



SustainFlow Compact Wastewater Treatment System

**offers innovative, cost-effective solutions
for a cleaner, greener tomorrow**



A Greener Future with SustainFlow

"At SustainFlow, we promise a future where wastewater treatment is accessible, efficient, and environmentally responsible, safeguarding our planet for generations."

Introduction:

SustainFlow Solution is at the forefront of wastewater treatment innovation, bringing the future of water management to residential and commercial users. Our **Compact Membrane Bioreactor (MBR) System** is designed for small-scale wastewater treatment, perfect for a variety of applications, including hostels, guesthouses, remote camps, and outdoor events. Built to withstand the demands of modern sustainable practices, our system combines eco-friendly efficiency with cutting-edge technology.

Our Mission and Vision:

SustainFlow Solution is committed to revolutionizing domestic wastewater management. Our mission centers on providing a sustainable, cost-effective blackwater treatment system. This system harnesses cutting-edge technology and a unique process to transform wastewater into high-quality recycled water. This recycled water can be safely used for irrigation, landscaping, and various non-potable applications. We aim to mitigate the environmental impact of untreated wastewater on ecosystems while offering a practical, scalable solution for both residential and commercial clients. Our approach not only addresses environmental concerns but also meets the evolving needs of diverse customer segments, ensuring a balance between eco-friendliness and operational efficiency.



What Makes Us Different?



Feature: Compact Membrane Bioreactor (MBR) Design

Benefit: This means the system can fit easily in smaller spaces, making it ideal for residential use or small businesses, enhancing installation flexibility.

So What?: This makes it possible for those with limited space to implement advanced wastewater treatment, expanding the accessibility of sustainable practices.



Feature: Advanced Filtration Technology

Benefit: Results in higher water purity, ensuring safety and compliance with environmental standards for non-potable uses.

So What?: Consistently high water quality supports safe reuse, complying with health and environmental guidelines.



Feature: Converts Wastewater into High-Quality Recycled Water

Benefit: Provides a sustainable and eco-friendly way to reuse water for irrigation and landscaping, reducing the environmental footprint.

So What?: Promotes water conservation and reduces dependence on municipal water systems, potentially leading to cost savings and environmental benefits.



Feature: Easy Installation Process

Benefit: Quick and hassle-free setup, reducing downtime and inconvenience for users.

So What?: Reduces the barriers to adopting advanced wastewater treatment technologies, encouraging more individuals and businesses to make eco-friendly choices.



Feature: Low Operational and Maintenance Costs

Benefit: Lower long-term expenses for users, making it a cost-effective solution compared to traditional wastewater treatment systems.

So What?: The affordability enables a broader range of customers to adopt sustainable water treatment, making it a practical choice for budget-conscious users.



Feature: Scalable System Design

Benefit: Allows flexibility in capacity, making it suitable for a range of applications from single homes to larger commercial establishments.

So What?: This adaptability means the system can grow with the user's needs, providing long-term solutions that meet evolving market challenges.



Feature: Automated Monitoring and Control

Benefit: Ease of management and consistent treatment quality, offering peace of mind to users.

So What?: Minimizes the need for constant manual oversight, saving time and effort for the user while ensuring optimal system performance.



Feature: Compliance with North American Environmental Standards

Benefit: Meets rigorous health and safety guidelines, ensuring user and environmental protection.

So What?: Adherence to regulations enhances the credibility and marketability of the system, safeguarding both users and the environment.



Feature: Robust Construction with Long Lifespan

Benefit: Ensures reliability and durability, offering a long-term wastewater treatment solution.

So What?: This reliability reduces the frequency and cost of repairs, ensuring a longer, more efficient service life of the system.



Feature: Modular Components for Easy Upgrade and Repair

Benefit: Offers flexibility in system maintenance and future enhancements, ensuring the system stays up-to-date with technological advancements.

So What?: This future-proofs the investment, as users can adapt the system to evolving technologies without needing a complete overhaul.



