COLO Science
Laboratory & Scientific Equipment

COLO.SCIENCE | TECHNICAL SPECIFICATION

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MANIVAC S

Vacuum Membrane Filtration Manifold | Stainless Steel 316L | 1–6 places

The **MANIVAC S** series is a stainless steel **vacuum membrane filtration manifold** for filtering liquid samples through **47 mm and 50 mm membranes** — the standard technique for counting microorganisms in water, food and beverages. It is configured with **1 to 6 filtration places** and funnels of **100, 250, 300 or 500 ml**. Funnels, membrane supports and the vacuum manifold are made of **AISI 316L stainless steel**, fully **autoclavable at 121 °C** and suitable for **flame sterilisation**. Each place has its own **valve for independent opening and flow regulation**, and a **sintered stainless steel support** gives uniform flow across the whole membrane.

MANIVAC 1S–6S | 1–6 places | 100 / 250 / 300 / 500 ml | 47 / 50 mm membranes | SS 316L | Autoclavable 121 °C | Flame sterilisable | Sintered SS support

Typical applications: drinking water and water supply control, bottled and mineral water, food and beverage microbiology, dairy, breweries and soft drinks, pharmaceutical purified water and microbial limit testing, environmental and surface water monitoring, and particle and suspended solids analysis.

Document type: Technical Specification Sheet
Product family: Vacuum filtration — Lab filtration and purification
Series / product code: MANIVAC 1S–6S | PRO5024 (6 places)
Format: A4 landscape | COLO.Science TechSpec v1.1



PLACES	FUNNELS	CONTACT
1–6	100–500 ml	sales@colo.si

Membrane filtration in stainless steel, from one to six places

Product overview

Configuration

- **1, 2, 3, 4, 5 or 6** filtration places on one manifold.
- Funnels of **100, 250, 300 or 500 ml**, chosen to match the sample volume.
- Takes **47 mm and 50 mm** membrane filters.
- Places can be equipped and used independently.

Filtration and flow control

- **Sintered stainless steel membrane support** — uniform flow across the whole membrane surface.
- **Individual valve per place**: independent opening and flow regulation.
- Threaded quick connection of the funnel — no clamp, fast assembly.
- Each funnel has its own **stainless steel lid** against secondary contamination.

Material and sterilisation

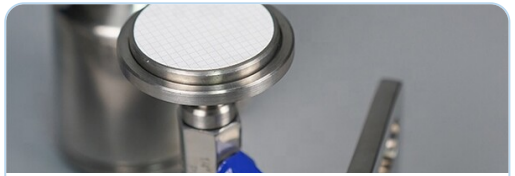
- Funnels, supports, valves and manifold in **AISI 316L stainless steel**.
- **Complete autoclavability** at **121 °C**.
- **Flame sterilisation** of funnels and supports between samples.
- Dry-heat sterilisation in a drying oven is also possible.

Vacuum system

- Common stainless steel **vacuum manifold** with hose connection.
- Works with any laboratory diaphragm vacuum pump.
- Optional oil-free **VACUU-CDT30** pump, 30 L/min.
- Filtrate collection and safety flask on request.



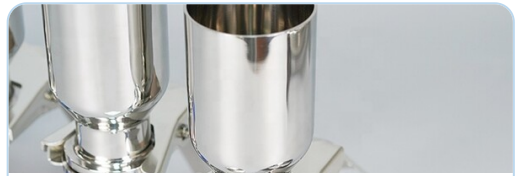
Sintered SS membrane support



Membrane on support, individual valve



SS 316L funnel with lid



Funnels on the vacuum manifold

What the MANIVAC S is for

In membrane filtration, a measured sample volume is drawn through a membrane that retains the microorganisms; the membrane is then placed on a culture medium and the colonies are counted. The MANIVAC S filters **up to six samples in parallel**, each under its own valve, in stainless steel 316L funnels **sterilised by autoclave or flame** between samples — built for routine water, food and beverage laboratories.

