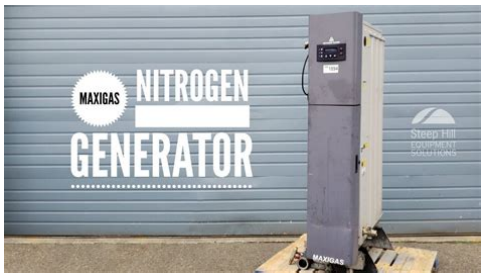
Domnick Hunter Maxigas Nitrogen Generator Manual



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Domnick Hunter Maxigas Nitrogen Generator Manual

These technologies enable virtually every machine and process to operate accurately, efficiently and dependably. As the global leader in motion and control, we partner with our distributors to increase our customers' productivity and profitability by delivering an unmatchable breadth of engineered components and valueadded services. We continue to grow with our customers by creating applicationfocused products and system solutions. A key to our global expansion has been to follow our customers and establish operations, sales and service wherever they are needed. No single competitor matches Parker's global presence. Parker's Motion and Control Technologies Aerospace Automation Engineered Materials Filtration Fluid Connectors Hydraulics Instrumentation Corporate Headquarters in Cleveland, Ohio. Legal Notifications. It is important that you analyze all aspects of your application and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met. The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice. Offer of Sale The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. The Benefits of Producing Nitrogen on Location Nitrogen is commonly used in industry because it is dry and inert. Traditionally, nitrogen has been obtained through a delivered supply in the form of bulk liquid N2, dewars, and high pressure compressed gas cylinders.http://apexparadise.com/userfiles/8212-manual.xml

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Relying on outside vendors can pose several challenges including long term purchase commitments, inflexible delivery schedules, uncontrollable vendor price increases, contract negotiations, tank rental fees, HAZMAT fees, and a long procurement process which could result in delays. With regard to cylinders and dewars, the gas supply is interrupted when changeouts are necessary. It is common to run out of supply due to a late or missed delivery. Product Features Membrane and PSA technologies available Purities up to 99.999% 10ppm O2 Lower cost.eliminates the need for expensive gas cylinders Operate continuously with no unexpected shutdowns Additionally, precautions must be taken when handling and storing high pressure compressed gas cylinders. A dangerous situation can be created if a cylinder is dropped and a valve is broken off, potentially causing the cylinder to become a projectile. when required, nitrogen storage tank and a 0.01 micron final membrane filter. Installation is simple pipe in compressed air and pipe out nitrogen. Just connect a standard compressed air line to the inlet of the generator, connect the outlet to your nitrogen line and the unit is ready for trouble free operation. Nitrogen generation in house and on demand is good for the environment and represents a sustainable approach to the supply of nitrogen. Gas industry sources indicate that an air separation plant uses 1976 kJ of electricity per kilogram of nitrogen at 99.9%. Generation of 99.9% nitrogen in house using a PSA system is 1420 kJ. That means up to 28% fewer greenhouse gases are created by the generation of electricity with a

typical nitrogen generator. That means that in house generation creates 62% fewer greenhouse gases from electrical power at that purity. Request our white paper entitled “A Sustainable Approach to the Supply of Nitrogen” for a more complete discussion.http://www.ctpublicschooljal.com/userfiles/8201-hi-is-manual.xml

