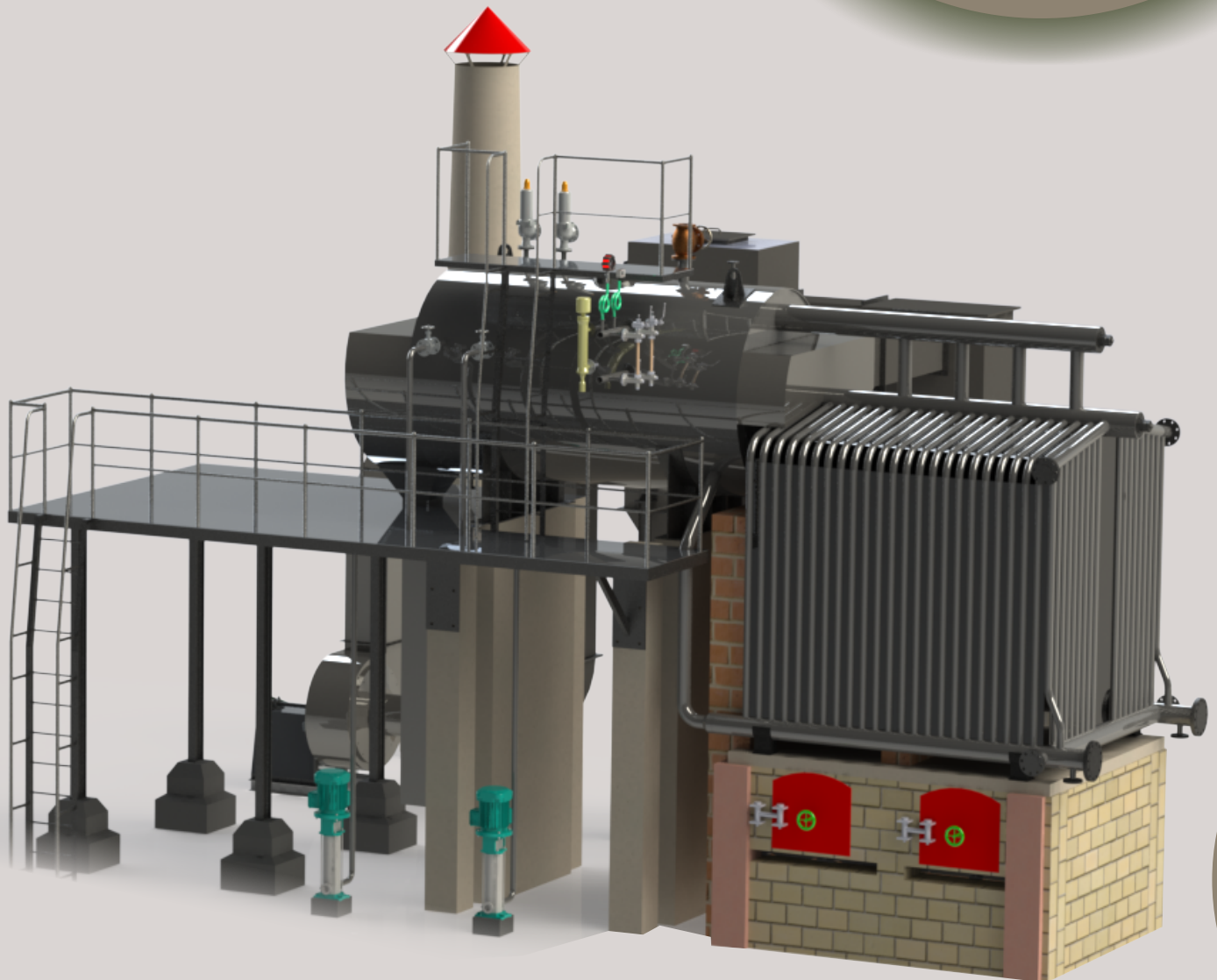


COMBIFLAME



"SHANTI" ENERGY EFFICIENT SYSTEMS

AUTO/MANUAL FEEDING

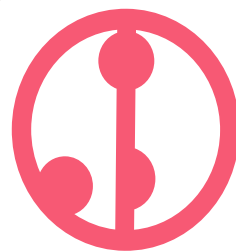
MULTI FUEL COMPATIBLE

ERGONOMIC DESIGN

ENERGY EFFICIENT

1 YEAR WARRANTY

MONEY SAVER



SHANTI
BOILERS
Heating solutions

ABOUT US

Shanti Boilers & Pressure Vessels Pvt. Ltd., is one of the leading name in the of Boilers and heating systems for over three decades. We are the first to manufacture boilers from the state of Telangana & Andhra Pradesh. Our Management comprises of technically qualified people both at management levels and at the technical support level. Our Business mission is to provide maximum efficiency and sustainable solutions with our products and services.

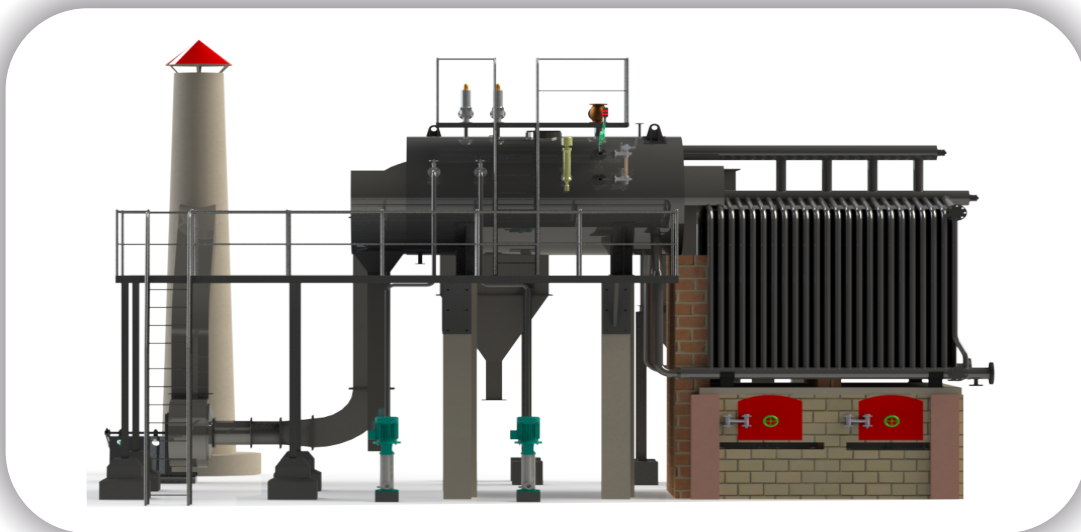
With decades of experience in the process industry we customize integrated solutions for project requirements Processing and many more areas.

SHANTI COMBIFLAME

As the name suggests COMBIFLAME is a Shell & Water walled membrane panel Boiler. It has the advantage of both Fire Tube and Water Tube Steam Boiler. Radiant Zone of the Furnace is the Membrane Panel forming the 1st pass