

Industry We Serve



Our Products

- Single Drum Boilers
- Fire Tube Boilers
- Dumping Crates
- Water Tube Boilers
- Bi-Drum Boilers
- AFBC System
- Boiler Spares
- Reciprocating Crates
- Travelling Crates
- All Pollution Control Equipments

Designer, Manufacturer & EPC Solution Provider for:

- Power Boilers [Co-Generation & IPP Projects]
- Process Boilers
- Pollution Control Equipments
- All Equipments, Spares of Boilers and Power Plant

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GRAMP ENVIRO SOLUTIONS PVT. LTD.

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ABOUT US

GRAMP Enviro Solutions Private Ltd. offers complete solutions for High-Pressure Boilers, Co-generation Plants, IPP Projects, Process Boilers, Heavy Fabrication, and Power Plant Equipments, including Air Pollution Control systems.

Our team, with over 28 years of expertise, ensures a one-stop solution for your industry needs.

Our Founder:

With an extensive 28-year background in designing, manufacturing, erection commissioning, and troubleshooting of High-Pressure and Process Boilers, Mr. Gajendra Mohan has been the instrument in the success of some of the largest and most efficient boilers in the global industry.

His reputation is built on his exceptional skills, unwavering commitment, and profound technical expertise in the field.

He has collaborated with prominent industries and leading boiler manufacturers in India, consistently delivering successful projects in a commendably short time.

What We Do?

We provide turnkey EPC services for Power Plants, Process Boilers and Pollution Control Equipments which include the following:

- Service Power Boilers [Co-generation and IPP Projects]
- Process Boilers
- Hot Water Generators & Hot Air Generators
- Thermic Fluid Heaters
- Bag Filters & Bagasse Dryers
- Wet Scrubber and Cyclones
- Spares of ESP
- Electrostatic Precipitators

Trading of various Electro-mechanical equipments to meet Industry Demand and provide a single point solution.

- Retrofitting of Boilers, Pollution Control Equipments
- Erection and Commissioning of Boilers, Pollution Control Equipments, etc.
- Fabrication of tank, heavy vessels and all in general.
- We are also in the field of repair, upgrade and maintenance of vapour absorption chillers.

Company Values:



Continuous upgradation of technology to enhance quality and cost competitiveness of our products.



A safe and clean workplace for the employees and enhancing their level of motivation.



On-time delivery of the products with regular feedbacks and interactions with our valued customers.



Enhancement of knowledge and skill of the employees at all levels through continuous training and development.

Our Process:

Mission:

At GRAMP, we prioritize Quality Control and Assurance. We believe in delivering top-quality products at every stage of execution - from design and manufacturing to on-site implementation, with the ultimate aim to satisfy our customers

Vision:

We strive to provide end-to-end solutions that meet stringent emission standards.

This covers planning, engineering, and manufacturing of equipment, from components to complete turnkey projects on an Engineering, Procurement, and Construction (EPC) basis.



Infrastructure

- Covered Manufacturing Shop equipped with all the required Machines, T&P, Cranes.
- Dedicated QC team at Factory with testing tools.
- Fabrication of Pressure Parts, Heat Exchangers and other power plant equipments.
- Fabrication & welding of all type of MS, SS and other materials.
- Fabrication work of Tanks, Vessels, Structure, Plate Work & Miscellaneous items.
- Fabrication of all components of Pollution Control Equipments.

Why Choose Us?

We have a team of highly-experienced Boiler & Power Plant experts who've spent more than 30 years in the field of Boiler manufacturing, APC and Power Plant equipments.

We know the need, desires and the requirements of our customers and we offer the best solutions.

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|---|----------------------------|--------------------------------|
| ■ Understanding customers and their requirements, | ■ Customer Satisfaction. | ■ Competitive Pricing, |
| ■ Quality Products | ■ Quick & Prompt Response, | ■ Fast Delivery, |
| | ■ Committed to EHS. | ■ Best After Sales & Services. |



SINGLE DRUM CORNER TUBE BOILER

FIRE TUBE BOILER



The boiler is usually small capacity ranging from 2-10t / h, compact structure, single-layer arrangement, saving floor-area. Using high standard, high-quality auxiliary equipment, accessories and automatic control equipment, to ensure guarantee security, stability operations, and to reduce the labor intensity of boiler operators.

