



# Product catalogue Smart fluid management solutions



# Progress together

Serres pioneers smart fluid management around suction. With the solutions we develop, we make daily work easier and more efficient in hospitals. We share healthcare professionals' passion for caring for patients, doing our part by enhancing fluid collection, disposal and management. We allow healthcare professionals to focus where it matters.

## Reliability

Confidence in fluid management solutions is key to the people who rely on them day in, day out. Reliability is rooted in our high standards in developing quality products over the past 45 years.

## Efficiency

Our smart solutions improve workflows and patient flow. We work closely with healthcare professionals to improve efficiency in fluid management.

## Convenience

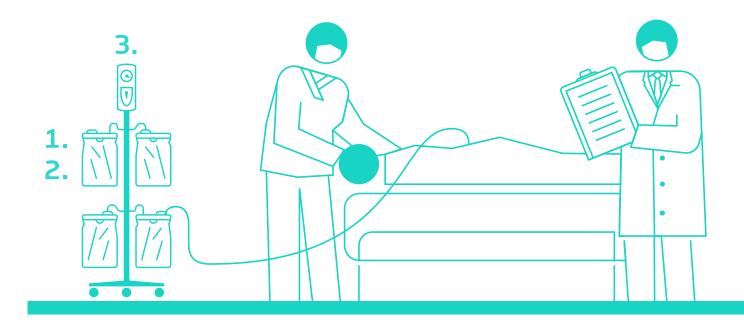
We develop holistic solutions that ease the everyday of healthcare professionals. All our products are intuitive to set up and convenient to use safely, even in the most hectic moments.



# The integrated Serres fluid management solution

We offer solutions for fluid collection, fluid disposal and fluid management with the Serres Suction Bag System, Serres Nemo and Serres Saga.

Our products are designed to work together, creating a holistic chain from suction to disposal. The Serres Suction Bag System offers a reliable solution for safe and easy fluid collection. Together with our waste disposal equipment, Serres Nemo, it creates an integrated fluid management solution. Serres Saga is a smart fluid management device for dealing with larger quantities of liquids, improving workflows in and around the operating room.



# **1.** Serres Suction Bag **2.** Serres suction System

The Serres suction System provides safe and reliable fluid collection in all operations and areas of the healthcare facility.

# canisters

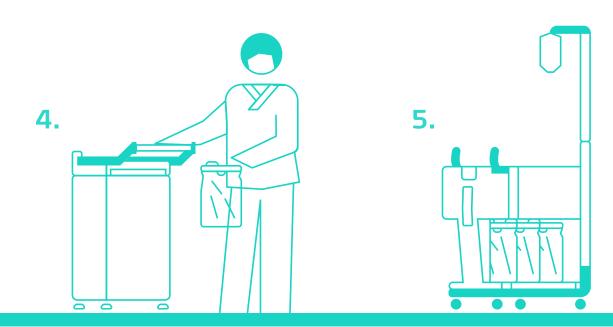
Reusable Serres suction canisters line the single-use Serres suction bags.

# **3.** Ejector

When connected to the hospital's compressed air supply, Q-Vac produces adjustable and silent suction.

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# **4.** Serres Nemo

Serres Nemo empties the Serres suction bag's content into the sewer with minimal effort, making the fluid disposal safer, cleaner and more costeffective.

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# **5.** serres Saga

Serres Saga improves fluid management in the OR by controlling suction, offering unlimited collection capacity, monitoring fluid amounts automatically and solidifying fluid waste on the spot.

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# Safety and reliability made easy

As suction is vitally important in the operating room, Serres Suction Bag System has been developed in close cooperation with healthcare professionals to provide safe and reliable suction at all times – no matter how demanding the procedure.

The Serres Suction Bag System consists of disposable suction bags, reusable suction canisters and a wide range of accessories. This closed system eliminates contact with collected blood and fluids, and secure closing ensures no spillage or leakage occurs. Designed with the users, we have made Serres Suction Bag System as easy to use as possible.

