

Common Boiler Types

BOILER TYPE	CAST IRON	ELECTRIC	FIREBOX	FIRETUBE	FLEXIBLE WATERTUBE	INDUSTRIAL WATERTUBE	VERTICAL FIRETUBE
BOILER CHARACTERISTIC COMPARISON							
Efficiency	Low	High	Medium	Medium	Medium	Medium	Low/Medium
Floor Space Required	Low	Very Low	Medium	Medium/High	Low	High	Very Low
Maintenance	Medium/High	Medium/High	Low	Low	Medium	High	Low
Initial Cost	Medium	High	Low	Medium/High	Low/Medium	High	Low
Pressure Range	Hot Water * LPS	Hot Water * LPS ** HPS to 100 psig	Hot Water * LPS	Hot Water * LPS to 150 psig	Hot Water * LPS	High Temp. water Hot Water * HPS to 100 psig	Hot Water * LPS to 150 psig
Typical Sizes	to 200 hp	to 300 hp	to 300 hp	to 1500 hp	to 250 hp	to 250,000 PPH (Flat top)	to 500 hp
Typical Applications	Heating or Process	Heating or Process	Heating	Heating or Process	Heating	Process	Heating or Process
Additional Information	Field Erectable	Package	Package	Package	Field Erectable	Package or Field Erectable	Package

*LPS—Low Pressure Steam; **HPS—High Pressure Steam

① Pressure—Low (20 to 299), Medium (300 to 599), High (600 to 999)

Steam Trap Selection Guide

Application	Trap Type				
	Float & Thermostatic	Thermo-Dynamic	Balanced Pressure	Electrostatic	Inverted Bucket
Steam Mains					
to 50 psig	1				2
to 100 psig	1	1			2
to 400 psig		1			2
to 700 psig		1			2
to 2000 psig		1			2
with Superheat		1		2	2
Steam Tracing					
critical	1	2	2		
non-critical	2	1	1		
Heating Equipment					
Hot & Cold Heat Exchangers	1				2
Heating Coils Unit Heaters	1				2
Hot & Cold Exchangers Packaging	1				2
Process Equipment					
to 50 psig	1				2
to 200 psig	1				2
to 400 psig	1				2
to 600 psig					1
to 900 psig					1
to 2000 psig					1
Hospital Equipment					
sterilizers	1		2		
laundries	1		2		
Food Oil Heating					
Bulk Storage Tanks and Heaters	2		1		
Tanks & Vats	2		1		
Tanks & Vats					
Bulk Storage Tanks	2		1		
Process Vats	1		2		

1—float trap; 2—thermo trap

Troubleshooting Steam Traps

General Problem	Probable Cause	Corrective Action
Cold Trap - Trap fails to discharge condensate	Pressure may be too high	<ol style="list-style-type: none"> Working pressure or ratings specified. Pressure reduced without installing greater orifice. PSW out of order. Orifice enlarged by normal wear.
	No condensate or steam coming to trap	<ol style="list-style-type: none"> Stripped or plugged orifice. Broken valve in line to trap. piping or orifice plugged.
	Water or defective mechanism	Repair or replace as required
	Trap body filled with dirt	Install strainer or remove dirt at source
Hot Trap - No Discharge	Inverted bucket (IB) vent filled with dirt	<ol style="list-style-type: none"> Install strainer. Enlarge vent slightly. Use floatless venting strainer.
	Float and Thermostatic (F&T)	<ol style="list-style-type: none"> The trap will steam bind if the air vent is not functioning properly.
	Thermostatic traps	<ol style="list-style-type: none"> The bellows element may rupture from hydraulic shock, causing the trap to fail closed.
Steam Loss - Trap allows the steam	Valve fails to seat	<ol style="list-style-type: none"> Place a gasket or lodge in orifice. Worn parts. Repair or replace as needed.
	Inverted bucket trap loses its prime	<ol style="list-style-type: none"> Close the inlet valve for a few minutes. Then open slowly. If the trap catches its prime, the trap is probably not damaged. Repeat this slowly shut to submerse or frequent drings in steam pressure.
Continuous Flow	Trap is too small	<ol style="list-style-type: none"> A larger trap, or additional traps should be installed in parallel. High pressure traps have traps used for a low pressure application, install the proper sized pressure relieving trap.
	Abnormal water conditions	<ol style="list-style-type: none"> Boiler may foam or prime, causing large quantities of water to enter the steam lines. The freshwater conditions should be corrected and a separator installed.

Boiler Operator Guide

Carl Buzzuto



Boiler Operator Guide:

