

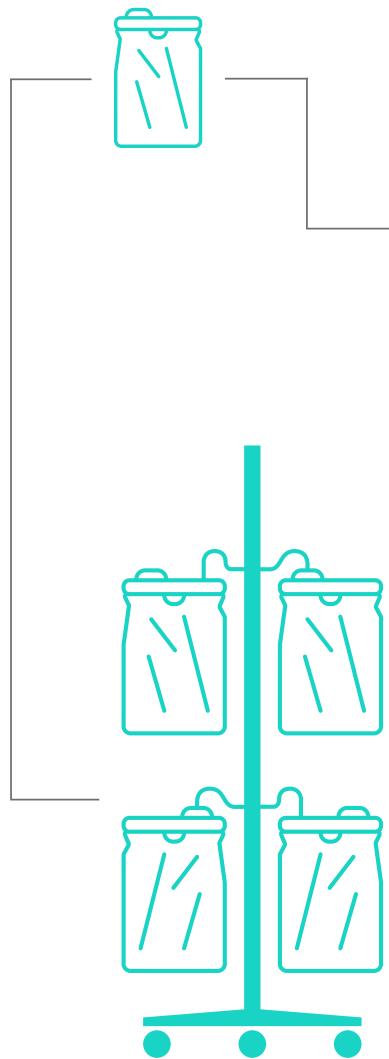
# Rely on the essential in fluid collection



Suction is just one part of the process that makes up modern health care. Yet it is an essential part of patient treatment one that healthcare professionals must rely on completely.

That's why we are dedicated to developing solutions for fluid collection, fluid disposal and fluid management. We ensure that each of these critical phases around suction works, so that hospital staff can focus on their obs more effectively.

## The Serres Suction bag System



# Safety and reliability made easy

we have been building and developing our expertise in the surgical suction field since the 1910s.

We have always taken pride in creating **durable, easy-to-use and reliable products** that help healthcare professionals excel in their work.

Our **passion for surgical suction** has led us to become a pioneering fluid management solutions manufacturer, providing suction bags and canisters as part of the Serres Suction Bag System to thousands of hospitals and health care facilities around the world.

The Serres Suction Bag System is simple to learn and take in use. It enables safe and hygienic fluid collection.



✓ Reliability

✓ Versatility

✓ Ease



# 6 Reasons for choosing the Serres Suction Bag System

## ✓ Decreased risks of infection for the patients & the OR staff

We have developed a **closed system** that prevents leakages and spillages from occurring, even in situations where the bags would be accidentally dropped on the floor.

Suction bags with **backflow valve** enable more hygiene operation as the valve prevents liquid spillage from the patient port before it is plugged.

**Pre-gelled suction bags** ensure an easy and safe handling and transportation of solidified fluid waste.

**Hydrophobic filters** serve as a combined bacterial filter and overflow protection, which reliably protects the central vacuum system from contamination.

1.

## ✓ Proven durability

Making sure that our suction bags deliver the best results is one of our top priorities. The Serres suction bags are made of **thin yet strong polyethylene film** that stretches and doesn't burst.

2.

The Serres suction Bags offer reliable quality that we have honed over 45 years in our factories in auha oki and Saari rvi, Finland. We follow diligent quality control, ensuring a failure rate of only one in a million.

# 6 Reasons for choosing the Serres Suction Bag System

3.

## ✓ User friendliness

The **serial connection** allows you to expand the suction capacity up to 36 liters, the largest volume in the market.

The **solidifier**, packed in soluble pouches, is pre-inserted in the bag so you can begin the operation immediately.

The **vacuum source** is connected to the angle connector of the canister. Once installed, there is no need to touch the vacuum tube or the connector between operations.

## ✓ Minimized risks of errors

Some complications that patients experience are due to mistakes during the procedures.

To help you ensure patient safety in the OR, we've incorporated a **patented single connection system** that makes mistakes virtually impossible.

The **error-free connection** is easy to learn and use, all while minimizing the risk of error or accident related to surgical suction. Just connect the patient tubing and the bag is ready for use.

4.

# 6 Reasons for choosing the Serres Suction Bag System

## ✓ Cost savings

Fewer references are needed in the hospital with the Serres suction bag system. Indeed, the same suction bag can be used regardless of the installation type or accessories used. This eases the **stock management** and reduces the work in procurement.

Furthermore, our suction bags contain **58% less plastics** than other solutions in the market. As a result, you can save **up to 88% of the space** you have in your storage rooms all while reducing your transport costs related to disposable medical equipment.

5.

## ✓ No DEHP and a lower carbon footprint

The Serres suction bags system is **DEHP-free**, which allows you to protect your patients from any health risks related to exposure to this phthalate.

What's more, Serres helps hospitals decrease their **environmental impact** through smart design, manufacturing, transportation, storage and disposal.

**Less plastics** means lighter products creating space and cost savings in transportation, storage and disposal. Serres is an **ISO 14 001**-certified manufacturer.