Parker Balston nitrogen generators are free standing, housed in an attractive cabinet or skid mounted, depending on the application. Standard features include high efficiency coalescing prefilters with automatic drains, activated carbon adsorption An oxygen monitor to measure the oxygen concentration of the nitrogen stream is available as an option standard on Models DB30, DB40, DB50, and DB80. Parker offers a range of oxygen monitors to meet your application. See Page 15 for details. Parker Balston nitrogen generation systems continuously produce high purity nitrogen from compressed air and eliminate the inconvenience of a delivered nitrogen supply. A continuous supply of consistent purity is available within minutes of startup. Residual oxygen within a package promotes bacterial growth and oxidation, which can compromise product quality and shelf life. Using nitrogen minimizes the levels of oxygen present, preserving quality and significantly improving shelf life. A nitrogen generator, which separates nitrogen and oxygen from a compressed air supply, can often be the most effective way to supply this nitrogen. Wine Bottling A nitrogen blanket, reducing the oxygen concentration to less than 0.5%, minimizes contact between oxygen and the wine surface during storage both pre and post bottling. This will prevent the growth of bacteria and other microbes. Nitrogen can also be used to purge air from pipes and hoses prior to bottling and to ensure oxygen is not introduced during transport. Finally, sparging with nitrogen will remove any oxygen or CO2 introduced during handling helping to preserve wine integrity. A Parker nitrogen generator supplies a continuous stream of nitrogen to displace residual oxygen and fill the voids within the package, preserving taste and freshness and extending shelf life.

Other Applications Coffee Packaging Meat Packaging Lettuce Packaging 2 18003434048 Market Focus Chemical Processing Chemical Blanketing Many industries use a wide variety of dangerous chemicals in the manufacture of products. Blanketing with an inert gas, such as nitrogen, is often used to ensure the chemical integrity and maximize safety. Nitrogen tank blanketing controls the oxygen concentration and humidity within the vessel, protecting the product from contamination, degradation, and chemical change. The reduced oxygen level minimizes the chance of explosion. A nitrogen blanket can also be used to balance tank volumes and prevent collapse during unloading. Isocyanate Blanketing Isocyanates are highly reactive acids that change physical properties when combined with oxygen and moisture, and are potential explosion hazards in the presence of oxygen. Minimizing the concentration of oxygen below 5% and water vapor in the void volume can eliminate these issues. Other Applications Edible Oils Deionized Water High Pressure for Pipeline Services 3 www.parkern2.com Market Focus Metal Processing Aluminum Extrusion High temperatures often cause aluminum oxide to form on the surface of the dies, causing imperfections in the newly formed piece. This damage can cause increased tooling costs, higher maintenance costs and requirements, extended downtime and lost productivity. This damage can also leave the final part useless, due to weakness within the material or noncompliance to the original design specification. Using nitrogen to degas the aluminum during the extrusion process removes oxygen and assists die cooling, which improves consistency, yields less scrap, and produces high quality finished products. A Parker nitrogen generator is often the most cost efficient way to supply this continuous stream of nitrogen. The use of nitrogen is widespread in the metal processing industry, including much of the support equipment such as lasers.

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Using nitrogen to minimize the contact with oxygen improves final product quality and minimizes rework. Other Applications Aluminum Degassing Laser Cutting Selective Laser Sintering 4 18003434048 Market Focus Power Generation Nitrogen is used throughout the energy cycle from

production in oil and gas wells to transmission at power plant. The severe combustibility of the product often makes it a requirement, from gas lift in the production well to blanketing the seals on a natural gas compressor during electrical generation. The remoteness of many of these locations, coupled with the volumes required, typically make a nitrogen generator a great fit. Boiler Layup Boiler cycling i.e. startup and shutdown is more common in todays challenging business environment, primarily due to instability of natural gas prices and volatile energy demand. Proper layup of the Heat Recovery Steam Generator HRSG is critical. Nitrogen is an essential tool in helping to alleviate these issues and has become the preferred technology since it doesnt introduce foreign chemicals to the boiler. A Parker nitrogen generator improves operating costs, eliminates corrosion and pitting and ensures a quick, trouble free startup. Other Applications Blanket Boiler Feedwater Transformer Blanketing 5 www.parkern2.com Membrane Nitrogen Generators How Membrane Technology Works Parker Balston nitrogen generators utilize proprietary membrane separation technology. The membrane separates compressed air into two streams one is 9599% pure nitrogen and the other is air enriched with oxygen, carbon dioxide, water and other gases. The generator separates air into component gases by passing inexpensive compressed air through semi permeable membranes, consisting of bundles of individual hollow fibers. Each fiber has a perfectly circular cross section and a uniform bore through its center.

