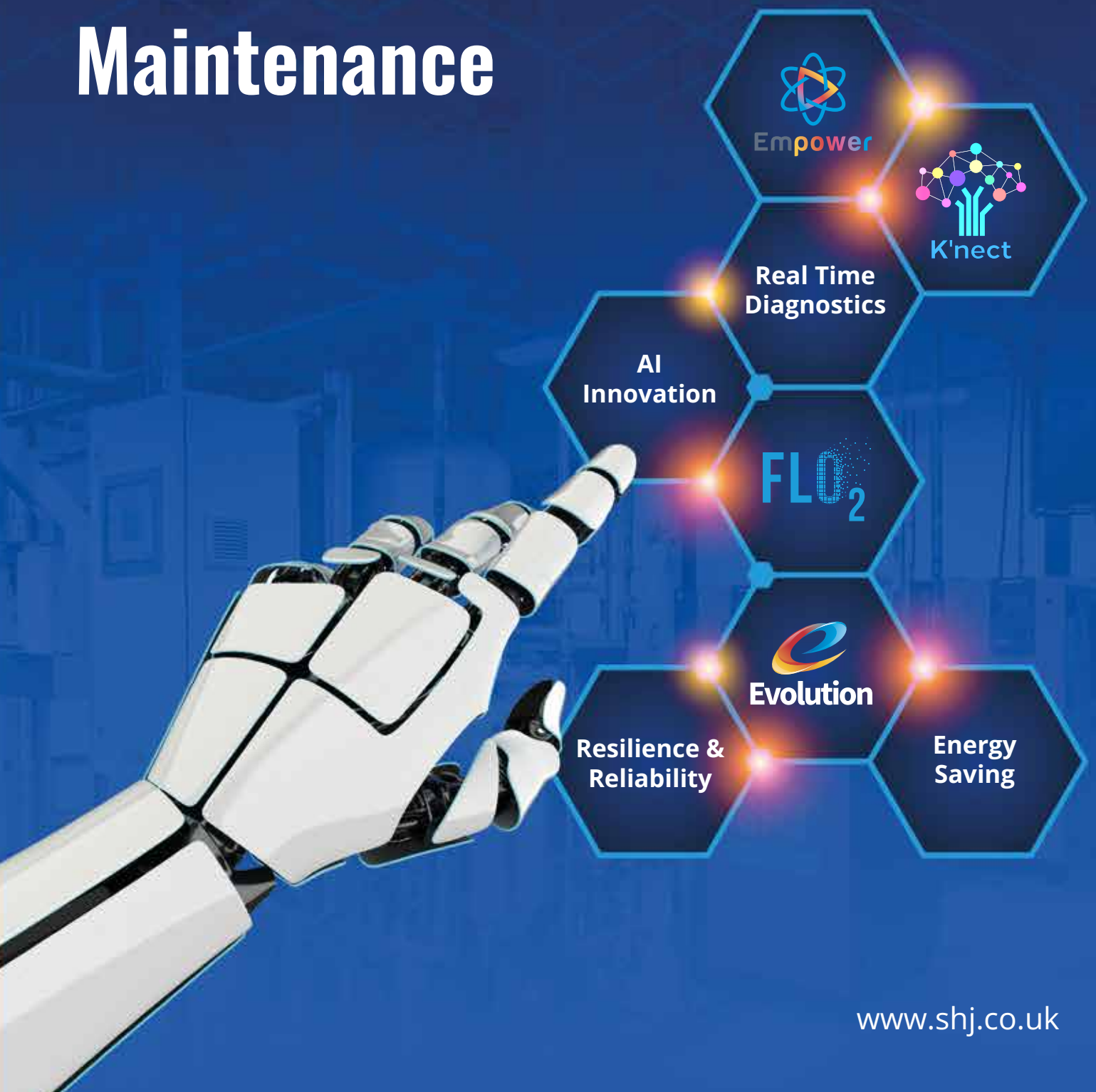


**SHJ**

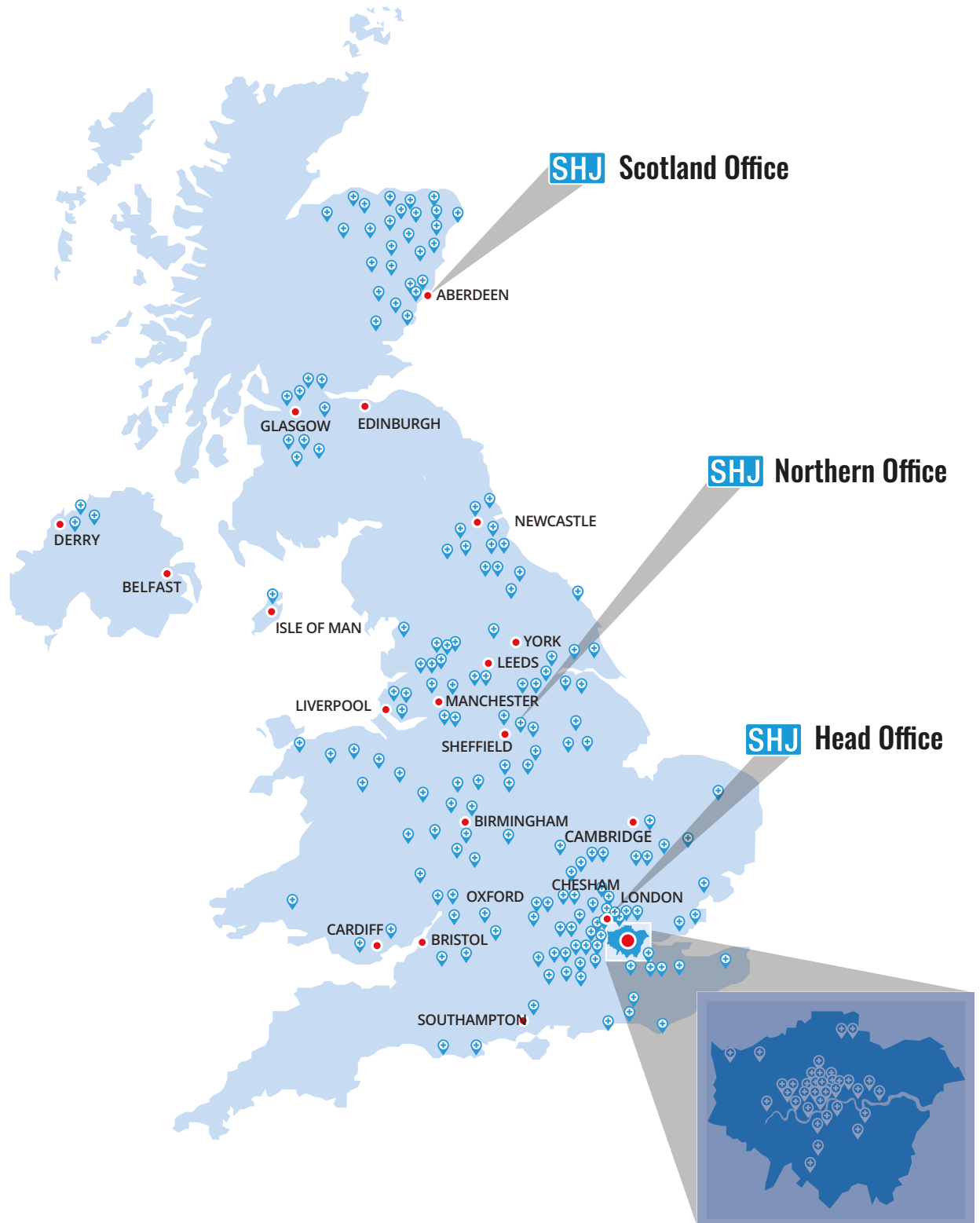
MEDICAL & LAB  
GAS SPECIALISTS

DELIVERING LEADING INNOVATIONS

# Medical & Lab Gas Design Installation Maintenance



# Nationwide Coverage



Healthcare Supplier of the Year 2021

SME of the Year 2024



# About SHJ

Founded in 1967, SHJ is a leading supplier of medical & laboratory gas pipeline systems and services and a market leader in remote AI monitoring and energy-saving technologies.

Winner of Healthcare Supplier of the Year 2021 and SME of the Year 2024, we have been delivering leading innovations to NHS and private sector healthcare providers and research laboratories across the UK for over 55 years.

We invest heavily in R&D and cutting-edge innovations to remain at the forefront of our industry.

## Why You Can Rely on SHJ

We are committed to building **strong, long-term relationships** with our customers and have been serving the UK healthcare industry since 1967.

