

La-Mont Boiler

Boilers

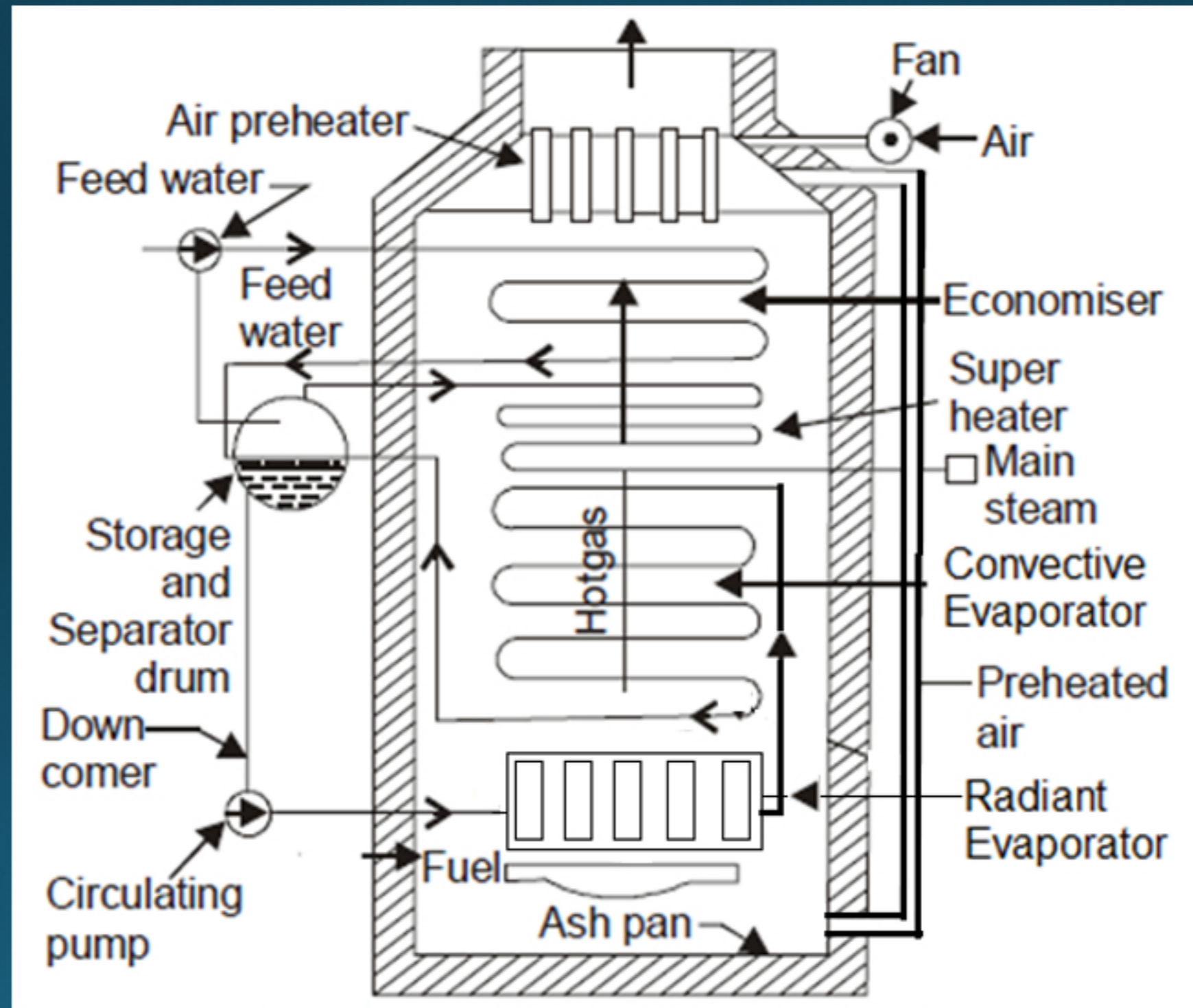
La-Mont Boiler

- Lamont boiler is a high pressure, forced circulation, water tube boiler with internally fired furnace.
- An external pump is used to circulate the water within small diameter water tubes of the boiler.
- This boiler was invented by Walter Douglas La-Mont in the year 1925. At that time this boiler was invented to use in ships.
- It works on the principle of forced circulation of water within the boiler with the help of centrifugal pump.
- Its working is totally depends upon the pump. The centrifugal pump circulates the mixture of steam and water through the small diameter tubes of the boiler.

Construction

- Feed Pump
- Economizer
- Steam separating drum
- Circulating Pump
- Radiant Evaporator
- Convection Evaporator
- Superheater

Working of La-Mont Boiler



Advantages and Disadvantages

Advantages

- It can be easily started.
- High steam generating capacity.
- It has high heat transfer rate.
- This boiler can be reassembled with the natural circulation boilers.
- Its design is simple.

Disadvantages

- There is a bubble formation at surfaces of the tubes in this boiler. This reduces the heat transfer rate to the steam.