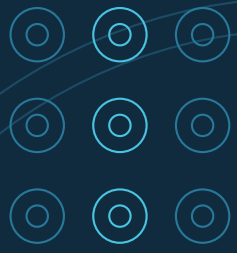
TECHNICAL CATALOGUE / ENGLISH

PES Ultrafiltration

Pressurized inside-out hollow-fiber modules



Inside-out hollow-fiber modules. One family. Six clearly compared models.

6	0.02 µm	40-80 m²
MODELS	NOMINAL PORE SIZE	MEMBRANE AREA

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Six models. One clear comparison.

Inside-out hollow-fiber PES modules for pressurized ultrafiltration.

Model	Area (m^2)	Fiber ID / OD (mm)	Diameter × length (mm)	Connection	Weight empty / full (kg)
EP 0862-X	40	0.8 / 1.4	Ø200 × 1527.5	42.6 mm	25 / 51
EP 0962	55	0.8 / 1.4	Ø219 × 1898	DN65 (ANSI)	32 / 62
EP 1057	50	0.9 / Not specified	Ø250 × 1680	Not specified	35 / 62
EP 1057-T	60	0.9 / 1.5	Ø250 × 1879	Not specified	48 / 102
EP 1067-T	80	0.9 / 1.5	Ø250 × 2101	Not specified	55 / 110
EP 1258	79	0.8 / 1.2	Ø320 × 1543	DN65 (ANSI)	55 / 135

Common construction: PES (polyethersulfone) hollow fibers; UPVC housing / ABS end caps; nominal pore size 0.02 µm. Dimensions are nominal unless a tolerance is shown on the engineering drawing.

Built around hydrophilic PES

01 Stable permeability

High-strength, highly hydrophilic fibers support stable permeability, reduced operating pressure and lower energy use.

02 Fouling resistance

Hydrophilic PES is designed to limit fouling, reduce cleaning frequency and simplify maintenance.

03 Fine-pore separation

Nominal 0.02 µm pores target particles, bacteria, viruses and colloids, providing protection for downstream RO or NF systems.

04 Flexible integration

Uniform inlet flow supports dead-end and crossflow operation. Integrate with UF or microfiltration systems.

ID / OD = fiber internal / external diameter. Engineering dimensions and tolerances: pages 4-6.

Operating ranges and maximum limits

Recommended conditions and absolute limits are identified separately.

Parameter	EP 0862-X EP 0962	EP 1057 EP 1057-T EP 1067-T	EP 1258
Operating TMP (bar)	0.4-2.0	0.1-0.6	0.4-2.0
Backwash pressure (bar)	0.6-2.0	0.3-2.0	0.6-2.0
Backwash flux (LMH)	120-200	120-200	120-250
Max. filtration flux (LMH)	150	200	150
Max. backwash flux (LMH)	300	300	250
Max. feed pressure (bar)	3	5	3
Max. backwash pressure (bar)	3	2.5	2
Max. TMP (bar)	3	2	2.5

Shared conditions for all six models

Parameter	Range / limit	Parameter	Range / limit
Operating pH	2-12	CIP pH	1-13
Temperature	1-40 °C	Influent particle size	400 µm
Recommended CIP sodium hypochlorite	≤500 ppm		

The first three rows give recommended operating conditions. Rows marked “Max.” are operating limits. Maximum filtration flux is a limit; select the design flux for the actual feed water and duty.

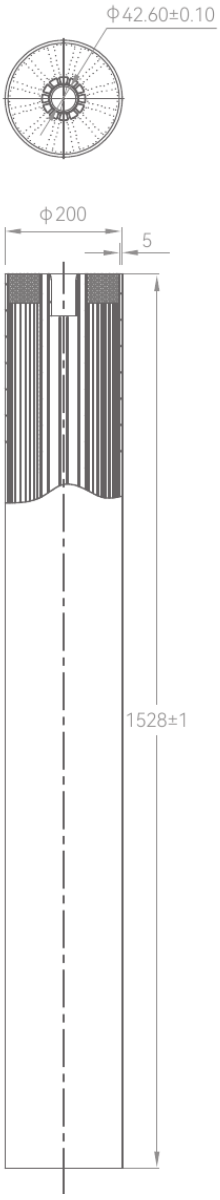
LMH = L/(m²·h). TMP = transmembrane pressure. CIP = clean-in-place. All applicable model-specific limits must be satisfied throughout design, operation and maintenance.

Engineering dimensions

All dimensions in millimetres. Use the indicated datums; drawings are not to scale.

