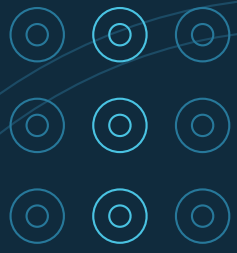
TECHNICAL CATALOGUE / ENGLISH

PVDF ultrafiltration

Outside-in hollow-fibre membrane modules



A clear comparison of six membrane modules, with operating conditions, connections and complete engineering drawings.

6	0.02 µm	34.8-77
MODULE MODELS	NOMINAL PORE SIZE	M^2 PER MODULE

ENGLISH PRODUCT CATALOGUE | NOVEMBER 2026
Neptuno Water Technology

The PVDF range

Five pressurised VP-series modules and the VI 0470-LS pressurised / submerged module. Compare membrane area, dimensions, weight and connections below.

Model	Area	Ø × length	Empty / full	Connection
VP 0686-RW	50 m^2	165 × 2216 mm	46 / 82 kg	2 in (ANSI)
VP 0767-RW	55.7 m^2	180 × 1919 mm	25 / 47 kg	DN50 / DN40, ANSI
VP 0860-RW	51 m^2	225 × 1860 mm	48 / 83 kg	2 in (ANSI)
VP 0872-RW	72 m^2	200 × 2156 mm	45 / 95 kg	2 / 1.5 in (ANSI)
VP 0880-RW	77 m^2	225 × 2360 mm	61 / 100 kg	2 in (ANSI)
VI 0470-LS	34.8 m^2	119 × 1800 mm	12 / 25 kg	Not stated

Shared membrane technology

Membrane	PVDF (polyvinylidene fluoride), hollow fibre
Nominal pore size / flow	0.02 µm / outside-in
Housing / end cap	UPVC / ABS
VP-series fibre ID / OD	0.7 / 1.3 mm

Stable separation. High-strength, hydrophilic PVDF fibres with a homogeneous sponge structure and multi-layer filtration remove particles, bacteria, viruses and colloids, protecting downstream RO and NF systems.

Effective cleaning. Outside-in flow provides space between fibres for air and water cleaning. Hydrophilic modification supports permeability, fouling resistance and cleaning recovery.

System integration. Suitable for integration with ultrafiltration and microfiltration systems.

Operating conditions

Common parameter	Specified value
Operating pH	1-11
Operating temperature	1-40 °C
Backwash pressure	0.6-2.0 bar
Backwash flux	100 L/(m²·h)
Recommended CIP sodium hypochlorite	≤2000 ppm
Maximum influent particle size	400 µm
Maximum filtration / backwash flux	120 / 120 L/(m²·h)
Maximum feed pressure	6 bar
Maximum backwash pressure	3 bar
Sodium hypochlorite tolerance	≤200,000 ppm·h

Conditions by model

Model	Operating TMP	Max. TMP	CIP pH	Air scour per module
VP 0686-RW	0.4-2.0 bar	3 bar	1-13	5-12 Nm³/h
VP 0767-RW	0.4-2.0 bar	3 bar	1-14	6-12 Nm³/h
VP 0860-RW	0.4-2.0 bar	3 bar	1-13	5-12 Nm³/h
VP 0872-RW	0.4-2.0 bar	3 bar	1-13	5-12 Nm³/h
VP 0880-RW	0.4-2.0 bar	3 bar	1-13	5-12 Nm³/h
VI 0470-LS	0.4-0.6 bar	±1.5 bar	1-13	Not stated