Built for Real-Life Needs:

Our **MBR system** can handle various capacities, making it ideal for the following applications:

- Small-scale wastewater treatment for **hostels, guesthouses, and remote camping resorts**.
- Wastewater management for **remote mining camps and outdoor event sites**.
- Suitable for communities and businesses that seek eco-friendly, self-sustaining waste treatment.

Whether it's treating greywater or blackwater, our systems are engineered to ensure that no harmful substances are released into the environment.

Technical Specifications:

Our **DH-300** and **DH-500** models are designed for efficient water treatment, handling daily capacities of **40 GPD** and **80 GPD**, respectively. Despite their compact size, these models are built with:

- **Anoxic Tank Volume:**
50-84 liters



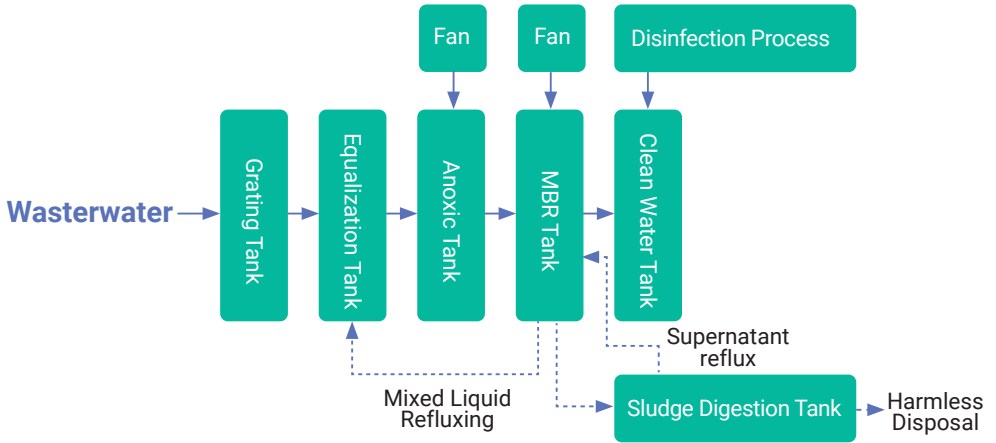
- **Suction Pump Flow Rate:**
0.5-0.8 L/min



		DH-300	DH-500
Dimension(mm³)		950*500*500	950*500*800
Weight(kg)		100	125
Daily Processing Capacity		300L/Day	500L/Day
Anoxic tank volume (L)		50	84
MBR tank volume (L)		100	168
Fan	Airflow	20L/min	20L/min
	Power	15W	15W
Suction pump	Flow rate	0.5L/min	0.5L/min
	Power	100W	100W
	Suction lift	2m	2m
Return pump	Flow rate	0.5L/min	0.5L/min
	Power	100W	100W
	Delivery Head	0.6m	0.6m
Mixer	Power	12W	12W
Membrane component		DH25-3	DH25-5
Installed power		250W	250W
Floor area (sqm)		0.4	0.57
Electrical control		Automatic Liquid Level Control	Automatic Liquid Level Control

Each model is optimized for energy efficiency with low power consumption, making them suitable for both residential and commercial applications.

Process Flow Diagram:



Key Benefits of the System:

- **Sustainable Design:** Meets North American environmental standards and can be integrated into projects focused on water conservation.
- **Scalable:** The modular design allows for easy capacity upgrades, catering to various needs from homes to larger commercial spaces.
- **Ease of Use:** Automated monitoring and control ensure consistent performance, minimizing manual intervention.
- **Robust Construction:** Built to last, ensuring a long service life with minimal repairs.

Effluent Water Quality Indicators:

No.	Basic Control Item	Water Quality Indicator
1	Chemical Oxygen Demand (COD)	≤ 50
2	Biochemical Oxygen Demand (BOD5)	≤ 10
3	Suspended Solids (SS)	≤ 10
4	Ammonia Nitrogen (as N)	≤ 5 (8)
5	Total Phosphorus (as P)	≤ 0.5
6	pH Value	6 ~ 9

Get in Touch with Us:

Want to learn more about how our systems can benefit you? Contact us today or visit our website at **www.sustainflow.ca** to discover more about our innovative wastewater treatment solutions.

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