QUANTURA

DISHWASH DOSING SYSTEMS
BRIGHTWELL DISPENSERS’ NEW RANGE OF DISHWASH DOSING SYSTEMS

Reliable and efficient chemical dosing systems ensure that commercial dishwashers maintain optimal performance. Based on years of industry experience, technical expertise and customer feedback, Brightwell Dispensers have developed a new innovative dishwash dosing range that can be used for a wide variety of commercial dishwashers including glass, under-the-counter, single-tank and tunnel/conveyor dishwashers.

Quantura Dishwash Dosing Systems

• A leap forward in compact technology
• Contemporary, innovative, high-tech designs to meet the demands of today’s commercial dishwashing environments
• Packed with premium features, flexible solutions and competitively priced to suit every budget
• High quality, reliable system design
• Easy installation and operation

Brightwell Dispensers has been a global designer and manufacturer of innovative soap, paper and chemical dispensers and dosing systems since 1947. As a leading exporter to over 85 countries across the globe, we work with a strong network of dedicated distributors who serve specific regions worldwide.

COMMERCIAL SOLUTIONS

We are dedicated to providing our customers with the best possible solution for their specific requirements. Our experienced team is happy to assist you with your business requirements.

Please call us on: +44 (0) 1273 513566 or contact your local representative.
RANGE OVERVIEW

Brightwell Dispensers’ new range of dishwasher dosing systems provides precise and consistent dosing solutions for a wide variety of commercial dishwasher applications including glass, under-the-counter, single-tank and tunnel/conveyor dishwashers.

The range incorporates:

- **Quantura 10**: A competitively priced single dishwasher peristaltic pump for dosing one dishwasher chemical into glass or under-the-counter dishwashers
- **Quantura 200**: A two chemical peristaltic pump system for dosing dishwasher detergent and rinse aid
- **Quantura 300**: A three chemical peristaltic pump system for dosing dishwasher detergent, rinse aid and sanitizer
- **Quantura 200S**: A two chemical system with a solenoid valve for dosing powder detergent and a peristaltic pump for dosing rinse aid
- **Quantura 300S**: A three chemical dosing system with a solenoid valve for dosing powder detergent and peristaltic pumps for dosing rinse aid and sanitizer
RANGE OVERVIEW

EASY INSTALLATION
- Comprehensive online documentation
- Quick-start guide with every unit
- Pre-wired to speed up installation time
- Wall bracket mounting with integrated spirit level

MAINTENANCE
- Hygienic, easy-to-clean front cover
- Quick-access pump cover
- Front mounted pumps for easy changing of peristaltic tubes

ADVANCED TECHNOLOGY
- Micro-processor controlled dosing technology for consistent and accurate dosing
- Intuitive programming interface with a wide range of configuration options
- Water resistant, durable polypropylene enclosure
- IP55 rated
- Designed and tested for hard-working industrial environments

ATTRACTION MODERN DESIGN
- Professional, modern design
- Robust construction and no hard edges

WE ALSO OFFER:

SPECIAL PULSING TECHNOLOGY
- Achieves super low flow rates for dishwash chemical injection

PROBE TECHNOLOGY
- Conductive, three pin probe
- Temperature compensated for increased accuracy
- Pin corrosion-reducing technology

CUSTOMER BRANDING
- We offer our customers the option to brand our products with their own company’s name*

CHEMICAL COMPATIBILITY TESTING
- All Brightwell Dispensers’ dishwash dosing systems undergo comprehensive chemical compatibility testing using the latest, typical dishwash chemicals
- For customers who would like to test specific chemicals we offer our free chemical testing to ensure that specific chemicals are compatible with the chosen dispenser*

* Minimum order quantities apply
The Quantura 10 is Brightwell Dispensers’ new, competitively priced, single peristaltic pump system. Intended for dosing one dishwash chemical into glass or under-the-counter dishwashers. The unit can be used for detergent, rinse-aid or sanitiser.

Easy installation and configuration together with reliable tube fittings, make this system the ideal dosing solution.