Because the fibers are so small, a great many can be packed into a limited space, pro viding an extremely large membrane surface area that can produce a relatively high volume product stream. Compressed air is introduced into the center of the fibers at one end of the module and contacts the membrane as it flows through the fiber bores. Oxygen, water vapor and other trace gases easily permeate the membrane fiber and are discharged through a permeate port while the nitrogen is contained within the membrane and flows through the outlet port. Higher flow and purities can be accomplished at higher pressures. The generators are designed to continually transform standard compressed air into nitrogen at safe, regulated pressures without operator attention. Balston PSA Nitrogen Generators utilize a combination of filtration and pressure swing adsorption technologies. High efficiency prefiltration pretreats the compressed air to remove all contaminants down to 0.1 micron. Air entering the generator consists of 21% oxygen and 78% nitrogen. The gas separation process preferentially adsorbs oxygen over nitrogen using carbon molecular sieve CMS. At high pressures the CMS has a greater affinity for oxygen, carbon dioxide, and water vapor than it does at low pressures. By raising and lowering the pressure within the CMS bed, all contaminants are captured and released, leaving the CMS unchanged. This process allows the nitrogen to pass through as a product gas at pressure. The depressurization phase of the CMS releases the absorbed oxygen and other contaminant gases to the atmosphere. Nitrogen generator purity is pressure, temperature, and flow dependent. Valve maintenance components are also included. Add suffix SB to model number. 9 www.parkern2.

com PSA Nitrogen Generators Dual Bed Dual Bed Nitrogen Generation Systems 28 in 722 mm Product Features OXYGEN ANALYZER Fully enclosed steel with casters Outlet pressure regulator High efficiency coalescing and sterile air filters Vertical nitrogen storage tank Oxygen analyzer available PLC controls High oxygen alarms and dry contacts available Stand by mode 1 Purity easily adjusted between 95%99.999% with flow control valve AIR INLET N2 OUTLET Energy efficient compared to delivered nitrogen Final stage sterile filter is USDA 50 in accepted for use in federally in1260 mm spected meat and poultry plants in full compliance with FDA and GFSI requirements. Nitrogen generator purity is pressure, temperature, and flow dependent. Higher flow and purities can be accomplished at higher pressures. 3 DB10EC Models only. For DB10 Models consult the factory. Expansion System Options As standard products, our DB5 and DB15 models including those with an Oxygen Analyzer can be expanded to the flow capacity of a DB10 and DB20, respectively. The DB5 and DB10 Models can be incorporated into the cabinet of a DB20 so that they can be

expanded to the flow capacity of a DB20. To get the larger cabinet, order either the DB5EC or the DB10EC for future expansion to a DB20. The expansion is integrated into the cabinet so no extra floor space is needed. Also included are valve maintenance components. Where needed, a replacement oxygen sensor is also included. Valve maintenance components are also included. Where needed, a replacement oxygen sensor is also included. 3 At 110 psig nitrogen purity is pressure, temperature and flow dependent. Higher flow and purities can be achieved at higher pressures. 12 18003434048 PSA Nitrogen Generators Nitrogen for Laser Cutting A large expense in owning an industrial laser cutting system is nitrogen gas. As lasers become more and more powerful and efficient, and as thicker materials are being cut, the expense of nitrogen mounts.

