



Vacuum Technology

for Hospitals and Healthcare Facilities



Reliable and Safe Vacuum and Air Supply for Hospitals and Healthcare Facilities



Reliable support systems are indispensable in modern healthcare. It is essential that hospitals and healthcare facilities are provided with safe and dependable equipment, and medical vacuum and air supply systems are no exception.

Busch has more than 50 years of experience in tailor-made vacuum and air supply solutions and understands the importance of developing individual solutions to meet the technical, economic and safety requirements of every application.

Medical Gas Systems

Busch delivers highly efficient solutions for medical vacuum, air supply and anaesthetic

gas scavenging applications. In addition to our extensive range of standard systems, we also develop and implement tailor-made central supply solutions. Oxygen, nitrous oxide, nitrogen, carbon dioxide and medical vacuum/air, for example, are usually supplied by a dedicated pipe network to various locations in hospitals and clinics. The vacuum pumps, air supply systems and gas tanks are generally installed separately in a central technical support area.

Medical, Dental and Laboratory Vacuum Systems

Both centralized and decentralized vacuum systems are used in hospitals, dental clinics, laboratories and other healthcare institutions to extract body fluids and dispose of organic waste. These processes require reliable and constantly available vacuum supplies – a challenge that Busch has met successfully for decades.

Medical Air Systems

Compressed air systems are deployed in patient care and the operation of surgical instruments. Centralized and decentralized systems supply air for laboratories and medical and dental applications. For hygiene reasons clean and dry compressed air is imperative, a basic requirement

which is met by Busch air supply systems. All of them are manufactured and certified to conform to all national and international standards such as DIN EN ISO 7396-1, DIN EN 737-3, NFPA 99C and other quality assurance guidelines, such as those imposed by the operating company.

Anaesthetic and Other Gases

Anaesthetic scavenging systems extract anaesthetic gases from areas in which nitrous oxide units are used. The health risks to patients and staff are minimized by reducing long-term exposure to narcotic gases.



Expertise and Experience for Your Vacuum and Air Supply



Finding the best solution for a vacuum or air supply application requires a thorough understanding and detailed evaluation of all relevant factors, including process variables, legislative regulations, operating environment and climate. Busch system engineers conduct a comprehensive requirements analysis for every vacuum and air supply project, drawing on their experience of hundreds of successful installations worldwide.

We provide our customers with complete consulting, design, planning, installation, control, commissioning and training services. Furthermore, we offer any post-sales services you may require to operate your vacuum or air supply system.

Busch systems are based on reliable and proven modules, assembled together to holistic solutions meeting all specific customer

requirements. Our project engineers will provide extensive advice and help you determine the required system dimensions.

As you would expect, all Busch production sites are certified by ISO 9001. Our advanced vacuum and air supply systems are built by skilled specialists at our state-of-the-art production facilities. Every system has to pass an extensive series of tests before delivery, and further functional tests are carried out as part of the commissioning process.

Busch operates the most comprehensive global service network in the vacuum and air supply industry. A rapid response to service requirements anywhere is ensured by service centres in more than 40 countries worldwide. Our qualified and highly-trained specialists will provide optimum service at your location.



Vacuum and Air Supply Solutions Tailored to Your Needs

Busch delivers vacuum and air systems for medical applications using the following appropriate and efficient technologies.

R 5 Rotary Vane Vacuum Systems

R 5 rotary vane vacuum pumps are robust and proven vacuum generators with recirculating oil lubrication and air cooling. Used in centralized vacuum systems, they are perfectly suited to deliver highly reliable vacuum supply for medical applications. Their outstanding performance, low operating costs and easy maintenance have helped establish them as the industry standard for decades.

Mink Claw Vacuum Systems

Mink claw vacuum technology is dry, contact- and wear-free and combines performance, reliability and efficiency. Maintenance requirements are thus reduced to a minimum. Mink vacuum systems are perfectly suited to applications which demand high pumping speeds and oil-free compression. Moreover, they are available in special versions for oxygen handling, enabling gas mixtures with an oxygen content of more than 21% to be extracted safely.