#### **Disposable suction bags**

- 1. Hydrophobic filter acts as a combined bacterial filter and overflow protection. The filter closes suction automatically when it comes in contact with fluids.
- 2. Serial port allows you to expand suction capacity up to 36 litres.
- 3. Bags folded with tapes make installing fast and easy.
- 4. The solidifier, packed in soluble pouches, is pre-inserted in the bag so you can begin the operation immediately.
- 5. Measuring cup attachment point. All special products and accessories are always compatible with other Serres products and designed to function together.
- 6. After use, simply grab the handle and remove the bag.
- 7. Patented Single Connection ensures error-free installation. Just connect the patient tube and the system is ready for use.
- 8. After plugging, all caps stay firmly closed and keep the bag completely sealed even if it is dropped on the floor.

#### **Reusable suction canisters**

- 1. 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.
- 2. Canisters can be installed in a variety of different holders. The canisters are transparent, but blue-colored models are available for sensitive circumstances.
- 3. Wide measuring scale is easy to read from all directions.
- 4. Robust structure and resistant material allow for effective cleaning, including autoclaving.
- 5. The 2000ml and 3000ml canisters are round. 1000ml canisters are oval-shaped and fit even the smallest spaces.





# Serres suction bags

Designed to provide the highest performance and ease of use, Serres suction bags are available in 1000ml, 2000ml and 3000ml sizes. They are made of thin yet strong polyethylene film, making the system safe, hygienic and durable.

Serres suction bags are PVC-free and use much less plastic than comparable products. Reducing the amount of plastics in manufacturing makes suction bags much lighter and allows them to fit in less space when packaged. This creates efficiencies in logistics and reduces  $CO_2$  emissions.

## Standard Serres suction bags

Created to support safety and hygiene, the standard Serres suction bags are ideal for basic everyday use.

Product no.	Product name	Packing size (pcs)
57157	Suction bag, 1000ml	216 (36 x 6)
57167	Suction bag, 2000ml	144 (24 x 6)
57187	Suction bag, 3000ml	144 (24 x 6)



#### Folded Serres suction bags

Our folded suction bags are the easiest and most convenient bags on the market to install.

Product no.	Product name	Packing size (pcs)
57167-0	Suction bag, folded, 2000ml	144 (24 x 6)
57187-0	Suction bag, folded, 3000ml	144 (24 x 6)



#### Serres suction bags with backflow valve

The backflow valve helps prevent spills in case of overfilling or if the patient port is left open.

Product no.	Product name	Packing size (pcs)
57157-3	Suction bag, backflow valve, 1000ml	216 (36 x 6)
57167-3	Suction bag, backflow valve, 2000ml	144 (24 x 6)
57187-3	Suction bag, backflow valve, 3000ml	144 (24 x 6)





#### Single packed Serres suction bags

Single-packed suction bags are ideal when the consumption of suction bags is minimal.

Product no.	Product name	Packing size (pcs)
57157-2	Suction bag, single packed, 1000ml	90
57167-2	Suction bag, single packed, 2000ml	90
57187-2	Suction bag, single packed, 3000ml	90



#### Suction bag with dual filter

Used in operations with very heavy smoke production. If an excessive amount of aerosol or smoke is suctioned, the extra filter prevents premature blockage of the overflow filter.

Product no.	Product name	Packing size (pcs)
57167-5	Suction bag with dual filter, 2000ml	144 (24 x6 )
57187-5	Suction bag with dual filter, 3000ml	144 (24 x 6)



# Suction bag selection guide

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Product no.	Standard	Folded	Pre-gelled	Single packed	Backflow valve	Dual filter	Packing size (pcs) *
1000ml							
57157	٠	-	-	-	-	-	216 (36x6)
57557	-	-	•	-	-	-	192 (32x6)
57157-2	-	-	-	٠	-	-	90 **
57157-3	-	-	-	-	•	-	216 (36x6)
2000ml							
57167	•	-	-	-	-	-	144 (24x6)
57167-0	-	•	-	-	-	-	144 (24x6)
57567-0	-	•	•	-	-	-	132 (22x6)
57167-2	-	٠	-	•	-	-	90 **
57167-3	-	•	-	-	•	-	144 (24*6)
57167-5	-	٠	-	-	-	٠	144 (24x6)
3000ml							
57187	•	-	-	-	-	-	144 (24x6)
57187-0	-	•	-	-	-	-	144 (24x6)
57587-0	-	•	•	-	-	-	120 (20x6)
57187-2	-	•	-	•	-	-	90 **
57187-3	-	٠	-	-	•	-	144 (24x6)
57187-5	-	•	-	-	-	•	144 (24x6)

\* Unless stated otherwise, suction bags are packed in dispenser boxes and 6 dispenser boxes fit in a transport box.