**FOUR DISTINCT OPERATING VARIANTS ARE AVAILABLE:**

- **Timed** – Configurable initial & top-up charge durations
- **Speed** – Configurable pump speed & cycle time
- **Probe (conductivity)** – Continuous measurement of the chemical concentration and automatic top-up of chemical when needed
- **Remote Dose** – Manually operated, remote top-up button

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**SPECIFICATIONS: QUANTURA 10, QUANTURA 10+**

<table>
<thead>
<tr>
<th>Power</th>
<th>100 – 240VAC, 50/60Hz, Class II</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Rates*</td>
<td>Detergent flow rate: 10ml/min to 130ml/min</td>
</tr>
<tr>
<td></td>
<td>Rinse Aid flow rate: 3ml/min to 70ml/min</td>
</tr>
<tr>
<td></td>
<td>Sanitiser flow rate: 5ml/min to 130ml/min</td>
</tr>
<tr>
<td>Operating Pressures</td>
<td>Detergent: 1 bar</td>
</tr>
<tr>
<td></td>
<td>Rinse Aid: Up to 3 bar</td>
</tr>
<tr>
<td></td>
<td>Sanitiser: 1 bar</td>
</tr>
<tr>
<td>Operating Modes</td>
<td>Quantura 10: Time Mode, Speed Mode</td>
</tr>
<tr>
<td></td>
<td>Quantura 10+: Time Mode, Speed Mode, Probe Mode, Remote Dose</td>
</tr>
<tr>
<td>Probe</td>
<td>Temperature compensated conductive probe available for Quantura 10+</td>
</tr>
<tr>
<td>Control Circuitry</td>
<td>Microchip Microprocessor</td>
</tr>
<tr>
<td>Squeeze Tube Fittings</td>
<td>Standard: Compression fittings; alternative fittings are available on request (minimum order quantities apply)</td>
</tr>
<tr>
<td>Motor</td>
<td>Brushed 24VDC</td>
</tr>
<tr>
<td>Product Standards</td>
<td>CE and CSA approved (pending)</td>
</tr>
<tr>
<td>Dimensions &amp; Weight</td>
<td>Height: 95 mm; Width: 89mm; Depth: 100mm; Weight: 0.5 kg</td>
</tr>
<tr>
<td>IP Rating</td>
<td>IP55</td>
</tr>
<tr>
<td>Warranty</td>
<td>1 year</td>
</tr>
</tbody>
</table>

* Flow rates are subject to environmental conditions
SINGLE CHEMICAL PERISTALTIC PUMP

**QUANTURA 10**
Two operating modes
- Operating Modes: Time & Speed
- Single chemical peristaltic pump
- Intended for pumping of detergent, rinse aid or sanitiser

**QUANTURA 10+**
Four operating modes
- Operating Modes: Time, Speed, Probe and Remote Dose
- Single chemical peristaltic pump
- Intended for pumping of detergent, rinse aid or sanitiser

**KEY FEATURES**

**DESIGN**
- Professional, modern design
- Compact size

**TECHNOLOGY**
- Special Pulsing Technology to achieve super low flow rates
- Water resistant, durable polypropylene enclosure
- High performance polymers offering durability, impact resistance and safety
- Optional conductive probe attachment

**PROGRAMMING**
- Intuitive and easy-to-use interface
- Quick configuration and set-up

**INSTALLATION & MAINTENANCE**
- Every pump is pre-wired to reduce installation time
- Wall bracket mounting with integrated spirit level
- Easy clean, hygienic, robust front cover
- Peristaltic tube compression fittings as standard

**INSTALLATION COMPONENTS**

- Suction/delivery tubing
- Detergent injector
- Rinse aid injector (with integral non-return valve)
- Peristaltic tubing
- Weight and filter
- Fixings pack

**ACCESSORIES**

- Conductive probe
- Remote Dose

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The Quantura 200 is Brightwell Dispensers’ new peristaltic pump dosing system for dosing dishwash detergent and rinse aid into a wide variety of commercial dishwashers including conveyor/flight, hood and door type dishwashing machines.

This system also provides the option to incorporate an additional, third peristaltic pump for dosing sanitiser.

