NEW!
MORE THAN JUST A CATALOGUE...

BURTONS

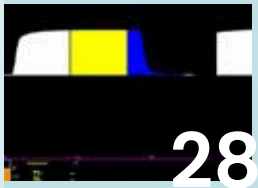
INSIGHT

Edition 01

More than **20** **New Products Inside!**
Across our product range, from anaesthesia to x-ray

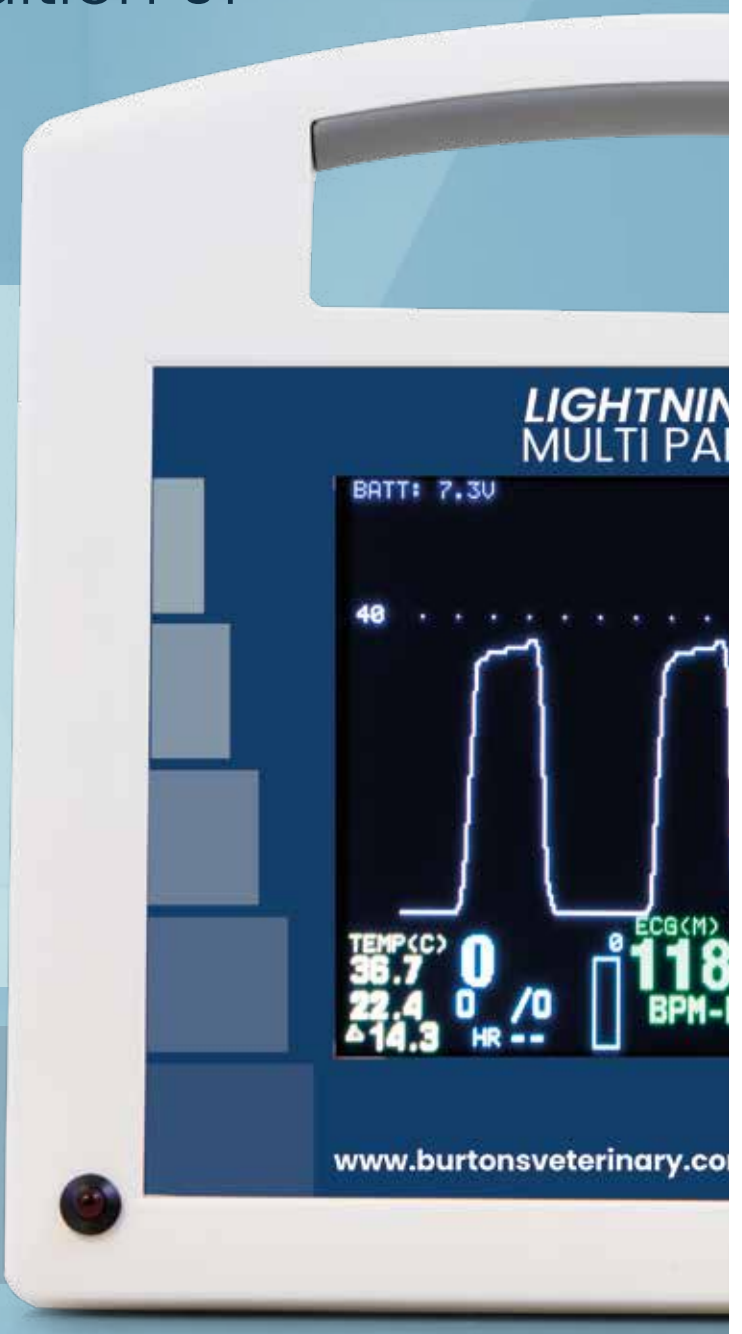
Spotlight Features

How our all new Smart Piped gas monitoring can benefit your practice 32
All new, intelligent, visual indicator to your piped gas system



A new era in patient monitoring & safety 28
An introduction to colour coded directional capnography

More than just equipment repair 34
Delve deeper into the services we offer discovering how we can take the stress out of compliance



Discover our new Vetronic range inside...

I'm made from recycled paper & vegetable based inks

www.burtonsveterinary.com

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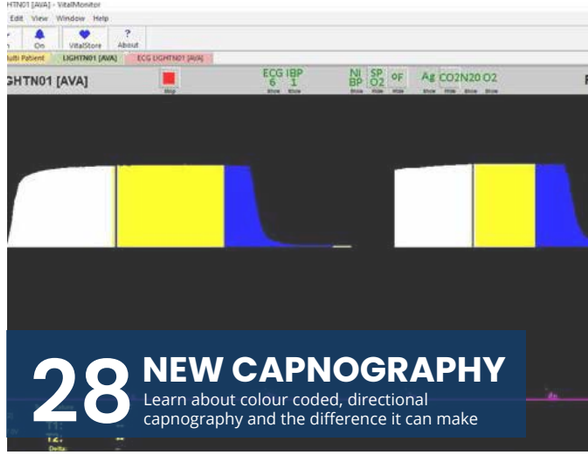
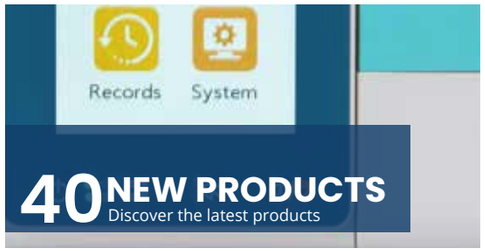




BURTONS

The Home Of Veterinary Equipment

Welcome to the first issue of the Burtons Insight

The Insight is a window into what we do in the veterinary sector. Each issue will be packed with our interesting reads on topics from the clinical to the industrial, as well as a 'behind the scenes' peak at our operations.

As part of our journey towards sustainability, and in breaking with our tradition of printing a new 300-page catalogue every year, at the end of each issue of Insight, you will simply find a brief intro to the equipment that is new to our range instead.

In Edition 1, we invite you to:
- Take a look at the future of capnography with our Clinical Director, Keith Simpson BVSc, MRCVS, MIET (Electronics),
- Discuss sustainable business practices with our Marketing Director, Matt Burton,
- Consider equipment compliance with our Service Director, Grant Kayes

If you would prefer, our literature is readily available in an electronic format. And of course, as always, full information on all our products, services, and more can be found on our website:

www.burtonsveterinary.com

Enjoy!
David, Matt & Eve Burton

Reducing your equipment miles

Quality, Sustainable, British manufacturing

Over 50% of our products are manufactured at Burtons HQ in Kent. And when we say something is 'Made by Burtons' we mean that almost every possible level. Our ever-growing range of capabilities includes CAD design, software development, wiring and circuitry, CNC machining, laser cutting, metal, wood and plastics fabrication, powder coating, full assembly and, of course, testing.

All our reliable and renowned equipment brands are not just sold here, they are designed, built, tested, serviced, and improved based on your feedback right here in the UK. Our manufacturing facilities give us complete control over all the finer details of our products and the efficiency and sustainability of the manufacturing practices that we deploy.

So, when you buy a Burtons machine, not only do you get the highest quality British-manufactured product, but you also get the satisfaction of knowing that you have been kinder to our planet in the process. By choosing to buy veterinary equipment made in the UK, you will be drastically reducing your equipment miles, the associated emissions from transport and the resultant environmental damage.

Manufacturing in the UK puts sustainability at the heart of everything we do.

Dramatically reducing equipment miles for the UK veterinary industry.

To see more on what we are doing to commit to a sustainable future see page 8

Sustainability at the heart of everything we do

Recycle

Materials

We seperate all materials, including metals, WEE, plastics, batteries, paper, ink cartridges & even milk bottle caps! Ensuring everything we use gets fully recycled.

Re-use

Packaging

We try to re-use all boxes that we receive, have bespoke folding cardboard packaging for our core Burtons products & use recyclable soft packaging.

Repair

Reducing waste

We minimise our material wastage and off-cuts in manufacturing... and then we recycle. Our service team & repair centre team help you to extend the life of your equipment by

Web

Carbon neutral hosting

UKFast is the number 1 carbon neutral hosting company in the UK. That's why we have chosen UKFast to host all of our websites

H20

Water Stations

We discourage the use of single-use plastics at HQ with our dedicated water bottle refill stations in every department.

@

eForms

We email whenever a customer email address is provided, including quotes, statements & invoices. Contact us to receive your eforms.

UPS

Shipping

UPS sets out targets every year to ensure that each year they support more and more sustainable working practices. Thats why we have chosen UPS as our courier.

Energy

Efficient

We insulate our warehouses, have installed LED lighting & sustainably re-use wood off-cuts for heat. Our offices have efficient air-source heat pumps throughout.

Print

Marketing Materials

We communicate all of our news, offers and advice digitally. When we do print, we use sustainable and recyclable paper.