\*\* Products are not packed in ward boxes but in larger storage box.

# Suction canisters

Reusable Serres canisters need replacement very rarely, as they are extremely durable. Serres suction canisters are certified as measuring devices with an accuracy of +/- 100ml. Canisters are equipped with built-in brackets for mounting on walls, rail supports or trolleys. Canisters include reusable angle connectors for vacuum tubing. The compact oval-shaped 1000ml canisters are ideal for tight places in ambulances, intensive care units and anaesthesia work stations.

### Suction canisters, transparent

Transparent canister with wide scale allow for a clear view of suctioned liquid.

Product no.	Product name	Packing size (pcs)
57308	Suction canister, 1000ml	45
57328	Suction canister, 2000ml	24
57348	Suction canister, 3000ml	16

#### Suction canisters, blue

Blue canisters are designed for sensitive circumstances to ensure comfort of patients and families.

Product no.	Product name	Packing size (pcs)
57309	Suction canister blue, 1000ml	45
57329	Suction canister blue, 2000ml	24

### Flushing canister

In intermittent use, suction tubes can be cleaned and kept operational by suctioning small amount of water from the Flushing Canister.

Product no.	Product name	Packing size (pcs)
57319	Flushing canister, white, 1000ml	45







#### Valves and connectors for Serres canisters

- Serres valve is used to open and close suction when the smoke filter is used.
- On-off valve can be used to open and close suction. It replaces the grey angle connector.
- T-connector is used in serial connections and can replace the Serres valve when the smoke filter is used
- The reusable Angle connector is available as a spare part if it is disposed of accidentally.

- Bart	
57958	57959

Product no.	Product name	Packing size (pcs)
57958	Serres valve	10
57959	On-Off valve	10
57610	T-connector	100
57618	Angle connector	20



# Solidifying agent

The Serres solidifying agent ensures safe handling of fluid waste, minimizing risk of spillage or contact with potentially infectious fluid waste.

#### Pre-gelled Serres suction bags

Pre-gelled Serres suction bags with solidifier enable safer handling.

Product no.	Product name	Packing size (pcs)
57557	Pre-gelled bag, 1000ml	192 (32 x 6)
57567-0	Pre-gelled bag, folded, 2000ml	132 (22 x 6)
57587-0	Pre-gelled bag, folded, 3000ml	120 (20 x 6)



#### Solidifying agent

Extra solidifier is available in separate pouches or in a 2kg tub. Solidifier can be added into the suction bag through a serial port before or after the procedure.

Product no.	Product name	Packing size (pcs)
57550	Solidifying agent, 25g	24/288 *
57551	Solidifying agent, 15g	20/200 *
57553	Solidifying agent tub, 2kg	1



\* Pouches are packed in plastic bag of 20/24 pcs. The total number of pouches in a storage box is 200/288 pcs

# Serial connection for large volumes

Serres suction bags are easily connected in a serial chain for maximum suction capacity. A disposable Serial tubing with a wide-angle connector is installed between the suction bags. Reusable silicone Vacuum tubing connects canisters to the vacuum source. All Serres suction bags can be used either in single or serial connection use.

Product no.	Product name	Packing size (pcs)	Reutilizable
57918	Serial tubing	150 (25x6)	no
57908	Vacuum tubing, silicone	10	yes
57899	Vacuum tube roll, 5m, silicone	10	yes

In serial connection you can connect up to 6 canisters into one chain. If a Vacuum shift is used to connect two chains, the maximum collection capacity is 36 litres in one trolley. When using Serres suction bags in series, the liquid flows into the first bag. When it becomes full, the liquid automatically starts to flow into the next bag through the Serial tube without any user intervention. When the last bag in the chain is full or when the procedure is completed, the bags are plugged and disposed of just like in normal use.



\* The grey connectors are reusable

# Trolleys

#### Trolleys in two heights

Serres Trolleys are light and convenient to move and they hold up to 12 canisters plus two accessories. Available in two heights, the trolley can be stored even under the bed.

