

IPC® MINI

The IPC® Mini combines Blue Foot's patented IPC® membrane technology with a robust standalone design, ideally suited for pilot demonstrations or very small-scale applications.

Easy to transport, install and handle, the IPC® Mini provides the reliability and durability of IPC® technology in applications where simplicity and a small footprint are essential.

It's integrated membrane construction eliminates weak interfaces and delamination risk, enabling high backwash resistance and long-term performance.

KEY TECHNICAL FEATURES

PVDF ULTRAFILTRATION MEMBRANE

Industry-proven material of choice for submerged MBR applications.

OPEN FLOW MODULE DESIGN

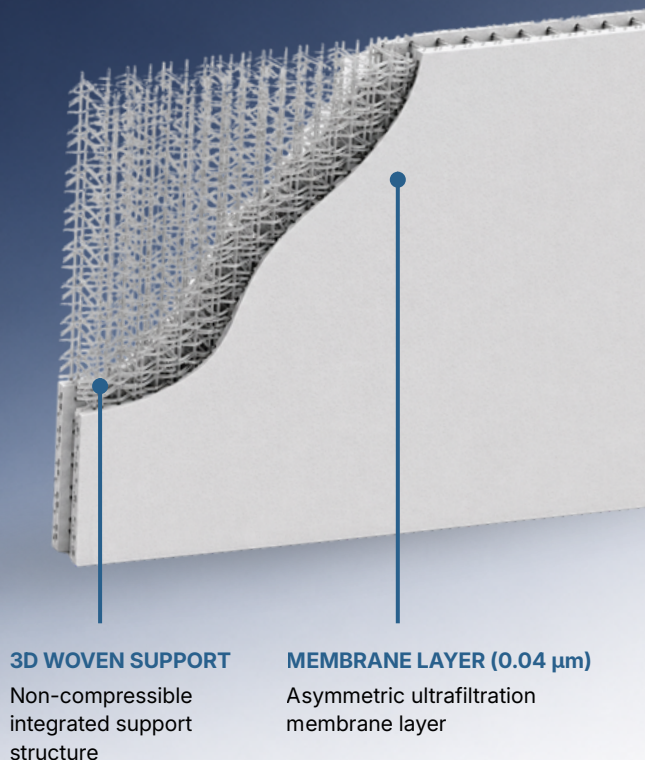
No top or bottom headers required, avoiding ragging and solids accumulation.

BACKWASH UP TO 2 BAR

Robust construction enables high efficient backwashing even under challenging conditions.

EFFECTIVE CLEANING

Even flow distribution across the entire membrane surface for reliable physical cleaning and long-term performance.



IPC® - INTEGRATED PERMEATE CHANNEL

Fully integrated membrane sheet construction where the membrane layer is cast directly into the 3D woven support structure, forming a single composite without bonding interfaces.

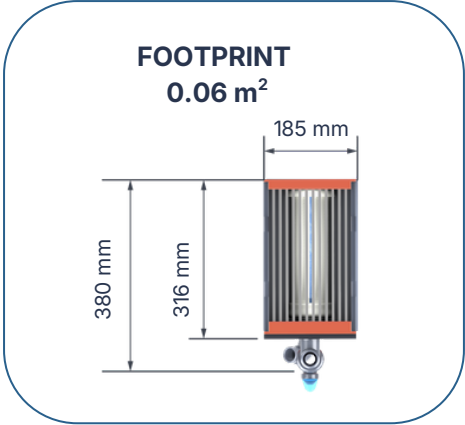
The result is a stronger, more robust membrane designed for superior mechanical strength, reliability and process performance.

IPC® MEMBRANE TECHNICAL SPECIFICATIONS

MEMBRANE TYPE	Ultrafiltration
NOMINAL PORE SIZE	0.04 µm
MEMBRANE MATERIAL	PVDF
MEMBRANE LAYER DEPTH	> 600 µm
MEMBRANE ENVELOPE THICKNESS	3.8 mm
STRUCTURE	Integrated composite with 3D woven structure
BACKWASH PRESSURE	Up to 2 bar
PRESERVATIVE	Glycerol + conservation additive

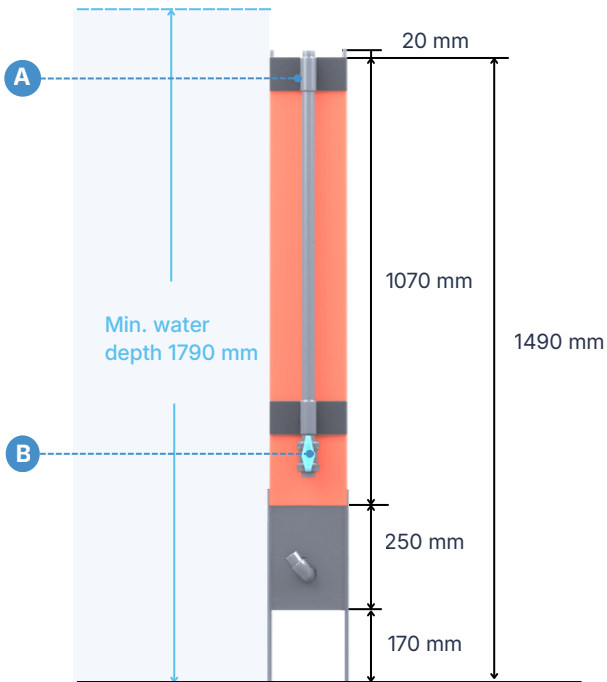
IPC® membrane sheets are integrated into a compact standalone module for easy installation and rapid commissioning. Each IPC® Mini module contains 12 membrane sheets, providing 6 m² of effective membrane area.

The IPC® Mini is specifically designed for low-capacity MBR applications, delivering the robustness and reliability of IPC® membrane technology in a compact, easy-to-handle format for residential and commercial wastewater treatment systems.



IPC® MINI SPECIFICATIONS	
MODULE MATERIALS	PVC, PU, SS316L
STACK CONFIGURATION	1 module
PERMEATE CONNECTION (A)	PVC - DN25 - Ø 33,4 mm
AIR SCOUR CONNECTION (B)	PVC - DN25 - Ø 33,4 mm
NET MEMBRANE AREA	6 m²
LENGTH	185 mm
WIDTH	316 mm
HEIGHT¹	1490 mm
REQUIRED MIN. WATER DEPTH	1790 mm
WEIGHT DRY	32 kg

¹ Including aerator box, excluding lifting device



IPC® MINI TYPICAL OPERATING PARAMETERS			
FILTRATION		CLEANING	
FLUX	20 - 60 l/m².h	PHYSICAL	Aeration and backwash
TMP	-20 to -500 mbar	CEB¹	NaOCl: 500 – 2000 ppm: (1 to 2 times per month)
MLSS	4 - 15 g/l		Citric acid: 0.5-2.0%: (2 to 4 times per year)
OPERATING TEMPERATURE	1 to 40°C	pH-RANGE	2 – 11 (max. 30°C)
BACKWASH		AERATION	
FLUX	40 - 120 l/m².h	MEMBRANE DIFFUSER	medium size bubble aeration
TMP	+50 to +1000 mbar	AIRFLOW	5 m³/h per stack

¹ Chemical Enhanced Backwash: cleaning via permeate channel