If you are short on space, our unique containerised medical gas plant rooms offer hospitals a **quick, flexible solution** to their MGPS needs and an economical alternative to commissioning new building work.

Our engineers are directly employed by us and are experts in their field. They pride themselves on building a deep understanding of your site and Medical Gas Plant System (MGPS) to provide a **superior level of service**.

Our market-leading customer portal (**K'nect**), puts all **plant management data** at the customer's fingertips. **Accessed from any device, 24/7**, it makes proving compliance with statutory requirements fast and simple.

SHJ only uses the highest quality medical gas plant and equipment. You can rely on our products now, and far into the future, and this **enhanced reliability** provides **great value for money**.

**We invest heavily in R&D to remain at the forefront of our industry.**

Our confidence in our plant is reflected in our long warranty length, and we offer a **5 year 'no quibble' guarantee** on all SHJ branded equipment.

SHJ offers a faster speed of supply than many of our competitors, meaning we can get your MGPS up and running **quickly and efficiently**.

# Installation

Our medical gas installation service includes:

- Pipework for new and upgrade projects
- Medical vacuum plant
- Medical air plant
- Manifolds
- Medical gas alarm systems
- Anaesthetic Gas Scavenging Systems (AGSS)
- Gas flow monitoring

We plan each installation carefully, ensuring that our work causes minimal disturbance to hospital routines and is co-ordinated with the work of other site contractors.

We always strive to maintain a fully operational MGPS while carrying out work and can supply a range of temporary solutions to prevent patient care being disrupted during plant upgrades.

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During the entirety of this installation, SHJ adhered to their schedules, didn't compromise the hospital's medical air supply, and all staff acted in a professional and helpful manner. I couldn't be happier with SHJ's commitment to this project and would definitely work with them again.

**Nigel Watkinson, Estates Manager – Scarborough General Hospital**

Our installations are fully tested at each stage and upon completion, are certified in accordance with the requirements of HTM 02-01, ISO 13485 and ISO 9001.

Our long-term relationships with a variety of suppliers ensures competitive rates for all items of MGPS plant.

We supply and install a wide range of medical gas alarm systems, including our own brand (Evolution), which offers a 24/7 remote, multi-site monitoring and alert service.





## Medical Gas System Design

Our team of in-house estimating engineers, project managers and CAD technicians will design your entire MGPS, for your refurbishment, upgrade, or new build.

Based on your planned usage and hospital layout, our design team will generate diversified flow calculations for each medical gas required. We will then recommend appropriate plant specifications to achieve the most efficient and reliable system. We also produce isometric drawings that can be incorporated into your Building Information Modelling system.

This is followed by a detailed project proposal and quotation, which sets out all the plant, pipework, materials, and labour needed. It addresses the site-specific requirements for installations and provides a detailed cost breakdown for the completed project.

## Expert Project Management

We have over 50 years of experience co-ordinating bespoke projects in both NHS and private healthcare establishments. From receipt of initial enquiry through to commissioning and final handover, our highly experienced installation team provide our customers with all the technical support they need.

Our dedicated project managers are on hand for every project, overseeing it from conception through to completion. They will manage the entire project ranging from item replacements to the planning, design, installation, testing and on-going maintenance of a complete hospital MGPS. We can work directly with customers or in a supplier capacity with a contractor or sub-contractor.

### Our project management services include:

- Detailed site and plant surveys
- As-fitted drawings with AutoCAD facilities
- Up to date asset registers
- Leading or directing engineering teams
- Planning and managing internal and external communications
- Undertaking Principal Contractor duties under CDM regulations
- Monitoring project progress against agreed milestones
- Preparing operation and maintenance manuals and as-fitted drawings
- Conducting post-project reviews
- Assistance with proving compliance
- Providing an Authorised Person (AP) for MGPS in the absence of their regular AP or where there is no directly employed AP onsite.

# Maintenance

SHJ has over 55 years of experience in providing a full range of maintenance services including both fully-inclusive planned preventative maintenance and reactive options.



## Planned Preventative Maintenance (PPM)

Our quarterly, bi-annual and yearly PPM programmes are based upon best practice and manufacturers' recommendations and cover whole systems, not just individual pieces of equipment.

Our PPM programmes are tailored to suit our customers' exact needs and include examination, testing and checking of medical gas plant, pipework, manifolds, valves, terminal units, fittings and alarm systems in accordance with the requirements of HTM 02-01. Once completed, any further works are quoted for, and we issue a complete report which is viewable on our online portal (K'nect), from any device, 24 hours a day, 7 days a week.