Dolphin Liquid Ring Vacuum Systems

These robust vacuum pumps are based on liquid ring technology, and have proven their reliability in the difficult operating environment of medical applications. Many different configurations of Dolphin liquid ring vacuum pumps are available, and the precisely dimensioned range of sizes, extensive range of accessories and choice of construction materials allow Dolphin vacuum pumps to be perfectly adapted to specific requirements of medical vacuum supply.

Samos Side Channel Vacuum or Air Systems

Samos is the series of maintenance-free vacuum and compressed air generators from Busch. They do not use any operating fluids and are the perfect choice for scavenging anaesthetic and other gases as well as for a wide range of further vacuum and air supply applications.

Medical Vacuum Filters

Medical vacuum filters are designed to provide reliable protection from liquid, solid and bacterial contamination. With their intelligent and modular construction they deliver optimum filtration efficiency.





Busch Vacuum Pumps and Systems

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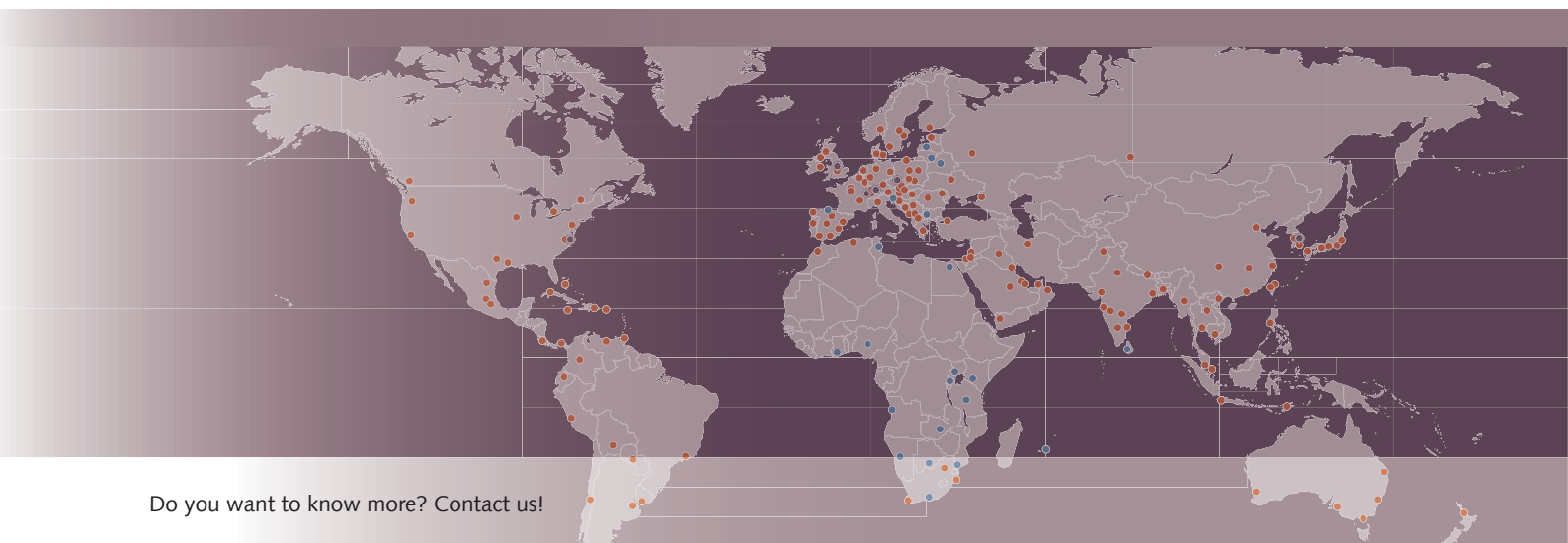
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Technical data is subject to change. Created in Germany. MG SB MEDICAL Len 06/2018 7Aa