

Boilers

Q. What is a boiler?

Ans. Broadly speaking, a boiler is a device used for generating.

(a) steam for power generation, process use or heating purposes, and (b) hot water for heating purposes.

However, according to the Indian Boiler Act, 1923, a boiler is a closed pressure vessel with capacity exceeding 22.75 litres used for generating steam under pressure. It includes all the mountings fitted to such vessels which remain wholly or partly under pressure when steam is shut-off.

Q. What is the difference between a steam boiler and a steam generator?

Ans. Technically speaking, a steam boiler consists only of the containing vessel and convection heating surfaces, whereas a steam generator covers the whole unit, encompassing waterwall tubes superheaters, air heaters and economizers.

Q. How are boilers classified?

Ans. Boilers are classified on the basis of:

1. Mode of circulation of working fluid
2. Type of fuel
3. Mode of firing
4. Nature of heat source
5. Nature of working fluid
6. Position of the furnace
7. Type of furnace
8. Boiler size
9. Materials of construction
10. Shape of tubes and their spatial position
11. Content of the tubes
12. Steam pressure
13. Specific purpose of utilization
14. General shape
15. Manufacturer's trade name

16. Special features.

Q. What is circulation?

Ans. It is the motion of the working fluid in the evaporating tubes. This motion is effected by head or pressure difference in the working fluid between the downcomer and uptake (riser) tubes.

The circulation may be natural or forced and the circulation circuit formed by the heated and unheated tubes may be a closed or open hydraulic system. A once-through boiler represents an open-hydraulic system (Fig. 1.3). While in natural (Fig. 1.1) and forced multiple circulation boilers (Fig. 1.2), the circulation circuit is a closed hydraulic system. In combined-circulation (Fig. 1.4) boilers, the plant operates on closed hydraulic system at the start-up and is switched over to an open hydraulic system after attaining the specified load.

Q. How are boilers classified on the basis of mode of circulation of working fluid?

Ans.

1. Natural circulation boiler
2. Forced (i.e., positive) circulation boiler

Q. What is natural circulation?

Ans. The natural convection of water set up in the closed hydraulic system of heated and unheated tubes of the waterwall.

Q. How is it accomplished?

Ans. The natural convection current is induced to water due to a difference in density resulting from difference in temperature.

The baffle separates out the heated riser from the unheated downcomer and therefore creates a temperature difference between the two tube systems.

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