EP 0862-X

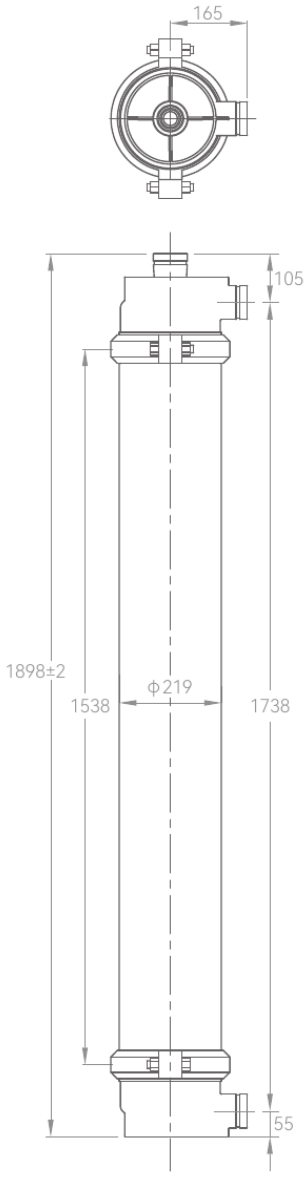
40 m² | Ø200 × 1527.5 mm



Nominal length: 1527.5 mm.
Drawing: 1528 ±1 mm; Ø42.60 ±0.10 mm connection; 5 mm end detail.

EP 0962

55 m² | Ø219 × 1898 mm



Overall 1898 ±2; Ø219; datum spans 1538 and 1738; upper/lower offsets 105 and 55; radial extent 165.

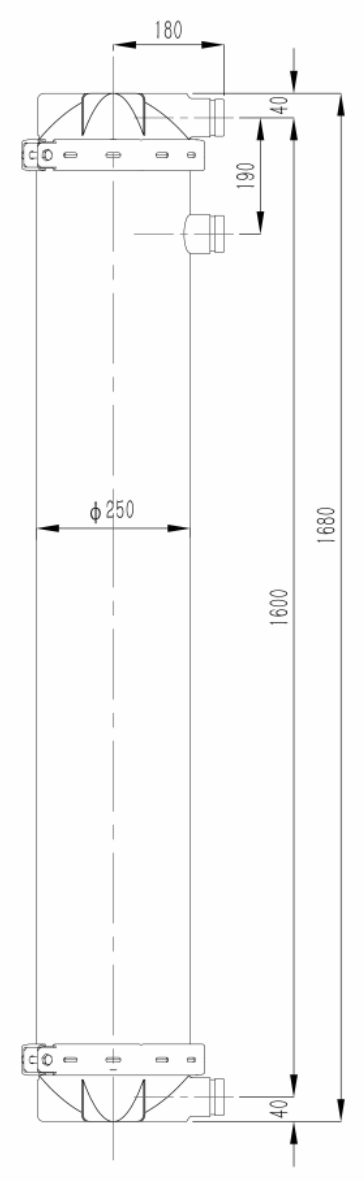
Preserve the drawing datums when checking mechanical fit and pipework interfaces.

Engineering dimensions

All dimensions in millimetres. Use the indicated datums; drawings are not to scale.

EP 1057

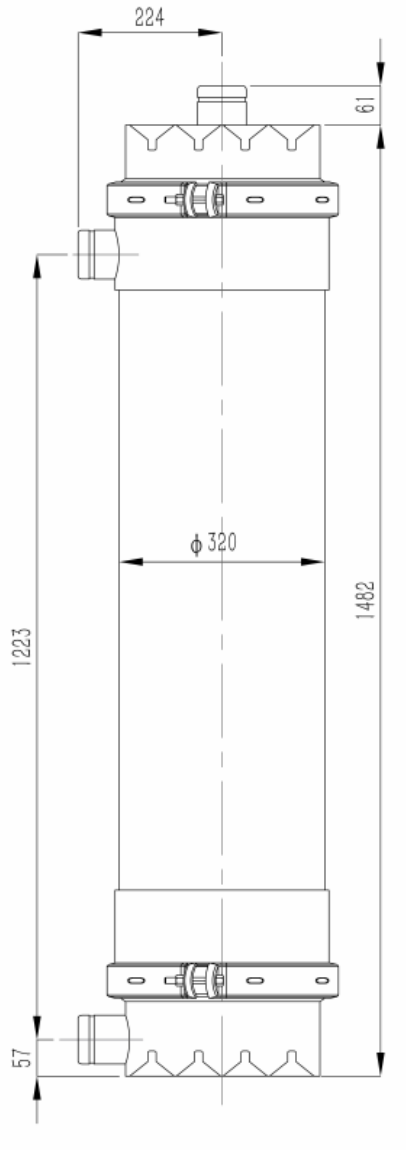
50 m² | Ø250 × 1680 mm



Overall 1680; Ø250; nozzle-centre span 1600; offsets 40 / 40; radial extent 180; side-port spacing 190.