#### Trolleys

The high trolley is supplied with a holder for 6 canisters. On top of the bar there is a place for two additional devices, such as ejector, vacuum shift or flushing canister. An optional canister holder can be installed for an additional 6 canisters. The low trolley holds 3 canisters or equipment.

Product no.	Product name	Packing size (pcs)
57940	High trolley, 120cm*	3
57945	Low trolley, 55cm	4

\* High trolley comes with a wheel brake

#### **Trolley accessories**

With the additional Canister holder, the capacity of the trolley can be expanded significantly. Control valve enables a fast way to take suction bags into use individually.

Product no.	Product name	Packing size (pcs)
57941	Canister holder	6
57942	Control valve	1/30
57943	Control valve Plug	100



57940

57941

57942

#### Vacuum shift

Vacuum shift is designed to change vacuum from one suction bag system to another. The Vacuum shift is installed in the trolley between two canisters. It can be used also in serial connection.

Product no.	Product name	Packing size (pcs)
57955	Vacuum shift, plastic	5



# Accessories for Serres suction system

- All accessories are compatible with Serres suction bags and are easy and fast to connect.
- **Collection cup** is designed for collecting particles from the suctioned liquid.
- Measuring cup for accurate measuring of small liquid volumes.
- **Splash-vac** is ideal for removing large amount of liquids from the floor conveniently.
- **Bacterial filter** can be connected between suction canister and suction pump.
- Smoke filter prevents premature filter blockage by smoke.
- Vacuum source protector prevents the contamination of the hospital's central vacuum system and suction pump in case of an unpredictable failure of the fluid collection system.

Product no.	Product name	Packing size (pcs)
57247	Collection cup 300ml	108 (18x6)
57242	Collection cup 300ml, without angle connector	108 (18x6)
57257	Measuring cup 250ml	72 (12x6)
57270	Splash-vac + 3m suction tubing	25
57702	Bacterial/Viral filter	10
57710	Smoke filter	10
6001114	Vacuum source protector	15





57702



57270



# Serres transport box

Serres suction bags are foldable to fit up to four times more bags into a box compared to similar products on the market, leading to more efficient transport and space savings in storage.



# Special connectors

Twin connector is designed to replace the suction bag's patient connector if simultaneous suction from two sites is needed. Straight connector is used as a replacement for the patient connector if a larger suction tube is used.

Product no.	Product name	Packing size (pcs)
57620	Twin connector	20/100
57621	Straight connector	20/500



57621

# Suction canister holders, brackets and adapters

Serres suction system includes a wide range of accessories. All accessories are designed with practicality, functionality and ease of use in mind.



#### Brackets

Serres brackets are designed to hold Suction canisters in all possible situations: wall, rail, table and bed. Rail bracket with quick connection can be installed without any tools. Plastic brackets can be washed in a washing machine even at 95°C.

Product no.	Product name	Packing size (pcs)	Material
57815	Rail bracket	25	plastic
57818	Rail bracket	1/25	aluminium
57820	Wall bracket	50	plastic
57817	Wall bracket	1/25	aluminium
57814	Wall bracket, wide	25	plastic
57825	Table bracket	1/10	aluminium
57830	Bed bracket	1/10	aluminium/ stainless steel
57835	Table stand, 1000ml	10	aluminium/ stainless steel
57836	Table stand, 2000ml	10	aluminium/ stainless steel



57835



57836

57820

57814

#### Adapters

Serres Canisters can be installed with adapters to most of 3rd-party wall brackets. Adapters are ideal for hospitals that want to avoid extra mounting work.

Product no.	Product name	Packing size (pcs)
57821	D-adapter	50
57822	C-adapter	50
57823	A-adapter	50
57824	V-adapter	50
57826	J-adapter	50



#### Other holders

Catheter holder is the most convenient container for storing catheters where they are needed. Tube holder keeps the suction tube always within reach and ready for use.

Product no.	Product number	Packing size (pcs)
57831	Catheter holder	1
57833	Tube holder	10



57833



# Suction bag & tube

Ready-to-use packages consist of a connecting patient tube and a suction bag packed together in a peel pack. This combination of fully compatible suction products simplifies nursing work while reducing the number of product codes for better stock control.