**QUANTURA 200:**
- Easy installation and set-up
- One system for Probe Mode, Probeless Hood Mode, Probeless Tunnel Mode
- High-quality brushless DC motors
- Pump status lights and on/off indication light
- Super low flow rates
- Full text LCD in nine different languages
- Secure Access Code Option

### SPECIFICATIONS: QUANTURA 200, QUANTURA 200S, QUANTURA 300, QUANTURA 300S

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
<td>100 – 240VAC, 50/60Hz, Class II, Maximum power consumption: 50W</td>
</tr>
</tbody>
</table>
| **Flow Rates**                               | Detergent flow rate: 15ml/min to 260 ml/min
Rinse aid flow rate: 1.5ml/min to 30ml/min
Sanitiser flow rate: 6ml/min to 160ml/min |
| **Operating Pressures**                      | Detergent: 1 bar
Rinse Aid: Up to 3 bar
Sanitiser: 1 bar |
| **Trigger Signals**                          | 24V to 240V (AC or DC), opto-isolated                                   |
| **Operating Modes**                          | Probe Mode, Probeless Hood Mode, Probeless Tunnel Mode                   |
| **Probe**                                    | Temperature compensated conductive probe                               |
| **Control Circuitry**                        | ST Micro ARM Cortex-M3 CPU microprocessor controlled
Security access codes
On-board software can be upgraded in the field |
| **Squeeze Tube Fittings**                    | Standard: Compression fittings; Alternative fittings are available on request (minimum order quantities apply) |
| **Motor**                                    | Brushless 24V DC                                                       |
| **Product Standards**                        | CE and CSA approved (pending)                                          |
| **Dimensions & Weight**                      | Height: 200mm; Width: 184mm; Depth: 115mm; Weight: 1.2 kg (for Quantura 200 & 200S) |
| **Warranty**                                 | 2 years                                                                |
| **IP Rating**                                | IP55                                                                   |
| **External Buzzer**                          | 24V output for external buzzer/light                                   |
| **Multilingual Interface**                   | Czech, Dutch, English, French, German, Italian, Polish, Spanish, Portuguese |

*Flow rates are subject to environmental conditions*
**QUANTURA 200**
Two chemicals system
- Dose two products into a wide range of commercial dishwashers
- Two peristaltic pump system
- Wide range of flow rates
- Operating Modes: Probe Mode, Probeless Hood Mode, Probeless Tunnel Mode

**QUANTURA 300**
Three chemicals system*
- A three chemical peristaltic pump system, consisting of Quantura 200 and an additional, third peristaltic pump for dosing sanitiser
- Modern styling and high quality robust components

* Third pump only works in conjunction with Quantura 200

**KEY FEATURES**

**DESIGN**
- Professional, modern design
- Modular design allows an easy conversion from a two to a three pump system

**TECHNOLOGY**
- High-efficiency brushless DC motors
- Special Pulsing Technology to achieve super low flow rates
- One single quick release cover to provide access to pump heads
- Water resistant, durable polypropylene enclosure
- High performance polymers offering durability, impact resistance and safety
- Optional conductive probe attachment

**PROGRAMMING**
- Easy-to-use, intuitive programming
- Micro-processor controlled dosing
- Pump status lights to show operational states such as pump running and maintenance requirements
- Easy-to-read, full text, modern LCD
- Access codes for security
- De-lime capability

**INSTALLATION & MAINTENANCE**
- Easy-to-clean, hygienic, robust front cover with water-tight, durable rubber buttons
- Pre-wired to speed up installation time
- Wall bracket mounting with integrated spirit level
- Detailed manual and drilling template

**INSTALLATION COMPONENTS**
- Suction/delivery tubing
- Detergent injector
- Rinse aid injector (with integral non-return valve)
- Peristaltic tubing
- Tube stiffener
- Fixings pack

**ACCESSORIES**
- Conductive probe

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It appears there is a section on QUANTURA 300 which is marked as a “three chemicals system” and another section for QUANTURA 200 which is described as a “two chemicals system.” The QUANTURA 300 system is noted as having an additional, third peristaltic pump for dosing sanitiser, and it works in conjunction with the QUANTURA 200 system. The QUANTURA 200 system is described as having two peristaltic pump systems, which allows for a wider range of flow rates. Both systems are designed for professional, modern use and are easy to install and maintain.
Providing the same features and specification as our Quantura 200 System, the Quantura 200S dosing system is for customers who use a solid powder fed system. Quantura 200S is suitable for dosing two products into a wide range of commercial dishwashers including conveyor/flight, hood and door type dishwashing machines.