of the Boiler and 2nd & 3rd Pass constitutes the Fire Tubes Convection Zone. Thus the radiant zone recovers the radiant heat and smoke tubes provide large water and steam holding volume to give the maximum advantage. Combiflame is available with Different Design and Gratings to suit variety of Fuels.

TECHNICAL SPECIFICATION OF 'COMBIFLAME'							
Description	unit	SBH-EF-MW-150	SBH-EF-MW-200	SBH-EF-MW-300	SBH-EF-MW-400	SBH-EF-MW-500	SBH-EF-MW-600
Capacity (F&A 100)	kg/hr	1500	2000	3000	4000	5000	6000
Design pressure	kg/cm ² g	10.54/17.5/21					
Efficiency	%	84 (As per BS845 Part 1 NCV Basis)					
		AGRO WASTE/COAL/WOOD/BRIQUETTE/PETCOKE/HUSK					
Fuel Firing Systems		Automatic (with Independent Fuel Feeding System)					
Fuel Consumption	kg/hr	265-275	350-360	530-540	710-720	885-895	1060-1070
Connected Electrical Load	?	?					
Standard Unit (Without PCE)	HP	13.5	16.0	26.0	34.0	44.5	55.0
with MDC / TCDC	HP	14.0	16.5	27.0	35.0	45.0	56.0
Dimensions & Weight							
Unit Assembly (LxWxH)	m	6.0x2.5x3.0	6.0x2.5x3.0	7.0x2.85x4	7.1x3.0x5	7.6x3.0x5	9.2x2.85x5
Chimney Top Diameter	mm	450	500	600	700	800	900
Dry Weight (10.54)	Ton	9.5	12	14	22.0	26.0	29.0

