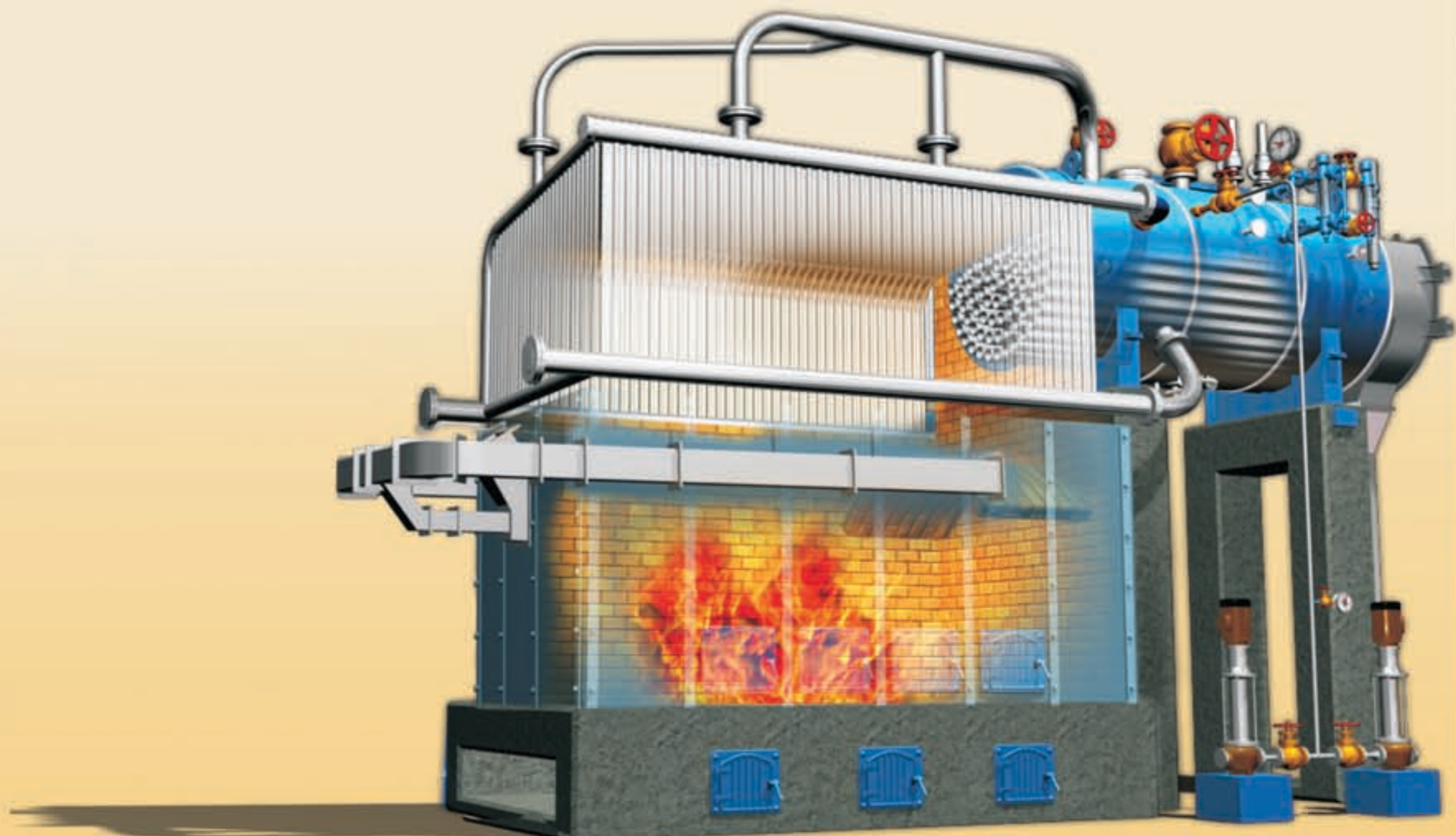


Cooling & Heating



COMBIPAC

The efficient way to lower fuel bills

Combipac

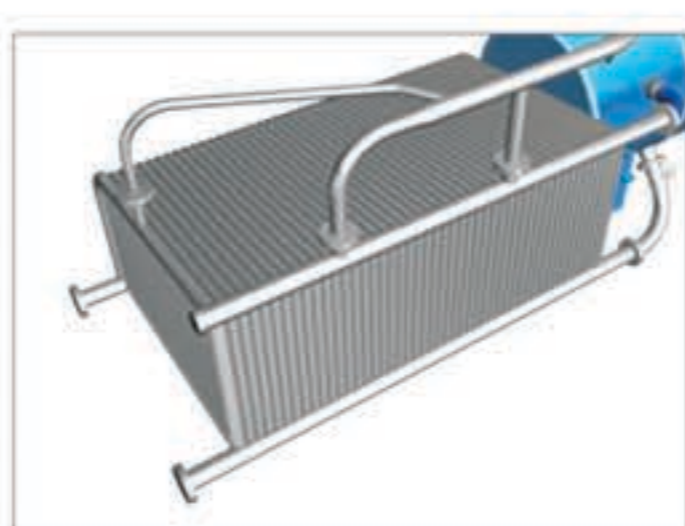
Combipac is an ideal alternative to expensive oil fired boilers. It enables large savings on fuel bills through the use of low cost agro-waste, and other solid fuels, that are abundantly and easily available

Product highlights

- Hybrid design of smoke and water tube
- External furnace and four-side membrane panel, with cycloidal air injection
- Capacity - 2 to 10 TPH for fix grate boilers & 4 to 16TPH for fluidised bed boilers
- Fuel - Indian and imported Coal, lignite, bagasse, groundnut shell, paddy husk, wood, sawdust petcoke (other fuel firing options also available on request)
- Fuel firing - manual/automatic
