

VMF | Vibro® Membrane Filtration



Vibro-I

Industrial Ultra- & Microfiltration



Next generation filtration

Vibro-I Filtration System

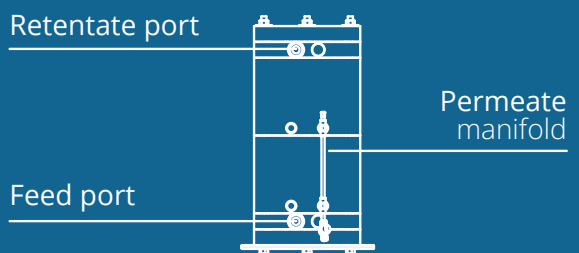
The Vibro-I is a high-performance industrial filtration system designed to transform pharmaceutical filtration. With its unique vibration-based anti-fouling mechanism, Vibro® VMF ensures uniform, controllable TMP, low shear, and exceptional performance — all in a compact, fully scalable system.

Purpose-built for continuous and connected bioprocessing, Vibro® 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.

Each Vibro® system consists of a Vibro-I Drive and one or more Cartridge(s) which is mounted on the Vibro-I Drive — forming a robust, efficient and reliable platform for industrial GMP filtration needs.

Vibro-I also stands out from conventional filtration technologies as an exceptionally energy-efficient solution, combining high yield and throughput with lower operating costs.

Vibro® Cartridge Design




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

 **Ideal feed volume**
from 50 L

 **Configurable membrane**
From 1 kDa UF to 3 µm MF

 **Membrane area**
2.5m² to 80m² units

SANI

Membranes

Curious? Let's connect.



Michael Juul Jensen

Global Sales and Process Tech Manager

+45 5116 9818

mij@sanimembranes.com



Adam Poulsen

Pharma Key Account Manager

+45 5376 1497

apo@sanimembranes.com

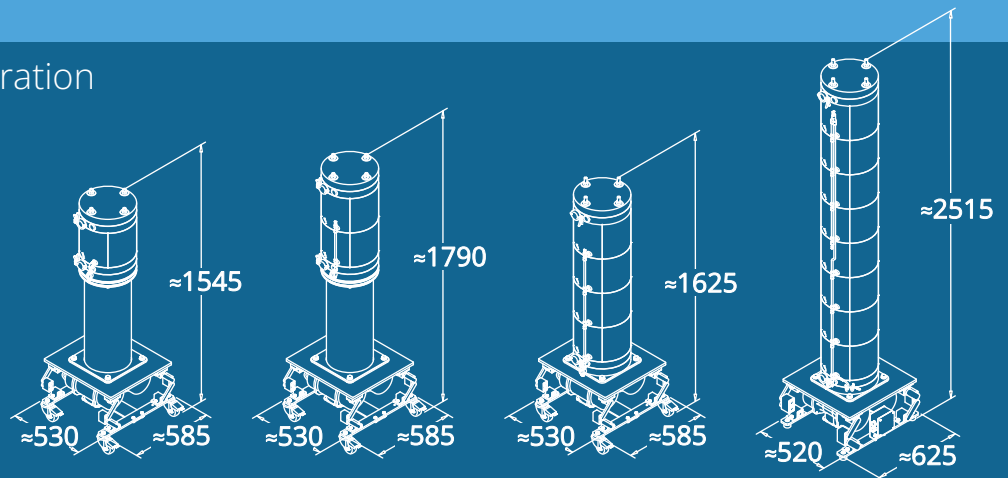


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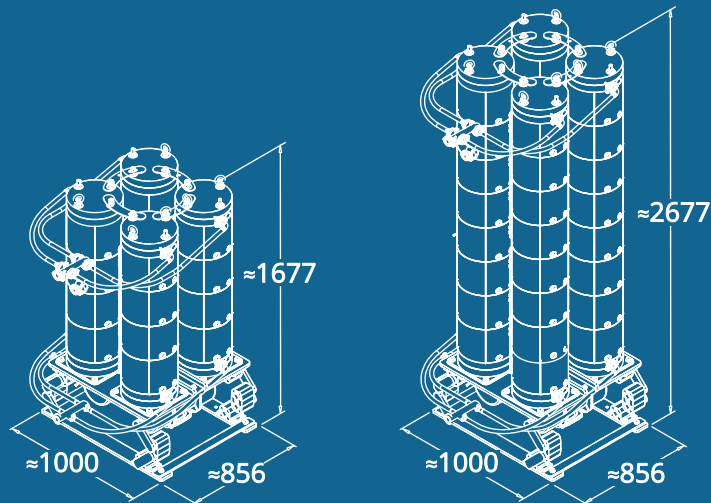
Vibro-I

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Specifications



	Vibro-I 2.5 m ²	Vibro-I 5 m ²	Vibro-I 10 m ²	Vibro-I 20 m ²
Cartridge membrane area	2.5 m ²	5 m ²	10 m ²	20 m ²
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
Installed power	400 VAC, 50 Hz, 540 W	400 VAC, 50 Hz, 540 W	400 VAC, 50 Hz, 540 W	400 VAC, 50 Hz, 1240 W



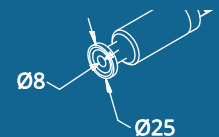
	Vibro-I 40 m ²	Vibro-I 80 m ²
Cartridge membrane area	40 m ² (4 x 10m ²)	80 m ² (4 x 20m ²)
Interface connections (Feed (F), Retentate (R), Permeate (P))	(F, R) 2 x Triclamp manifold*4, (P) 1 x Permeate manifold*3 or 16 x Mini Triclamp*2	(F, R) 2 x Triclamp manifold*4, (P) 1 x Permeate manifold*3 or 32 x Mini Triclamp*2
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

*1 Feed / Retentate



*2 Permeate Mini Triclamp



*3 Permeate Manifold



*4 Triclamp Manifold

