

# DDC

## Pulpmatic<sup>®</sup> Macerators

Smarter. Safer. Healthcare.



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# What Is A Pulp Macerator?

Pulp macerators are machines which pulverise and dispose of single-use medical pulp containers and human waste.

The technology of choice for thousands of healthcare facilities around the world, a macerator is a fast and easy to use human waste disposal solution, providing safe and efficient alternative to washing bedpans by hand, or using a washer disinfectant.

Macerators are opened and closed using contactless technology. This allows a pulp container – along with its contents – to be placed inside the machine without the need to wash or dispose of items elsewhere. Once the lid is closed, the maceration cycle will be complete in as little as 65 seconds – giving your staff more time to care for your patients or care home residents.

During the maceration process, the pulp container and its contents are quickly and effectively pulverised into a watery slurry, using high speed rotating blades. The slurry is discharged into the main sewage system, similar to a conventional toilet.



## Key Benefits

- Reduce cross-contamination of infectious materials and minimise the risk of HCAI outbreaks. NHS England's 2011 survey on healthcare-associated infections and antimicrobial use estimated that 300,000 patients a year in England acquire a healthcare-associated infection because of care within the NHS.<sup>1</sup>
- Reduce your facility's budget spend with low operating costs (a macerator can use as little as 9.5 litres of water per cycle) and prevention of facility shutdowns due to infections. In 2016/2017, HCAs were estimated to have cost the NHS an estimated £2.1 billion.<sup>2</sup>
- Save clinicians' time and increase productivity by removing the need for cleaning reusable items. The DDC Pulpmatic® Uno has a cycle time of just 65 seconds – 88% quicker than the 9-minute cycle time of the average bedpan washer.<sup>3</sup>

<sup>1</sup> Infection prevention and control, NICE, <https://www.nice.org.uk/guidance/qs61/chapter/introduction>

<sup>2</sup> 'Modelling the annual NHS costs and outcomes attributable to healthcare-associated infections in England', Julian F Guest, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7045184/>

<sup>3</sup> p.762, S. Hatt et al. / American Journal of Infection Control 48 (2020) 761–764, 'Washer disinfectant and alkaline detergent efficacy against C. difficile on plastic bedpans'



# What Makes Us **The Market Leader?**

With over 30 years of experience, **DDC** specialises in manufacturing and supplying sluice/dirty utility room equipment, including bedpan washer disinfectors, medical pulp macerators, and infection control solutions for healthcare facilities worldwide.



Guided by our vision, “Protecting Lives Through **Smarter, Safer Healthcare**” we serve six continents, 50 countries, and over 5,000 sites. We offer the UK’s most advanced service and maintenance solutions, supported internationally by factory-trained partners.

Our expanding range of infection control products complement and enhance your existing strategies.

From advanced pulp macerators to UV air, surface, and water purification systems, our solutions are designed to help your facility excel. We actively listen to our users, developing practical innovations that deliver tangible results.

Whatever your healthcare setting, **DDC** drives positive change for clinical teams, infection control experts, facilities staff, and financial controllers alike.





# DDC's PULPMATIC® Macerators: Setting the Standard in Infection Control

DDC's Pulpmatic® macerators are the foundation of infection control strategies in thousands of facilities worldwide. Our three market-leading models are designed to meet the diverse needs of the healthcare sector.

## Key Features Include:

### **Eco-Friendly & Hygienic:**

Environmentally friendly, economical, and hygienic macerator technology.

### **Large Capacity:**

Dispose of up to six items per cycle.

### **Fast Cycles:**

Quick maceration cycles starting from just 55 seconds.

### **Antimicrobial Protection:**

Polymer surfaces infused with antimicrobial additives to prevent bacterial growth.

### **Low Water Usage:**

Uses as little as 9.5 litres per cycle.

### **Contactless Operation:**

Fully contactless functionality minimises cross-contamination risks.

### **Advanced Waste Management:**

Continuous free-flowing output to drain with open-flow maceration technology.

### **Durable Build:**

Constructed with high-quality materials, including high-grade stainless steel.

### **Automatic Drain Flush:**

Programmable during low-use times to prevent stagnant water and reduce the risk of Legionella.

### **Flexible Start Options:**

Choose from self-start or auto start modes to suit your facility's requirements.