Technical Specification:

Industries : All Process and Power Plant
Capacity : 10 TPH to 100 TPH
Working Pressure : 10.5 kg/cm² to 87 kg/cm²
Temperature : Saturated to 500°C

Fuel Used:



Coal Brown Coal Wood Chips Rice Husk Biomass Pallet



In a fire tube boiler, hot gas passes through the pipes and boiler feed water is inside the shell to be converted into steam. Fire tube boilers are usually used for relatively small steam capacities with low to moderate steam pressures. The ignition process occurs in the pipe, then the heat generated is delivered directly into the boiler containing water. The size and construction of the boiler affect the capacity and pressure produced by the boiler.

Technical Specification:

Industries : All Process and Power Plant
Capacity : 12000 kg / hour
Working Pressure : 18 kg/cm²
Temperature : Saturated to 500°C

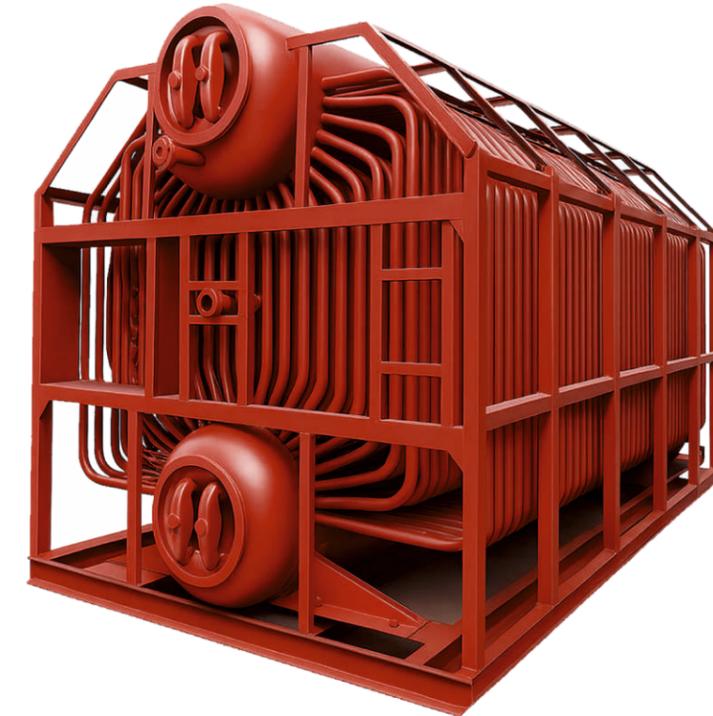
Fuel Used:



Fuel Oil Solid Fuel Gas

WATER TUBE BOILER

BI-DRUM BOILERS



A water tube boiler is an efficient steam-generating system where water circulates through tubes heated externally by combustion gases. Designed for high-pressure applications, it offers faster steam generation and improved heat transfer. Commonly used in power plants and industrial processes, water tube boilers ensure enhanced safety, compact design, and energy efficiency—making them ideal for operations demanding high-capacity steam output with reliable performance.

A Bi-Drum boiler features two drums—one for steam and one for water—connected by a network of water tubes. Designed for high-pressure, high-capacity operations, it offers excellent load fluctuation handling and is ideal for power generation and industrial applications. Its robust construction ensures efficient heat transfer, quick start-up, and long-term reliability, making it a preferred choice for continuous steam demand in large-scale operations.

Technical Specification:

- Industries** : All Process and Power Plant
- Capacity** : 6 TPH to 25 TPH
- Working Pressure** : 10.54/17.5/28/32/40 kg cm²
- Temperature** : Saturated to 500°C

Fuel Used:



Rice Husk Coal Mustard Husk Paddy Straw Bagasse Wood Waste

Technical Specification:

- Industries** : All Process and Power Plant
- Capacity** : 10,000 300,000 lb/hr
- Working Pressure** : 1800 psi
- Temperature** : Saturated to 500°C

Fuel Used:



Rice Husk Coal Lignite Paddy Straw Oil & Gas Wood Chip

ATMOSPHERIC FLUIDIZED BED COMBUSTION BOILER

AIR POLLUTION CONTROL EQUIPMENTS



Atmospheric Fluidized Bed Combustion (AFBC) boilers are highly efficient and eco-friendly systems designed for burning low-grade fuels like coal, biomass, and agro-waste. Using fluidized bed technology, they ensure uniform combustion, lower emissions, and better heat transfer. Ideal for various industrial applications, AFBC boilers offer fuel flexibility, reduced operational costs, and compliance with environmental norms, making them a smart choice for sustainable energy generation.

