

Technical Information

Installation, Operation, and Maintenance Manual

Parker Balston® Model H2-500 Hydrogen Generator



Figure 1 - Hydrogen Generator with flow diagram and water check.



WARNING: This product generates hydrogen gas. If hydrogen is contained and combined with oxygen and an ignition source, it can create an explosion. While normal use of this product would not create an explosion hazard, care must always be taken when using hydrogen. Failure to operate this product in accordance with instructions set forth in this manual can create a hazardous situation.

- Do not use a hydrogen gas storage vessel in conjunction with the hydrogen generator. Stored quantities of hydrogen pose an explosion hazard.
- Normal precautions for any hydrogen supply should be taken when using the hydrogen generator. **DO NOT USE IN A SEALED OR UNVENTED ROOM.**
- **DO NOT USE AN OPEN FLAME OR OTHER IGNITION SOURCE WITHIN 16 INCHES (25cm) OF THE OXYGEN VENT!**



CAUTION: THIS PRODUCT IS SHELF LIFE SENSITIVE. DO NOT STORE FOR MORE THAN 3 MONTHS PRIOR TO INSTALLATION AND OPERATION. Failure to follow this will cause the product to fail due to the drying of the membrane used for separation.

These instructions must be thoroughly read and understood before installing and operating this product. Any modification of the product will void the warranty. Failure to operate this product in accordance with the instructions set forth in this manual could jeopardize the safety of the operator.

If you have any questions or concerns, please call Technical Services Department at 800-343-4048, 8AM to 5PM Eastern Time (North America only). For other locations, please contact your local representative. Send email to: BalstonTechSupport@Parker.com.

General Description

The Hydrogen Generator Model H2-500 (see Figure 1), is a completely engineered system designed to produce ultra-pure, dry hydrogen gas from deionized water using a Proton Exchange Membrane cell¹. The hydrogen generator utilizes the principle of electrolytic dissociation of water and hydrogen proton conduction through a Solid Polymer Electrolytic membrane. The hydrogen stream is purified using a coalescing filter, a drying tube, and a palladium purifier. The outlet pressure of the unit is 90 psig (6.12 barg) with a maximum hydrogen delivery flow rate of 500 cc/min.

The hydrogen generator is ideal for use in Flame Ionization Detectors (FIDs), Thermal Conductivity Detectors (TCDs), Trace Hydrocarbon Analyzers, and other general laboratory equipment requiring a source of pure hydrogen.

Bulletin TH-H2-500E

Parker Hydrogen Generator H2 500user Manual

Tao Wei



Parker Hydrogen Generator H2 500user Manual:

The book delves into Parker Hydrogen Generator H2 500user Manual. Parker Hydrogen Generator H2 500user Manual is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Parker Hydrogen Generator H2 500user Manual, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Parker Hydrogen Generator H2 500user Manual
 - Chapter 2: Essential Elements of Parker Hydrogen Generator H2 500user Manual
 - Chapter 3: Parker Hydrogen Generator H2 500user Manual in Everyday Life
 - Chapter 4: Parker Hydrogen Generator H2 500user Manual in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Parker Hydrogen Generator H2 500user Manual. The first chapter will explore what Parker Hydrogen Generator H2 500user Manual is, why Parker Hydrogen Generator H2 500user Manual is vital, and how to effectively learn about Parker Hydrogen Generator H2 500user Manual.
 3. In chapter 2, the author will delve into the foundational concepts of Parker Hydrogen Generator H2 500user Manual. The second chapter will elucidate the essential principles that must be understood to grasp Parker Hydrogen Generator H2 500user Manual in its entirety.
 4. In chapter 3, the author will examine the practical applications of Parker Hydrogen Generator H2 500user Manual in daily life. The third chapter will showcase real-world examples of how Parker Hydrogen Generator H2 500user Manual can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Parker Hydrogen Generator H2 500user Manual in specific contexts. This chapter will explore how Parker Hydrogen Generator H2 500user Manual is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Parker Hydrogen Generator H2 500user Manual. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Parker Hydrogen Generator H2 500user Manual.

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