*CAPACITY : 8000-15000 KG/HR & HIGHER PRESSURES SPECIFICATIONS SHALL BE SUBMITTED ON REQUEST.



SALIENT FEATURES OF COMBIFLAME

“SAVES COST/KG OF STEAM GENERATED”

Shanti Combiflame Series model is offered for process steam requirement & co-generation requirement:

1. MODE OF FIRING:

Manual Firing: Shanti Boilers are provided with optimally sized firing doors for conveniently feeding the fuel.

Pneumatic Firing: Shanti Boilers offers Pneumatic feeding option for feeding un-conventional fuels like Saw Dust/ Coal Dust/ Bagasse. The system can also be given as a supplementary system along with FBC Firing

Fluidised Bed Combustion system: For high combustion efficiency and complete combustion for coal & paddy husk.

2. FULLY AUTOMATIC DESIGNED SYSTEM

For Maximum Safety and consistent steam supply.

3. BALANCED DRAFT SYSTEM

Shanti Boilers offer balanced draft system for measured and consistent flow of flue gas through the Boiler.

4. LOW POWER CONSUMPTION

Shanti Boilers are designed and provided with suitably designed drives resulting in Low Power Consumption and Save Energy Cost.

5. STAINLESS STEEL NOZZLES AND FURRELE

Extended tube life and lifelong durability.

6. VERTICAL FEED WATER PUMPS

Lower Power Consumption & Trouble free Working.

7. CAST STEEL SAFETY VALVE

Good quality safety valve for guarantee safeties.

8. MAINTENANCE FRIENDLY BOILER

Shanti Boilers are maintenance friendly. Quick shut down time for cleaning is a unique plus point of Shanti Boilers. Shanti Boilers are provided with adequate number of cleaning manholes in the water tube side and optimum proper opening doors in the flue gas path for easy access to clean the system.

COMBIFLAME

As the name suggests SHANTI COMBIFLAME have option of feeding various types of fuels manually and Mechanically. Depending on application Combiflame series is offered along with different Grates and feeding system.

I. COMBIFLAME (S):

COMBIFLAME (S) is a stationary grate Boiler suitable for Waste Wood Chips , Coal , Briquette. The Grate Bars are specially designed i.e., Box pattern and casted with best proportion of Cr-Mn Casting to provide Strength and long life.



STATIONARY GRATE

IV. COMBIFLAME (RE):

COMBIFLAME (RE) Series is Combination Boiler provided with Reciprocating grate. The Boiler is provided with reciprocating grate driven by a drive. The Fuel is fed through a service hopper fitted at the front end of the Furnace. The Ignited fuel travels through the furnace and total combustion happens till it reached the end of the grate. The Ash drops into the ash chamber. Ash can be removed from the ash door. The Combiflame (RE) is suitable for Multi fuels like : Bagasse , Groundnut shell , Wood waste, and other agro fuels.



RECIPROCATING GRATE

III. COMBIFLAME (T):

COMBIFLAME (T) Series is Combination Boiler provided with travelling grate. The Boiler is provided with travelling grate driven by a drive. The Fuel is fed through a service hopper fitted at the front end of the Furnace. The Ignited fuel travels through the furnace and total combustion happens till it reached the end of the grate. The Ash drops into the ash chamber. Ash can be removed from the ash door. Multiple fuels are suitable for travelling grate like: Coal , Briquette , Wood Waste.