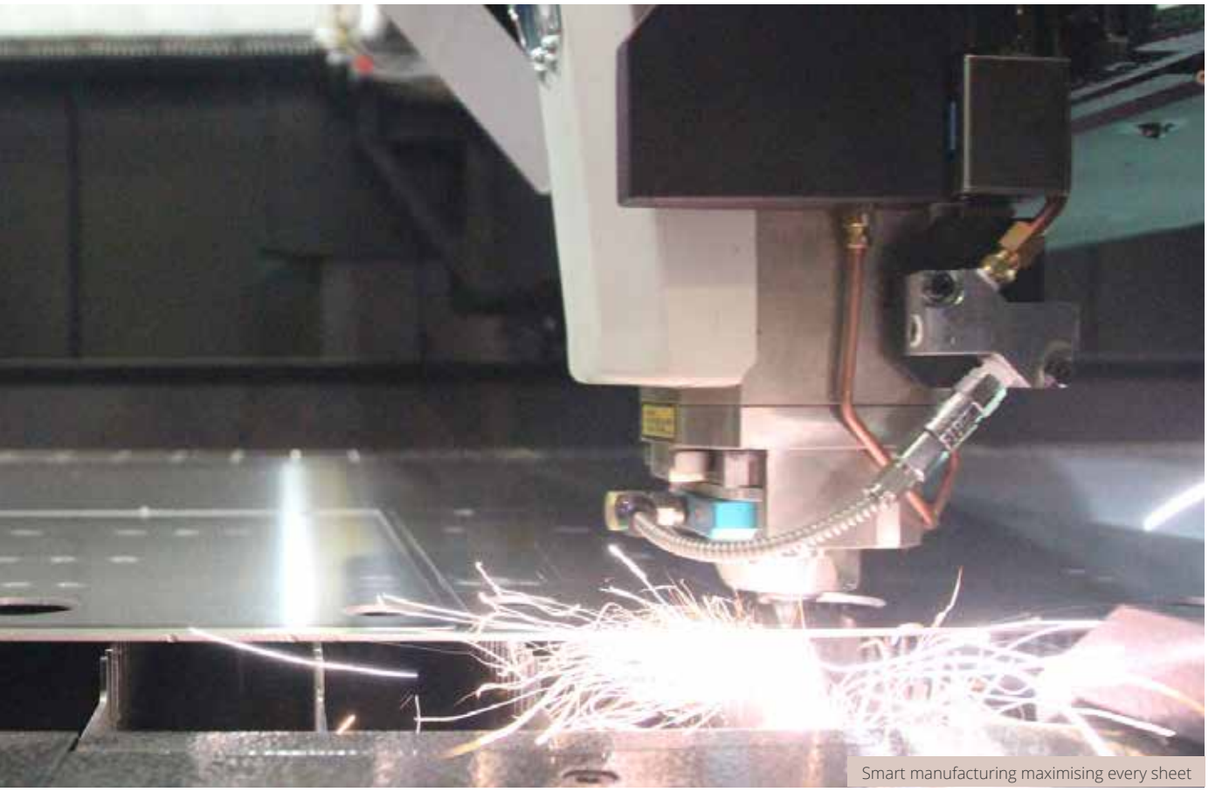
Sign up to our paperless communications

Help us transition to paperless communications by signing up to our mailing list, We will only email you when we have promotions, sales, upcoming exhibitions or product news

Sustainability at the heart of everything we do

Read Time: 5 Minutes

By Matt Burton
Marketing Director



Smart manufacturing maximising every sheet

Sense and Sustainability

All too often, a more environmentally friendly way of living is framed in terms of trade-offs and sacrifices – the jet-setting foregone; the food choices limited; the convenient little life-hacks forbidden. But this negative and outdated narrative requires urgent revision, both in personal and business terms. At Burtons, the deliberate and mapped-out process of placing sustainability at the core of what we do has not just helped us to be kinder to our planet and its inhabitants… it also makes straightforward business sense at almost every step along the way.

For example, we're rolling out LED lighting, energy efficient air-source heat pumps, motion sensors, building insulation, and more, to reduce our energy consumption. We routinely reuse cardboard and other packaging materials that we receive (and when we can't, we recycle). Moving to electronic forms and certification for servicing, as well as email invoicing has saved 80% on postage across Burtons in first year and all the associated print and delivery-related pollution that comes with hard copy. The gradual electrification of our vehicle fleet, starting with our onsite transportation and forklifts, all the way to our engineer vehicles, saves not just on carbon and particulate emissions, but also on fuel and servicing costs over the years that they run. And investing in new manufacturing tech reduces our raw material wastage.

Made in the UK

Many people are now familiar with the concept of 'food miles' – a calculation of how far your meal has travelled to your plate and the emissions associated. At Burtons, we focus on 'equipment miles'. As a UK manufacturer, we offer the opportunity to source new kit in-country, with all the associated hallmarks of high-quality British manufacturing to boot! Continuing to expand our manufacturing capabilities with recent investments in manufacturing monitoring equipment and ventilators are just the most recent step we're taking to help you reduce your 'equipment miles'.

"Many people are now familiar with the concept of 'food miles' – a calculation of how far your meal has travelled to your plate and the emissions associated. At Burtons, we focus on 'equipment miles'."

As well as 'equipment miles', we consider 'work miles', too. Over half of our 150-strong Burtons Team works directly at our Head Office and manufacturing facilities in Kent and, as a truly local employer, we see many of our team members adopting sustainable routes to work – walking and cycling as well as, in the pre- and post-pandemic worlds, car-sharing whenever possible.

As well as this, manufacturing 'from scratch' puts all the elements of production into our control, to be made as lean and green as possible. I've already mentioned our constant drive through new tech and better production planning to reduce material wastage, but then we take the little waste that there is and recycle in every possible scenario – metals by type, plastics by type, waste electrical equipment, batteries and beyond. We even, in the colder months, use our wood off-cuts to heat our largest buildings.

When your finished Burtons goods leave our facility, we constantly assess our packaging, looking to provide bespoke folding cardboard solutions wherever possible… even the soft packaging 'wotsits' that you will find in a Burtons box are starch-based biodegradable!

Service-first advice

Long before we began manufacturing, Burtons started out solely in equipment servicing. In the very early 80s, my Grandad, Fred Burton, then a British Oxygen Company engineer, began servicing equipment in local veterinary practices. At a time when much veterinary kit was comprised of defunct NHS hand-me-downs, with zero availability of spare parts and little hope of reasonable repair, our offer to our very first veterinary customers was to continue to extend the life of their equipment, saving on scrappage, waste and replacement.

Cardboard baler to reduce recyling miles

Nowadays, as well as our sales and manufacturing teams, we have a team of 29 field service engineers, 10 in-house repair technicians, 6 service coordinators, 3 field operations managers and 2 technical support specialists, all headquartered in our cutting-edge Repair Centre and able to service and repair veterinary equipment all across the UK and Ireland. Supported by constant reinvestment and growth in our Service Team, our promise to offer service-first advice continues to this day, to keep your existing equipment in action and fundamentally preventing as much equipment wastage as is possible. Why buy new when your current machine could be repaired? Decades on, we still even maintain equipment that Fred Burton would recognise!

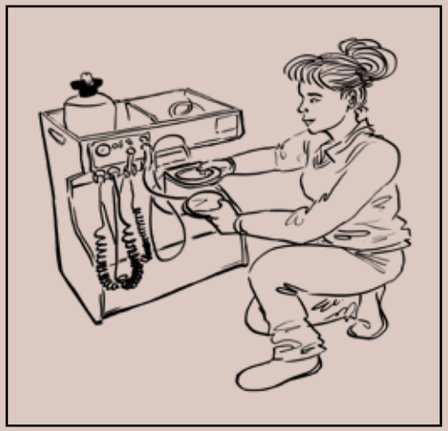
Always Looking Ahead

Going the other way in our chronology, I believe that being a family-run business brings about a different kind of longevity to planning, where the long-term goals are framed in terms of transition, rather than 'exit'. I certainly don't mean that other kinds of business don't ever consider 30, 40 or 50 years from now, but plans for us are set in motion beyond the span of any one career in our industry and this perspective lends itself to plotting lasting, sustainable trajectories.

Examples of this range greatly from the removal of single-use plastics from our premises, starting with the installation of water refill stations, to changing to digital marketing and communications platforms. During the latter transition, we have already made a commitment to print only when necessary, with April 2021 being the first April in a decade where we have not printed a major catalogue update. We have also resolved to use only recyclable printing materials until our 'great digital leap' is complete.

It's true that these transitions can take time and that, with constant technological advancement, the the road to evermore sustainable business practice will never likely be behind us. Nonetheless, my sister, Eve, and I, as well as the whole Burtons Team will continue to plot our route map to carbon neutrality and a hopeful future of a carbon negative contribution.

New repair centre facility



02

The Burtons Difference

Our Services

From a simple product purchase to complete practice design & installation

At Burtons, our service doesnt just stop once your product has been purchased. The next few pages will show you all the services we can offer, from product demonstrations & setups, to complete practice design and equipment care plans to extend the life of your purchases.

PRACTICE DESIGN

At Burtons we can be with you every step of the way, from idea to reality. Our free, no obligation design service can provide you with your ideal practice layout.

Find out more on page 24

01 PRODUCT DEMONSTRATIONS

Interested in a product but need to know more? Our territory managers and product specialists can bring a product to you for a demonstration. Enabling you to test it in the right environment and ask any questions whilst they are there.

02 PRODUCT SETUPS & COMISSIONING

If you decide to purchase a product we can come along and set the product up for you, showing you how to set it up and allowing any queries to be easily resolved.

If you purchase a machine from us that requires comissioning, then we offer this as part of our standard product setup procedure.

03 INSTALLATIONS

At Burtons, we have our own installation team that have years of experience of installations in the veterinary industry. From reception desks, utility columns and cage banks to fully fitted piped gas systems. Our professional team will ensure your installation is carried out to the highest standard with the least amount of disruption to the everyday running of your practice.

04 THE BURTONS ACADEMY

Coming to you in 2022, Burtons' new Clinical Team will be bringing you cutting edge CPD on topics across veterinary anaesthesia, with initial focus and specialisms in mechanical ventilation and capnography. Lead by Clinical Director, Keith Simpson BVSc, MRCVS, MIET, the team will be announcing a number of CPD days throughout next year – watch this space!

NEW FOR 2022!

Burtons engineer visiting a practice

Burtons Aftercare

To achieve the best possible performance and reliability from your equipment, regular servicing and maintenance is essential. We have aligned our standards with our customers, offering Quality, professional service support, delivered by Burtons trained technicians. Ensuring all standards are maintained and helping our customers have confidence in the performance of their equipment. Across the Burtons service division our support is designed to make the servicing, repairs or calibration of critical clinical equipment simplistic, cost-effective but above all else compliant and safe to use. By adopting this approach we can ensure all standards are delivered and maintained providing our customers with confidence in the performance of their equipment.

