



honeyman

WATER

Site Services

- ✔ Pharmaceutical
- ✔ Health & Beauty
- ✔ Medical Devices
- ✔ Life Science

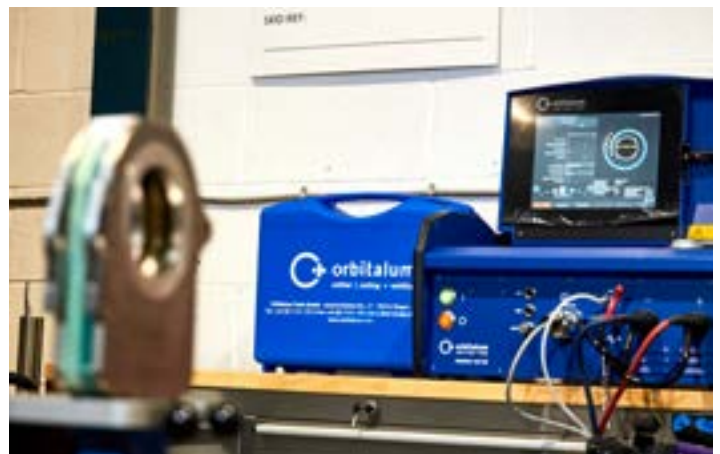
Honeyman Water Site Services

Focusing on the Pharmaceutical, Health and Beauty, Life Science and Medical Device sectors, our experienced site services engineers offer a range of services aimed at increasing your output, helping you meet regulatory requirements and improving reliability of your current purified water, WFI or pure steam systems.

Honeyman Water can offer the following upgrade and pipework modification services:

- ✓ Heat exchanger replacement or upgrade.
- ✓ Upgrade of UV reactors.
- ✓ Installation and or upgrade of Ozone generators and instrumentation.
- ✓ Upgrades from manual to actuated point of use valves.
- ✓ Pipework modifications and loop extensions.
- ✓ HMI - Control system upgrades.
- ✓ Modifications to fit or replace TOC analyser instrumentation.
- ✓ Installation of new centrifugal pumps - including pipework modifications.
- ✓ Skid manufacture including pump, dosing, distribution and CIP skids etc.

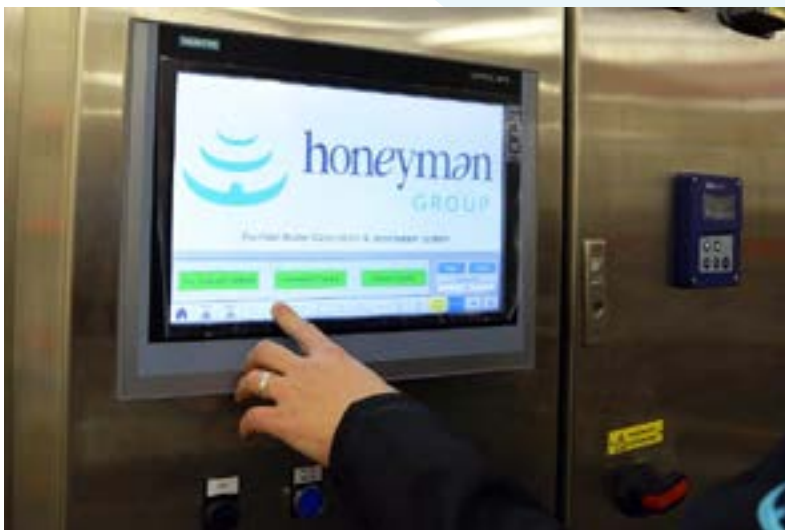
All hygienic pipework is orbitally welded, fully passivated, made from SS316L SF1 as standard. Our documentation pack includes; weld maps, isometric drawings, welding qualifications, 3.1b material certification for all wetted parts. Where needed, schedules and IOQ documentation can be provided.