Technical Specification:

Industries	: All Process and Power Plant
Capacity	: 10,000 300,000 lb/hr
Working Pressure	: 1800 psi
Temperature	: Saturated to 500°C

Fuel Used:



Our air pollution control equipment is designed to effectively capture and eliminate harmful emissions from industrial processes. We offer solutions like Dust Collectors, Wet Scrubbers, Bag Filters, and Cyclone Separators to control particulate and gaseous pollutants. Engineered for efficiency and compliance, our systems help industries reduce environmental impact, ensure cleaner air, and meet regulatory standards with reliable and low-maintenance performance.

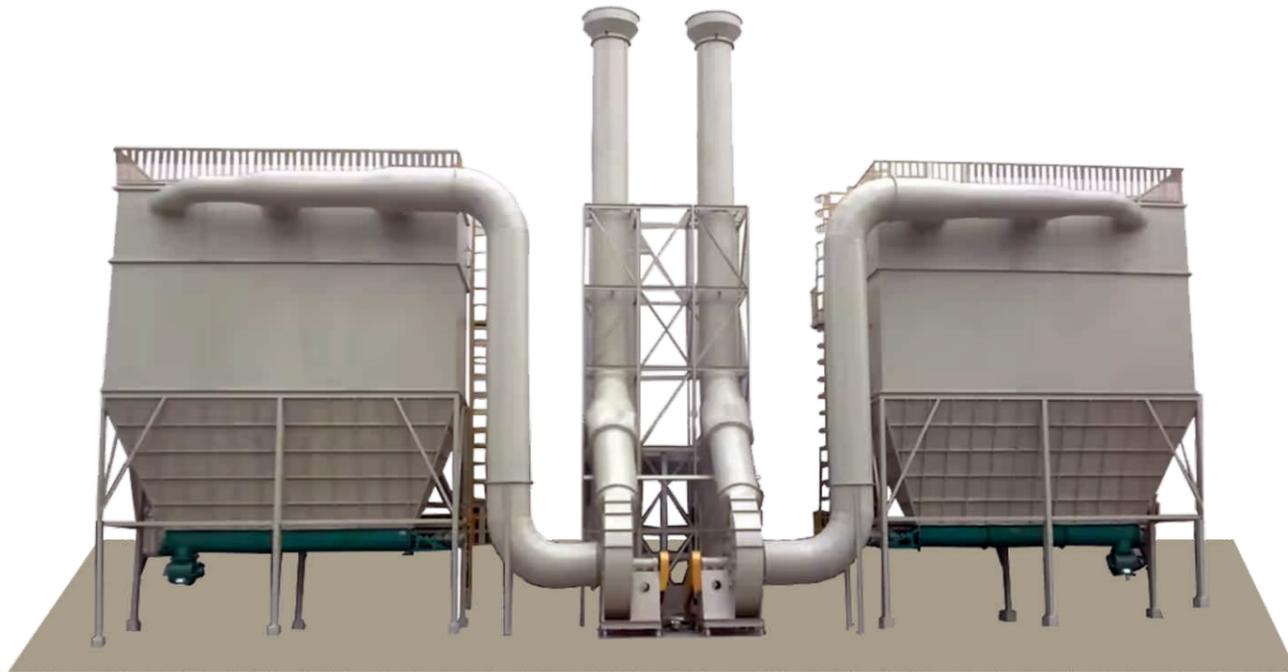


Key Features:

- High Filtration Efficiency that captures fine dust and pollutants effectively
- Durable construction with minimal servicing needs
- Optimized systems for reduced power consumption
- Modular & Customizable that designed to suit various industrial applications
- Long-lasting performance in harsh environments
- Meets CPCB and international emission standards
- Easy to Installation, Compact design for hassle-free integration
- Supports smart control and monitoring systems

ELECTROSTATIC PRECIPITATOR (ESP) BOILER

CYCLONE SEPARATOR



An ESP removes fine dust from boiler flue gases using high-voltage electrodes that charge particles, which are then collected on grounded plates. Made from mild or stainless steel with ceramic insulators, ESPs are durable and efficient. Commonly used in coal, biomass, cement, and chemical plants, they ensure high dust collection efficiency, reduced emissions, and compliance with environmental standards.