Visit **burtonsveterinary.com/service**

For service enquiries contact:

01622 834350

service_team@burtons.uk.com

For equipment repair enquiries contact:

01622 834375

workshop@burtons.uk.com

NATIONWIDE
National & International support coverage

FAST RESPONSE TIME
Fast, efficient and effective response time

DIRECT SUPPORT
Access to technical product specification, technical support specialists, direct messaging, video support & much more

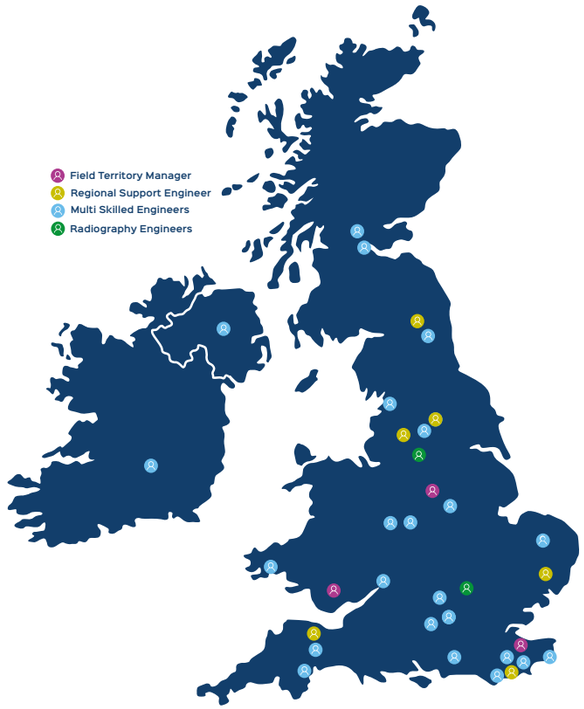
LOCAL
Friendly and localised service team supporting you to minimise costly downtime and disruption

LIFE SUPPORT
After care support plans designed to elongate the life of your asset

DIGITAL CERTIFICATION
Quick, simple access to all of your complicance certifiations

DEDICATED SERVICE TEAM
Professional, committed and highly skilled field engineers and repair technicians

SAFE CONTRACTOR ACCREDITED



Field Servicing

Equipment such as anaesthetic machines and autoclaves are fundamental to the prosperity of any veterinary practice.

A service contract from Burtons provides not only comprehensive breakdown cover, but also safety and compliance examinations, to protect your staff and extend the life of your equipment.

Our aim is to attend site within 24 hours of a call being raised, reducing costly and disruptive downtime. Our engineers book their work in with you to ensure that they call at the most convienent time. We provide a 3 hour call back promise with every breakdown call recieved, where by the engineer will call and book in your breakdown within 3 hours of the office recieving your concerns.

Visit **burtonsveterinary.com** to find out more

01622 834350

service@burtons.uk.com

Burtons engineer working on an autoclave in practice

01 FIELD SERVICE OPTIONS

- Practice asset registering
- SCAV safe, waste gas monitoring
- Lifting equipment thorough examinations
- Examination & theatre light inspections
- X-ray generator annual inspections
- X-ray CR, DR & Dental
- Pressure systems safety inspections
- Equipment care plans across a diverse range of clinical equipment

02 EQUIPMENT CARE PLANS

- Autoclave – Vacuum and Non Vacuum
- Anaesthesia Systems
- Ventilators – Small and Large Animal
- Concentrators
- Medical Piped Gas Systems
- Active and Passive Scavenging Systems
- Dental Stations
- Dental Scalers
- Lifting Equipment
- Hydrotherapy Systems
- Water Filtration Systems

03 COMMON COMPLIANCE PLANS

- **WAGS & WELS** - Waste gas monitoring - SCAV safe is a simple and easy waste gas monitoring service
- **IRR17** - Radiography support - offering installation, demonstration, service, and or, repair across our range of Imaging products.
- **LOLER & PUWER** - with a Burton's service plan you can ensure that your lifting equipment is compliant to the latest regulations and staff are operating and maintaining it safely
- **Pressure Vessel Safety Regulations** - under the Pressure Systems Safety Regulations 2000, users and owners of pressure systems are required to demonstrate that they know the safe operating limits.

Waste gas monitoring badge being worn

Find out more about how we can take the stress out of compliance for you

See page 34

Repair Centre

Burtons new repair centre facility

Visit burtonsveterinary.com for more information Or to download a repair form

Our expert In-house repairs team are here to help...

Our In-house repair facility not only provides after sales support for the products we sell, we can, in many instances service and repair other instruments as well. The in house repair centre service is designed to provide a fast, effective and informative process to minimise practice operation down time.

Free, no obligation quotation upon inspection (Exemptions may apply).

To save equipment downtime, all repairs below a value of £150 will automatically carried out, unless 'quotation' has been specified

FACILITIES & EQUIPMENT

We have a newly refurbished, well-equipped workshop based at our Marden headquarters.
As part of our ISO 9001 quality system all our test equipment, such as multimeters, oscilloscopes, refractometers etc. are calibration checked in accordance with manufacturer's guidelines to ensure consistent and reliable performance.

TECHNICIANS

All of our technicians have had extensive training in all aspects of repair and maintenance of the products we offer. You will be able to speak personally to the technician undertaking the repair for advice on maintenance and their diagnosis of faults found with your equipment, and
proposed remedy

04 Repair Centre Options

- Instrument sharpening service blades, scissors and dental elevators
- Infusion pump and syringe service, calibration or repair
- Patient monitoring service calibration or repair
- Ventilators
- Endoscopy service plans, repairs & inspection, Ultrasound service, & repair
- Equipment repairs across a diverse range of clinical equipment

05 Repair Centre Specialities

Equipment repairs across a diverse range of clinical equipment:

- Clippers
- Diagnostics
- Doppler
- Electrosurgical
- Ultrasonic Baths
- Microscopes
- Pulse Oximeters
- Dental Scalers
- Patient Weighing Scales
- Portable Suction Units
- Grooming Dryers
- Patient Warming Systems

01622 834375

repairs@burtons.uk.com

SCAN THE QR CODE TO DOWNLOAD & PRINT OFF A REPAIRS FORM

We offer a clipper blade repair service, contact us to receive your clipper blade envelope

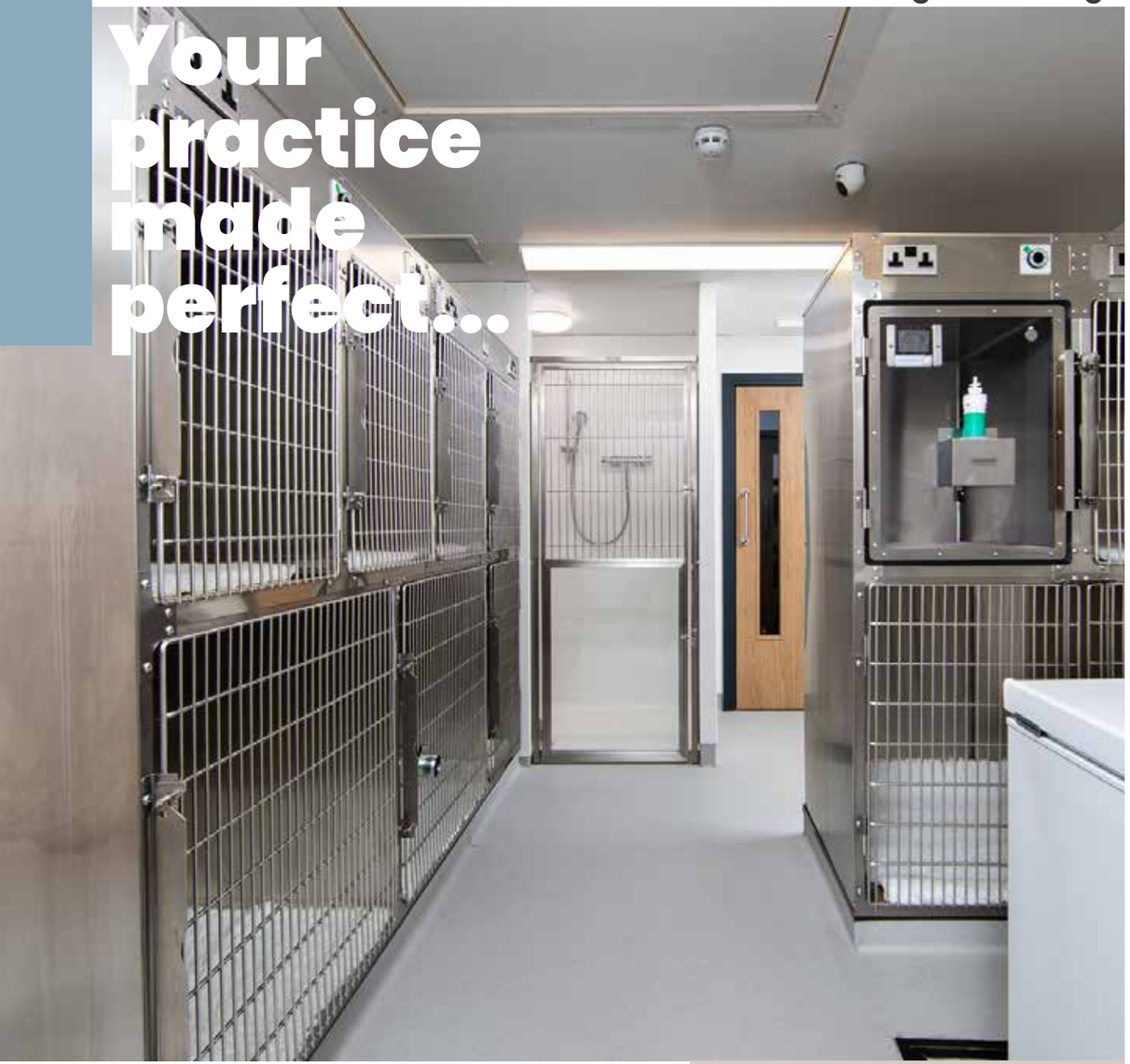
03 FEATURES

From idea to reality

Read Time: 3 Minutes

Call us on 01622 834300 for a free, no obligation design

Your practice made perfect...



