

QI Medical Gas Services

Preventative Maintenance

The development and maintenance of a hospital's medical gas system is QI.



QI (Pronounced: *kee*) QI stands for quality improvement. Designed by BOC, QI Medical Gas Services help you meet the many challenges of managing medical systems, safely and efficiently.

Safety, compliance, efficiency, flexibility and risk management are the building blocks of a best practice preventative maintenance program.

With over 60 years experience providing gas solutions and support, BOC's QI Maintenance program's dedicated resources are backed by the technical expertise and professional standards that the hospital environment demands.

Depending on the design of your individual system, BOC can customise a program that includes 12 monthly service and maintenance of your hospital's medical gas reticulation system, including surgical tool control units, medical gas pendants, regulators, flow meters, compressors, vacuum plant and other medical gas related equipment.

BOC's preventative maintenance program is designed to operate efficiently and improve the life of your medical gas system. Creating a robust and reliable system avoids unplanned interruptions to supply, builds system confidence and contributes towards greater patient safety.

BOC will manage your medical gas system by initially conducting a survey to ascertain the components of your system. An individual maintenance program is created for each component and entered into our automated scheduling system, ensuring tasks are completed when required. A record of all maintenance activities is kept and a copy is forwarded to your appointed representative.

Maintenance plans are carried out by our skilled service technicians according to applicable standards and the manufacturers' servicing recommendations. The service of your equipment at regular intervals includes testing, maintenance repair, parts replacement and tuning.

On completion of each scheduled maintenance plan, BOC presents you with a detailed report designed to satisfy your accreditation or audit requirements.





Gas manifolds

Common faults such as leakage of stand-by or duty cylinder banks, regulator faults or line restrictions can be avoided. A six month maintenance program includes leak testing, calibration and checking of contents gauges, pressure gauges, safety valves, manifold connections, pipe work and fittings as well as reconditioning of the manifold or exchanging in accordance with manufacturers' recommendations.

Medical gas alarms

Warning systems are designed to alert users to potential problems. However, alarms can be incorrectly wired, display the wrong message or may not link to essential repeater systems. At 12 month intervals, BOC will test and adjust alarms by simulating alarm conditions to ensure that alerts are raised in the correct circumstance.

Zone isolation boxes

The ability to isolate a hospital area is critical in a site emergency and necessary for hospital shut downs. At 12 month intervals' BOC will check for proper operation, product leaks, damage or unacceptable wear and tear and unauthorised modifications.

Medical gas outlets

Unlike other sections of the medical pipeline terminal units are frequently utilised by the general medical staff and can be prone to damage and failure. A BOC 12 month maintenance program will inspect outlets to check for leakage, indexing, flow, pressure and unauthorised modifications.

Breathing air testing

Samples are collected at least annually at selected terminal units remote from the source of supply and tested at BOC's NATA certified laboratories. If contamination is found, corrective action is taken and tests are conducted at three monthly intervals until two consecutive tests have passed AS2568 requirements.

Air and vacuum plant

Continuous operation of air and vacuum systems is critical to theatres and wards. BOC will maintain and check the control and regulation systems, pressure settings, cooling systems and delivery temperature, driers, air filters, drains, safety valves, oil levels and all pipes and hoses.

Medical Gas Devices

Ask us how we can help you manage your medical device servicing needs with a tailored servicing and repair plan.

Australian Standards

Australian Standards (AS) and equipment manufacturer recommendations form BOC's benchmark for service. Our routine maintenance tasks are performed to BOC best operating practice which mostly exceed these requirements.

'**AS2896 – Medical Gas Systems**', specifies the requirements for testing, observing and recording the condition and performance of a medical gas system.

'**AS2568 – Purity of Compressed Medical Breathing Air**', specifies the levels of purity and analysis of compressed medical breathing air supplied by a pipeline directly from an air compressor. Testing is required to be performed at least annually.

BOC is a member of The Linde Group, a global healthcare company dedicated to providing products, therapies and services to hospitals, clinics, nursing facilities, emergency departments and homecare providers around the world. **With over a century of working closely with our customers,** we have established a solid foundation as a healthcare partner with medical gas expertise. We are present in 70 countries around the world, working to ensure our solutions are always delivered and serviced to the highest possible standards of quality, efficacy and safety. We combine a unique knowledge of healthcare realities with continuous research and development.

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