In some cases, traditional bulk liquid nitrogen supplies cannot create enough high pressure gas to meet laser requirements. An investment in a Parker Nitrogen Generator for laser assist gas will pay for itself in little time. The nitrogen can also be used for beam purge. Impurities such as CO2 and water vapor can reduce the power and change the shape of the laser beam. Generating nitrogen onsite is also good for the environment as it eliminates deliveries of gas by traditional means. The system consists of a nitrogen generator, high pressure booster and high pressure storage. A dedicated compressor is available. The system enters economy mode when the storage is full so there is no waste. Benefits Supply nitrogen at up to 500 psig, store nitrogen at up to 3000 psig Produce gas on demand and never run out Eliminate third party contracts and unreliable service Utilizes proven PSA technology that has been developed over the past 30 years No more rental costs, delivery fees or long term contracts Fast return on investment Nitrogen for 3D Printing Dry Gas Seal Systems Selective laser sintering SLS commonly uses an inert nitrogen atmosphere to prevent oxidation and eliminate the potential of explosion in the sintering chamber. Tiny particles of plastic, ceramic or glass are fused together with a laser to form a 3D design. Parker has nitrogen systems to meet the needs for this application. A typical application is pressurizing dry gas seals on selected GAS compressor and turbine installations that need inert gas for lubricating and pressurizing dry seals designed to contain flammable, toxic, or hazardous process gasses from leaking into the atmosphere. 13 Model with Membrane Dryer for Gas Seals www.parkern2.com Parker Custom Nitrogen Gas Generators Energy Efficient Control System Traditional PSA systems operate under a fixed time cycle even when customer nitrogen demand is low.

This is very wasteful since it requires compressors to produce large amounts of air to feed the PSA. The Energy Efficient Control System EECS utilizes the on board nitrogen flow meter to monitor customer demand of nitrogen. During periods of low demand, the time cycle will automatically extend which reduces the air requirement to the PSA when compared to a 60 second fixed time cycle. This ultimately results in an energy savings since the air compressor does not have to stay continuously loaded requiring less kilowatts consumed by the compressor. As an added benefit, valve life can also be extended since the valves are switching less. Differential Pressure Bed Monitoring Parker’s Nitrogen Systems are customizable our team of engineers will work with you to meet your specific requirements. Differential pressure indicators are included to allow the user to monitor excessive differential pressures across the bed. This is important since high differential pressures can lead fluidization of the CMS inside the adsorption vessels. Valve Leak Check Incorporated in the system is a Valve Leak Check step which allows the user to determine valve seat health without having to remove the valves from the process. Valve Leak Check can be performed and completed in less than 10 minutes. PSA Standby Separate from the EECS controls is a Standby feature. If nitrogen is no longer required for a period of time, the control system detects a no flow condition which will result in the PSA entering a sleep mode or Standby. This will shut the system down which will in turn timeout the air compressors so they are not continuing to run unnecessarily. This will also improve valve seat life since they are no longer cycling. Once the control system detects nitrogen flow the system automatically starts back up and seamlessly resumes nitrogen production. Bed Design Our PSA vessels can be reloaded, unlike some of our competitors.

We utilize an ASME flanged on top of the dual bed design Carbon Molecular Sieve. Some competitors use welded tops and non ASME. 14 18003434048 Oxygen Analyzer Options Standard % O2 Analyzer O Advanced O2 Analyzer OC The Balston TS02A is a hand held nitrogen analyzer suitable for spot checking lines in your plant. Simply install shraeder valves at the point of testing. The advanced oxygen analyzer with advanced galvanic sensor is capable of oxygen analysis from 0.05% to 100%. The sensor has a 1 year expected life. Standard features include autoranging capability, twostage alarms, system diagnostic functions, zero and span calibration. Two sets of digital outputs and a 420mA output are available. The sensor has a 1 year expected life. Standard features include autoranging capability, twostage alarms, system diagnostic functions, zero and span calibration. Two sets of digital alarm outputs and a 420mA output signal are available. A nitrogen generator dispels any concerns about lines icing up, running low, or running out of nitrogen. Costly downtime, tank rental fees, Haz Mat fees, delivery fuel surcharges, price increases, evaporation concerns, and multi year lease agreements will all be eliminated. Producing your own nitrogen eliminates reliance on outside vendors, allowing your winery to be more self sufficient. The WineMaker Series Nitrogen Generators typically have a 918 month payback, and an operating life of greater than 15 years. Wine Bottling A nitrogen blanket reduces the oxygen concentration to less than 0.5% and minimizes contact between oxygen and the wine surface during storage both pre and post bottling. This will prevent the growth of bacteria and other microbes. Nitrogen can also be used to purge air from pipes and hoses prior to bottling and to ensure oxygen is not introduced during transport. Finally, sparging with nitrogen will remove any oxygen or CO2 introduced during handling, helping to preserve wine integrity.