### **Quiet Operation:**

Advanced materials reduce noise for quieter performance.

### **Audio Guidance:**

Voice prompts available in any language, reducing training needs and staff errors.

With PULPMATIC® macerators, you can rely on superior performance, reliability, and infection control in one streamlined solution.

# Insight Into The PULPMATIC® Range

## PULPMATIC® FLEX

The Pulpmatic® Flex is engineered to lower carbon emissions and deliver long-term cost savings for healthcare facilities. It is capable of disposing of up to 6 pulp items per cycle.

When powered by patented ClearSense®† technology, it uses the optimum amount of water and energy for every cycle - minimising utility consumption while maintaining consistently high performance.

The Pulpmatic® Flex from DDC delivers intelligent performance and precise engineering for healthcare settings where hygiene and reliability are vital. It also helps reduce energy, water and operating costs.



### Benefits



When powered by ClearSense®† it uses 63% less water\*, being our most economical machine.



When powered by ClearSense®† it is 50% faster\* saving clinicians' time and increase productivity.



When powered by ClearSense®† it uses 73% less energy supporting sustainability and NET Zero objectives.



Contactless operation with automatic lid closure helps staff load items safely and quickly, reducing touchpoints.

ClearSense® by DDC†, an exclusive feature of the Pulpmatic® Flex, is a patented intelligent monitoring system that optimises maceration. It detects when pulp is fully processed, allowing the machine to use the optimal amount of electricity and water to complete the cycle. This results in measurable savings.

With sustainable performance, the Pulpmatic® Flex runs up to 50% faster and uses 63% less water and 73% less energy than other macerators\*, helping healthcare providers save resources, reduce costs, and meet Net Zero targets.

Built for infection control, the Pulpmatic® Flex features contactless operation, chemical disinfection system and antimicrobial surfaces proven to reduce bacterial growth by 99.99% - providing safer care for your staff and patients.

# PULPMATIC® ULTIMA

The Pulpmatic® Ultima is our largest capacity bedpan macerator, suitable for busy hospital wards and care homes, capable of disposing of up to 6 pulp items per cycle.

The unique nine bladed macerator technology allows for a rapid disposal cycle of just 120 seconds, without compromising on efficiency, water usage or noise levels.



## Benefits



Reduce cross contamination of infectious materials and minimise the risk of ward outbreaks, keeping staff and patients safe.



Save clinicians' time and increase productivity by reducing the need for cleaning of reusable items.



Economical, using little water and energy to operate.



Reduce hospital budget spend with low operating costs and prevention of ward shut-downs due to infections.

# PULPMATIC® UNO

The Pulpmatic® Uno is our low-use bedpan macerator for smaller hospital wards and care home environments. Capable of processing 1-2 pulp items per cycle, it provides a quieter, economical solution where maceration is a requirement, but demand is minimal.

The Uno's seven blade macerator disc provides rapid, low-noise maceration for minimal disruption to a small ward setting, with a cycle lasting just 65 seconds.



## Benefits



Reduce cross contamination of infectious materials and minimise the risk of ward outbreaks, keeping staff and patients safe.



Save clinicians' time and increase productivity by reducing the need for cleaning of reusable items.



Exceptionally economical, using little water and energy to operate.



Reduce hospital budget spend with low operating costs and prevention of ward shut-downs due to infections.



Versatile unit for low demand areas, be it a ICU or a private patient room.

# Which PULPMATIC® Is Best For Your Facility?

	 DDC PULPMATIC® FLEX	 DDC PULPMATIC® UNO	 DDC PULPMATIC® ULTIMA
<b>Capacity</b>	Up to 6 items†	Up to 2 items	Up to 6 items
<b>Weight</b>	70kg	63.5kg	84.5kg
<b>Dimensions (W x D x H)</b>	450 x 605 x 1035 mm	400 x 510 x 975 mm	500 x 600 x 1040 mm
<b>Antimicrobial Surfaces</b>	Biomaster Certified	Biomaster Included	Biomaster Included
<b>Cycle Selection</b>	Programmable Cycles	Single Cycle	Single Cycle
<b>Cycle Monitoring Technology</b>	ClearSense®	Not Available	Not Available
<b>Water consumption per cycle</b>	From 10l	From 9.5l	From 26.7l
<b>Cycle time</b>	From 55 sec	From 65 sec	From 120 sec
<b>Electrical consumption per cycle</b>	From 0.007	0.01 kWh	0.027 kWh
<b>Local Language Audio Guidance</b>	Yes	Yes	Yes
<b>Overflow System</b>	Internal	External	External
<b>Maceration Technology</b>	Active Drain Protection	Active Drain Protection	Active Drain Protection
<b>Chemical System</b>	Internal or External	External	External
<b>Chemical System</b>	Internal or External	External	External