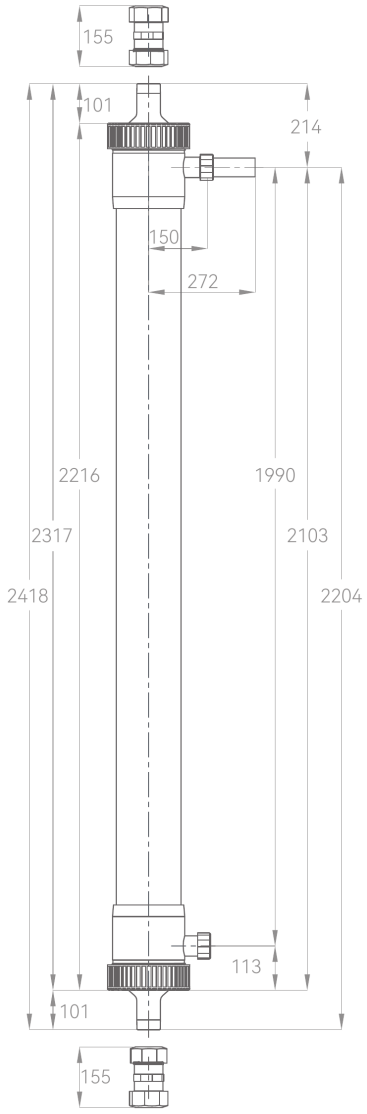
TMP = transmembrane pressure. CIP = cleaning in place. LMH = L/(m²·h). Nm³/h = normal cubic metres per hour.

Dimensions & connections

Dimensions in mm. Engineering drawings are not to scale.

VP 0686-RW

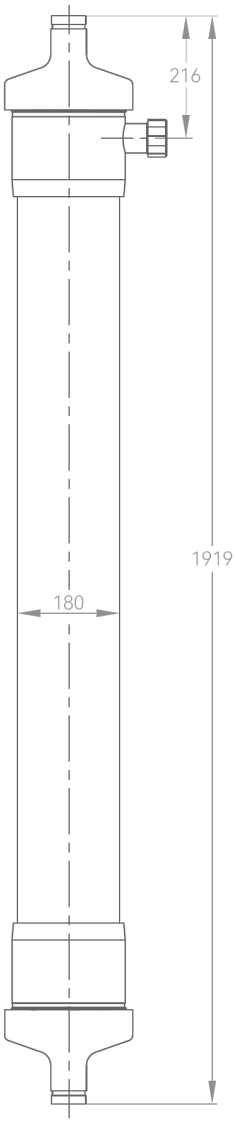
50 m² | Pressurized UF membrane module



Ø × length: 165 × 2216 mm.

VP 0767-RW

55.7 m² | Pressurized UF membrane module



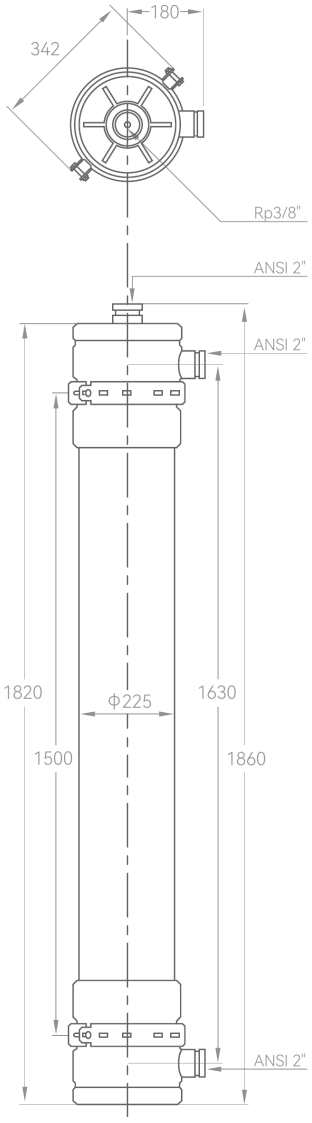
Ø × length: 180 × 1919 mm.

Dimensions & connections

Dimensions in mm. Engineering drawings are not to scale.