A Parker nitrogen generator supplies a continuous stream of nitrogen to displace residual oxygen and fill the voids within the package, preserving taste and freshness and extending shelf life. Installation is simple pipe in compressed air and pipe out nitrogen. Just connect a standard compressed air line to the inlet of the generator, connect the outlet to your nitrogen line and the unit is ready for trouble free operation. Expansion is done internally within the cabinet. The unit does not get any larger when expanded and there is no need to find more floor space. See bottom of page 10 for further information. Also included are valve maintenance components. Where needed, a replacement oxygen sensor is also included. What is often overlooked however is the need to provide quality treatment for this air. In fact, the air entering the system contains moisture which, when cooled, will turn into liquid water, causing extensive damage not only to the compressed air network, but also to the finished product. These costly contamination problems can be avoided by installing a PRD Series noncycling refrigerated dryer package complete with Parker Balston high efficiency filtration. Parker’s revolutionary 3in1 heat exchanger PRD10 PRD175 features a 3in1 aluminum design with integral air connections. All models include an airto air precooler, while the unique “slowflow” demister ensures perfect dewpoints whatever the operating conditions. Compressed air purification equipment must deliver uncompromising performance and reliability while providing the right balance of air quality with the lowest cost of operation. Many manufacturers offer products for the filtration and purification of contaminated compressed air, which are often selected only upon their initial purchase cost, with little or no regard for the air quality they provide, the cost of operation throughout their life or their environmental impact.

When purchasing purification equipment, delivered air quality, the overall cost of ownership and the equipment’s environmental impact must always be considered. Note Filters supplied loose, prefilter supplied standard with DNC models. Correction Factors for Models PRD10 PRD175 To obtain dryer capacity at new conditions, multiply nominal capacity x C1 x C2 x C3. This offer and its acceptance by any customer “Buyer” shall be governed by all of the following Terms and Conditions. Buyer’s order for any item described in its document, when communicated to Seller verbally, or in writing, shall constitute acceptance of this offer. All goods, services or work described will be referred to as “Products”. 1. Terms and Conditions. Prices stated on Seller’s quote or other documentation offered

by Seller are valid for 30 days, and do not include any sales, use, or other taxes unless specifically stated. Unless otherwise specified by Seller, all prices are F.C.A. Seller's facility INCOTERMS 2010. Payment is subject to credit approval and is due 30 days from the date of invoice or such other term as required by Seller's Credit Department, after which Buyer shall pay interest on any unpaid invoices at the rate of 1.5% per month or the maximum allowable rate under applicable law. 3. Delivery Dates; Title and Risk; Shipment. All delivery dates are approximate and Seller shall not be responsible for any damages resulting from any delay. Regardless of the manner of shipment, title to any products and risk of loss or damage shall pass to Buyer upon placement of the products with the shipment carrier at Seller's facility. Unless otherwise stated, Seller may exercise its judgment in choosing the carrier and means of delivery. No deferment of shipment at Buyers' request beyond the respective dates indicated will be made except on terms that will indemnify, defend and hold Seller harmless against all loss and additional expense.

