

WE ALSO SPECIALIZE IN:

- Steam Boilers fired with Coal, Wood or any other Solid fuels, Oil, Gas, Oil cum Gas.
- Fully automatic steam boilers fired with Husk.
- Thermic fluid heaters fired with Coal, Wood, Husk, Oil, Gas, Oil cum Gas.
- Hot Water Boilers fired with Coal, Wood, Husk, Oil, Gas, Oil cum Gas.
- Hot Air Generators fired with Oil, Gas, Oil cum Gas.
- Non-IBR Steam Boilers fired with Oil, Gas.
- Small Industrial Boilers fired with Coal, Wood, Oil and Gas.
- Economisers, Gasifier, Super Heaters, Boiler Coils and other Boiler Accessories.

SALES & SERVICE:

We assist you in the selection of the correct size of boilers, boiler house layout, supply and erection of complete boiler house auxiliaries, supply of spares as well as commissioning and advising on the maintenance and operation of your boiler.

A fully trained and competent team of Service Engineers are available whenever necessary at all our branches. All our branches are well equipped with essential instruments, tools and spares required for a variety of maintenance and repairs.

SALES & SERVICE OFFICES AT:

Bangalore, Bhuvaneshwar, Cochin, Davangere, Hyderabad, Kolkatta, Madurai, Coimbatore & Sri Lanka.



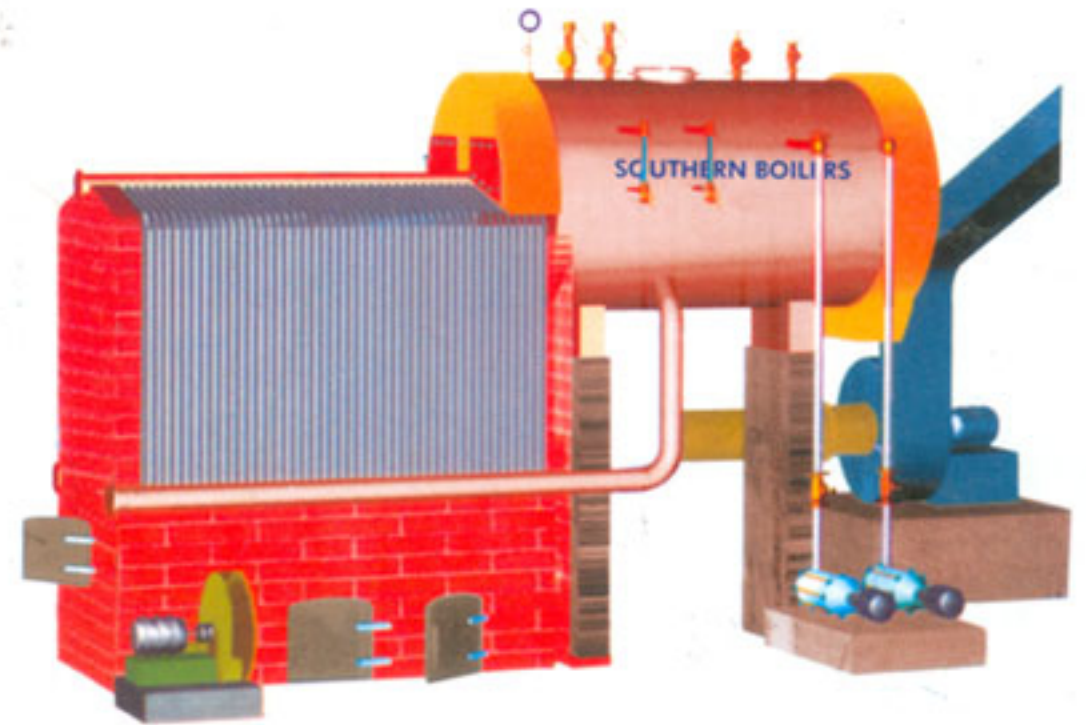
SOUTHERN BOILERS AND EQUIPMENTS (P) LTD.

H.O.: Y-169, I Street, Annanagar, Chennai - 600 040, Tamil Nadu, India.
Telex : 26215220, 26268685, 26204123, 26202009, E-mail: naitelsb@vsnl.com
Factory : 93, Sidco Industrial Estate, Kakkalur - 602 003, Trivellore Dist.,
Tamil Nadu, India. Phone : 04116-262120 / 263531.

