

# 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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**Theodore Sauselein**



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*A Guide to Boiler Operation Engineering - For BOE/ 1st Class and 2nd Class Boiler Attendants' Proficiency Examination* Er. Kiran Kumar Patra,2022-06-16 This is a desk book focusing on Boiler Operation Engineering BOE for Power Plant Engineers This has been written by an experienced professional with an all round techno commercial background There are a lot of details provided in this book through explanations charts graphs guidelines and comparisons which are needed by a reader To make referencing easy such data are collated and presented as lists of references and useful data in the front matter and

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**Boiler Operation Engineering** Mann Kaiser,2012-09 This book is specifically written as a fix it fast reference for boiler operators inspectors maintenance engineers and technicians Topics covered include equipment safety water treatment steam generation fuels maintenance inspection repair and the current ASME Boiler Code

*Practical Boiler Operation Engineering and Power Plant* Amiya Ranjan Mallick,2015-11-30 Provides hands on coverage of dealing with normal and emergency situations during plant operation Beginning with the fundamentals the book explores the concepts of boilers steam turbines and other auxiliary systems The text explores various real life situation related topics involving operation commissioning maintenance electrical and instrumentation of a power plant

*Boiler Operator's Exam Preparation Guide* Theodore B. Sauselein,1997-03-22 If the exam is on boiler operation this guide is your fast track to acing the test It was written by a licensed professional engineer specifically for those who work with boilers and want to pass licensing exams With this results oriented review guide you ll save study time The Boiler Operator s Exam Preparation Guide focuses right in on exactly the kind of problems you will find on your exam It s packed with practice multiple choice problem solving and essay questions to help you prepare plus this guide shows you how to answer step by step Working at your own pace you ll polish up your problem solving skills and build up your knowledge of the underlying theories of thermodynamics and mechanics The Boiler Operator s Exam Preparation Guide is your one stop source for acing any exam on boiler operation

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