



TOTAL SOLUTIONS



About us

Puretech Systems Limited is a British engineering company based south of London providing pioneering high purity systems worldwide. For over four decades Puretech have created and cared for the delivery of vital purified water, pure steam, medical gases, high purity gases, specialist & high-pressure gases and process systems at, industrial, medical, pharmaceutical, laboratories, semi-conductor, biopharma, defence and research facilities throughout the world

Part of the Indutrade group, a £2 billion multi-national company incorporating nearly 250 specialist companies and providing a wealth of resource and financial backing to give customers the stability they demand.



Sectors we support

Pharmaceutical & BioTech

Medical Gases

Data Centres

Semiconductor

Life Sciences / Laboratories

Hospitals & Healthcare

Industrial

Gigafactories

Family Care & Cosmetics

Defence

Hydrogen

Nuclear

Let's Discuss How We Can Work Together!

We would welcome the opportunity to discuss how Puretech can become your trusted partner. We'd love to schedule a meeting to explore potential synergies and discuss how we can support your projects with our expertise.

Please contact us for further information

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What we do

System Design

At Puretech, we are dedicated to delivering the highest quality process design solutions, focusing on sectors that have a requirement for Specialist Gases and Purified Water. With over 40 years of experience and a proven track record, we offer cutting-edge designs that drive efficiency, safety, and compliance in industries requiring the utmost precision

Pipework & Process System Design, Fabrication & Installation

We design, manufacture and install reliable and compliant process pipework systems across many sectors where quality, reliability and integrity are key to project success.

Turnkey Projects

Project Management

Puretech's project management encompasses every stage in a project's development from conception to completion, including design, installation, commissioning, validation and client training.

Engineering

We pride ourselves on innovation, approaching each project with the objective of finding the best possible solution to meet the client's requirements, whilst working within the parameters of existing legislation and our own high standards.

Installation

Puretech are proud to have a large team of experienced ASME qualified welders, pipe fitters, supervisors, and project managers. We have expertise in a wide range of materials including, stainless steel, copper, PVDF and polypropylene systems using specialist orbital welding and IR fusion techniques.

Testing and Commissioning

Every Puretech system is rigorously tested to ensure full compliance with safety, integrity and performance requirements as per sector guidelines and standards.

Systems Validation

Puretech's in-house validation team take control of the qualification process by providing high quality documentation to verify the design, installation and operational requirements.

Service & Maintenance

Our service contracts are tailored to our clients individual needs and the service is expertly provided through our network of experienced and qualified engineers.

Manufacturing

Puretech's UK-based 40,000 sq/ft manufacturing facility has been designed and set out to support the rising demand for our specialist water systems, but also supports the growing demand for modular systems, from pipework modules and small-scale skid units to full scale, bespoke, containerised systems.



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Manufacturing Capabilities

Puretech's UK-based 40,000 sq/ft manufacturing facility has been designed and set out to support the rising demand for our specialist water systems, but also supports the growing demand for modular systems, from pipework modules and small-scale skid units to full scale, bespoke, containerised systems.

We offer a wide range of in-house capabilities to streamline project delivery, improve build quality and minimise on-site disruption.

Facilities overview

- Factory size: 40,000 sq/ft
- Height clearance: 15m
- External yard: 1,000 sq/m (approx. 10,764 sq/ft)
- 16 individual test bays for gas systems
- Dedicated areas for stainless steel, carbon steel, panel building and calibration



Skid-building capabilities

We design and manufacture process and utility skid systems – tailored to specific requirements when needed – for a wide range of sectors, including pharmaceutical, life sciences, healthcare, semiconductor and specialist manufacturing industries. Each unit is fully built and tested in our facility before delivery, reducing installation time and improving commissioning outcomes.



Quench pipe fabrication

We specialise in the production of quench pipework, and we design custom solutions to suit your system pressure and thermal safety requirements.



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Modular pipework systems

Puretech engineer and produce modular pipework systems that are delivered to site in pre-assembled sections, dramatically reducing installation time and improving build consistency.

Our solutions feature:

- Factory-built pipe racks and support frames
- High-load-bearing capacity for complex pipework runs
- Adjustable, flexible layouts for tight or constrained spaces
- Seamless incorporation into site facilities and equipment

These modules are built, constructed, and pressure-tested within our factory before being delivered to site – enabling a seamless installation with minimal disturbance to live operations.



Pipe spool fabrication

Puretech engineer and produce modular pipework systems that are delivered to site in pre-assembled sections, dramatically reducing installation time and improving build consistency.



Modular plant room layouts

We design, fabricate and assemble plant rooms in our factory to reduce the amount of time that we work onsite.

This facilitates better quality control, more rapid commissioning and reduced disruption to your live environment.

Bespoke containerised systems

Puretech designs and delivers turnkey containerised solutions – engineered to meet client specifications.

These plug-and-play units are ideal for rapid deployment and include all necessary utilities, controls, and validated systems.



Testing, inspection and quality assurance

Our site includes:

- Wet FAT (Factory Acceptance Testing) Area
- Dry FAT Area
- Dedicated FAT Meeting Rooms
- In-house Calibration Area
- Separate Carbon Steel Fabrication Area (fully isolated from stainless steel)
- Control Panel Build Area
- Gas recycling systems – built and tested in-house

Spares & consumables

We maintain an extensive stock of spares and consumables to support ongoing maintenance and reduce client downtime.

