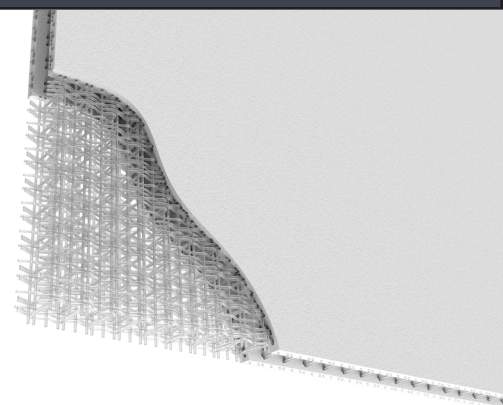


Technical Datasheet - IPC® Flex

The IPC® Flex line is designed for high capacity MBR applications, to optimise the treatment and reuse of industrial and municipal wastewater.

The possibilities are endless. The modular build-up enables stacking of modules into towers. Half units are ideal to efficiently use the available space in containerised systems. The unbreakable membranes inside each unit optimises MBR's flux rate, footprint and uptime. While limiting the aeration demand and operational costs. IPC® Flex is adaptable, reliable, and yet so easy to assemble.



MEMBRANE SPECIFICATIONS

Membrane material

PVDF, proprietary blend

Nominal pore size

40 nm

Backwash

Up to 2.000 mbar

Membrane layer thickness

> 600 µm

Total membrane thickness

> 3,5 mm

Sheet construction

Integrated Permeate Channel- IPC®

Preservative

Glycerol + conservative additive

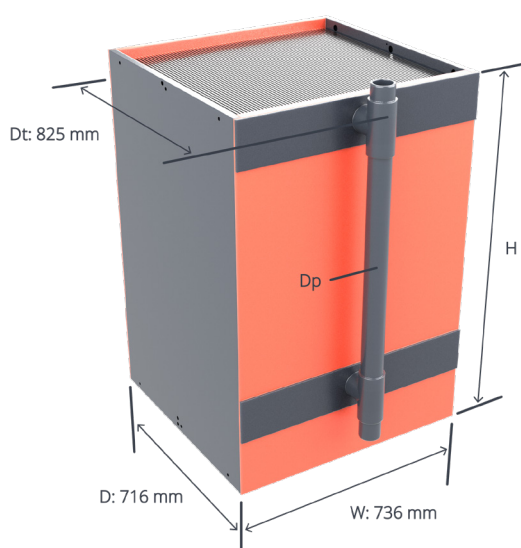
Mechanical stability

Incompressible under operating conditions

Chemical stability

1.000.000 ppmh NaClO @ pH < 11

MODULE SPECIFICATIONS



	IPC® Flex Navy	IPC® Flex Ocean	
Height (mm)	1070	530	1070
Unit size	1	0,5	1
Net membrane area (m²)	76	46	97
Weight dry (kg)	139	76	150
Weight wet max* (kg)	490	245	490
Module materials	PVC, PUR	PVC, PUR, SS	
Diameter Permeate (Dp)	PVC DN50- PN16	PVC DN65- PN16	
	OD 63,3 mm	OD 76,1 mm	

*Estimation based on assumption of 100% sludge deposit between membrane plates



OPERATING PARAMETERS

FILTRATION

**Flux**

20 - 60 l/m².h

Transmembrane pressure

- 20 to - 500 mbar

MLSS

4- 15 g/l

Operating temperature range

1 to 40°C

CLEANING

**Physical cleaning**

Aeration and backwash

Chemical cleaning via permeate channel**Chemically Enhanced Backwash (CEB)**

NaClO: 200- 800 ppm- 1 to 4 times per month

Citric acid: 2.000 ppm- 2 to 4 times per year

Cleaning in Place (CIP)

NaClO: 1.000- 2.000 ppm- 2 to 4 times per year

Citric acid: 5.000 - 10.000 ppm- 2 to 4 times per year

pH-range cleaning

2- 11 (max. 30°C)

BACKWASH

**Flux**

40- 120 l/m².h

Transmembrane pressure

+ 50 to + 1.000 mbar

AERATION

**Membrane diffuser,
medium size bubble aeration****Airflow**

48 m³/h per aeration unit

Typical range definition with regards to flux and TMP for filtration and backwash. Defined operating parameters for nominal process conditions, these may differ depending on application and specific project conditions.

CONTACT

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