- Standard design pressure - 10.54 and 17.5 kg/cm²g
- Air pre-heater an integral part of boiler

Unique 4 side water wall (for CPD Series)

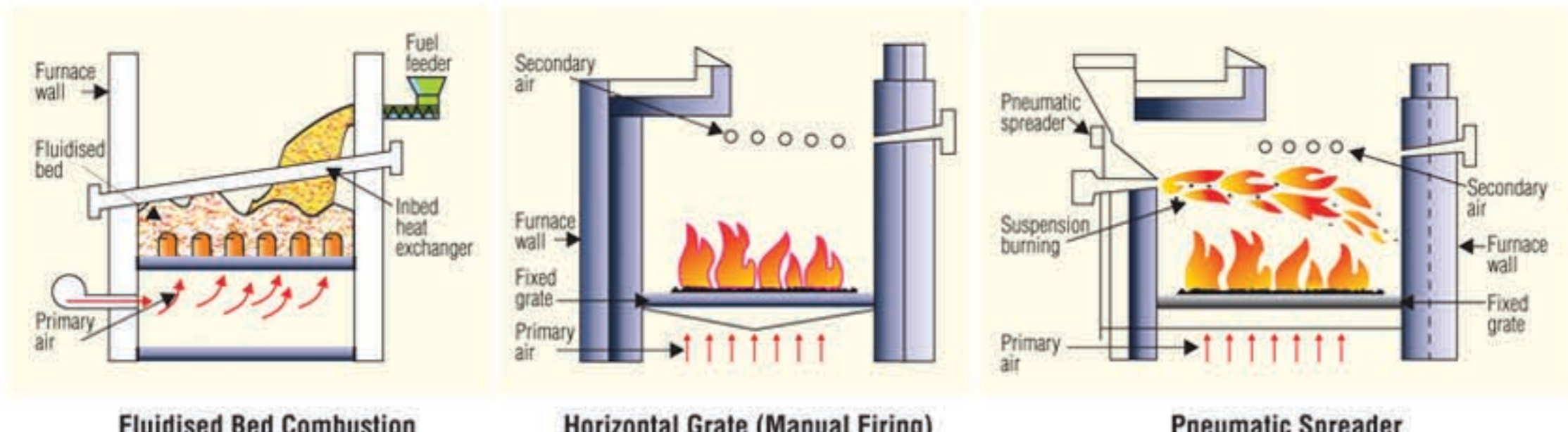
- Reduced refractory and site work
- Higher heat transfer area in the radiation zone, so higher efficiency
- Lowers flue gas entry temperature to shell. Ensures long operating life



Combustion technology

Complete combustion of solid fuel, in the Combipac, is achieved by ensuring the 3Ts (Time, Temperature and Turbulence) of fuel and air. Every solid fuel has different physical and chemical properties that influence boiler performance. Properties of ash also play a critical role in the operation and maintenance of boilers. Combipac has been specially designed to ensure compatibility with various fuel firing options.