Our inventory includes critical-path items for fast deployment during service windows or unplanned maintenance.

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Pharmaceutical Systems

Pre-Treatment

Each system is individually designed and engineered to treat the local water in local conditions to provide the first step of water treatment and protection to the downstream water purification technology.

Purified Water

Puretech's innovative, fully validated water generation systems convert softened water to Purified Water within one multi-technology unit, ensuring a continuous supply of Purified Water that meets all worldwide Pharmacopoeial standards.

WFI - Water for Injection

Puretech is the market leader in designing and engineering systems to produce Water for Injection (WFI). We have solutions to suit all WFI requirements that meet all worldwide Pharmacopoeial standards whether its obtained via distillation or membrane technology.

Pure Steam

Our Pure Steam Generators produce dry, saturated steam, suitable for sterilisation of pharmaceutical production plants and systems. The steam, when condensed, meets USP & EP requirements.

CIP / SIP

Designed and built to clean process equipment, transfer lines, formulation reactors and many other systems, in full compliance with cGMP guidelines in accordance with FDA and EP requirements.

Mixing Vessels

We design, manufacture, and validate custom-built mixing vessels for the Pharmaceutical, Biotechnology, Healthcare, and Life Science industries. Our vessels are engineered to meet the highest standards of hygiene, compliance, and operational performance — supporting your critical processes with precision and reliability.

Storage & Distribution

Puretech's innovative storage and distribution solutions are designed to minimise space requirements by integrating all of the equipment, instrumentation, monitoring (such as TOC, Conductivity and Microbial) and have its own dedicated control system within a single skid to meet the customer's requirements.

Laboratory Water

Working with Evoqua, global leaders in improving water quality, Puretech offers a range of bench top laboratory water systems including Type I, Type II & Type III

Gas Delivery Systems

Medical Gases

Industry leading bespoke turnkey systems – a single source solution for medical gas delivery systems designed, installed, and commissioned to the HTM requirements.

High Purity and High-Pressure Specialist Gas Systems

High Purity and High-Pressure Specialist Gas Systems designed & installed across the UK. Multi-Million-pound projects successfully delivered on time and on budget within the pharmaceutical, life-science, healthcare and Semiconductor sectors.

Laboratory Gases

Puretech has over forty years' experience and is the UK's largest and leading supplier in the design and installation of laboratory gas control and delivery systems.

Toxic, Corrosive, Pyrophoric & Hazardous Gases

We are specialists in delivering systems with the high level of integrity required to store and transfer potentially life threatening gases.



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Purified Water & Ultra Pure Water Systems

Puretech designs, manufactures, installs and commissions systems built around Reverse Osmosis (RO), Continuous Electrodeionization (CEDI), with a comprehensive pre-treatment processes. Our systems are engineered for reliability, scalability, and performance in demanding industrial environments such as Life Sciences, Data Centres, Gigafactories and Pharmaceuticals.

Specialist Systems

MRI Quench Pipe

Puretech helium quench pipe systems provide a vital role in the safe operation of MRI scanners.

High Vacuum

Small scale modifications and upgrades to total design and installation of large scale high vacuum systems.

Gas Recovery and Recycling

Environmental and economic factors are increasingly driving demand to recover and recycle gases used in a variety of processing applications. In particular Argon recovery in the manufacture of silicon wafers for the semiconductor and solar industries.

Mobile Water Solutions

Puretech offer mobile solutions for your pharmaceutical facility for temporary supply of Pre-Treated Water, Purified Water and Water for Injection, available for short or long term rental.

Hydrogen Solutions

We can design, engineer, manufacture and deliver equipment & turnkey projects or Hydrogen applications such as pipework systems, inc. Coax, decanting, delivery panels/skids and Ultra-Pure water for hydrogen production.

Hydrogen Delivery Skids

Hydrogen Decanting

Ultra-Pure Water for Hydrogen Production

Process Installations

Puretech provides bespoke solutions for a range of applications:

- High purity bulk gas installations
- Chemical systems
- Pharmaceutical and biotech process systems
- Clean dry air (CDA)
- Process gases
- Vacuum lines
- Product transfer lines



Products

GENESYS™

GENESYS™ is the ultimate water purification system – a thermal sanitisation multi-technology unit that provides a single source solution for taking softened water to pharmaceutical grade pure water.

ASEPSYS

ASEPSYS offers world-leading thermally sanitised pure water delivery. From softened water to point of use, the ASEPSYS offers a true single source, multi-technology validated unit, for producing purified water.

OASYS™

OASYS™ water purification system – a chemically sanitised multi-technology unit that provides a single source solution for taking softened water to pharmaceutical grade pure water.

GENESYS™ WFI

From softened water to point of use, Puretech's GENESYS WFI™ offers a true single source for producing Water for Injection (WFI) in line with all worldwide Pharmacopoeial standards.

ArgonØ™

The ArgonØ™ is a world first in point-of-use gas recovery, facilitating cost effective recycling of argon as well as other inert purge gas such as helium and xenon.

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