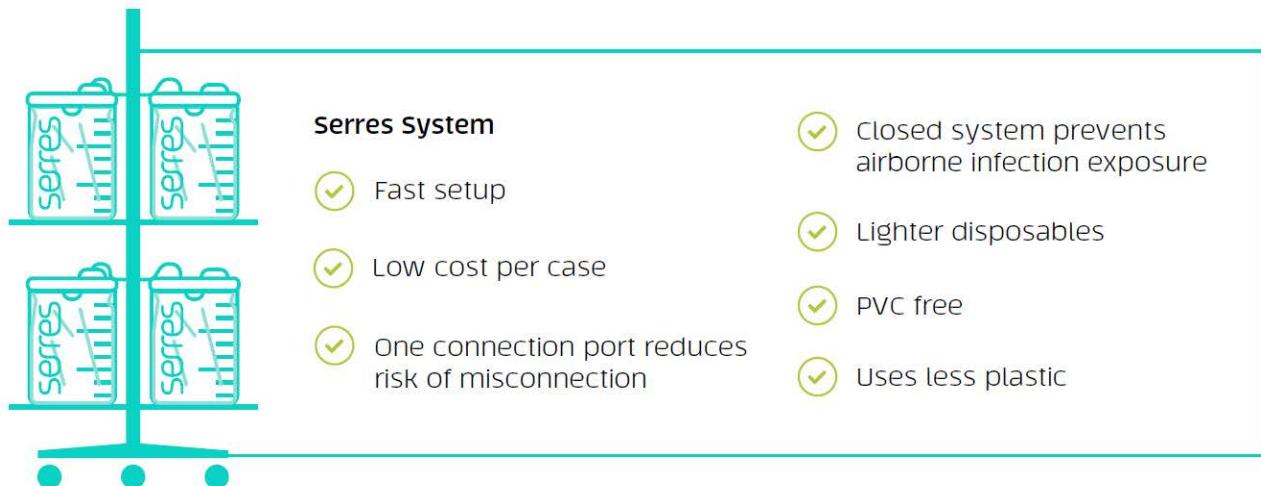
6.

# Fluid collection with the Serres Suction Bag System

The modernization of fluid waste collection and disposal has led to the introduction of suction bags which serve as [canister liners](#). This revolutionizes the traditional canister set-up, as the suction bags are the only part that touches the fluid, allowing the canister to be installed and connected to vacuum line without needing to remove it again before or after each surgery.

A serial connection system allows suction capacity to expand to [36 liters](#). While this setup is best for low and medium volume cases, it can expand for larger volume cases as well.

At the end of procedure, rather than dismantling the entire canister set-up, utilizing Serres suction bags allows for an [easier and more efficient workflow](#). Staff can simply remove the plugged suction bag that lines the canister to prepare for disposal.



# Solutions made smart for the environment

To make healthcare more sustainable, we design smart solutions that reduce the **environmental impact** of fluid management around suction. We look at the impact across the healthcare lifecycle to make Serres the sustainable choice for you.

## Less emissions with practical solutions

### ✓ Less plastic, less weight

Our reliable and durable suction bags use much less plastic than comparable products. Reducing the amount of plastics in manufacturing makes suction bags much lighter. This creates efficiencies in logistics and saves CO<sub>2</sub> emissions from being released into the environment.

### ✓ Up to four times more bags in a box

The foldability of Serres Suction Bags fits more bags into less space, leading to more efficient transport and space-savings in storage.

### ✓ PVC-free suction bags and canisters

Incinerating PVC increases levels of toxic dioxin. Serres Suction Bags are made of polyethylene (PE) and polypropylene (PP). Our canisters use polycarbonate (PC).



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## Smart across the healthcare lifecycle

Environmental impact is a sum of many parts. That's why we at Serres look at the consequences of each choice along the healthcare lifecycle.

We are dedicated to developing suction bags that are smart for the environment so people who rely on our solutions day in, day out can better focus where it matters.



### Design

Minimizing the environmental impact starts from design.



### Manufacturing

With production in our own hands we control the impact of the process.



### Transport

Product design and packaging that is ideal for smart transport.



### Storage

Smart space-saving packaging creates efficiencies in hospitals.



### Use

Solutions designed to be more environmental in use with a positive influence also on safety and wellbeing at work.

# Zoom in: Lowering CO<sub>2</sub> emissions from transport with Serres

Choice of suction system influences the environmental impact of your actions. Serres Suction Bags use less plastic than comparable products, making them lighter and easily foldable for efficient packaging and convenient transportation.

The US health care sector's carbon footprint accounts for **8% of total U.S. CO<sub>2</sub> emissions**.

Furthermore, about **80%** of U.S. health care sector emissions stem from the **supply chain**, including disposable medical equipment used a single time .

With Serres, you can contribute to lowering the health care sector's carbon footprint related to supply chain and here's why: while many other similar products are produced in China, Serres has its **manufacturing in Finland**.

Shipping Serres Suction Bags from Helsinki to New York results in **1 times less CO<sub>2</sub> emissions** than shipping the same number of rigid canisters from Shanghai to New York.

*U.S. health care emissions continue to rise , Yale University, December , 0 0.*