Recovery ward with 'lifetime' cage banks and walk-in kennels

Since the very beginning of Burtons Medical Equipment back in 1981, support has been our number one priority. We take pride in the fact that we really can be there every step of the way in turning your dream practice into a reality. From design, bespoke manufacturing and equipment expertise to installation, preventative maintenance, and servicing. We can guide and support you through the entire process.

Design

Organising equipment and furniture locations can be difficult without being able to picture the final layout. We allow you to visualise your new practice, by drawing up free, high quality CAD drawings of the proposed layout.

Knowing that the efficient use of limited space is of paramount importance, we can provide off the shelf storage solutions that will enhance your working space and impress your clients. Whether it's a small space and everything needs to be compact, or it's a large room and you struggle to make sure everything is within reach. These are all problems we can solve with our layout design and bespoke furniture fittings.

Cage Installations

If it's a single cage or a new practice setup the easy installation process is straight forward and fast. Once you're happy with your order, all our cages are delivered pre-made and ready to go, our in-house installation team, can arrange a suitable time to build your new bank, working with you to minimize disruption.

Cabinetry build and installation

Superior build quality, craftsmanship, style and functionality combine to offer you an exceptional cabinetry range. Built to last, and tailored to your exact requirements, we stock a comprehensive range of base and wall unit carcasses to suit all circumstances, plus offer the added flexibility of bespoke design to meet your exact needs.

Piped gas & AGSS installation

Tailored specifically to the unique requirements of veterinary practices, which are distinctly different to those of human medical installations. Because we know how practices operate, we know what works and what doesn't, saving you from finding out the hard way. Our piped gas systems offers a much-needed alternative solution to traditional cylinders.

Consult room with Burtons cabinetry

Reception Desks

At Burtons we are proud to be able to offer you high quality, modular reception desks and counters. Designed, manufactured and installed by us in the UK. We can also assist you with a bespoke design to ensure we can create a practical, safe and stylish work centre that complies with current legislation and compliments the design of your practice for years to come.

Burtons installed piped gas external store

If you're thinking of refurbishing your practice or starting from scratch, why not contact our sales team who will be pleased to make an appointment for you with our experts to discuss your requirements and provide a free no obligation quotation and design

Dedicated dental procedure room with piped gas

Realistic, in-practice capnography & ventilation training

Discover the benefits of the Annequin capnography and ventilation training model

Contributors: Keith Simpson BVSc, MRCVS, MIET (Electronics), Clinical Director
Written by: Joel Huey (BA) Hons - Content Creator

Read Time: 3 Minutes

Annequin set up with the Vetronic Lightning multi-parameter monitor and Burtons heat mat

The quality of options online learning has to offer has dramatically increased over the last few years, especially when it became the only option we had. Through this, online simulators have been continuously developed to try and overcome missing out on practical learning, and for the most part, have succeeded in teaching the knowledge we required.

But there is something that online learning will never be able to achieve, and that's practical, real life scenario confidence. We can learn every term, every measurement, and every step-by-step guide to each scenario, but so many factors can cause different reactions when it is happening in front of us.

Our environment is a huge factor, being in an actual theatre, making sure everything is set up in its correct place, that you have everything you need, adds a whole other level of things you need to think about. Confidence is another key factor, you may be well and truly capable, even an expert, but until you have practiced these skills in a real scenario, you will not have proven this to yourself and will therefore lack the confidence that is required.

The Annequin provides you with a tool that can achieve all of this by simulating the exact behaviour and responses seen in a ventilated animal, with respect to CO2 elimination. This simulation enables you to not only teach basic ventilator use, but also experience unusual scenarios that may never have been taught, arming you with skills and responses to any situation that may occur.

This type of learning allows the key element that everyone needs to completely learn a skill - practice. This practice will help refine any lessons taught, and, due to being able to create this scenario in a safe environment, build real life confidence that is impossible to gain in any other way. It even allows you to show extremes, demonstrating something being done in the wrong way, seeing the effects of this act can help further develop understanding of the correct procedures and why they are so important.

The Annequin (Animal mannequin) works by mimicking life-like representations of a constant rate of CO_2 production that needs to be removed from the internal lung by a ventilator. The Annequin can be used to emulate hyper and hypocapnic states, investigate the effects of over and under ventilation, as well as the effects of dead space and flow rates in breathing circuits. You can use the Annequin with any brand of ventilator and any form of capnography.

Find out more about our Training Models at burtonsveterinary.com

Dr Kathy Murphy from Newcastle University explains why it has been such a useful teaching aid:

"We have three Annequin's for teaching and find them really useful. Simulation training allows us to not only to teach the basics of ventilator use but also to create scenarios that we don't see very often during anaesthesia, so that attendees can learn how to trouble shoot in a safe environment. Having been previously disappointed that online simulators didn't create a real enough learning environment, we switched to Annequins. Being able to set up theatre exactly as it would be with, monitor and fluid lines, really adds to the experience and enables students to practise the ergonomics of trouble shooting as well as the decision making" – Dr Kathy Murphy - BvetMed, DPhil, CertLAS, CertVA, MRCVS

A new era in patient monitoring & safety

The new technology makes it possible for even junior staff to quickly recognise the appearance and extent of serious ventilation complications.

By **Keith Simpson** BVSc, MRCVS, MIET (Electronics), Clinical Director

Read Time: 4 Minutes

For some time, the limitations of time-capnography have been of concern when training veterinary personnel, as even with a deep understanding of the physics and principles behind capnography, conditions arise that are hidden from the observer.

Traditional time-capnography has some in-built limitations that preclude full awareness of the patients' conditions. This, coupled with pre-conceived ideas of what the capnogram represents, can result in potentially life-threatening conditions developing.

Two years of development has led to Vetronic Services inventing a directional capnography module, the industry's first solution to this problem.

How capnographs hide certain patient conditions

A common (mis)interpretation of a time-capnogram, is that a rising CO2 level is associated with expiration, and a falling CO2 level is associated with inspiration. There is no relation of the data to inspiration or expiration, so a rising CO2 level can only indicate a rising CO2 level, irrespective of the stage of respiration. It is, therefore, possible that a rising, or high CO2 level could indicate inspiration of previously expired gas rather than normal expiration.

Those experienced in interpretation of capnogram may be able to recognise capnogram traces showing rebreathing from inadequate gas flow or from faulty one-way valves in a circle system.

However, in certain situations, such as when dead space rebreathing exists, the initial inspired gas has the same concentration as the expired end-tidal gas and so there is no change in the level of CO2 on the capnogram trace. Experienced or not, observers of such a capnogram will not be able to identify the extent of even the presence of rebreathing.

A common (mis)interpretation of a time-capnogram, is that a rising CO2 level is associated with expiration, and a falling CO2 level is associated with inspiration

Directional capnography heralds a new era in patient monitoring and safety. The new technology makes it possible for even junior staff to quickly recognise the appearance and extent of serious ventilation complications, such as excessive dead space, rebreathing due to inadequate gas flow and leaking valves in a circle system.

How can we fix it?

The solution to this problem is to add directional data to the capnogram so that levels of CO2 can be tied to the specific state of the patient, be that inspiration, expiration or a respiratory pause. This directional capnography is shown via colour coding (colour coded capnography) and can clearly indicate such conditions as rebreathing, inadequate fresh gas flow and periods of respiratory pause, leading to early detection of patient ventilation problems.

Vetronic services has designed and produced this colour coded capnography module with associated directional data indication which clearly and immediately shows the 3 different states of respiration on the capnogram trace. This module will be available to add to Vetronic Lightning monitors.

Keep an eye on our buyers guides at burtonsveterinary.com for our up-coming series all about capnography

Find out more about the Lightning Multi-Parameter monitor.
See more on page 42

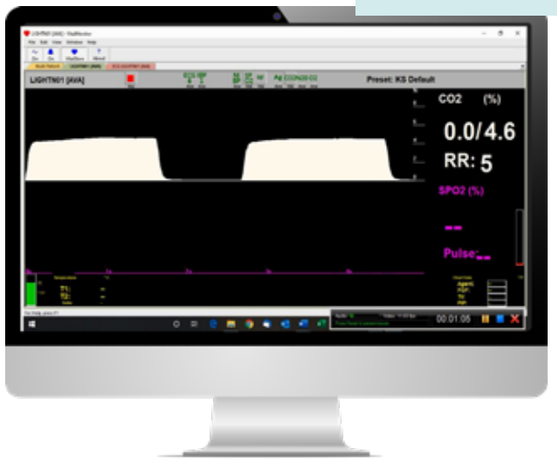


Figure 1 - shows a capnogram from a patient on a circle system with ET CO2 of 4.6% and Inspired CO2 of 0%.