## Plant Servicing

Plant servicing extends from routine care and checks in line with manufacturer's recommended service intervals, to a complete strip down and rebuild. We can also provide forecasted plant replacement schedules from condition summaries and data logging statistics. We hold an extensive range of MGPS plant and only use genuine original equipment, manufacturer spare parts and consumables.

## Web-based medical gas data management portal

- Real-time plant and alarm monitoring 24/7
- From any device, anytime, anywhere

Fully bespoke for each customer, it is tailored to your specific MGPS and site configuration. The encrypted data is available 24 hours a day from any browser, and helps you prove compliance with statutory regulations quickly and easily.



Depending on your contract, this will include:

- Invoices and quotes
- Asset register
- KPI compliance data
- Plant diagrams
- Safety certificates
- Insurance certificates
- Permits to work
- Comprehensive details of PPM visits
- Faults logged during past service visits and due dates of future service visits.

K'nect is FREE to all customers with a maintenance contract.

We have been a customer for SHJ for just over year, they are carrying out the medical gas PPM to a high standard and always go above expectations to aid in compliance. SHJ have also installed a new air and vacuum plant, which was completed on a tight schedule, and accommodated complex shutdowns to meet the needs of the hospital.

**James Hutchinson, Head of Estates – Doncaster NHS Trust**

# Plant Manufacture

SHJ manufactures and supplies a comprehensive range of Air, Vacuum and Anaesthetic Gas Scavenging (AGS) plants, all designed for the maximum reliability, quality, and redundancy.

All SHJ manufactured products are designed, hand assembled, tested, and commissioned at our manufacturing facility in Chesham, under ISO 13485 and ISO 9001 quality management systems and all come with a 5-year 'no quibble' guarantee.

## Emergency Services & Plant Hire

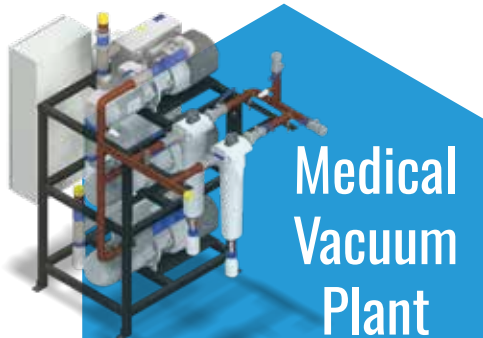
SHJ responds to medical gas emergencies 24 hours a day, 7 days a week, 365 days a year.

Our nationwide backbone of engineers ensures we meet all emergency callouts, to specific customer requirements, and always within 4 hours of a call. The combination of experience and high stock levels ensures that our first-fix rates are high.

Our engineers are supported by a dedicated spare parts department, holding substantial stocks of components and spare parts for all medical gas system manufacturers, including compressors, dryers, controllers and AGSS, meaning that we can usually repair or replace faulty equipment very quickly.



Medical Air Plant



Medical Vacuum Plant



AGSS Plant

## Plant Hire

If you need to hire a plant in an emergency, temporarily or on a semi-permanent basis, we can deliver, connect and get the replacement plant into service within hours of your call.

# Laboratory Gas Systems

Pharmaceutical, Medical and Research Laboratories use multiple gases as part of their daily operations and SHJ works with many of the UK's leading sites by designing, installing and maintaining their laboratory gas systems.

As part of the service we offer, we install the infrastructure for the laboratory gases, vacuum, and compressed air systems. Pipework can be either copper or stainless steel depending on the purity level the client requires.

Degreased Copper is generally used within medical and industrial installations and where purity levels of 99.99 (N4) are acceptable.

316 Stainless Steel is used when certain gases are not compatible with other materials and where purity levels of 99.999 (N5) and above are required. We can offer twin ferrule fittings or a fully welded system using orbital welding.

All systems are designed and installed to BCGA codes of practice.

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SHJ send engineers who know exactly what they are doing. We have complete trust in them, their competency and the flow of getting the job done. They are extremely polite and keep us informed with exactly what is going on.....overall, very happy with SHJ  
**Simon Witney, HVAC Lead, CBRE.**



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SBC have been using SHJ for the past 2 years and we are very happy with all parts of their operations from planned services, quotes, accounts, and installations. We find them more than able to satisfy our requirements and SBC will continue to use them for all our PPM's, as well as all our small and large projects, going forward.