Routine Services & Maintenance

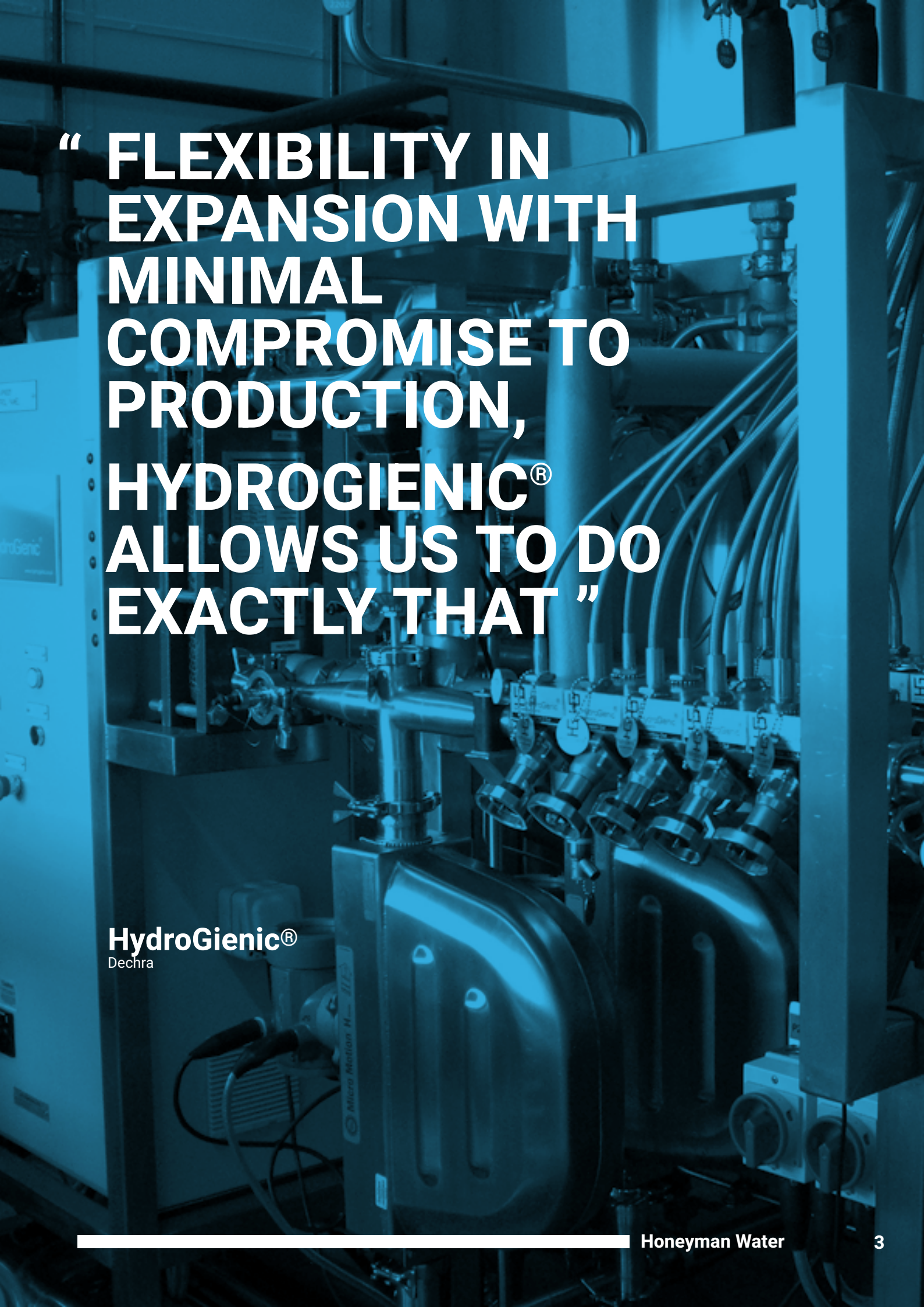
Our experience field service team provides routine service and maintenance on:

- ✓ Pre-treatment systems.
- ✓ RO / EDI PW Systems.
- ✓ WFI generation systems.
- ✓ PSG's, Autoclaves, Ovens
- ✓ Storage & distribution systems.
- ✓ Rapid breakdown and emergency call-out support.
- ✓ Chemical cleans of RO systems, EDI systems and Storage & Distribution Systems.