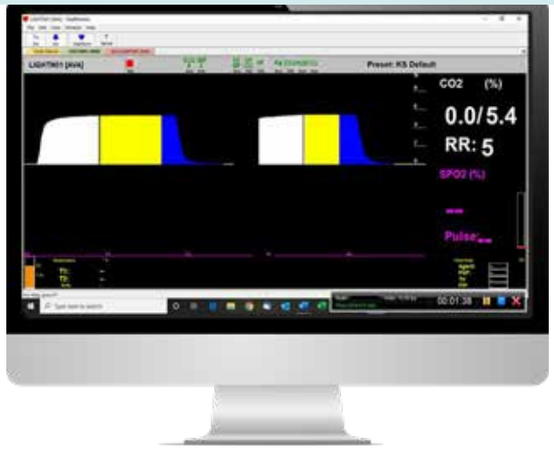


Figure 2 - shows the same patient monitored with a capnograph incorporating Colour Coded Capnography. It is clear that there is a significant expiratory pause (Yellow) and significant rebreathing of CO2 (blue) despite the zero value on inspired CO2.

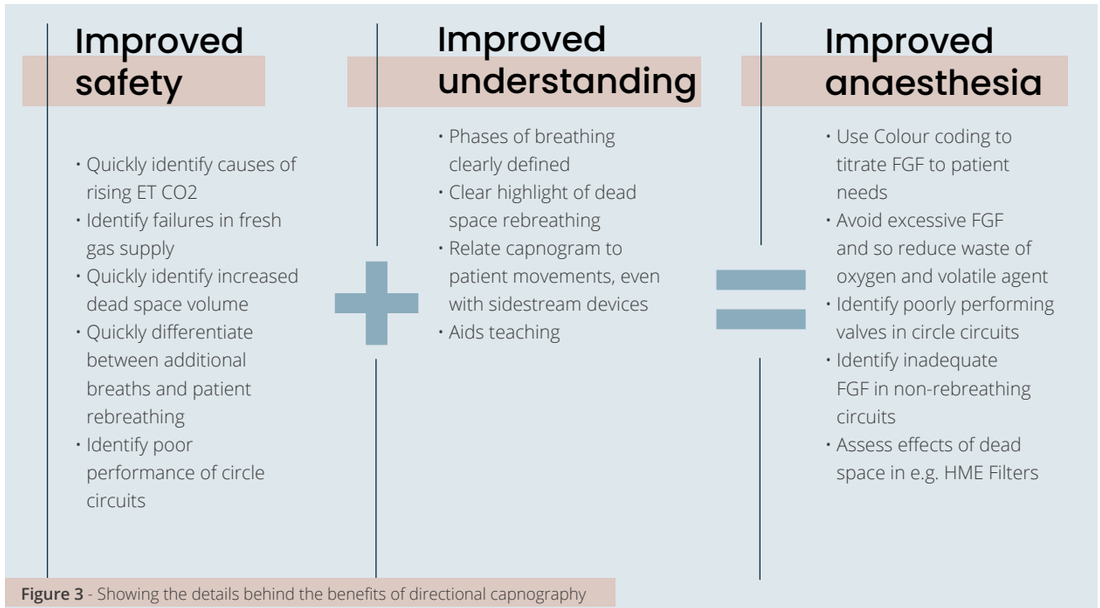


Figure 3 - Showing the details behind the benefits of directional capnography

What makes the Tafonius different

Read Time: 6 Minutes

By Keith Simpson BVSc, MRCVS, MIET (Electronics), Clinical Director

The Tafonius does not use any pressurised gas to drive its ventilator, instead, a precision motor system controls piston movement. This results in silent operation, reduced running costs and precise control. The advanced motor system and motor control mean that the piston can behave like a virtual bag during spontaneous ventilation and during the expiratory phase of controlled ventilation. It also means that any part of the respiratory cycle can be executed as a series of phases of varying lengths. Any phase can have a resolution of less than 1/100th second. During normal IPPV for example, only one phase is used during inspiration, and this lasts the full length. During expiration multiple phases are used, each one lasting 5ms (200 times per second). In each of these phases the airway pressure is measured, and the piston moved accordingly. Not only does this system provide very smooth control of breathing but it allows the implementation of an Airway Servo System to control patient airway pressure. If the Servo Airway pressure is set to 0cm H20 then the patient experiences no resistance to breathing out, significantly reducing the work of breathing. To the patient, it feels like exhaling to ambient with no machines attached. If the Servo Airway Pressure is set to 5cm H20 then the patient experiences 5cm of CPAP or PEEP. With the combination of multiple phases and a servo system, any pattern of breathing can be designed and implemented. In time, researchers will develop a library of ventilating modes, patterns, sequences and manoeuvres that can be used to ventilate your patient. No longer will you need to buy a new machine to obtain new features.

An investment in the future of ventilation

Tafonius doesn't have a rebreathing bag in the circle, so how does the patient breathe out against the piston?

The answer is that the Tafonius has a piston that can behave like a piston or just like a bag – the virtual bag
When the ventilator is idle and the patient is connected, the system behaves like a 'perfect' bag. By this we mean that when the patient breathes out, there is no expiratory resistance, and when the patient breathes in, there is no inspiratory resistance. This action is possible due to the Airway Servo System just described. If the patient breathes out then the piston withdraws, effectively filling. If the patient inspires, then the piston moves down, effectively emptying. Because the piston is driven by a motor, it is the motor that overcomes the resistance of any piping, valve or soda lime. The patient appears to be breathing into room air with no resistance.

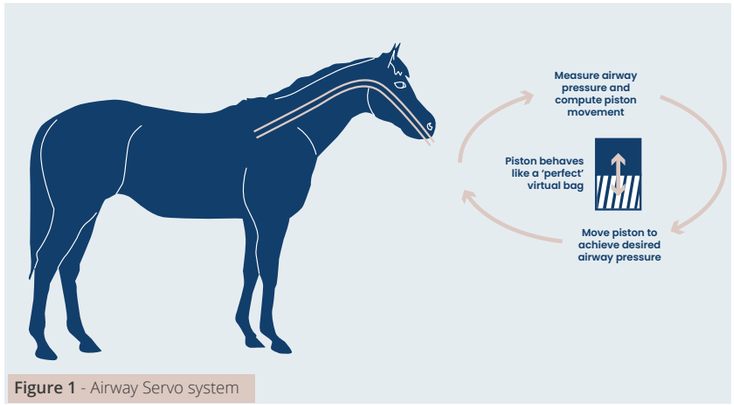


Figure 1 - Airway Servo system

It is difficult to describe all of the innovative features of the Tafonius. There is a comprehensive range of monitoring signals displayed on the 15" touchscreen monitor: ECG, IBP, CO2, O2, N2O, Agent & Temperature. All of these have associated traces, trends and alarm capabilities with visual, as well as audible indicators. Patient details and records can be entered at the beginning of a procedure and are displayed on the screen. The screen organisation is customisable so that traces can be placed where required or removed if not in use. At any time, a trend graph of the measured parameters can be viewed so that a trend of blood pressure for example can be viewed during a procedure. This data is available when an op has finished in a spreadsheet format. Tafonius uses the concept of pre-sets for screen organisation and initialisation features. When you are happy with a range of initialisation values and the layout of your screen, save it as your own preset so that you can come back to it at any time.

Tafonius is capable of controlling many Servo systems at once. We have already seen the precise control offered by the Patient Airway Servo System. This level of control can be extended to other systems, such as Oxygen percentage control. The control tools for these new systems are already built into Tafonius, and the provision of these raw tools means that new control systems, designed in the future, can be immediately utilised by a simple change of software. The Tafonius is different from any other ventilator on the market, not just for its' intelligent piston design and multitude of user-friendly features, but because it is an investment in the future of ventilation, not just a new ventilator.

Tafonius Junior model also available

View more details on our range of Tafonius ventilators at burtonsveterinary.com

Smart gas monitoring at your fingertips

Read Time: 4 Minutes

Discover the all new live, visual indicator to your piped gas system

Contributors: Dan Williams - Project Manager
Mark Williams - Product Development
Written by: Joel Huey (BA) Hons - Content Creator

Smart gas monitoring screen fully setup on a practice walll

Our all new, intelligent, medical gas alarm works as a live visual indicator to your piped gas system.

We listened to feedback and observed hundreds of piped gas runs that we have installed to figure out a way we could make the day to day running of procedures easier, more efficient, and safer. But this couldn't be one standard monitoring system, as every practice we fit out with piped gas has different requirements, whether this is different sized buildings, practices over different floors, active gas scavenging requirements, the list goes on and on.

See what your system is doing at any given time, on a large 10" touchscreen monitor

The medical gas alarm works by enabling you to see what your system is doing at any given time, on a large 10" touchscreen monitor. This screen can be located on any wall in your practice. It will monitor how your system is running, displaying gas levels, notifications such as concentration failure and backup switchover, error & shortage alarms and can also control automatic switching between cylinders and concentrators.

But that is just the basics

The system can be connected to all sorts of equipment around your practice including, but not limited to, multiple oxygen concentrators, cylinders, air compressors, and AGSS pumps. It will monitor and display your oxygen purity levels, it is programmed to leak test your system at the click of a button, allowing for a level of self-diagnosis, and displays when your next service is due. The alarm monitor is not restricted to new piped gas installations, it can be retrofitted to your existing Burtons piped gas system, although pipework may need to be altered.

Servicing & Support of your system

A remote access panel means that we can remote into your apparatus and view any faults that have occurred, meaning we can help you diagnose some errors over the phone. For any complex issues, an error log can be displayed on the screen which also gets stored on a SD card, and provides our engineers with a history of what has happened and when, for a quick, thorough diagnosis. We can clear this history log for you over the phone once any issues have been resolved. The screen will also display when your next service is due.

The possibilities are endless

Because the software is editable, we can amend, fix, and add to it, meaning new features to this monitoring system will just keep growing with time. We understand that your practice may grow, requiring more equipment, more gasses, and a larger system. We can add to your intelligent alarm & monitor to allow for this, even adding more screens across multiple rooms in your practice that all connect to the central system. The intelligent piped gas alarm is designed to not only improve the day-to-day efficiency of your practice, but also to grow with your practice needs.

