



INDUSTRIAL SOLUTIONS & CONSULTANCY

PUREFLOW 1.0

ECO-SMART BOTTLING SOLUTIONS



► ABOUT US

At **DRB**, we redefine automation by positioning ourselves as your dedicated partners in success.

With over 20 years of extensive experience, we deliver cutting-edge, technology-driven solutions customised to meet your unique needs. Our holistic support guarantees precision and innovation in every project, whether it's optimising operations or pioneering technological transformations.

“DRB: YOUR GATEWAY TO INNOVATIVE SOLUTIONS”

With our mantra, we are committed to turning your vision into a tangible reality.

Learn more:
www.drbsolutions.co



“

IDEAS
ARE EASY
IMPLEMENTATION
IS HARD

”



A high-speed photograph of water splashing, creating a dynamic blue background with bubbles and droplets. The splash is centered on the left side of the page, with the water moving upwards and outwards.

TABLE OF CONTENTS

04	Introduction	■
05	Solution	■
05	Customer Challenges	■
06	Value Proposition	■
07	Key Benefits for Businesses	■
09	Return on Investment	■
10	Technical Overview	■
12	Bottling Line Technical Overview	■
12	Site Requirments	■
12	Safety and Compliance	■
12	Additional Sustainability Metrics	■
13	Frequently Asked Questions	■
13	Closing Statement and Call to Action	■



► INTRODUCTION

Imagine offering your guests premium mineral and sparkling water that's not only pure and refreshing but also eco-friendly. With our solution, you can drastically cut operational costs and eliminate plastic waste.

Our **Eco-Smart Bottling Solutions** is designed for industries with high water consumption, including hotels, universities, labour camps, and large-scale facilities. This system helps you meet growing environmental regulations while delivering measurable cost savings and efficiency, making it the perfect investment for organisations focused on sustainability and profit.



► SOLUTION

Our **Eco-Smart Bottling Solutions** offers a fully automated process to filter, cool, wash, and bottle both still and sparkling water on-site, eliminating the need for human intervention. This innovative solution significantly reduces plastic waste, lowers labour expenses, and enhances overall operational efficiency, enabling your business to operate a greener and more profitable water bottling operation.



► CUSTOMER CHALLENGES

In today's business landscape, companies face increasing pressure to comply with environmental standards while managing rising operational costs. Traditional bottled water solutions often involve costly labour, significant plastic waste, and inefficient processes that can negatively impact your bottom line.





► VALUE PROPOSITION

◆ **Fast Return on Investment (ROI)**

Experience rapid payback by minimising labour costs and eliminating the need for external bottled water suppliers. Companies typically see ROI within a short timeframe.

◆ **Operational Cost Reduction**

Eliminate plastic waste and costs associated with external bottling services while reducing water usage and energy consumption.

◆ **Sustainability**

Comply with stringent environmental regulations by offering zero-plastic waste solutions.

◆ **Enhanced Customer Experience**

Deliver high-quality, locally sourced, eco-friendly water, showcasing your commitment to sustainability.

◆ **Branding Opportunities**

Position your business as a leader in sustainability, attracting eco-conscious customers.





► OUR COMPLIMENTARY SERVICES

- **Comprehensive Warranty:** Covers all technical aspects of the system.
- **Supply of Bottles and Caps:** Ensures a continuous supply of high-quality materials.
- **Annual Maintenance Contract (AMC):** Regular maintenance and hygiene checks.
- **Laboratory Testing:** Ongoing microbiological testing for compliance.
- **Upgrades and Enhancements:** Keeping your system updated with new technology.