#### Female-female for standard yankauers and tips (inside diameter of connector 11mm)

Product no.	Tube	size*	Length (m) Suction bag size		Vacuum control	Packing size
Product no.	CH25	СН30	Length (m)	Suction bag size	Adapter **	(pcs)
1000ml						
57157-23181	٠	-	1,8m	1000ml	_	65
57157-23188	•	-	1,8m	1000ml	SerresTip	60
57157-26308	-	•	3,0m	1000ml	SerresTip	50
57157-23185	•	-	1,8m	1000ml	Stop vacuum	60
2000ml						
57167-23181	•	-	1,8m	2000ml	-	60
57167-26301	-	•	3,0m	2000ml	-	50
57167-23188	•	-	1,8m	2000ml	SerresTip	60
57167-26308	-	•	3,0m	2000ml	SerresTip	50
57167-23185	•	-	1,8m	2000ml	Stop vacuum	60
57167-26305	-	•	3,0m	2000ml	Stop vacuum	50
3000ml						
57187-23181	•	-	1,8m	3000ml	-	60
57187-26301	-	•	3,0m	3000ml	-	50
57187-23188	٠	-	1,8M	3000ml	SerresTip	60

\* 5,8-8,3mm / CH25, 7-10mm / CH30

\*\* packed separately

#### Vacuum control options

SerresTip and Stop vacuum adapters connect to standard suction catheters and enable a safer suction control at the patient bed. SerresTip adapter features unique ergonomic design for easier and more hygienic handling with only one hand. The stop vacuum device provides a secure vacuum switch closer to patients. This device is available in two versions to accommodate adult or paediatric suction catheters. All adapters are sold as separate items or provided with Suction Bag and Tube packages.

#### Adapters

Product no.	Product name	Packing size (pcs)	Without phthalate
58280-1	SerresTip adapter	100	•
58250	Stop vacuum, adult	70	•
58260	Stop Vacuum, paediatric	70	•





# Ejector

When connected to the hospital's compressed air supply, Q-Vac produces adjustable and silent suction. The ergonomic Q-Vac increases user comfort by reducing suction noise and improving handling. In fact, Serres Q-Vac is an extremely silent suction ejector. Advanced design shields the device from impact and brings a fresh appearance and colour to the hospital environment.



#### Q-Vac

Product no.	Rail connection	Quick connection	1,5m compressed air hose included	Standard	Packing size (pcs)
57966	•	-	•	SS	1
57967	_	•	-	SS	1
57974	•	-	•	DIN	1
57975	-	•	-	DIN	1

#### **Q-Vac accessories**

Product no.	Product	Packing size (pcs)
57978	Q-Vac service pack	1
57969	Special silencer	1
57964	Special silencer + Q-Vac service pack	1
57979	Compressed Air Hose 3m	1



57978



# Serres Nemo

### Creating value disposal-by-disposal

Serres Nemo fluid disposal equipment for Serres suction bags promotes safer, smarter and more cost-efficient fluid management in hospitals, creating value disposal-by-disposal.

Serres Nemo is designed for on-site disposal of fluid medical waste. As waste disposal costs apply only to empty suction bags rather than fluid waste, hospitals benefit from up to 97% cost savings in fluid disposal. From a hygiene point of view, Serres Nemo cleans up fluid disposal by minimizing risk of contamination.

Connected to a water and sewage line, Serres Nemo flushes the contents of the Serres suction bag into the sewer in only 20 seconds. At the end of the cycle, the empty Serres suction bag is disposed in accordance with hospital-specific instructions.

Serres Nemo fits into tight spaces with its functional design and compact form. Daily cleaning of the equipment is made easy with the washing tray.

Product name	Serres Nemo
Intended use	Emptying Serres 2000ml and 3000ml standard suction bags
Connections	Cold water R ½" Sewer DN 50 Electricity: Earthed plug 230V/50Hz, 10A
Material	Stainless steel, plastic
Dimensions	Height 1010–1060mm Width 330mm Depth 630–730mm
Weight	Approx. 60kg
Water consumption	8 liters per cycle

## The benefits of Serres Nemo

## Value

Serres Nemo generates value with every use by creating up to 97% cost savings in waste disposal.

## Hygiene

Serres Nemo makes fluid disposal cleaner with safely capped Serres suction bags emptied in a sealed container.