Buyer shall be responsible for any additional shipping charges incurred by Seller due to Buyer's acts or omissions. 4. Warranty. Seller warrants that the Products sold hereunder shall be free from defects in material or workmanship for a period of twelve months from the date of delivery to Buyer or 2,000 hours of normal use, whichever occurs first. The prices charged for Seller's products are based upon the exclusive limited warranty stated above, and upon the following disclaimer DISCLAIMER OF WARRANTY THIS WARRANTY COMPRISES THE SOLE AND ENTIRE WARRANTY PERTAINING TO PRODUCTS PROVIDED HEREUNDER. SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS AND IMPLIED, INCLUDING DESIGN, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. 5. Claims; Commencement of Actions. Buyer shall promptly inspect all Products upon delivery. No claims for shortages will be allowed unless reported to the Seller within 10 days of delivery. No other claims against Seller will be allowed unless asserted in writing within 30 days after delivery. Buyer shall notify Seller of any alleged breach of warranty within 30 days after the date the defect is or should have been discovered by Buyer. Any action based upon breach of this agreement or upon any other claim arising out of this sale other than an action by Seller for an amount due on any invoice must be commenced within 12 months from the date of the breach without regard to the date breach is discovered. 6. LIMITATION OF LIABILITY.The user, through its own analysis and testing, is solely responsible for making the final selection of the system and Product and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application and follow applicable industry standards and Product information.

If Seller provides Product or system options, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the Products or systems. 8. Loss to Buyer's Property. Any designs, tools, patterns, materials, drawings, confidential information or equipment furnished by Buyer or any other items which become Buyer's property, will be considered obsolete and may be destroyed by Seller after two consecutive years have elapsed without Buyer ordering the items manufactured using such property. Seller shall not be responsible for any loss or damage to such property while it is in Seller's possession or control. 9. Special Tooling. A tooling charge may be imposed for any special tooling, including without limitation, dies, fixtures, molds and patterns, acquired to manufacture Products. Such special tooling shall be and remain Seller's property notwithstanding payment of any charges by Buyer. In no event will Buyer acquire any interest in apparatus belonging to Seller which is utilized in the manufacture of the Products, even if such apparatus has been specially converted or adapted for such manufacture and notwithstanding any charges paid by Buyer. Unless otherwise agreed, Seller shall have the right to alter, discard or otherwise dispose of any special tooling or other property in its sole discretion at any time. 10. Buyer's Obligation; Rights of Seller. To secure payment of all sums due or otherwise, Seller shall retain a security interest in the goods delivered and this agreement shall be deemed a Security Agreement under the Uniform Commercial Code.

Buyer authorizes Seller as its attorney to execute and file on Buyer's behalf all documents Seller deems necessary to perfect its security interest. 11. Improper use and Indemnity. Seller shall not indemnify Buyer under any circumstance except as otherwise provided. 12. Cancellations and Changes.

Orders shall not be subject to cancellation or change by Buyer for any reason, except with Seller's written consent and upon terms that will indemnify, defend and hold Seller harmless against all direct, incidental and consequential loss or damage. Seller may change product features, specifications, designs and availability with notice to Buyer. 13. Limitation on Assignment. Buyer may not assign its rights or obligations under this agreement without the prior written consent of Seller. 14. Force Majeure. Seller does not assume the risk and shall not be liable for delay or failure to perform any of Seller's obligations by reason of circumstances beyond the reasonable control of Seller hereinafter "Events of Force Majeure". Events of Force Majeure shall include without limitation accidents, strikes or labor disputes, acts of any government or government agency, acts of nature, delays or failures in delivery from carriers or suppliers, shortages of materials, or any other cause beyond Seller's reasonable control. 15. Waiver and Severability. Failure to enforce any provision of this agreement will not waive that provision nor will any such failure prejudice Seller's right to enforce that provision in the future. Invalidation of any provision of this agreement by legislation or other rule of law shall not invalidate any other provision herein. The remaining provisions of this agreement will remain in full force and effect. 16. Termination. Seller may terminate this agreement for any reason and at any time by giving Buyer thirty 30 days written notice of termination. Seller may immediately terminate this agreement, in writing, if Buyer a commits a breach of any provision of this agreement b appointments a trustee, receiver or custodian for all or any part of Buyer's property c files a petition for relief in bankruptcy on its own behalf, or by a third party d makes an assignment for the benefit of creditors, or e dissolves or liquidates all or a majority of its assets. 17.