Technical Specification:

Industries	: Boiler & Heaters, Cement, Mills, Cooler, Iron & Steel Industries
Power Capacity	: 5 MW to 600 MW
Gas Flow Rate	: 5 m ³ /sec to 1500 m ³ /sec
Emission at ESP Outlet	: <10 mg/Nm ³
Gas Temperature	: Upto 350 Deg C

Fuel Used:



Our high-efficiency Cyclone Separator is designed to deliver reliable and effective particle separation using centrifugal force. It efficiently handles various particulates such as dust, solids, fibers, and granular materials, making it ideal for a wide range of industrial applications. The cyclonic motion created inside the unit directs particles toward the outer wall, allowing for easy collection and discharge.

Built from high-quality, wear-resistant materials, the separator is suitable for demanding environments involving abrasive or corrosive particles. Its robust construction ensures durability, low maintenance, and long operational life, even under continuous use.

Widely used in industries such as food processing, mineral handling, and wood manufacturing, our Cyclone Separator guarantees consistent performance and high separation efficiency—making it an essential solution for effective dust and material collection.

Key Features:

- Uses centrifugal force to effectively remove dust, solids, fibers, and granular materials.
- Robust Construction, made from high-quality, wear-resistant materials for durability.
- Designed for long operational life with minimal servicing.
- Suitable for food, mineral, and wood processing industries.
- Handles Harsh Conditions, performs reliably in abrasive and corrosive environments.





Activated Carbon Filters are a key component in air filtration systems, designed to remove impurities, odors, and harmful contaminants from air streams with advanced adsorption technology. Known for their exceptional efficiency, these filters effectively capture a wide range of pollutants including gases, volatile organic compounds (VOCs), and foul odors. Utilizing high-pore-density activated carbon media, the filter offers a large surface area for optimal adsorption. This enhances its capability to trap fine particles and microscopic pollutants, improving overall air quality. Built for long-term performance, the filter's rugged design ensures durability with minimal maintenance. Its extended service life contributes to greater cost-efficiency and consistent operation across diverse industrial applications.

Features

High Efficiency: Wet scrubbers deliver excellent pollutant removal by capturing and neutralizing harmful substances, reducing emissions and protecting health and the environment.

Customization & Flexibility: We provide tailor-made wet scrubber solutions to meet specific industry needs, ensuring optimal performance and cost-effectiveness.

Energy & Cost Savings: Designed for energy efficiency, our scrubbers reduce pressure drops, lower operational costs, and offer long service life with minimal maintenance.

A Baghouse Filter is an air pollution control device that removes particulate matter from industrial exhaust gases using fabric filter bags. As dust-laden air passes through the bags, particles are trapped on the surface while clean air exits. Periodic cleaning dislodges the dust into hoppers below. Constructed from high-temperature and chemical-resistant fabrics like fiberglass or PTFE, bag filters offer durability and efficiency. Widely used in cement, steel, power plants, and chemical industries, baghouse filters ensure effective dust control and regulatory compliance.

Features

- High Filtration Efficiency – Captures fine dust and particulate matter with over 99% efficiency.
- Durable Filter Media – Made from high-temperature and chemical-resistant fabrics like fiberglass or PTFE.
- Modular Design – Easy to install, expand, and maintain.
- Automatic Cleaning System – Pulse-jet or shaker systems ensure consistent performance and reduced downtime.
- Wide Industrial Application – Suitable for cement, steel, power, and chemical processing industries.