TRAVELLING GRATE

II. COMBIFLAME (FBC):

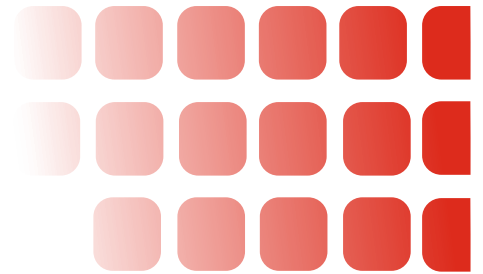
COMBIFLAME (FBC) is supplied as a Fluidized Bed Combustion Boiler. Wherein a specially designed In-Bed Coil Assembly is placed in the Furnace combustion Zone. The fuel is Fed Under – bed or Over-Bed depending on the type quality of fuel. Special Designed High temperature Stainless Steel Bar Stock fabricated Air Nozzles are fitted on air Box for uniform and controlled distribution of Air required for Combustion. Combiflame (FBC) offers very high combustion and Over-all Efficiency due to Fluidization and maximum heat recovery in the In Bed Assembly zone. The Boiler is fitted with best in class fuel feeding system with VFD. COMBIFLAME (FBC) is best suited for Pulverized Coal & PADDY HUSK.

III. COMBIFLAME (POF):

COMBIFLAME (POF) is Pneumatic over feed Boiler best suited for multiple fuel applications. It is designed for multi fuel applications. Fuel is fed into the Combustion chamber with screw feeder arrangement. Air nozzles or fire bars are fitted to the air box for even distribution of Air required for combustion.

ACTUAL SITE INSTALLATION OF COMBIFLAME

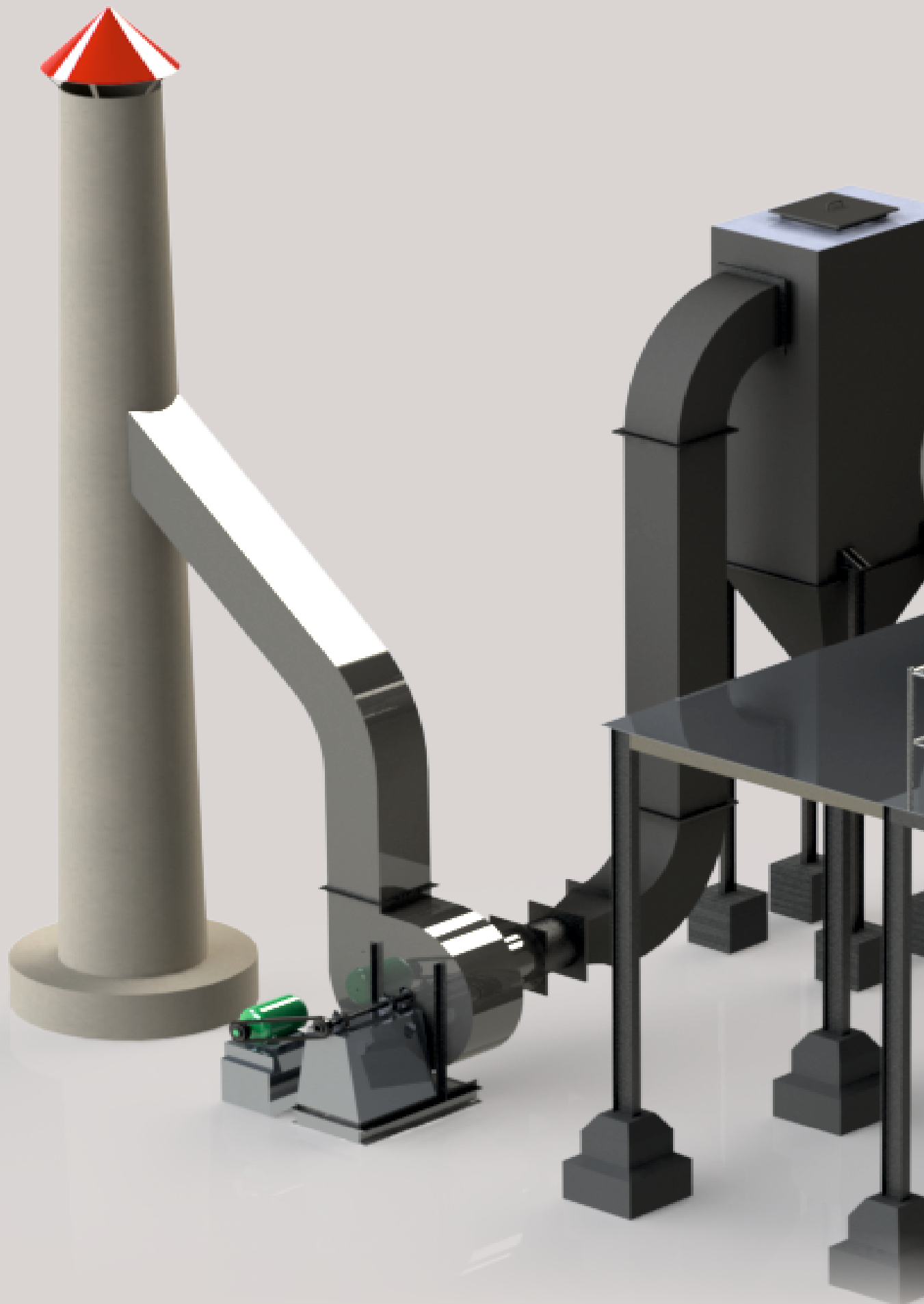
-  MULTIFUEL COMPATIBLE MODEL
-  FIVE PASS HI-BRID DESIGN
-  HIGH COMBUSTION EFFICIENCY
-  MULTI FUEL BOILER
-  1 YEAR WARRANTY*