VP 0860-RW

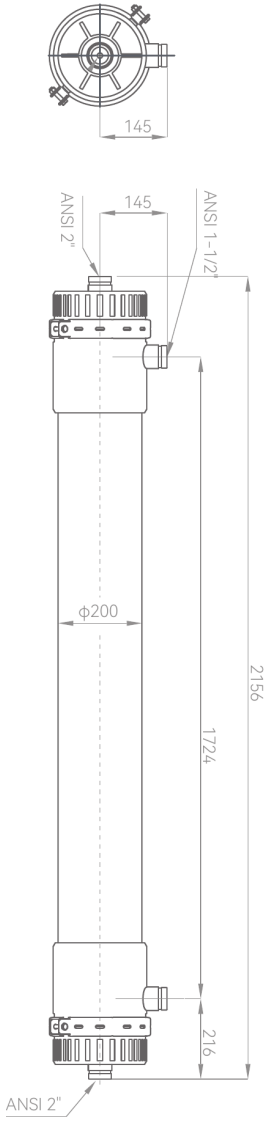
51 m² | Pressurized UF membrane module



Ø × length: 225 × 1860 mm. Air inlet: NPT 3/8 in internal thread / Ø10 mm ferrule connector.

VP 0872-RW

72 m² | Pressurized UF membrane module



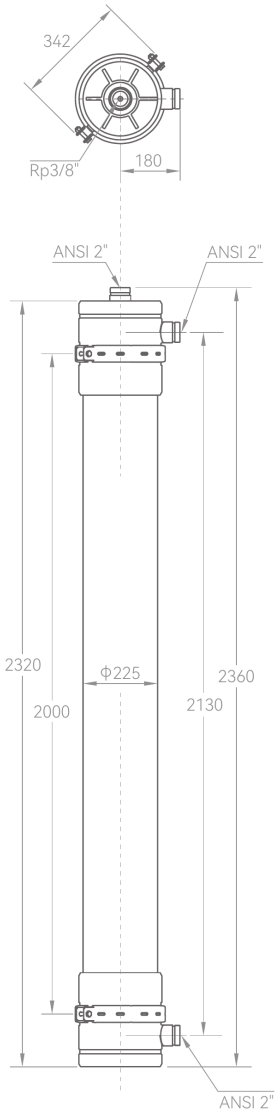
Ø × length: 200 × 2156 mm.

Dimensions & connections

Dimensions in mm. Engineering drawings are not to scale.

VP 0880-RW

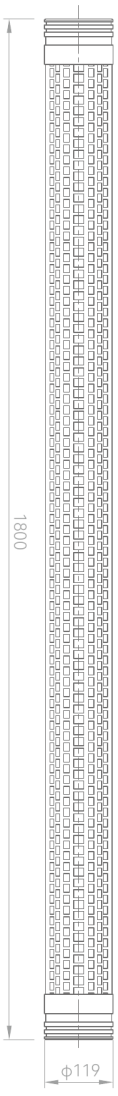
77 m² | Pressurized UF membrane module



Ø × length: 225 × 2360 mm. Air inlet: NPT 3/8 in internal thread / Ø10 mm ferrule connector.

VI 0470-LS

34.8 m² | Pressurized / submerged UF module



Ø × length: 119 × 1800 mm.

Application & membrane care

Before first use or return to service

Check feed-water quality, instruments and operating conditions before initial use and after prolonged shutdown.

Installation and maintenance

Follow the applicable installation, operating and maintenance procedures. Contact Neptuno for technical guidance on harsh conditions or special applications.

Protection during transport and storage

Prevent freezing. Where cold transport or storage is unavoidable, protect the assembly with the specified antifreeze solution and follow the preservation procedures.

Plan the application with Neptuno

Enquiry item	Information to prepare
Water and duty	Feed-water analysis, variability, temperature range and required permeate quality.
Capacity	Design production, recovery target, operating schedule and available footprint.
Integration	Connection sizes, available pressure, air supply, cleaning equipment and downstream process.
Existing system	Module model and quantity, operating trends, cleaning history and upgrade objectives.

NEPTUNO WATER TECHNOLOGY
PVDF module selection and system support
neptunoes.com