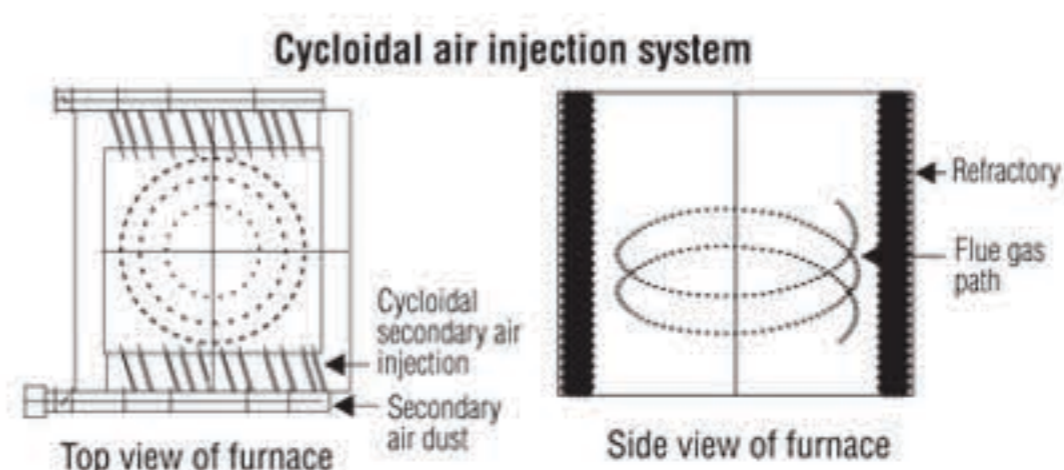
Right furnace for every requirement



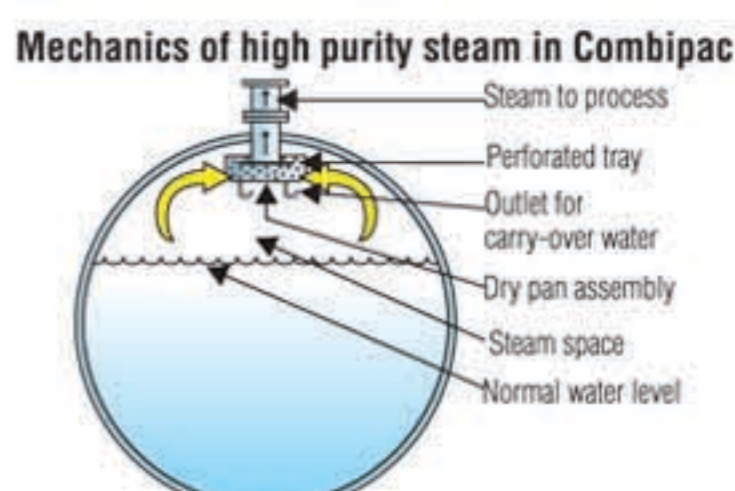
Engineered for maximum benefits

Low operating costs

- Cycloidal air injection system improves combustion significantly and reduces heat loss due to low excess air



- Delivers high purity steam which increases usable heat to the process, thus reducing fuel costs. This comes from having sufficient freeboard height and large disengaging surface area. The result - dryness fraction of 98% and above



- Special furnace design ensures complete combustion, lower power consumption and reduced erection costs
- Air pre-heater for enhanced efficiency through improved combustion

High reliability

- Simplified, single pass shell reduces erosion. Also facilitates easy cleaning

Designed for safe operations

- High flue gas temperature cut-off with electronic display
- High steam pressure cut-off
- Water level indicator and controller
- Fusible plug
- Balanced draft system
- Two safety valves

Options to suit different requirements

- Solid fuel and bio-gas can be burnt in combination
- Capacities from 10 to 32 TPH, higher pressures also available
- Element Control: *Single element* to control water level, *Two elements* to control water level and steam flow and *Three elements* to control water level, steam flow and feed water flow
- Pollution control equipment like multi-cyclone dust collector, cyclomax, bag house, ESP etc.
- Complete boiler house and accessories package on turnkey basis