To find out more, give us a call on 01622 834300 and we can put you in contact with one of our experts.

Keep an eye on our website to see up to date information and more project examples

Burtons piped gas external store

Burtons smart piped gas run

Take the stress out of compliance

Read Time: 6 Minutes

With a service that is more than just equipment repair

Written by: Grant Kayes - Service Director

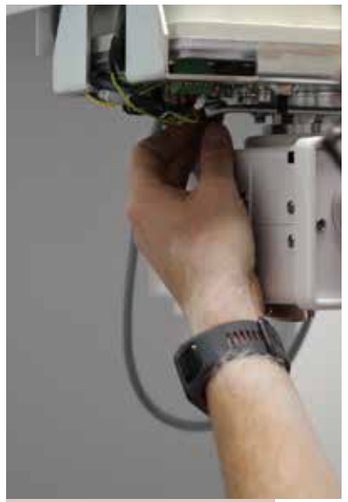
In our profession, so much sits behind equipment servicing or reactive repairs. The Health & Safety Executive – Approved Code of Practice – Best Practice – RCVS and others all provide essential guidance and legal requirements to ensure not only your equipment is safe for use but the employees using the devices are safe. At Burtons, we understand how busy the day-to-day life in a veterinary practice can be, without the added worry of compliance certificates and staff safety. We have designed our range of service plans to help alleviate these concerns. We will ensure that we contact you when your equipment is due its next service or inspection, providing you with your compliance certificate and the peace of mind that any equipment has been thoroughly examined. Below are just 3 examples of common service options that we can offer, explaining why they are so vital for your practice.

'IRR17'

RADIOGRAPHY SUPPORT

Any employer who undertakes work with ionising radiation must comply with the Ionising Radiation Regulations 2017. Equipment maintenance and inspection programmes are therefore an essential part of the employers duty of care and adhering to compliance of regulation 11.

The Burtons radiography team are there to support you and your employees by offering installation, demonstration, service, and or, repair across our range of Imaging products. We understand our customers require quick resolutions to such critical clinical equipment, keeping down times to an absolute minimum, so the use of remote access technology is always our first preferred diagnosis option to get you back up and running as quickly as possible. Should a site visit be required, following remote diagnosis, then your localised Radiography field technician will attend promptly to minimise operational downtime.



Examion Static Classic Installation

Compliance is not just there to ensure the appropriate standard of animal care, it is also there to ensure your safety at work

Our Radiography after care support plans don't just support you through issues but also support the general use of your equipment, giving you continued access to regular software updates, technical support across various platforms, loan equipment and preferential service charges.

'WAGS & WELS'

WASTE ANAESTHESTIC GASES AND WORKPLACE EXPOSURE LIMITS

Where anaesthetic gases are used in the workplace environment, there's a risk that volatile gases can escape into the atmosphere, causing potential harmful effects due to repeated exposure of low-level concentrations.

Side Effects?

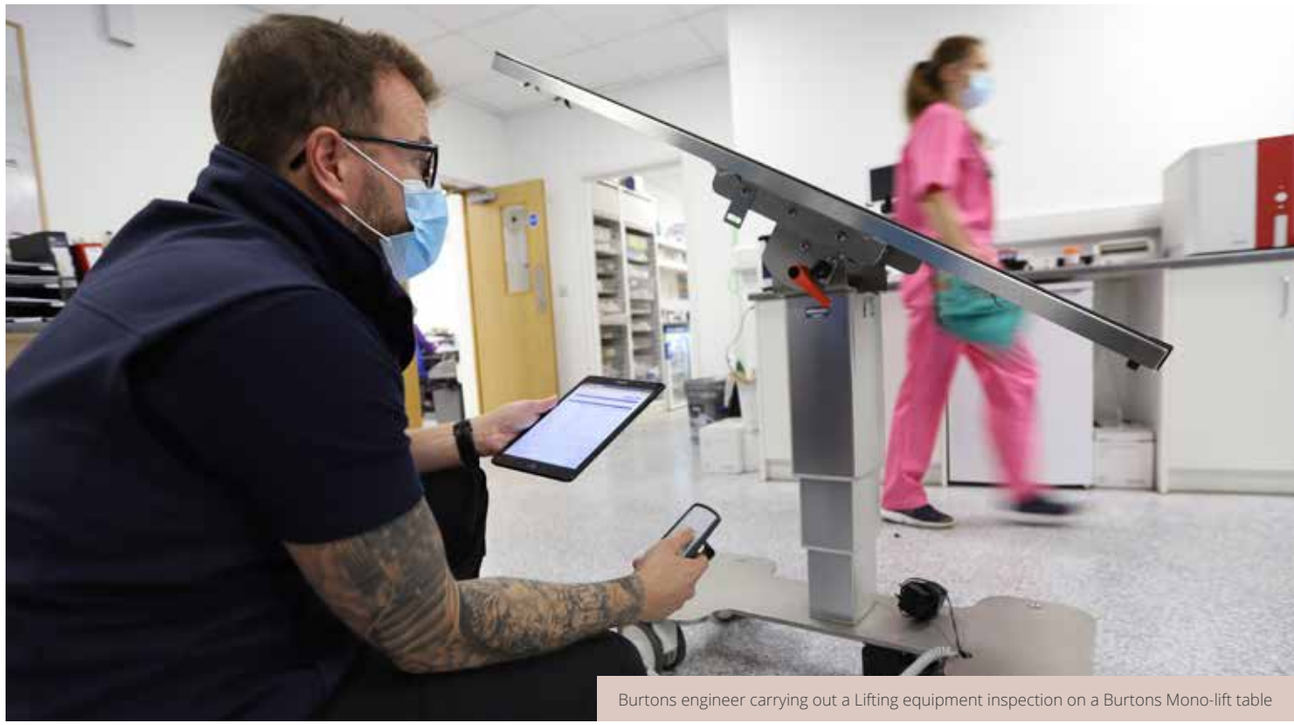
These gases can cause side effects, such as nausea, dizziness, headaches, fatigue and more - Good Health & Safety practice requires you to monitor and manage the safety of your staff by conducting occupational exposure monitoring to measure the RISK.
Scav - SAFE is an effective and convenient way to perform personal air sampling for many organic vapors, checking for any pollutants is vital to ensure the health and safety of you and your staff. So how does it work? Containing a simple charcoal sorbent wafer for easy collection. Simply order your badge kit, wear the clip-on badge as instructed in the manual provided, return the badge, and wait for your results.

'LOLER & PUWER'

LIFTING EQUIPMENT INSPECTIONS

'Lifting Operations and Lifting Equipment Regulations' and 'The Provision and Use of Work Equipment Regulations'.

If you are an employer or self-employed person providing lifting equipment for use at work, or you have control of the use of lifting equipment, then the LOLER Regulations will apply to you. As an employer you need to demonstrate that you have effective maintenance programmes in place to make sure any lifting equipment is maintained in a safe condition.



Burtons engineer carrying out a Lifting equipment inspection on a Burtons Mono-lift table

'LOLER' regulations require lifting equipment to be strong and stable enough for use and marked to indicate
the maximum safe working loads. They also check that they create minimal risks and are being used safely as intended. Each service will have a check list to ensure all mechanisms of the lifting device are functioning well, without defects. These factors need to be examined and inspected by experts.

'PUWER' These regulations relate to employers, and anyone using the lifting equipment, they are required to ensure that safe practice is in place, making sure every staff member is trained on how to use the equipment safely and carrying out risk assessments.
With a burtons service plan, you can ensure that all your lifting equipment is always compliant with the regulations and ensure that your staff are using it safely. Not only does this protect your staff members, but it also helps to extend the life of your equipment, ensuring any issues are caught early and addressed before it becomes faulty or dangerous to use.

These are just 3 examples of how a Burtons service plan can help to take extra weight off your shoulders and guide you in ensuring the safety of you and other staff members. It also gives us a chance to find faults before they become an issue, keeping any equipment downtime to an absolute minimum.

Pressure Systems Safety Regulations 2000

WRITTEN SCHEME OF EXAMINATION

Under the Pressure Systems Safety Regulations 2000, users and owners of pressure systems are required to demonstrate that they know the safe operating limits (principally pressure and temperature) of their systems, and that they are safe under those conditions. They need to ensure that a suitable written scheme of examination is in place before the system is operated. They also need to ensure that the system is actually examined in accordance with the written scheme of examination.

During your annual or bi-annual autoclave service our Burtons engineer, as a competent person, can review your current written scheme of examination to ensure all aspects of the pressure system and its components are free from defect or failure in order to prevent hazards or serious injury.

Contact the Burtons Service team to find out more on 01622 834350

or visit www.burtonsveterinary.com

Build your ideal anaesthesia machine online

Understandably, many people are wary of buying online, in case they don't get the after sales support that they require. At Burtons, you won't ever talk to a machine. You are guaranteed the same level of support with online orders as when you order over the phone.

That is why we have started to add even more options to our website, allowing you to build the right equipment for your practice. Our anasthesia product builders enable you to select everything from the frame type, to your gas options.

After your order has been placed, one of our sales team will be in contact to arrange delivery, setup, and comissioning of your machine. You will also be able to organise your service contract with us, ensuring the maximum length of life for your chosen machine.

