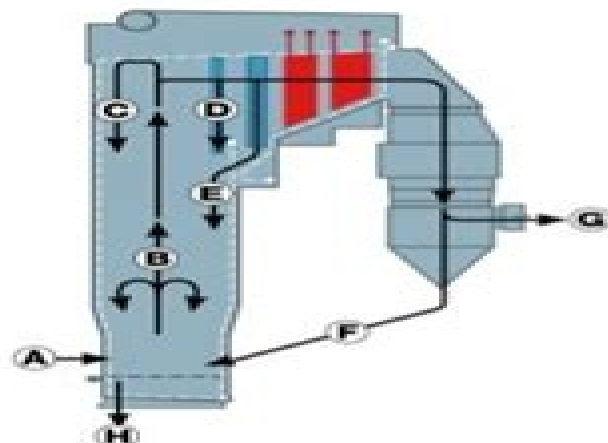


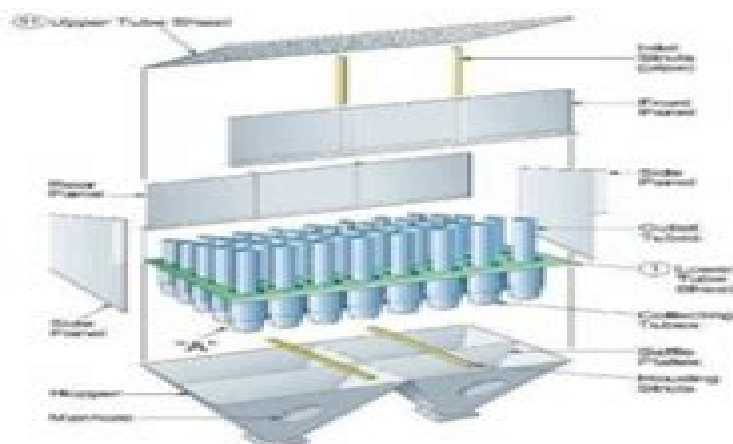
Gas Flow and Solids Flow

The flue gas generated plus entrained solids pass from the furnace to the U-beam separators. Nearly all the entrained solids are collected in the U-beam separator and fall back into the furnace. The flue gases continue through the convention pass, air heater, ESP and ID fan. Solids collected in the hopper below MDC are re-injected into the furnace to further enhance combustion efficiency.

- A** Fuel and sorbent solids entering the furnace
- B** Upward solids flow
- C** Solids reflected by roof
- D** In-furnace U-Beam recycles
- E** External U-Beam recycles
- F** Multicyclone recycles
- G** Solids not captured by multicyclone
- H** Bed drain



The Hot Particle capture in MDC and External Re-circulation System:



The particles escaped from the series of U beams travels with flue gas pass through MDC, through the plain tube inline economizer and multi-tubular air heater tubes, takes a turn to reach inlet of ESP. A hopper provided at the bottom of APH collects some amount of particles.

Mechanical dust collector (MDC) is located down stream of economizer. Fly ash particles collected in the MDC will be conveyed to the furnace through air slides for better control of furnace temperature profile.

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