

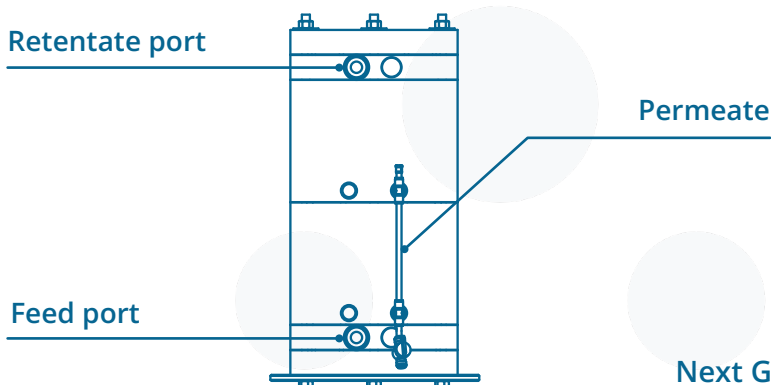
Vibro-I

Industrial Ultra- & Microfiltration

From Experimental Work to Full-Scale Manufacturing

Vibro-I is engineered for seamless scale-up across pilot and production operations. The platform bridges development trials, process optimization, and industrial deployment with a modular design that supports membrane areas from 2.5 m² up to 80 m² per standalone unit.

Vibro-I enables anything from small pilot campaigns to high-throughput production systems, with flexible configurations in series or parallel, batch or continuous operation. Systems can be expanded with multiple units as needed, providing the scalability, configurability, and process flexibility required to adapt, intensify, and optimize filtration performance as your process evolves.



Vibro-I Cartridge

Operational Range

Operating pressure	0 - 4 bar(g) at 5 - 35 °C
	0 - 3 bar(g) at 5 - 55 °C
	0 - 1 bar(g) at up to 80 °C
pH range	1 - 13 (membrane dependent)
Temperature range	5 - 80 °C
Viscosity range	1 - 1000 cP
Configurable membrane	1 kDa UF - 1.2 µm MF



Next Generation Filtration

Sani Membranes' Vibro® Membrane Filtration (VMF) technology is designed to transform pharmaceutical filtration. With its unique vibration-based anti-fouling mechanism, VMF ensures uniform, controllable TMP, low shear, and exceptional performance – all in a compact, fully scalable system.

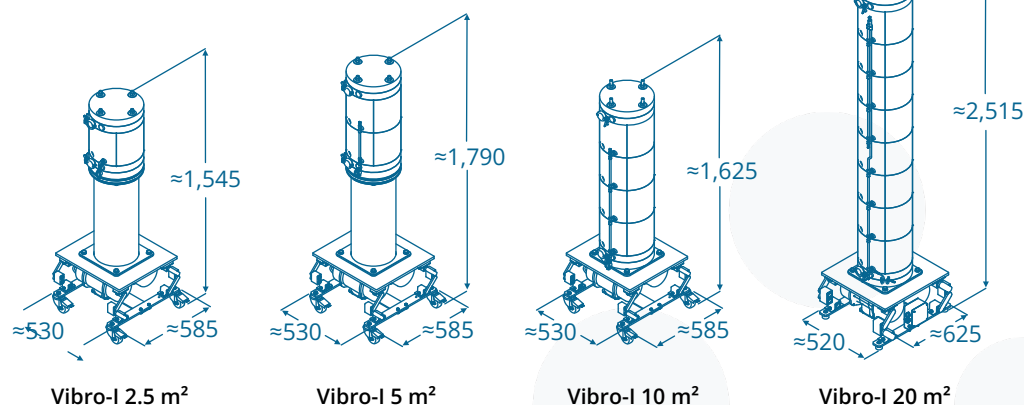
Purpose-built for continuous and connected bioprocessing, VMF increases product yield, improves process economy, and delivers a flexible, one-stop platform for multiple filtration steps – backed by Danish innovation and uncompromising quality.

Vibro-I

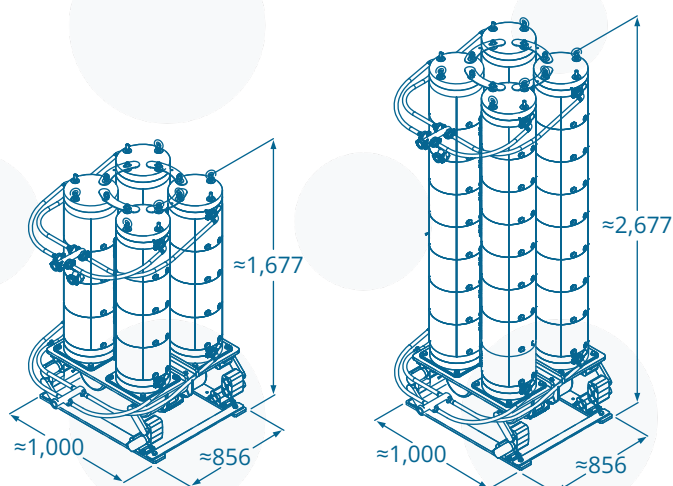
Industrial Ultra- & Microfiltration

Vibro-I Drive

Mechanical Specifications



	Vibro-I 2.5 m²	Vibro-I 5 m²	Vibro-I 10 m²	Vibro-I 20 m²
Membrane area	2.5 m²	5 m²	10 m²	20 m²
Interface connections (Feed (F), Retentate (R), Permeate (P))	(F, R) Triclamp* ¹ , (P) Ø10 mm (OD) Push-In or Mini Triclamp* ²	(F, R) Triclamp* ¹ , (P) Ø10 mm (OD) Push-In or Mini Triclamp* ²	(F, R) Triclamp* ¹ , (P) Ø10 mm (OD) Push-In or Mini Triclamp* ²	(F, R) Triclamp* ¹ , (P) Ø12 mm (OD) Push-In or Mini Triclamp* ²
System weight (full)	≈ 160 kg	≈ 180 kg	≈ 175 kg	≈ 265 kg
Cartridge weight (empty)	≈ 33 kg	≈ 46 kg	≈ 73 kg	≈ 125 kg
Internal retentate volume	5.5 L	9.5 L	17.5 L	33.5 L
Power supply requirements	400 VAC, 50 Hz, 540 W	400 VAC, 50 Hz, 540 W	400 VAC, 50 Hz, 540 W	400 VAC, 50 Hz, 1240 W



	Vibro-I 40 m²	Vibro-I 80 m²
Cartridge membrane area	40 m² (4 x 10m²)	80 m² (4 x 20m²)
Interface connections (Feed (F), Retentate (R), Permeate (P))	(F, R) 2 x Triclamp manifold* ⁴ , (P) 1 x Permeate manifold* ³	(F, R) 2 x Triclamp manifold* ⁴ , (P) 1 x Permeate manifold* ³
System weight (full)	≈ 645 kg	≈ 905 kg
Cartridge weight (empty)	4 x 73 kg	4 x 125 kg
Internal retentate volume	70 L	134 L
Installed power	400 VAC, 50 Hz, 3140 W	400 VAC, 50 Hz, 3140 W

Connection dimensions