DUMPING, RECIPROCATING, TRAVELLING CRATES



OUR PRODUCTS

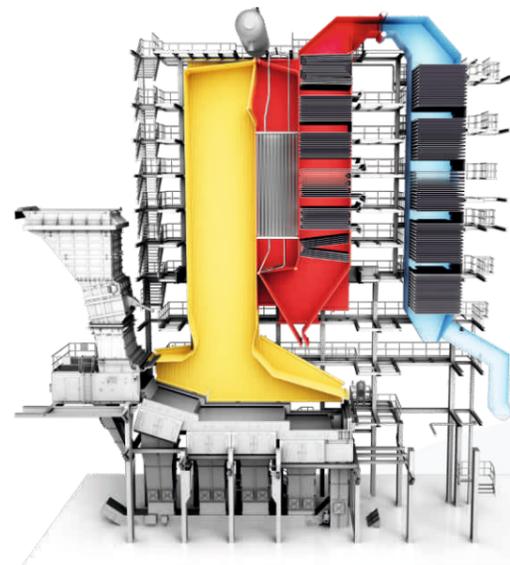


Dumping Crates

The fuel is projected across the furnace by a series of fuel feeders with uniform spreading action. Dumping grate has ability to burn variety of fuel with wide range of burning characteristics. With this design ash get dump by using operating levers.

Reciprocating Crates

The reciprocating grate firing technology (also known as step grate, inclined grate) is one of the widely used solid fuel combustion technologies, capable of burning almost all types of solid fuels. However, in practice, step grate technology demonstrate its superior advantages when burning solid fuels with non-uniform sizes, low moisture content, or with ash slag that readily combusts at low temperatures such as industrial waste, household waste, low-quality biomass.



Travelling Crates

Ideal for coal and biomass, these grates ensure uniform fuel distribution using pneumatic spreaders. Bed ash and under-grate air cool the bars, while compartmentalized airflow enhances combustion efficiency across the grate surface.



Steam Drum

A steam drum is a key boiler component that separates steam from water, ensuring steady pressure and efficient steam output. Built for high durability, it supports safe and reliable operation in industrial steam generation systems.

Feeder

A feeder ensures controlled and consistent material flow into processing systems. Designed for accuracy and durability, it handles various bulk materials efficiently, supporting smooth operations in boilers, conveyors, and industrial fuel-handling applications.



Deaerator

A deaerator removes dissolved gases like oxygen and carbon dioxide from boiler feedwater, preventing corrosion and improving system longevity. It ensures efficient thermal performance and reliable operation in high-pressure steam generation systems.

Bed Coils

Bed coils are heat transfer components installed in fluidized bed boilers. They efficiently absorb heat from the combustion bed to generate steam, offering high thermal efficiency, durability, and reliable performance under high-temperature conditions.



Fans

Industrial fans are essential for air and gas movement in boiler and process systems. Designed for high efficiency and durability, they ensure proper ventilation, combustion air supply, and flue gas extraction in demanding environments.



INDUSTRIAL FANS FOR BOILERS



ID Fans

Engineered with direct-driven centrifugal technology, our fans offer efficient, cost-effective solutions for ventilation and circulation. Trusted globally, we deliver innovation, reliability, and excellence in industrial air management.



FD Fans

FD fans supply pressurized air into boiler furnaces to support efficient fuel combustion. Designed for high performance and durability, they ensure optimal air-to-fuel ratio, improve thermal efficiency, and support smooth boiler operation.

AIR PRE-HEATERS (APH) FOR BOILER

Air Preheaters are shell and tube heat exchangers that recover heat from flue gases to preheat air entering boilers or furnaces, improving combustion efficiency. Gramp manufactures high-quality APH tubes using premium raw materials and modern machinery, following international standards. Available in various sizes and finishes, these tubes are designed for strength, durability, and thermal performance. Widely used in power plants and industries like sugar, steel, and chemicals, all tubes undergo rigorous quality testing to ensure reliability and compliance.