Watch this space for more of these features popping up on our website over the next few months

burtonsveterinary.com

Choose your machine style

From our 'Anaesthesia machine' category

TOP TIP:
You can use the category filter to narrow dow n your search

Select oxygen preference

Choose to add a concentrator, or select the required pipeline leads for your existing system

TOP TIP:
The options will tell you which parts are required for a successful setup

Choose any add ons

Add your vaporiser & fitting kit, and any other add ons you require

TOP TIP:
The add ons will only be listed if they are compatible with your chosen machine

Add to basket

Add your selected bundle to your basket & choose to continue shopping or checkout

TOP TIP:
You can also add it to our 'quote' tool, allowing a member of staff to get back to you before you make a final decision

Checkout

Got everything you need? Continue to checkout and choose your payment type

TOP TIP:
You can choose to add it to your existing Burtons' account by adding a PO number

Delivery

Once your order is processed, we will organise setup and comissioning of your machine with you

TOP TIP:

This doesnt mean you are going it alone, we will be in touch once the order is

04

NEW PRODUCTS

Ventilators

Tafonius large animal ventilator range

Designed for the demanding veterinary environment, the Tafonius has no need for a driving gas supply and has an uninterruptable power supply, that is all your monitoring and ventilation in one machine, with no interruptions. Controlled via a large 15" touch-screen computer, the ventilator is easy to set up and control. There is reporting feedback on ventilation parameters, as well as fully configurable patient monitoring, giving you more control.

Additional features include PEEP, where the ventilator applies a pressure at the end of each breath to ensure that the alveoli are not prone to collapse, improving oxygenation. CPAP – continuous, positive airway pressure to overcome hypoxaemia, the insufficient oxygenation of arterial blood. Assist mode – helping get oxygen into a patient that is not taking in regular breaths and a buffer volume controller. Compact Tafonius Junior model also available

VSL-TAF-000A4630 | To find out more visit burtonsveterinary.com

Vetronic by BURTONS

A new range of Anaesthesia equipment designed by a vet, for vets. Now at Burtons.

Visit **burtonsveterinary.com** for more monitoring deals and packages

Vetronic SAV04 Small Animal Ventilator

Safe, simple, pressure cycled ventilation for small domestic animals up to 12kg in weight. The SAV04 incorporates a host of features for improved control of IPPV. The SAV04 is an enhanced version of the long-standing SAV03 ventilator and uses the same principles of simple, pressure-cycled ventilation.

In the redevelopment of the ventilator, features have been added to improve patient control and to improve ventilation status feedback. For example, there is now an automatic over-pressure alarm.

VSL-SAV04 | To find out more visit burtonsveterinary.com

Vetronic Merlin Ventilator

One ventilator for all your small animal practice needs, from small rodents to large dogs.

The Vetronic Merlin veterinary ventilator has been designed with just that in mind. Using the latest technology, Merlin can precisely control ventilation parameters to ensure your patient is as safe as can be during mechanical ventilation. Merlin doesn't require a compressed gas supply to operate, so is quiet and smooth.

VSL-MERLIN | To find out more visit burtonsveterinary.com

'Annequin' training model now available at Burtons, for in-house, realistic ventilation & Capnography training . **Find out more on page 26**

Multi Parameter Monitoring

Watch the **LIGHTNING** demo video online at: **burtonsveterinary.com**

Vetronic Lightning Monitor

The Lightning multi-parameter monitor is a fully featured, veterinary-specific monitor. The Lightning is simple to use and can be turned on and connected to the patient in seconds. It has been designed to fit the needs of small animal practitioners, large animal practitioners and research establishments alike. Module options include ECG, CO2 , Agent, Pulse- Oximetry, IBP, NIBP, Temperature, and optional wireless output.

VSL-LIGHTNING | To find out more visit burtonsveterinary.com

Mindray uMEC12 Multi-Parameter Monitor

The all-new uMEC12 Veterinary Monitor is a small, lightweight monitor that has many features packed into it, the perfect addition to any practice.

This neatly packaged monitor has a large 12.1inch high-resolution touchscreen, weighs less than 4kg (making it easily portable) and has up to 4 hours of continuous monitoring and 120 hours trend / 48 hours waveforms reviewing.

UMEC12VET | To find out more visit burtonsveterinary.com

Watch the **Umec12** demo video online at: **burtonsveterinary.com**

Mindray ePM12 Vet Modular Monitor

The ePM 12M Vet supports advanced parameters with excellent and accurate performance. CrozFusion™ technology gives a joint analysis of ECG and SPO2 signals, guaranteeing stable and accurate findings during periods of poor contact of electrical interference, reducing false arrythmia alarms. It supports the following advanced parameters: CO2, 4-IBP, C.O, AG, O2.

EPM12VET | To find out more visit burtonsveterinary.com

Capnography Monitoring

IMPACT III Monitor

Three units in one, with optional configuration

Impact-III is an acronym, standing for "Instant Monitoring of Pulse-Oximetry And Capnography and Temperature". As such, Impact-III delivers all that its name suggests: numerical and trace information is shown for all parameters, including capnography, within 15 seconds of turning the unit on.

VSL-IMPACT | To find out more visit burtonsveterinary.com

For more...
View our complete range of capnography monitors at **burtonsveterinary.com**

Blood Pressure Monitoring

Suntech Monitors

The portable SunTech® blood pressure monitors quickly and easily provides reliable blood pressure (BP) measurements on awake companion animals, ensuring a simpler assessment process for veterinarians and their staff members. Utilizing SunTech's trusted Advantage VET BP technology, the Vet20 quietly performs motion-tolerant, oscillemetric BP measurements, delivering accurate results. The intuitive touch screen interface includes all the necessary features for reviewing and analysing BP data.

VETBP20 - SPOT CHECK BP MONITOR

Systolic: 40 – 265 mmHg
Diastolic: 20 – 200 mmHg
Mean Arterial Pressure: 27 – 222 mmHg.
Heart Rate: 25 – 300 BPM

Available Colours:

VETBP25 - CONTINUOUS BP MONITOR

Systolic: 40 – 265 mmHg
Diastolic: 20 – 200 mmHg
Mean Arterial Pressure: 27 – 222 mmHg.
Heart Rate: 25 – 300 BPM

Available Colours:

VETBP30 - CONTINUOUS BP WITH PULSE OXIMETRY & TEMPERATURE

Systolic: 40 – 265 mmHg
Diastolic: 20 – 200 mmHg
Mean Arterial Pressure: 27 – 222 mmHg.
Heart Rate: 25 – 300 BPM
Sp02 Range: 0-100%
Pulse Rate Range: 0-239 BPM
Temp. Range: 0°C to 50°C

Available Colours:

SUN-VET20/25/30 | To find out more visit burtonsveterinary.com

PetMAP Graphic 3

The PetMAP graphic range has been specially developed for veterinary use, compact and lightweight it offers PPO technology, which allows the measurement of diastolic blood pressure, mean arterial pressure (MAP) & heart rate. The measured values are displayed and trended graphically and numerically on the device.

129-560-G-3 | To find out more visit burtonsveterinary.com

For more...
Search our choice of accessories at **burtonsveterinary.com**

Temperature Monitoring

Vetronic MiniTemp Monitor

A small, handheld battery-operated temperature monitor, designed specifically for use with animals. This simple to use monitor is compatible with the industry standard 400 series of temperature sensors. We a lso supply a range of miniature sensors for the MiniTemp so the unit can be used with species ranging from mice to elephants.

VSL-MINITEMP | To find out more visit burtonsveterinary.com

For more...
Find temperature monitors in our range here:
burtonsveterinary.com

Infusion Pumps

Watch the **EN-V5** demo video online at: **burtonsveterinary.com**

Burtons EN-V5 Infusion Pump

The Burtons EN-V5 veterinary smart infusion pump is easy to use, compact and portable. Its 4.3-inch touch screen makes for simple operation. The exclusive Burtons edition kit comes with a pole mount, cage mount bracket and 'L' shaped power lead as standard - The perfect set up for practices. It also allows storage of multiple giving set calibrations.

EN-V5 | To find out more visit burtonsveterinary.com

Cage mount bracket

Pole mount bracket

More from our infusion range

For more...
For the latest infusion packages and offers go to
burtonsveterinary.com

BURTONS IVY INFUSION PUMP

The IVY vet infusion pump from Burtons is the perfect addition to your practice. Its large, easy to your interface allows for simple set up and monitoring.

129-400 | To find out more visit burtonsveterinary.com

BURTONS SUPER STRENGTH GIVING

Our improved giving set is now even more versatile and stronger! We've added an anti-kink section nearest the patient to further prevent occlusions and a new 'C' Clip flow shut off clamp to temporarily shut off the flow.

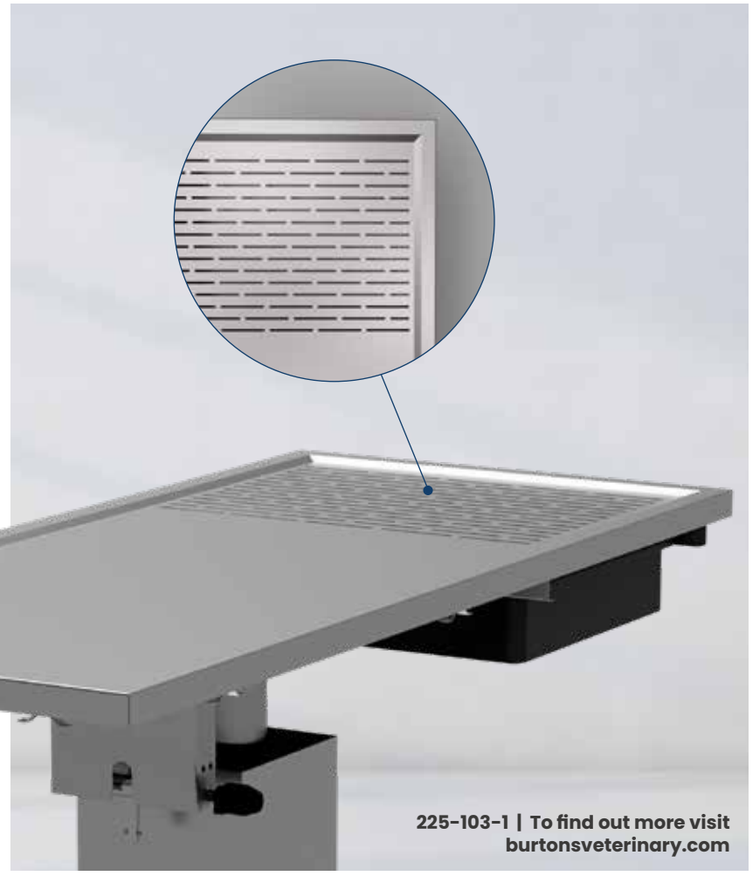
129-015 | To find out more visit burtonsveterinary.com

Tables

Dental Top

Perfectly designed for any dental procedure, the high quality, stainless steel top is intelligently shaped to ensure any excess water runs into the built in grill. Designed at a standard top size allowing for the dental top to be fitted to a range of Burtons table bases and also providing ample procedure space.