Boiler Operator's Guide Anthony L. Kohan,2000 **Boiler Operator's Guide** ,1991 *Boiler Operator's Guide* Harry M. Spring,1980-12-01 A complete revision of 1940 classic manual on steam boiler operation maintenance to aid steam boiler engineers inspectors those persons who are preparing to pass license exams **Boiler Operator's Guide, 5E** Anthony L. Kohan,2021-01-01 The classic guide to boiler operation and maintenance revised to cover the latest technology and standards Quickly and easily solve any boiler problem using the hands on information contained in this fully updated industry standard resource The book clearly explains the many different types of boilers operation maintenance inspection and testing procedures and points out potential problems This new edition has been thoroughly overhauled to align with all current regulations including the latest version of the ASME BPV Code and NB Inspection Code You will get practice questions and answers to reinforce salient points and help you prepare for the Boiler Operator s or Stationary Engineer exam **Boiler Operator s Guide Fifth Edition** covers Firetube and watertube boilers Electric and special application boilers Boilers with new technology Nuclear power steam generators Fabrication by welding and NDT Material testing code strength and stresses Boiler connections and appurtenances Combustion burners and controls Boiler auxiliaries and external water treatment Boiler water and in service problems and inspections Boiler plant training List of jurisdictions *Boiler Operator's Guide, Etc* Harry M. Spring (the Younger.),1940 **Boiler Operator's Guide, Etc** Harry Mortimer SPRING,1940 *Boiler Operator's Handbook* Kenneth E. Heselton,2005 Written for the boiler operator who has knowledge and experience but would like to learn more in order to optimize his performance this text is also clearly presented enough to be an indispensable guide for those beginning their careers as well as being suitable for managers and superintendents interested in reducing a facility s operating expense Based on the author s forty years of experience in boiler plant operation design construction start up retrofit and maintenance it contains absolutely key recommendations to operators and managers of plants large and small *Boiler operator's guide* Harry Mortimer Sprint,1940 Boiler Operator's Guide Harry Mortimer Spring,Anthony Lawrence Kohan,1981 *Boiler Operator's Guide; Construction, Operation, Inspection, and Maintenance of Steam Boilers, with 310 Typical Stem Engineer's Examination Questions* Harry M. Spring,1940 Boiler Operator's Guide ; Construction, Operation, Inspection, and Maintenance of Steam Boilers, with 310 Typical Steam Engineer's Examination Questions and Answers Harry Mortimer Spring,1840 **Boiler Operator's Guide** Harry Mortimer Spring,1968 **Boiler Operator's Guide** Harry Mortimer Spring,1940 **The Boiler Operator's Exam Preparation Guide** Theodore B. Sauselein,1997 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

Heating Boiler Operator's Manual: Maintenance, Operation, and Repair Mohammad A. Malek, 2007-01-02 Master Every Aspect of Heating Boiler Operation Maintenance and Repair and Pass Your Licensing Exam with Flying Colors Both a valuable on the job tool and a licensing exam study guide the Heating Boiler Operator's Manual offers boiler professionals a clear straightforward account of cutting edge methods for the operation maintenance and repair of today's heating boilers This essential reference provides everything needed to keep boilers used for steam heating hot water heating and hot water supply in peak condition Written by a renowned boiler expert this on target resource takes readers through every heating boiler topic ranging from the various boiler types to design and fabrication methods to accessories and fittings The book fully examines modular boilers fuel systems boiler rooms instruments and controls water treatment and much more Packed with 100 detailed illustrations the Heating Boiler Operator's Manual gives you Complete details on emission controls and environmental constraints The latest code requirements and calculations In depth coverage of new instruments and controls Safety requirements in boiler rooms Excellent preparation for the Heating Boiler Licensing Exam This All in One Operating Manual and Study Guide Explores Boiler basics Steam boilers Hot water heating boilers Hot water supply boilers Hot water heaters Cast iron boilers Modular boilers Boiler design Boiler fabrication Accessories and fittings Fuel systems Emission controls Boiler rooms Instruments and controls Operation Inspection Maintenance Repairs Water treatment

Boiler Operators Handbook National Industrial Fuel Efficiency Service (Great Britain), NIFES Ltd, 1989 The popularity of the Boiler Operators Handbook has prompted the issue of this revised and completely updated edition which examines the change of emphasis from coal fired to oil and gas fired boilers The new Boiler Operators Handbook will help the operator carry out his important work with skill and efficiency The good management of a boiler plant should ensure the production of good quality steam in a safe and fuel efficient manner to minimise air pollution All these issues are emphasized throughout the new edition The NIFES consulting group has been responsible for the training of boiler operators since 1954 and this high level of experience is combined with the very latest technological advances to make this new edition essential reading for the boiler operator

Boiler Operator's Handbook Carl Buzzuto, 2021 With the increased interest in climate impacts sustainability and efficiency more responsibility is being placed on boiler operators to help improve performance and reduce emissions This third edition of the Boiler Operator's Handbook is intended to help such operators in the quest for improved operability and performance of their boilers and their plants The theme of this book is to operate wisely The goal is to instill not only know how but know why The main details have been provided by the original author Mr Ken Heselton This updated version has been somewhat expanded to include a wider range of examples and some of the more recent environmental

requirements To illustrate these points topics include multi boiler operations understanding the plant load maintenance issues and controls Every plant is different However it is hoped that with the information provided in this book the wise operator will be able to address the various unique issues posed by the specific plant and provide timely solutions to meet the present day requirements Industrial Boiler Management Kenneth G. Oliver,1989 Stresses codes and safety throughout with emphasis on warnings and consequences where applicable Contains 16 procedures for reducing fuel costs plus simple graphs and instructions for checking improving and calculating boiler efficiency and fuel consumption Covers topics not discussed in other books such as splitting the plant load between two or more boilers cogeneration and its impact on boiler plant operation high altitude operation plus much more Provides directions for setting up a preventive maintenance program Lists causes and cures for common boiler troubles and detailed procedures for accidents Offers vital information on water and water treatment allowing the reader to properly understand and follow the necessary procedures Includes a section on deliberately overfiring a boiler discussing the limitations dangers and suggested procedures with appropriate warnings

Boiler Operator's Handbook, Second Edition P.E. Heselton,2020-11-26 This book was written specifically for boiler plant operators and supervisors who want to learn how to lower plant operating costs as well as how to operate plants of all types and sizes more wisely It is newly revised with guidelines for HRSGs combined cycle systems and environmental effects of boiler operation Also included is a new chapter on refrigeration systems that addresses the environmental effects of inadvertent and intentional discharges of refrigerants Going beyond the basics of keeping the pressure up the author explains in clear terms how to set effective priorities to ensure optimal plant operation including ensuring safety and continuity of operations preventing damage managing environmental impact training replacement plant operators logging and preserving historical data and operating the plant economically *Boiler Owner and Operator's Guide* National Board of Boiler and Pressure Vessel Inspectors,1994

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