\*Industrial microbiological services limited †Size dependant

PULPMATIC® macerator technology is unlike any other brand on the market. Let's take a closer look...



# Infection Control Strengths

## Easy Clean Surfaces and Antimicrobial Additives

Surfaces on our machines contain an antimicrobial additive.

When a microbe lands on a surface which is impregnated with antimicrobial additives, the microbe is destroyed or damaged, rendering it unable to reproduce. Its use can therefore reduce the spread of HCAs by eliminating cross-contamination routes. This is particularly effective in the sluice room environment, where both clean and dirty items are handled.

The antimicrobial additive is tested to ISO 22196: 2011 standards, demonstrating fast inhibition or elimination of bacteria up to 99.99%. Better yet, this protection will remain active for the expected service life of the machine.

The result? Reliable reduction of the number of bacteria within the medical environment, allowing you to ensure more effective protection against the spread of infection.



## Smart Chemical Use

We all know that strong chemicals can kill bacteria – however, when and how you use them is often what makes the critical difference to your infection control strategy.

All Pulpmatic® macerators feature variable chemical dosing modes, allowing you to choose the most economical and effective way to use your macerator chemicals, including increased dosing when an outbreak of infection occurs.

In addition, the Pulpmatic® Flex features status updates when the chemical is running low, allowing you to ensure that the machine is always well-equipped to work at its optimum.

Specially formulated disinfectants are also available in selected markets.

# Medical Pulp

The medical pulp products we supply through trusted partners are designed for use in surgeries, hospitals, and care facilities. They are cost-effective and provide healthcare providers with the confidence that safety and quality are prioritised in their design and manufacture, supporting infection control.

Ergonomically designed for ease of use, with a smooth, high-quality finish, they help maintain hygiene and reduce the risk of cross-contamination. Our range includes items for everyday nursing situations, such as holding vomit, urine, or faeces.

Made from recycled, maceratable pulp material, our products comply with PAS29:1999 for healthcare disposables and are Class 1 (per Annex VIII, Rule 1 of Medical Devices Regulation (EU) 2017/745). They are specifically designed to contain human waste for at least 4 hours.



## Bedpan (Figure 8) Liner & Accessories

Suitable for general toileting of patients and can be used in bed or commode chair. The liner is placed inside the support before use. Ideal for patients confined to bed due to illness or after surgery.



## Slipper Pan & Support (Midi)

Recommended for general toileting purposes of patients with limited mobility in bed, can be slipped under the patient. Used along with a reusable plastic support these pulp liners improve hygiene and infection control.



## Slipper Pan Liner & Support (Maxi)

Recommended for general toileting purposes of patients with limited mobility in bed, can be slipped under the patient. Used along with a reusable plastic support these pulp liners improve hygiene and infection control.



## Male Urinal Bottles & Accessories

Supports independent patient toileting. The round design suits in-bed use, while the square design stands upright. A single urinal bottle holder is also available, along with wall, floor, and racks for pulp boxes.



## Commode Pan & Accessories

Designed for general toileting in a commode chair. Also available Commode Pan Liner Dispenser rack.



## General Purpose Bowls & Accessories

General purpose bowls designed for ease of use available in 1 litre and 3 litre sizes. Also available General Purpose 1 litre dispenser rack.



## Detergent Proof Wash Bowl

Holds warm water and detergent for up to 2 hours with a maximum 4 litre capacity.



## Kidney Dish

General use receptacle for holding dressings, wipes, surgical instruments and other medical items.



## Graduated Jug

General purpose jug with ergonomic handle for enhanced grip.



## CS Receiver

General use receptacle for holding dressings, wipes, surgical instruments and other medical items.



Scan to find out  
more about our  
macerators



# DDC



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