In place of the peristaltic detergent pump, the Quantura 200S has an electrically operated solenoid valve that works in conjunction with a powder bowl system. The integrated second peristaltic pump ensures the accurate and consistent dosing of rinse aid.

**QUANTURA 200S:**
- Easy installation and set-up
- One system for Probe Mode, Probeless Hood Mode, Probeless Tunnel Mode
- High-quality brushless DC motors
- Pump status lights and on/off indication light
- Super low flow rates
- Full text LCD in nine different languages
- Secure Access Code Option

**QUANTURA 300S:**
A three chemical peristaltic pump system, consisting of Quantura 200S and an additional third peristaltic pump for dosing sanitiser

**SPECIFICATION FOR QUANTURA 200S AND QUANTURA 300S:**
Please refer to the table on page 8

**COMMERCIAL DISHWASHER APPLICATIONS EXAMPLE 1**
Tunnel/Conveyor Commercial Dishwasher
ACCESSORIES

CONDUCTIVE PROBE
Monitor and control the detergent level in the dishwasher with Brightwell Dispensers’ new temperature compensated conductive probe. The conductive probe consists of electrodes which are in direct contact with the detergent solution. The conductivity measured between the electrodes is directly proportional to the detergent concentration of the solution, allowing automatic control of accurate detergent dosing.

PERISTALTIC TUBES
Peristaltic pump tubes are critical to the performance of a dosing system. Using their extensive, on-site experience, Brightwell Dispensers has worked closely with customers to provide the best solution. The variety of tubes supplied with Brightwell Dispensers’ dishwasher dosing pumps guarantee that the units will work at different flow rates with different types of chemicals.

BrightChem Tube: Brightwell Dispensers’ proprietary co-extruded double strength tube is super resistant. The special inner lining ensures that the tube stays robust throughout its life-cycle.

Silicone Tube: A robust tube that provides the highest flow rates and is compatible with most standard detergents.

CONNECTORS
We also offer a selection of tube connectors to suit a wide range of installations.

- Compression fit connectors (as standard)
- Barbed fit connectors
- Quick connectors
## QUANTURA RANGE OVERVIEW

<table>
<thead>
<tr>
<th>Quantura Range</th>
<th>Number of chemicals</th>
<th>Flow rates ml/min</th>
<th>Power</th>
<th>Modes</th>
<th>Signals</th>
<th>IP Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Detergent</td>
<td>Rinse Aid</td>
<td>Sanitiser</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantura 10</td>
<td>1</td>
<td>10 – 130</td>
<td>3 – 70</td>
<td>5 – 130</td>
<td>Time Mode and Speed Mode</td>
<td>IP55</td>
</tr>
<tr>
<td>Quantura 10+</td>
<td>1</td>
<td>10 – 130</td>
<td>3 – 70</td>
<td>5 – 130</td>
<td>Time Mode, Speed Mode, Probe Mode, Remote Dose</td>
<td></td>
</tr>
<tr>
<td>Quantura 200</td>
<td>2</td>
<td>15 – 260</td>
<td>1.5 – 30</td>
<td>n/a</td>
<td>Probe Mode, Probeless Hood Mode, Probeless Tunnel Mode</td>
<td></td>
</tr>
<tr>
<td>Quantura 200S</td>
<td>2</td>
<td>n/a</td>
<td>1.5 – 30</td>
<td>n/a</td>
<td>24V to 240V (AC or DC), opto-isolated</td>
<td>IP55</td>
</tr>
<tr>
<td>Quantura 300</td>
<td>3</td>
<td>15 – 260</td>
<td>1.5 – 30</td>
<td>6 – 160</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantura 300S</td>
<td>3</td>
<td>n/a</td>
<td>1.5 – 30</td>
<td>6 – 160</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**PRODUCT STANDARDS**

Independently third party tested and verified. Products are designed and manufactured in line with CE European, UL and CSA standards.

All information stated in this brochure is correct at time of printing and subject to change without notice.