NEW DESIGN



225-103-1 | To find out more visit burtonsveterinary.com

Table bases

Adjusting the patient height to suit your needs is easy with either the hydraulic lift or electric lift options. Secure, quick release position locking levers enable you to alter the table top height and angle from horizontal to almost vertical and even rotate the top through 360° (Not available on electric lift option).

The table base is fitted with integrated 'wheel barrow' style wheels for superb stability, whilst allowing easy manoeuvering whilst cleaning. Simply select the top you need.

Hydraulic Operating table base

225-099 | To find out more visit burtonsveterinary.com

Electric Operating table base

225-094 | To find out more visit burtonsveterinary.com

Warming Blankets

Hotdog Veterinary Warming System

Keep your patients normothermic with the latest warming technology. The HotDog veterinary warming systems are unlike no other, using electrically conductive fabric for even heat distribution. It reduces hot spots, eradicates air blowing around the surgical site and doesnt cause any noise pollution.

119-090 | To find out more visit burtonsveterinary.com

For more...
Details on the Hot Dog and similar products are on our website:
burtonsveterinary.com

HOTDOG WARMING BLANKETS - VARIOUS SIZES

High quality, extra safe and easy clean veterinary warming blankets with patented ThermAssure fabric for use with the Hotdog Warming System! Choose from a large range of reusable mats and single or dual port controllers options.

119-08*config | To find out more visit burtonsveterinary.com

Lighting

Acem St Examination Led Ceiling Light

Multi-functional and versatile LED light. Suitable for consultations, diagnostics & minor precision operations.

The ACEMST1 boasts all the advantages of LED technology, as well as having a smooth easy-to-clean surface, easy flexibility with a wide rotation and movement range, and it's double balancing system assures stability and accuracy for the whole time of use once positioned

ACEM-ST1 | To find out more visit burtonsveterinary.com

For more...
A variety of lighting can be found on our website, **burtonsveterinary.com**

Electrosurgery

MB160 MADE FOR LAPAROSCOPY

Gima Diatermo MB 160/MB 120 Mono-bipolar Electrosurgery Unit

A HF electrosurgical unit for performing middle monopolar or bipolar electrosurgery. Leading technology enables highly professional surgery intervention thanks to safety features derived from high power theatre apparatus. The modes of operation provided are pure cut, coagulated cut, forced coagulation, soft coagulation, soft coagulations and, with forceps, bipolar coagulation.

GIMA-MB120D | GIMA-MB160D | To find out more visit burtonsveterinary.com

GIMA SMOKE EVACUATOR

The smoke generated during the surgical procedures, have a bad, strong and persistent smell. So a good aspiration and filtration evacuator eliminates bad smells, reduces the bacteriological and/or viral risks, and improves vision of the zone of the operation area during the laparoscopic procedures.

GIMA-30450 | To find out more visit burtonsveterinary.com

Burtons Endoscopy

Videoscopes & Processors

For a complete setup that allows you to export your findings to a video monitor or laptop, choose from 2 x Burtons HD video processors, and 5 of our Burtons videoscopes. Available as a full HD DICOM solution, when purchased with VETIT Pro Software.

- **END-KW3560 - Burtons HD Videoscope 3.5mmOD x 600mmWL**
- **END-KW6010 - Burtons HD Videoscope 6.0mmOD x 1000mmWL**
- **END-KW8515 - Burtons HD Videoscope 8.5mmOD x 1500mmWL**
- **END-KW9215 - Burtons HD Videoscope 9.2mmOD x 1500mmWL**

BURTONS HD VIDEO PROCESSOR & LED LIGHT SOURCE SUPPLIED WITH RIGID CAMERA AND VIDEO LENS

BURTONS HD VIDEO PROCESSOR & LED LIGHT SOURCE WITH USB IMAGE CAPTURE

For more...
Full range of endoscopy equipment available at **burtonsveterinary.com**

Dental x-ray

SOPIX® and SOPIX²®

SOPIX® and SOPIX²® digital dental X-ray sensors, are easy to use and offer an outstanding image quality.Developed to meet every practice's needs, they propose a solution adapted to every budget

Key Features:

FIBRE2PIXEL Technology Improved differentiation of the dental tissue – SOPIX sensors surpass the limits of radiological examinations by offering greater differentiation of dental tissue, achieved by FIBER2PIXEL. This new technology uses broad spectrum optical microfibers for the guided transmission of photo emissions in order to provide highly contrasted images.

XR-EXACSOPIX | To find out more visit burtonsveterinary.com

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About our radiography support plans
on page 34

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Full range of x-ray equipment available at **burtonsveterinary.com**

PSPIX2 Compact dental imaging plate scanner

ACTEON® presents the PSPIX²®, the first dental imaging plate with convenience. With its revolutionary size, design and user-friendliness, the PSPIX²® is impressive & appealing.

The advanced technology used inside this dental scanner marks a turning point in terms of excellence. The new PSPIX²® is as much as three times smaller than other dental imaging plate scanners, making it the most compact system on the market.

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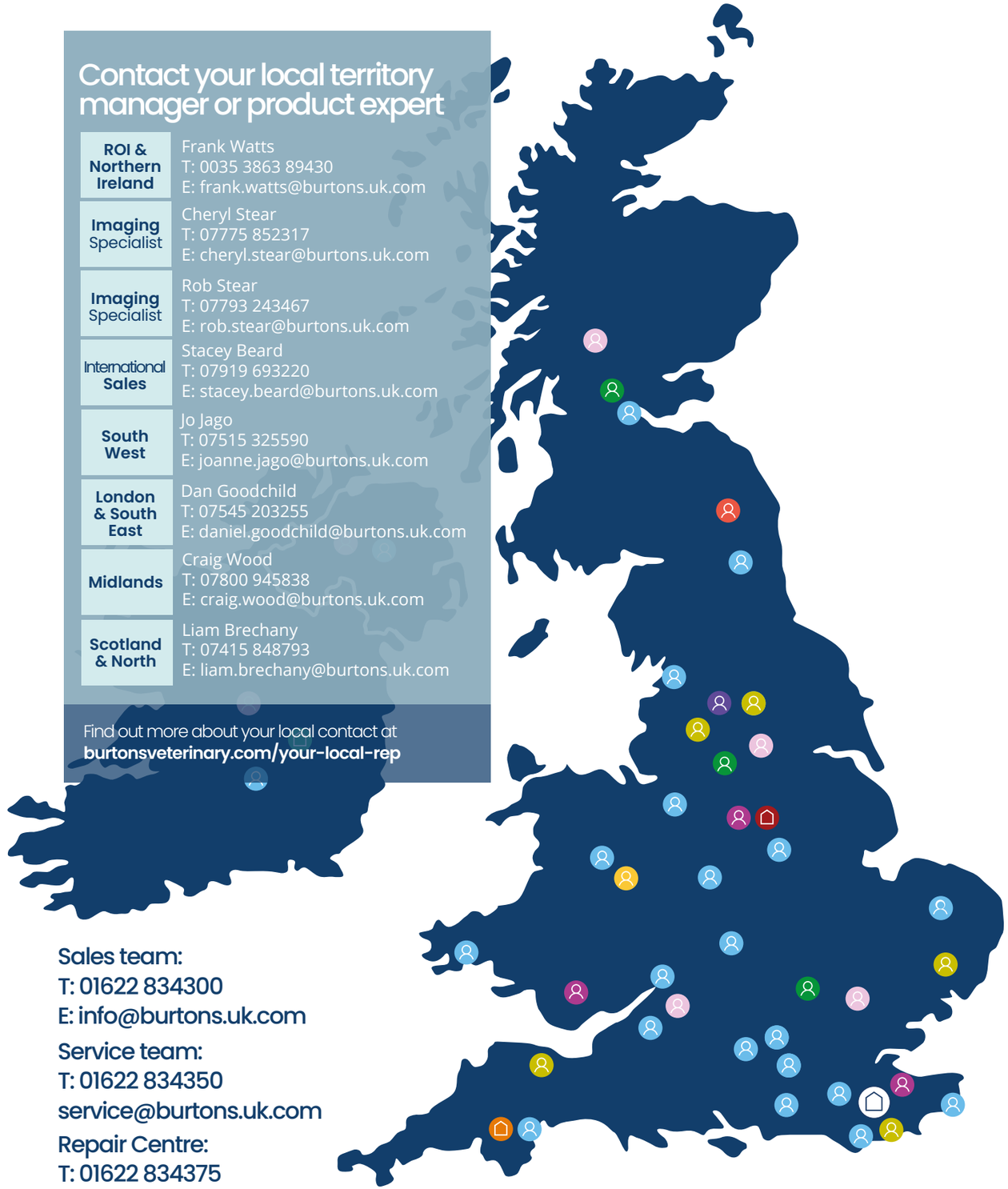

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