In addition to our own PW generation skids and installations, we maintain a wide range of different manufacturers' skids.

From incoming towns water to every point of use and anything in between, Honeyman Water can ensure it is reliably serviced and maintained. We can conduct preventative and reactive maintenance including; resin changes, RO membrane replacement, chemical cleans and diaphragm replacements. Our experienced site engineers are passionate about your system, will go to great lengths to minimise disruption to your site and can attend site at times most suitable to you including out-of-hours, evenings, night shifts or weekends and Bank Holidays. All service and call-out visits are subject to RAMS and come with a detailed service report.



**“ FLEXIBILITY IN
EXPANSION WITH
MINIMAL
COMPROMISE TO
PRODUCTION,
HYDROGIENIC®
ALLOWS US TO DO
EXACTLY THAT ”**

HydroGienic®
Dechra

Heat Exchanger Upgrades

Heat exchanger upgrades or plate pack replacements

Temperature control of purified water systems, is required to ensure appropriate measures are in place to minimise microbial growth (low temperature) or to achieve successful sanitisation cycles (hot temperature). In other cases, specific temperatures are required to meet the processes or when local cooling or heating is required at the point of use.

Upgrades may require pipework modifications and will most certainly require full validation.

At Honeyman Water, we can carry out a complete turnkey solution, from calculating the size of heat exchanger, sourcing, installation and IOQ. Our drafts team can modify P&ID's to ensure you have up to date information on your installation.



UV Reactors



Upgrade of UV reactors

UV reactors are a standard aspect of purified water systems, and provide an effective control against microbial growth.

Where existing UV reactors are obsolete, faulty or need increased output, Honeyman Water can carry out a complete turnkey solution, from calculating the size of the UV reactor (W/cm^2), sourcing, installation and IOQ. Our drafts team can modify P&ID's to ensure you have up to date information on your installation.

Upgrades may require pipework modifications and will most certainly require full validation.

Installation & Upgrades

Installation and or upgrade of Ozone generators and instrumentation

Successful sanitisation is paramount to ensuring access to good quality, low endotoxin, purified water storage and distribution.

Ozone sanitisation is highly effective, fast and has a low cost of ownership compared to heat sanitisation.

Whether you are replacing an existing, obsolete or faulty Ozone generator, or looking to upgrade from heat to Ozone sanitisation, at Honeyman Water we can carry out a complete turnkey solution, from calculating the size of Ozone generator (number of cells), sourcing, installation and IOQ. Our drafts team can modify P&ID's to ensure you have up to date information on your installation.



Upgrades from manual to actuated point of use valves

Upgrading manual point of use valves to fully automated valves can offer a number of significant benefits including:

1. **Improved safety** to automatically lock-out valves during sanitisation,
2. **Better quality control** where valves are automatically locked out when water is out of spec
3. **Increased efficiency**, removing the need for personnel to manually lock-out / tag-out valves during a quality incident or during sanitisation.

Honeyman Water engineers can upgrade existing manual bonnets to actuated bonnets, install airlines, manifolds and solenoids in existing

Modifications & HMI Control System Upgrades

Modifications to fit or replace TOC analyser instrumentation

Total Organic Carbon (TOC) analysers provide a real time measurement of any organics in your system. TOC analysers offer the benefit of knowing instantly whether you have an issue in your storage or distribution system, rather than having to wait days for lab results, potentially leading to reduced downtime and loss of production output.

At Honeyman Water we can carry out a complete turnkey solution, offering a choice of manufacturers, sourcing, installation and IOQ. Our drafts team can modify P&ID's to ensure you have up to date information on your installation.

HMI - Control System Upgrades

Removing the need for paper-based systems, a fully integrated HMI – control system can log critical plant data, provide valuable trends and alarm logs.

