | 2,50,000 | | |
| SIGMA 300 | 3,00,000 | | |
| SIGMA 400 | 4,00,000 | | |
| SIGMA 500 | 5,00,000 | | |
| SIGMA 600 | 6,00,000 | | |
| SIGMA 800 | 8,00,000 | | |
| SIGMA 1000 | 10,00,000 | | |
| SIGMA 1500 | 15,00,000 | | |
| SIGMA 2000 | 20,00,000 | | |
| SIGMA 2500 | 25,00,000 | | |
| SIGMA 3000 | 30,00,000 | | |



HOT AIR GENERATORS



The RAHW series hot air generators are offered in vertical or horizontal designs, either as standard models or tailor-made models to match customer's specifications and applications.

Designed in DIRECT and INDIRECT heating types, these systems are practically free from any maintenance and are highly efficient. Units can be manufactured in SS for high temperature applications.

- Durable construction
- ▶ Easy operation and minimal maintenance
- High level of safety in operation, thus greater reliability
- Optional recirculation system to improve overall thermal efficiency

RAH Series

Oil/Gas Fired Hot Air Generators

The RAH series hot air generators are offered in vertical or horizontal designs, either as standard models or tailor-made models to match customer's specifications and applications.

Designed in DIRECT and INDIRECT heating types, these systems are practically free from any maintenance and are highly efficient.

- Durable construction
- Easy operation and minimal maintenance
- High level of safety in operation, thus greater reliability
- Optional recirculation system to improve overall thermal efficiency
- Fully automatic burner control and temperature control



EDIBLE OIL HEATERS

REOH Series

Edible Oil Heaters



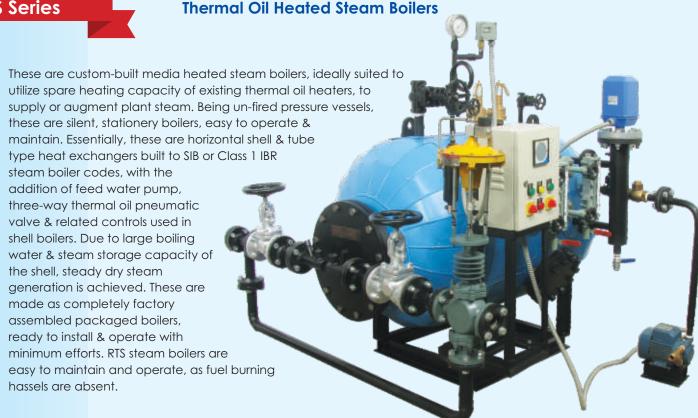
These are custom-built heaters manufactured with food grade quality stainless steel materials, pumps & other equipment. Higher thermal efficiency, better utilization of cooking oil & freedom from thermal oil contamination are some of the winning features of ROSS make edible oil heaters.

- Low heat release rate
- Models available in oil / gas / solid fuel fired
- Easy to operate and maintain
- Rugged construction



INDIRECT STEAM BOILERS

RTS Series



ACCESSORIES

Calorifiers



Air & Water Pre-heaters





Fuel Oil Ring Mains & OPH Stations



Feed Water & Fuel Oil Service Tanks



Heat Recovery Units



Radiators



Steam Pressure Reducing Stations



Water Softeners, Filters, RO & DM Plant













QUALITY ASSURANCE

We believe that client satisfaction comes from products that perform efficiently and reliably with least down time. We have adopted stringent quality assurance checks for every product, starting with the raw material. Our workforce is self motivated with every employee considering himself to be a Quality Inspector.

AFTER-SALES-SERVICE

We offer you not only prompt and effective service, but also the complete range of original spares to help prevent any down time and consequent production and profit losses. We have earned an enviable reputation throughout the country for the excellence of our sales and service.

Units exported to more than 40 countries worldwide

We have exported number of units to various countries. Repeat export orders speak of our quality & commitment towards customer satisfaction.





ROSS BOILERS

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MADE IN INDIA FOR THE WORLD



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