EP 1258

79 m² | Ø320 × 1543 mm



Overall 1543 = body datum 1482 + axial projection 61. Ø320; side-port centres 1223; lower offset 57; radial extent 224.

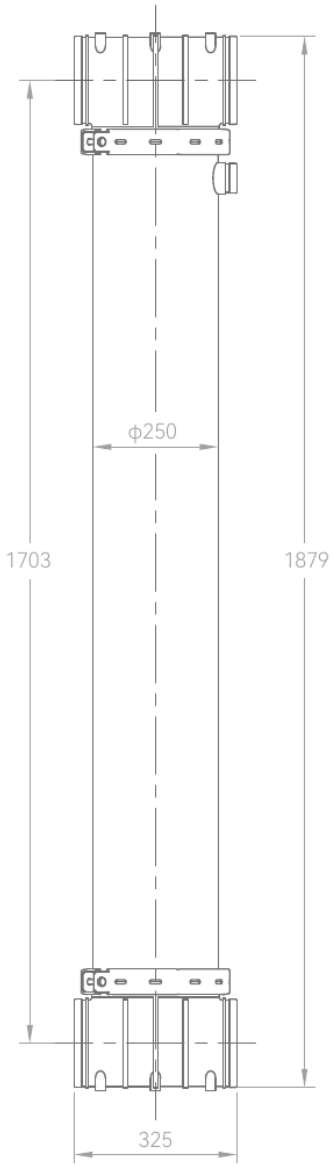
Preserve the drawing datums when checking mechanical fit and pipework interfaces.

Engineering dimensions

All dimensions in millimetres. Use the indicated datums; drawings are not to scale.

EP 1057-T

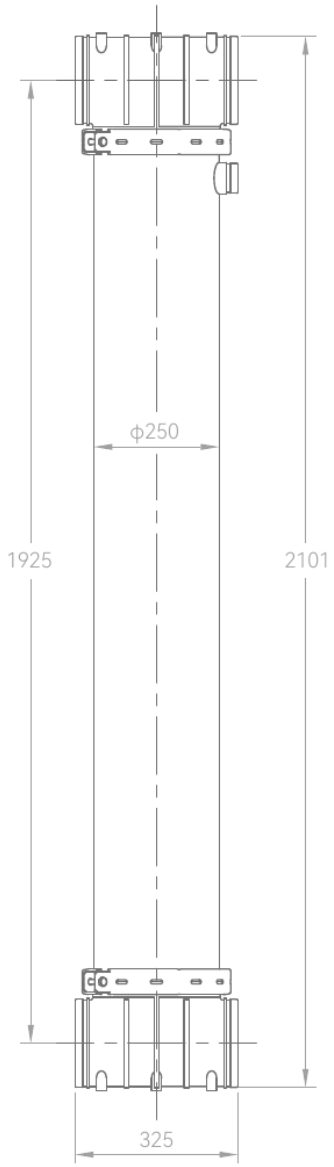
60 m² | Ø250 × 1879 mm



Overall 1879; Ø250; end-cap centreline span 1703; end-cap width 325.

EP 1067-T

80 m² | Ø250 × 2101 mm



Overall 2101; Ø250; end-cap centreline span 1925; end-cap width 325.

Preserve the drawing datums when checking mechanical fit and pipework interfaces.

Operation, handling and support

Practical checks for installation, commissioning and membrane care.

Before first use or after a long shutdown

1. **Check feed quality**
2. **Verify instruments**
3. **Confirm operating range**

Check and confirm feed-water quality and instrumentation before operation. Verify that the actual system conditions remain within the applicable model's operating range.

01 Installation and maintenance

Follow the applicable product technical manual for installation, operating steps and precautions. Apply its requirements throughout design, operation and maintenance.

02 Prevent freezing

Prevent all freezing. For unavoidable cold-region transport or storage, use antifreeze protection in accordance with the product technical manual.

03 Select the operating duty

Keep recommended operating conditions distinct from maximum limits. Select filtration mode and design flux for the feed-water quality and application.

04 Plan special applications

For harsh operating conditions or special duties, contact Neptuno to confirm the technical requirements before installation or operation.

Find the information you need

Model comparison: page 2 | Operating envelope: page 3
EP 0862-X / EP 0962 dimensions: page 4
EP 1057 / EP 1258 dimensions: page 5
EP 1057-T / EP 1067-T dimensions: page 6

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