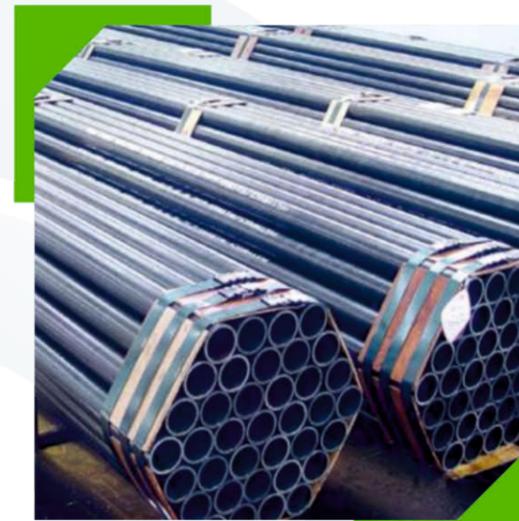


DAMPERS FOR BOILERS

Dampers are essential components in boiler systems, used to regulate airflow and flue gas flow within ducts, chimneys, and stacks. They help control combustion, maintain pressure balance, and enhance boiler efficiency. We offer a range of robust, precisely engineered dampers—including multi-louver, butterfly, and guillotine types—suitable for high-temperature and corrosive environments. Designed for smooth operation and minimal leakage, our dampers ensure reliable performance and are widely used in power plants, refineries, and process industries.



BOILER TUBES (SUPER HEATER/WATERWALL)



Boiler tubes are critical components used to carry hot gases or water in steam boilers, ensuring efficient heat transfer and steam generation. Gramp manufactures high-quality boiler tubes from durable, heat-resistant materials suitable for high-pressure and high-temperature applications. Available in seamless or welded forms, our tubes meet international standards for strength, corrosion resistance, and thermal performance. Widely used in power plants, refineries, and industrial boilers, Gramp's boiler tubes ensure reliability, efficiency, and long operational life.



ECONOMISER COILS



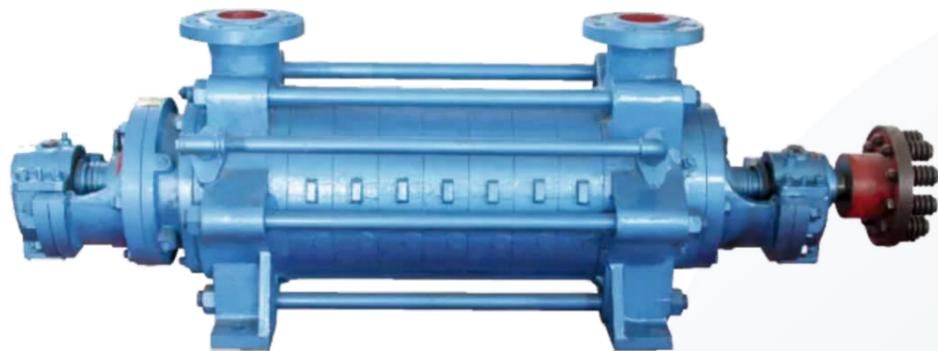
Gramp's Boiler Economizer Coils improve energy efficiency by recovering heat from flue gases to preheat boiler feed water. This process reduces fuel consumption, enhances steaming capacity, extends boiler life, and lowers emissions. Commonly used in steam power plants, these coils lessen the heat load on boilers. Gramp fabricates various types—Plain Tubular, Finned, and Feed Water Heater coils—using CNC tube bending for precision. To prevent erosion, options like half sleeves and SS full-sleeved tubes are also available.

STEAM DRUM INTERVALS (CYCLONES/DEMISTERS)



Steam drum internals are essential components in water-tube boilers, responsible for effective steam-water separation. Key elements include demister pads, cyclone separators, baffle plates, and distribution pipes, which work together to ensure high steam purity and reduce moisture carryover. Gramp designs these internals for optimal flow distribution, enhanced thermal efficiency, and long-term reliability. Built from high-grade materials, they support safe boiler operation and consistent steam quality across power plants, process industries, and high-pressure steam applications.

FEEDWATER PUMPS



A feedwater pump supplies high-pressure water to boilers, ensuring continuous steam generation. It is designed to handle high temperatures and pressures, maintaining efficient boiler operation. Gramp's feedwater pumps offer robust construction, smooth performance, and long service life, making them ideal for power plants, industrial boilers, and process heating systems.

NOZZLES

Our Boiler Nozzles and Spare Parts are trusted across India for their precision engineering and superior quality. Manufactured with high-grade materials, they offer excellent dimensional accuracy, smooth finish, and robust construction. These components are highly resistant to corrosion, impact, and high temperatures, making them ideal for demanding boiler applications. Available in various sizes, lengths, and specifications, they meet diverse industry needs. Their reliable performance and cost-effective pricing further enhance their popularity across the country.