## Convenience

Serres Nemo speeds up your everyday workflow with an emptying cycle of only 20 seconds



#### Serres Nemo device

Product no.	Product name	Packing size (pcs)
Product numbers available from your reseller	Serres Nemo	1

#### Serres Nemo disposables

Product no.	Product name	Packing size (pcs)
Product numbers available from your reseller	Washing tray	40



## FLUID MANAGEMENT

# Serres Saga

# Suction and fluid management made smart

The rise of ambulatory and endoscopic surgeries increases fluid volumes in operations, and smart solutions are needed to reduce risks and regain efficiency.

Serres Saga is a perfect fit for large volume procedures in fields like urology, orthopedics and gynecology, as its collection capacity can be expanded with empty liners while continuing the procedure.

Serres Saga improves fluid management in the OR by controlling suction, offering unlimited collection capacity, monitoring fluid amounts automatically and solidifying fluid waste on the spot. It takes away distractions from healthcare professionals' daily workflow.

# Check with your local distributor for availability in your country.

Product name	Serres Saga® Fluid Management System
Intended use	Serres Saga Fluid Management System is intended to be used in the operating room to collect surgical fluid and to measure the volume differential between irrigated and collected surgical fluid.
Equipment classification	Class I Medical Electrical equipment; Type CF applied part
Mode of operation	Continuous surgical suction 10 - 80 kPa High vacuum / High flow device
Connections	Power connection: Earthed plug 100-240 V AC 50/60 Hz Power consumption: 330 VA Vacuum connection: connected with different vacuum hoses provided within the system, to EN ISO 7396-1:2016 compliant medical gas pipeline system or to a vacuum pump.
Material	Aluminium, steel, plastic
Dimensions	Height 1500 - 2050 mm (+/- 10mm) Width 583 mm Depth 965 mm
Weight (empty)	121 kg
Initial collection capacity	36 liters (6 x 6 L canisters)
Irrigation pole capacity	Max 10 L per pole

## The benefits of Serres Saga

# Collect large fluid volumes efficiently

Serres Saga offers powerful collection features with a two-channel system for efficient and silent suction, both at the surgical site and around it.

### Expand to fit every case

Serres Saga's initial 36-liter collection capacity can be expanded without interrupting suction with on-the-fly replacement of suction liners.

## Control from start to finish

Serres Saga helps manage risks of excessive liquid absorption for the patient by reducing possibilities for human error and displaying real- time data monitoring of irrigation and collection amounts with liquid buildup alerts. All with easy to use touchscreen controls.



#### Serres Saga device

Product no.	Product name
58100	Control unit
58101	Cart incl. 6 canisters
58118	Irrigation pole (optional; 1 or 2 per control unit)
58119	AutoGel software license (optional; for solidifying agent distribution)
Various	Vacuum hoses complying with different local standards. Check with your local distributor.
58115	Suction canister with lid 6000 mL Packing size: 6 units





58115

58102





58104

#### Serres Saga disposables

Product no.	Product name	Packing size (pcs)
58102	Suction liner, 6000 ml	72
58103	Single-patient manifold	36
58104	Solidifying agent cartridge 0,6 kg	12



# Solutions made smart for the environment

We make healthcare more sustainable by designing solutions that help decrease 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.

# Smart across the healthcare lifecycle

## 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.

## Disposal

Minimizing waste and the Serres Nemo waste disposal equipment significantly decrease the carbon footprint of fluid waste disposal.



# serres

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# Pioneering smart fluid management

Our expertise has centered on fluid collection since the 1970s. From the start, our sharp focus has allowed us to pioneer new ways of working, creating systems for smart fluid management.

When we talk about fluid management, we take a holistic approach to the entire process from suction to disposal, and even further. Today, we create solutions for all stages of liquid management – tracking, collecting and disposing of fluid waste. The backbone of our product portfolio is our integrated Serres fluid management system.

As the number of operations involving large quantities of liquid has increased rapidly in recent years, so has the need for improved fluid management. To address this need, we have created Serres Saga.

Conventional medical fluid waste solutions often bring costs and risks that take valuable time away from patient care and treatment. Serres looks to prevent these issues with smart solutions that make treatment pathways as hygienic, safe, sustainable and efficient as possible. As a result of our reseach into safe and efficient waste disposal, we have created Serres Nemo.

When we at Serres do our part, people who rely on our solutions can better focus where it matters.