1–6 places, 100–500 ml funnels, 47/50 mm membranes, SS 316L

Configurations

Model	Filtration places	Funnel volume	Membrane Ø	Valves
MANIVAC1S	1	100 / 250 / 300 / 500 ml	47 / 50 mm	1
MANIVAC2S	2	100 / 250 / 300 / 500 ml	47 / 50 mm	2, independent
MANIVAC3S	3	100 / 250 / 300 / 500 ml	47 / 50 mm	3, independent
MANIVAC4S	4	100 / 250 / 300 / 500 ml	47 / 50 mm	4, independent
MANIVAC5S	5	100 / 250 / 300 / 500 ml	47 / 50 mm	5, independent
MANIVAC6S (PRO5024)	6	100 / 250 / 300 / 500 ml	47 / 50 mm	6, independent

Technical specifications

Filtration

Parameter	Value
Filtration places	1, 2, 3, 4, 5 or 6
Funnel volume	100, 250, 300 or 500 ml
Membrane diameter	47 mm and 50 mm
Membrane support	Sintered stainless steel, uniform flow
Funnel connection	Threaded quick connection, no clamp
Funnel lid	Individual, stainless steel
Flow control	Individual valve per place, independent opening and regulation

Material, sterilisation and vacuum

Parameter	Value
Material	AISI 316L stainless steel (funnels, supports, manifold)
Autoclaving	Complete, 121 °C
Other sterilisation	Flame; dry heat (drying oven)
Vacuum connection	Hose connection on the manifold
Vacuum source	Lab diaphragm vacuum pump (optional VACUU-CDT30)
Dimensions	According to configuration, in the quotation

Delivery and options

Item	Description	Supply
Stainless steel vacuum manifold	1–6 places, individual valves	Included
Funnels with lids	SS 316L, 100 / 250 / 300 / 500 ml	Included
Membrane supports	Sintered stainless steel, 47 / 50 mm	Included

Item	Description	Supply
VACUU-CDT30 vacuum pump	Oil-free diaphragm pump, 2 PTFE heads, 30 L/min	Optional
Collection / safety flask, tubing	Filtrate collection, pump protection	On request
Membrane filters, spare funnels	47 / 50 mm membranes; other funnel volumes	On request

Before ordering: specify the number of filtration places, the funnel volume, the membrane diameter (47 or 50 mm) and whether a vacuum pump and filtrate collection flask should be supplied. The delivered configuration is confirmed in the COLO.Science quotation.

MANUFACTURER AND SUPPORT

COLO Lab Experts

Polje ob Sotli 4, SI-3255, Slovenia

Selection guidance: tell us how many samples you filter per run, the sample volume, the membrane diameter and the methods you follow. COLO.Science will propose the number of places, the funnel volume and a matching vacuum pump.

QUICK CONTACT

Web: colo.si

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Series: MANIVAC 1S–6S · PRO5024

COLO.SCIENCE | MANIVAC S SUPPORT

How many places, which funnel?

Choose the number of places by the samples you filter in one run: 1–2 places for occasional work, 3 places for routine laboratories, 6 places for high-throughput water and food testing. Choose the funnel by the sample volume: 100 ml for the standard 100 ml water sample, 250–300 ml for beverages and larger volumes, 500 ml for low-count samples. Open only the valves of the places in use, so the vacuum stays stable, and sterilise funnels and supports by flame or autoclave between samples.

MAIN LAB CONSUMABLES NAVIGATION

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Official configuration notice: This document is provided for orientation and model selection. It does not replace the binding specification, delivered configuration, validation protocol or acceptance criteria confirmed in the official COLO.Science quotation, proforma invoice, order confirmation or manufacturer-approved technical offer. Confirm the number of places, funnel volume, membrane diameter, accessories and certification requirement for the specific order. Specifications may change without notice.