We offer a range of manufacturers including Siemens and Allen-Bradley. Designed to meet the requirements of FDA CFR 21 part 11, all our systems provide complete data integrity, with full audit trails and password protected user



Other benefits from control system upgrades:

- ✓ Future proofing the plant.
- ✓ Reduce risk of obsolescence.
- ✓ Upgrade from manual to automated valves.
- ✓ Fully compliant audit trails.
- ✓ Electronic storage & trending of critical data.



**“ HONEYMAN IS A
VERY REPUTABLE
COMPANY AND
PROVIDES AN
EXCELLENT SERVICE
THROUGH THEIR
COMMITTED AND
PROFESSIONAL
STAFF ”**

Cara Partners

Pipework Modifications

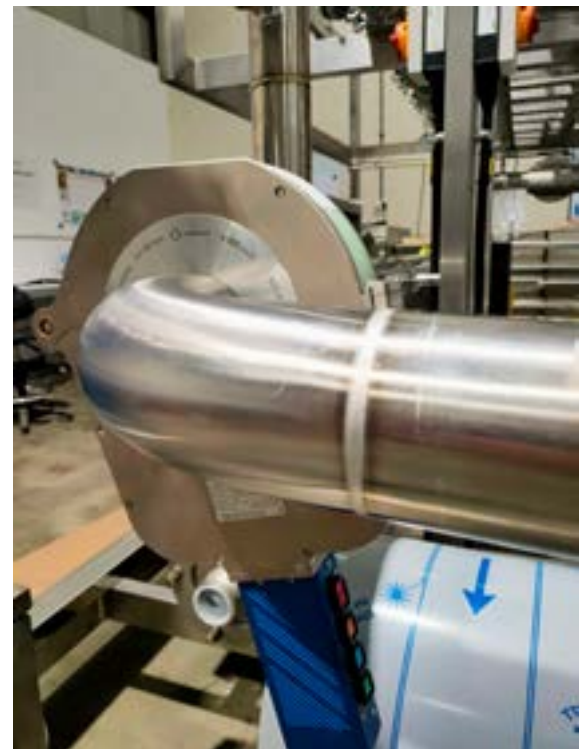
Pipework modifications and loop extensions

Changing process equipment or expanding production and needing more point of use valves? Honeyman Water can provide a turnkey project from specifying the right valve for your application, to sourcing, fitting and validation.

Our engineers will manage shutdown, draining of existing loop, cutting in, modifying pipework and loop passivation to an approved method derived from ASTM A967/A967M-17 standard and Swab Passivation of internal and external welded joints where access is not restricted. A Ferroxyl swab test is then used to determine the success of the process as per the requirements outlined in ASTM A380-13 section 7.3.4.

Following a vast amount of investment in 2021, our team of experienced Orbital Welders carry out workshop & site-based welding operations in accordance with our third party approved ASME IX welding procedures using state of the art Orbitalum equipment. HWL welders are fully coded against the ASME IX standard for orbital welding with a working range of 0.5" to 6" Stainless-steel Tube & Fittings. All welding operations are subject to visual and borescope inspection by an in house CSWIP Qualified Visual Welding Inspector.

To ensure complete traceability and GMP project compliance, a Welding Validation File can be provided consisting of; Weld Maps, Test Weld Logs, Weld Logs, Material Certificates, Welder Qualifications (WPQ), Welding Procedure Qualification (PQR), Machine Calibration Certificates, Weld Coupons, Passivation Certificates, Pressure Test Certificates & all relevant method statements.



New Centrifugal Pumps

Installation of new centrifugal pumps - including pipework modifications

Exchanging centrifugal pumps can be a daunting process. Not for our engineers who will look at available options to reduce pipework modifications and downtime.

Our design team can specify the right pump for your process including increasing flowrates and or pressures, subject to design restrictions of your current system.

We install centrifugal pumps from a number of manufacturers and will consider any site specific brand preferences.



Skid Manufacture & Routine Maintenance

Skid manufacture

Our stainless steel fabrication shop can produce high quality and durable skids for a wide range of applications including pump and dosing skids, distribution skids and CIP skids.

All pipework is orbitally welded whilst skid frames are manufactured from SS304 box. Skids can be supplied on castors or adjustable pads to suit your needs and application.



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