SOUTHERN BOILERS AND EQUIPMENTS

Three Pass Package

Water cum Smoke tube Boiler



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SALIENT FEATURES

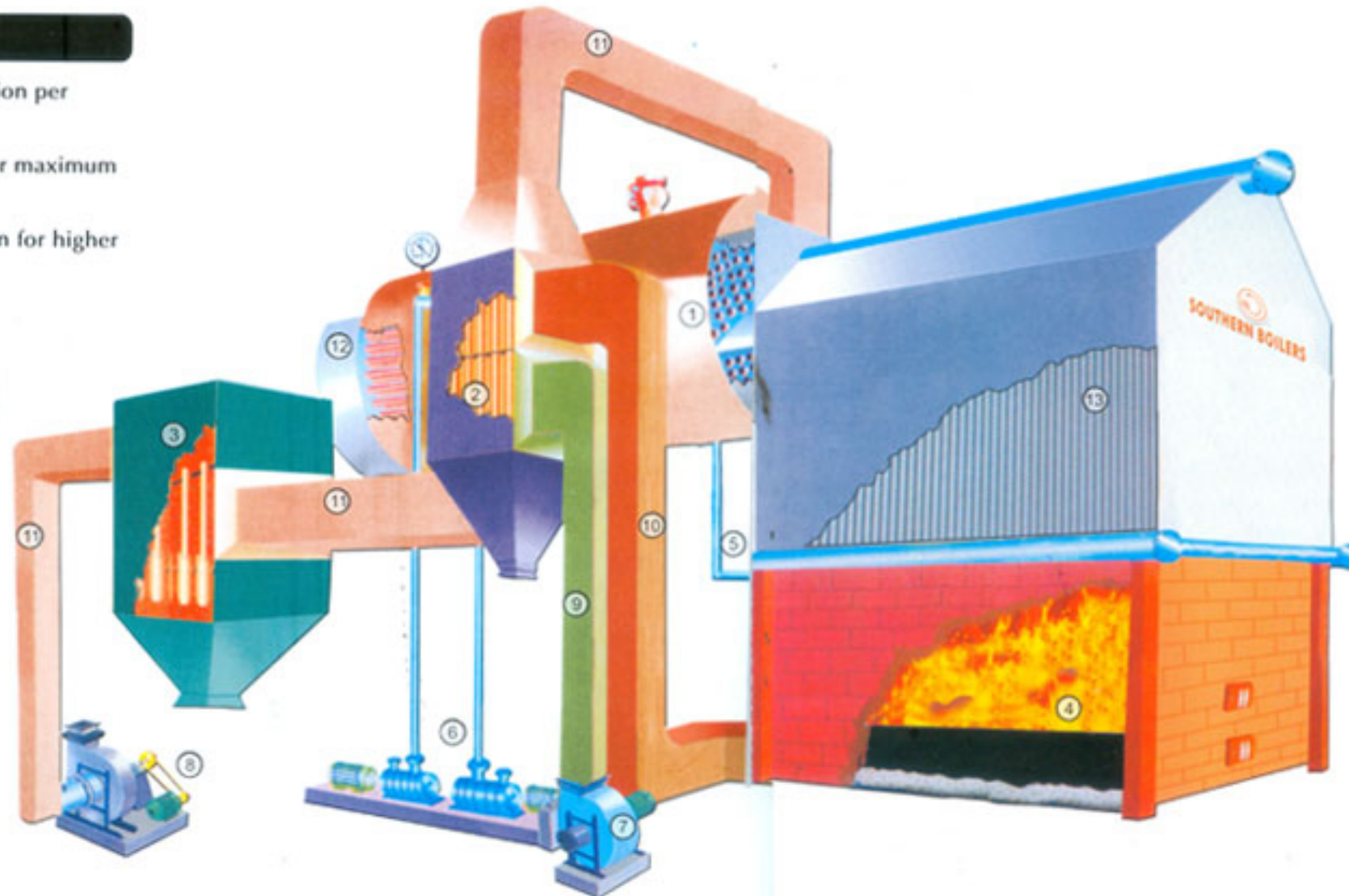
- ❖ Multi Fuel option Viz. wood, coal, Agro Wastes like paddy husk, saw dust, DOB & bri-quetted fuels.
- ❖ Large steam space ensures dry steam.
- ❖ Three passes optimum heat recovery.
- ❖ Easy access for inspection and cleaning.
- ❖ Lowest operating cost coupled with trouble free operations and long life.

ADVANTAGES

- ❖ External furnace for more combustion per grate area.
- ❖ External furnace with water wall for maximum utilization of combustion heat.
- ❖ Smoke cum water tube combination for higher efficiency.

Parts

1. Boiler shell and Tube Section
2. Air Preheater
3. Mechanical Dust Collector
4. Combustion Chamber
5. Down Comers
6. Feed Water Pumps
7. FD Fan
8. ID Fan
9. Cold Air Duct
10. Hot Air Duct
11. Flue Gas Duct
12. Back Smoke Box
13. Membrane Water Wall



CONTROLS & SAFETY

- ❖ Water level controller for automatic pump operation, to maintain water level.
- ❖ Pressure switch to cut off fans in case of high steam pressure.
- ❖ Even if all the controls of safety devices fails, fusible plug will safe guard the boiler from low water level.

POLLUTION CONTROL

Cyclone Dust Collector

- ❖ Removes dust from flue gases by centrifugal action.
- ❖ Prevents erosion of ID fan impeller from flue gas.
- ❖ Easy removal of ash / heavy dust particles.

OPTIONS

Water Pre-heater

- ❖ Increase thermal efficiency with extra heat recovery from flue gases.
- ❖ Comprises of shell and tube Non-IBR heat exchanger located in downstream of boiler.

Air Pre-heater

- ❖ Increases thermal efficiency due to additional heat recovery from flue gases.
- ❖ Comprises of Multipass tubular air preheater, FD fan with specially designed interconnecting duct work and supports.
- ❖ Boiler operates under balanced draft. FD fan provides, controlled excess air, giving further reduction in fuel consumption.
- ❖ Promotes combustion, especially with high moisture fuels.