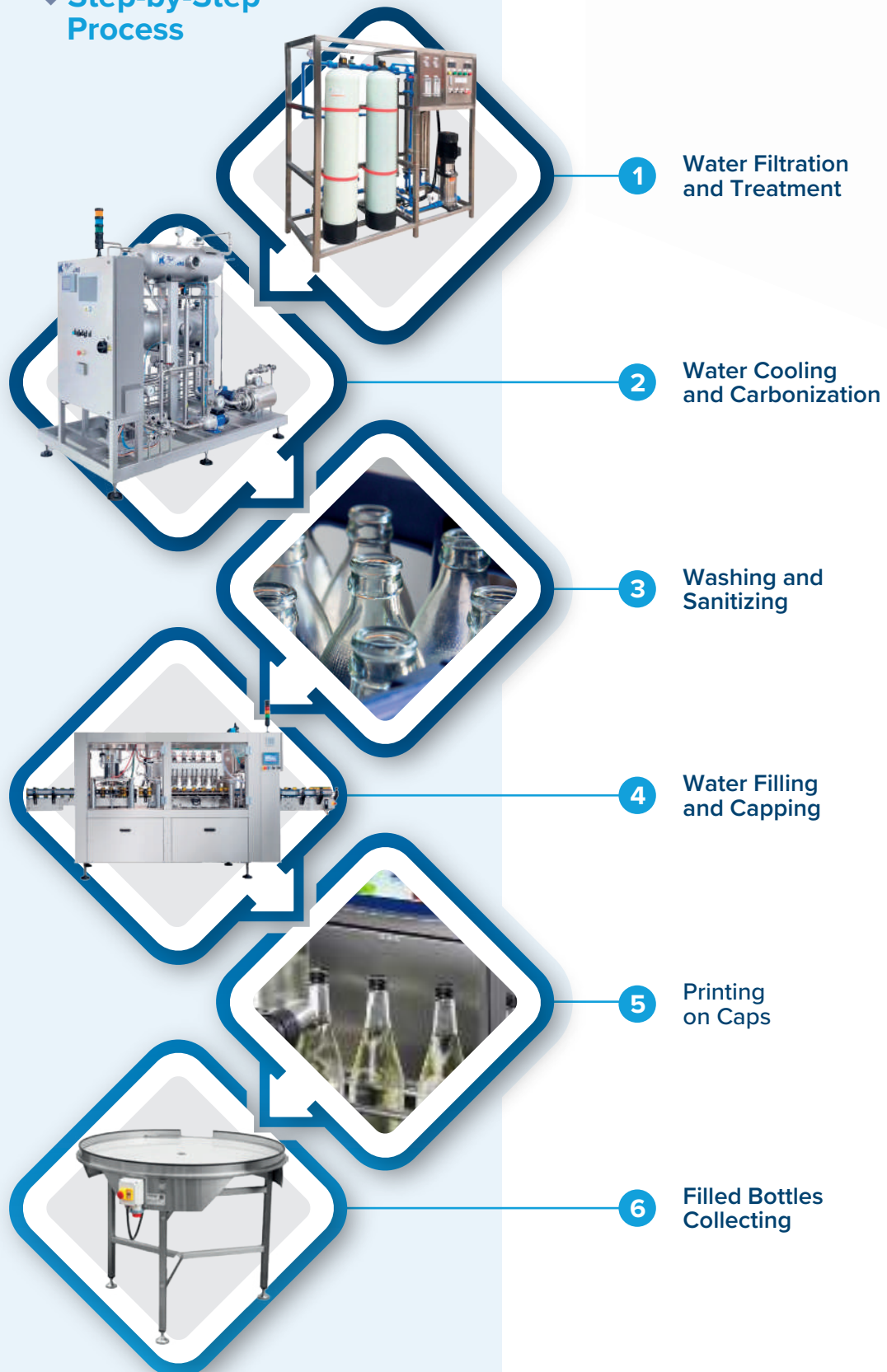


TECHNICAL ► TECHNICAL OVERVIEW OVERVIEW



► TECHNICAL OVERVIEW

◆ Step-by-Step Process





► BOTTLE LINE TECHNICAL OVERVIEW

◆ Water Filtration and Treatment System

- **Water Quality Analysis:** Performed prior to Filtration System Design.
- **Water Filtration System:** Depends on the quality of supply water.
- **Water Taste:** Water Taste Enhancement is an option.

◆ Microbiological Standards for Treated Water

- **Escherichia coli and Enterococci:** Standard is 0 per 100 ml.
- **Clostridium perfringens:** Standard is 0 per 100 ml.
- **Coliform Bacteria:** Standard is 0 per 100 ml.
- **Colony Counts:** Standard is 'no abnormal change'.

◆ Maintenance

Regular professional cleaning and filter changes every six months are essential for hygiene.

◆ Water Cooling and Carbonization System

• Chemical Composition

- **Water (H₂O):** Primary component.
- **Carbon Dioxide (CO₂):** Dissolved under pressure.
- **pH Level:** Between 3 and 4.
- **Gas Content:** CO₂ concentration ranging from 1.5 to 8 grams per litre, depending on desired fizziness.
- **Filling Temperature:** Between 1°C and 4°C.

◆ Glass Bottles washing and Sanitization:

- The system uses a Fully Automatic Continuous washer that can handle all requested Glass Bottles sizes.
- A Semi-Automatic Glass Bottles Washer and Sanitizer is also an option.
- The system can do Internal washing and sanitization, along with External washing of the bottles.

◆ Water Filling and Capping:

The line uses an Isobaric Filling Machine that handle both the Carbonated and Still water filling and its features are:

- **Pressure-controlled filling.**
- **Can handle various Glass bottle sizes.**
- **Can handle Ring Pull Caps.**

Other Filling systems can be used; however, this depends on the output needed and the final product specifications.

A Ring Pull cap provides tamper-evidence, ensuring safe and secure water consumption.

◆ Printing on the Cap:

The neck is of Ring Pull type.

A Printer will imprint the date and time of filling and capping along with the expiry date to provide product traceability, and to avoid contents consumption beyond the expiry date.







► SITE REQUIREMENTS

- **Electrical Power Requirements:** 3 phase power system is recommended.
- **Compressed Air:** Compressor output pressure of 6 to 10 bars.
- **Domestic Water Supply**



► SAFETY AND COMPLIANCE

Our system meets all health and safety regulations, ensuring uncompromised water quality and compliance with environmental standards.

► ADDITIONAL SUSTAINABILITY METRICS

- Eliminate plastic waste.
- Eliminate Carbon emissions generated by delivery vehicles.
- Reduce Carbon emission generated by plastic water bottles production.



► FREQUENTLY ASKED QUESTIONS (FAQ)

◆ What is the installation process like?

Seamless installation with support from our technical team.

◆ How often does the system require maintenance?

Typically recommended every six months. Regular maintenance could be included in our AMC.

◆ Can the system accommodate different bottle sizes?

Yes, it is designed for various glass bottle sizes.

By choosing our **Eco-Smart Bottling Solutions** you're not only cutting operational costs but also positioning your business as a leader in sustainability. Our system delivers rapid ROI, enhanced efficiency, and long-term value for businesses committed to profit and the environment.

► PLAN YOUR NEXT STEP WITH US

Book your consultation to discuss how our solution can seamlessly integrate into your operations, reduce costs, and elevate your sustainability profile.





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