**Roger Smith, M&E Building and Operations Manager for Stevenage Bioscience Catalyst.**

## Gas Flow Rate and Line Pressure Monitoring and Alerting

- Real-time gas flow rate monitoring 24/7 - from any device, anytime
- Fully bespoke for each customer
- Helps you analyse and optimise your laboratory gas usage

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SHJ



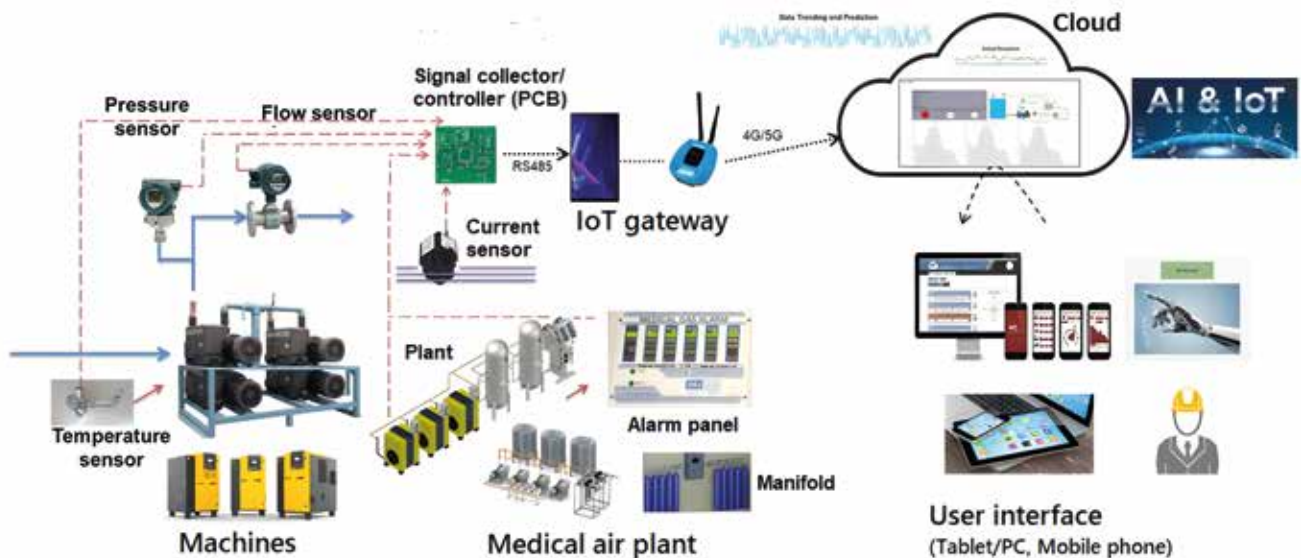


# Cutting Edge Innovations

SHJ is leading the industry in harnessing the power of 21st century communication technologies to implement AI-driven techniques of medical gas plant control.

Real-time diagnostics allow for ever-smarter predictive maintenance and energy saving measures - vastly increasing a system's productivity and efficiency.

## The configuration of a real-time AI system for medical air plant



## Our market leading products include:



The first and most advanced cloud-based medical & lab gas data management portal in the industry. 24/7 real-time plant and alarm monitoring, from any device.



Our medical & lab gas alarm monitoring system which offers a 24/7 remote, multi-site monitoring and alert service.



Our intelligent plant control system providing fully automated control, ensuring medical & lab gas plant is safe, reliable and working at maximum efficiency.



Our oxygen / gas flow rate and line pressure monitoring and alerting system.

# Accreditations

As a business, we understand how important industry accreditations are and constantly strive to improve our products and services.



Our standards comply fully with the requirements of HTM 02-01: Medical Gas Pipeline Systems and we are a Company Affiliate Member with The Institute of Healthcare Engineering and Estate Management (IHEEM).

We hold Constructionline Gold, Alcumus SafeContractor, Alcumus SafeContractor SafePQQ and CHAS accreditation.

We operate a quality management system which shows that we comply with the requirements of ISO 9001:2015. We are also certified for ISO 14001:2015 for our Environmental Management System and ISO 13485:2016 which demonstrates SHJ's ability to provide medical air and

vacuum plant and related services that consistently meet customer and regulatory requirements.