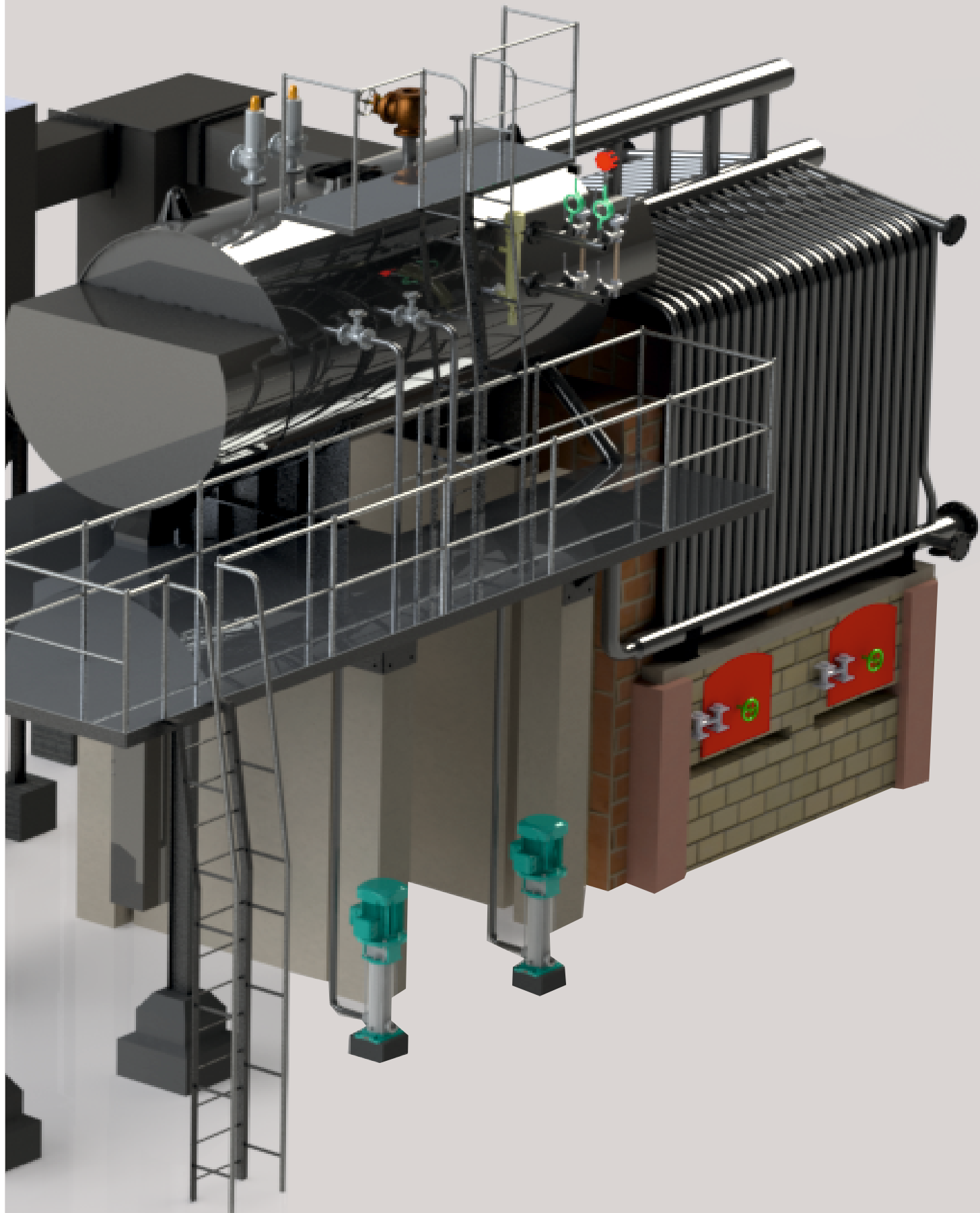
PUMPS



FURREL'S



GENERAL ARRANGEMENT OF COMBIFLAME



OTHER PRODUCTS AND SERVICES

BOILERS:

- ✓ PACKAGED BOILERS: SOLID LIQUID AND GASEOUS FUELS
- ✓ CO-GENERATION BOILERS
- ✓ FBC BI DRUM BOILERS
- ✓ TRAVELLING & RECIPROCATING GRATE BOILERS
- ✓ SMALL INDUSTRIAL BOILERS
- ✓ HOT WATER BOILERS
- ✓ IBR BOILERS
- ✓ NON IBR BOILERS
- ✓ WASTE HEAT BOILERS

HEATERS:

- ✓ THERMIC FLUID HEATERS
- ✓ DE-HUMIDIFIERS
- ✓ GASIFIERS
- ✓ AIR HEATERS
- ✓ AIR PRE-HEATERS

POLLUTION CONTROL SYSTEMS:

- ✓ DUST COLLECTORS
- ✓ DUST SEPERATORS
- ✓ BAG FILTERS
- ✓ WET SCRUBBERS
- ✓ SETTLING CHAMBERS
- ✓ ID FANS, FD FANS, BLOWERS, AXIAL FANS
- ✓ CLARIFIERS
- ✓ CLEAN AIR TECHNOLOGIES

WATER TREATMENT SYSTEMS:

- ✓ WATER SOFTNERS
- ✓ DM PLANTS
- ✓ REVERSE OSMOSIS PLANTS
- ✓ DE-ODORISERS

WATER TREATMENT & FIRE SIDE:

- ✓ FEED WATER & DESCALING

EFFLUENT TREATMENT PLANTS

SEWAGE TREATMENT PLANTS

Boilers manufactured under leading 3rd party approval agencies like Tata Projects, Lloyd's Register, DNVTUV, IBR.

■■■■■ IN INDIA ■■■■■

VIJAYAWADA, VIZAG, BHUBANESWAR, KOLKATTA, BANGALURU, MANGALORE, COCHIN, KANNUR, NASIK, MUMBAI

■■■■■ ABROAD ■■■■■

DHAKA, SRILANKA, MYANMAR, KENYA, GHANA, NIGERIA, DUBAI



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All accessories shown do not form part of standard supply. In view of our endeavour to improve the quality for our products, the Company reserves the right to alter or change specifications without prior notice.