All our engineers are directly employed by us and fully trained to Competent Person (MGPS) level, with some trained to AP (MGPS) and QC level. They are all DBS-checked. They also undergo continuous in-house product training, verified by our Reset membership.

We are nominated suppliers for NHS SBS (Shared Business Services), LLP (London Procurement Partnership) and NOE (North of England Commercial Procurement Partnership).

We are also a member of the BCGA (British Compressed Gas Association).



**NHS London Procurement Partnership**  
Building, Engineering and Maintenance Services Dynamic Purchasing System



**Estates Maintenance & Engineering Services**

**NHS**  
Shared Business Services



# Testimonials

SHJ have maintained the piped medical gas systems in 53 of our hospitals and decontamination units for the past 3 years. I have been very satisfied with the level of general support, the quality of service and the standard of reporting received. Their response has always been excellent even through the difficult times caused by the COVID 19 pandemic. We have developed an excellent working relationship with the SHJ team.

**Steve Buchan, Group Chief Engineer  
- The Circle Health Group**

SHJ have been maintaining the Trust's equipment for 40 years. I'm more than happy with their levels of service. They are conscientious, 100% committed to any work that they undertake, and nothing is too hard for them. I always recommend that they tender for any job that arises within the Trust and am happy to recommend them to anyone.

**Gerry Vella, Estates Manager -  
The Royal Marsden Hospital**

SHJ have the technical knowledge and access to suppliers that was invaluable. We never had problems getting people on site. We have a very good working relationship that's been developed over a considerable period of time. They are almost part of the furniture, and add real value to what we do with medical gases.

**Shane King, Head of Estates  
Operations - Imperial College  
Healthcare NHS Trust**

I have worked with SHJ for more than 20 years, and they have never failed to deliver every project on time and to budget. The quality of workmanship and expertise is second to none. They always add vital detail to design, and long term viability to an installation. Their strategic approach to each project is an example to others.

**Ian Svenson, Estates Management  
Consultant - Healthcare Estates  
Management**

Great company, very knowledgeable and always on hand for support and assistance. We have been customers of SHJ for more than 2 years. Could not be happier with their service and responsiveness to our clinic needs. Highly recommend!

**Roksolana Mykhalus - Happy Kids  
Dental, Chelsea**

From when I joined the project as AP for Eastbourne DGH, I found that SHJ were very good with their planning and communications. With regular site meetings, they followed their planned timeline, and their staff were professional, polite and helpful.

**Peter Paine, Estates Officer  
- East Sussex Healthcare  
NHS Trust**

Excellent service and technical support. I have been working with SHJ for nearly ten years now. Highly recommended.

**Radek M, Estates  
Manager - Hammersmith  
Hospital**

The SHJ team are so easy to work with and always integrate well with other teams on our projects. We have worked together on several challenging jobs and SHJ have always excelled - nothing is too much trouble, and all requests are met with a positive action. With SHJ, there are no problems - only solutions!

**Thomas Kershaw - Mechanical Site Manager -  
Kier Construction**

Having worked with SHJ for over 20 years, I would like to take this opportunity to say how innovative they have been in their design and installation works. Their staff have always been outstanding and go above and beyond when attending to emergencies. I would have no hesitation in recommending this company to any NHS organisation, or private healthcare company.

**Ron Bryant, Estates Manager -  
Charing Cross & St Mary's  
Hospital**

On reflection communication was the dominant aspect to the successful scheme. The project team listened and understood the requirements of the Trust from both an engineering and sustainability aspect.

**Ian Clayton, Senior Specialist Engineering  
Officer - The Newcastle upon Tyne NHS  
Foundation Trust**

Having used SHJ for many years, they are in my opinion leaders in the medical gas industry. They have a vastly experienced team of skilled engineers and management, who have always been there when I have needed them. Whether it be to consult on project installations, or last minute call outs, they are always on the end of a phone 24/7. I would recommend SHJ to anyone who is looking for a reliable and trustworthy partner to work alongside in the medical gas industry.  
**R Ventura, Estates  
Manager - Chelsea &**



# Your Gas Our Responsibility

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- ◆ Medical & Lab Gas system design
- ◆ Pipework & Plant Installation
- ◆ Plant Manufacture & Emergency Plant Hire
- ◆ PPM & Servicing
- ◆ Refurbishments & upgrades
- ◆ AI driven technology



## Northern Office

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