



AWP-LOOP™



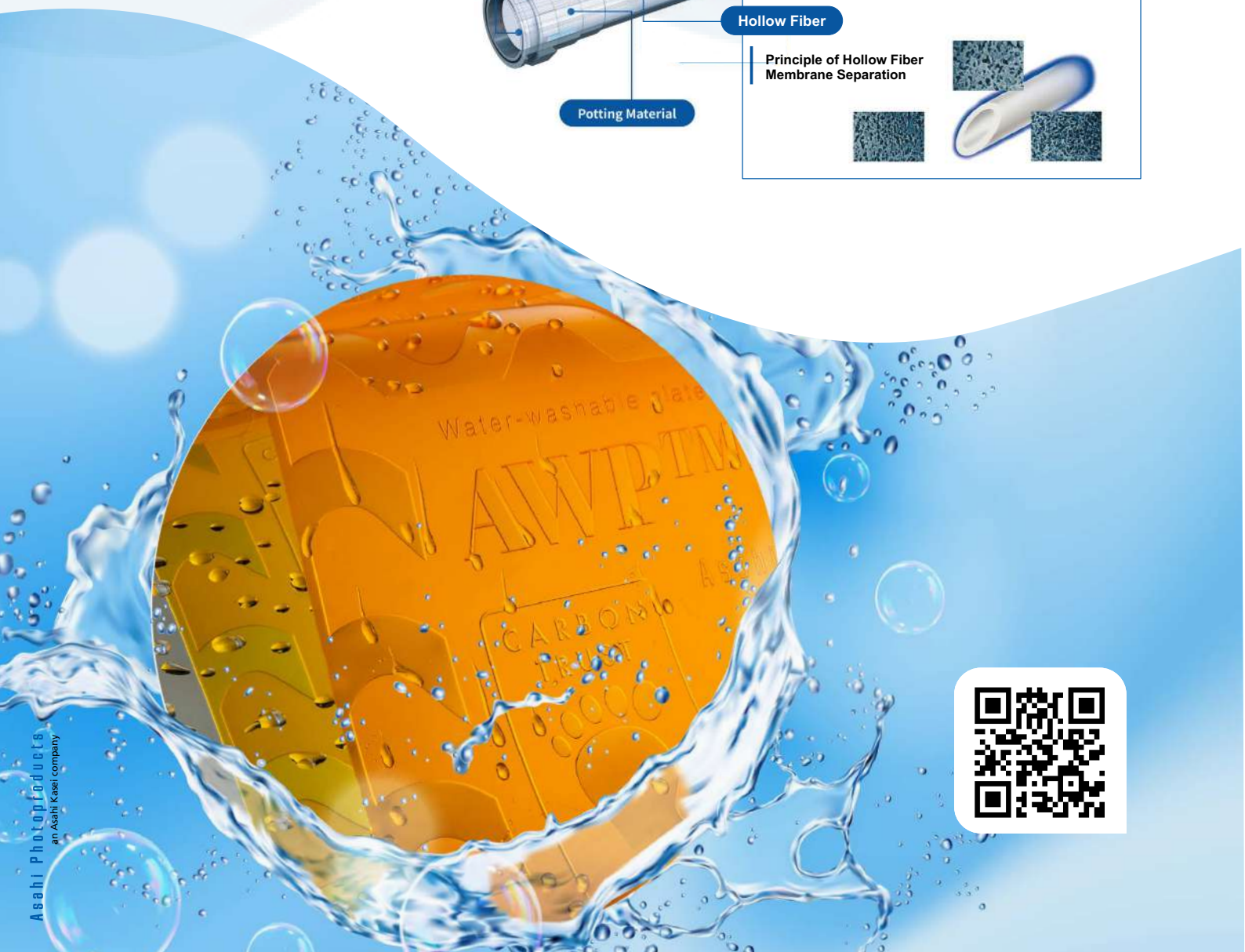
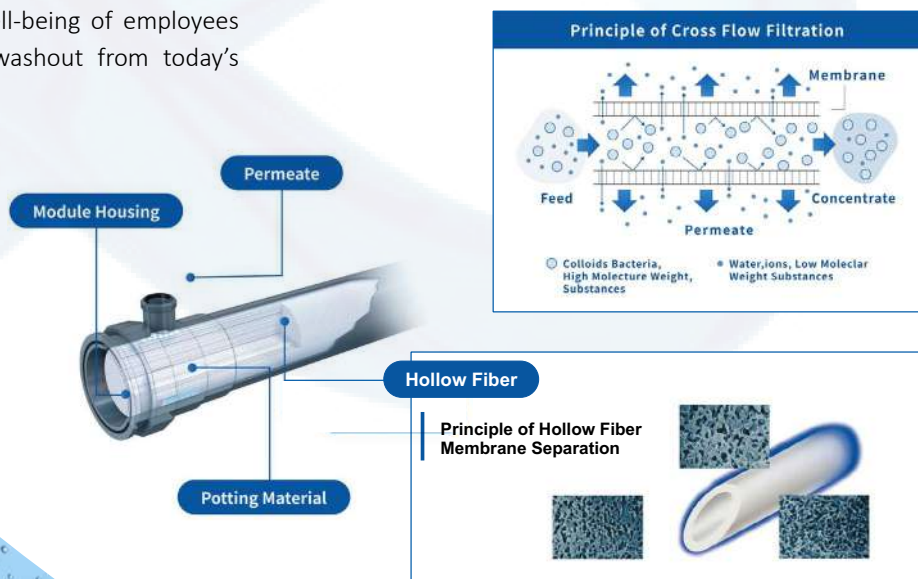
Reduce your wastewater up to **70%**

Cutting Edge Wastewater-Recycling System based on Asahi Kasei **microza** Technology

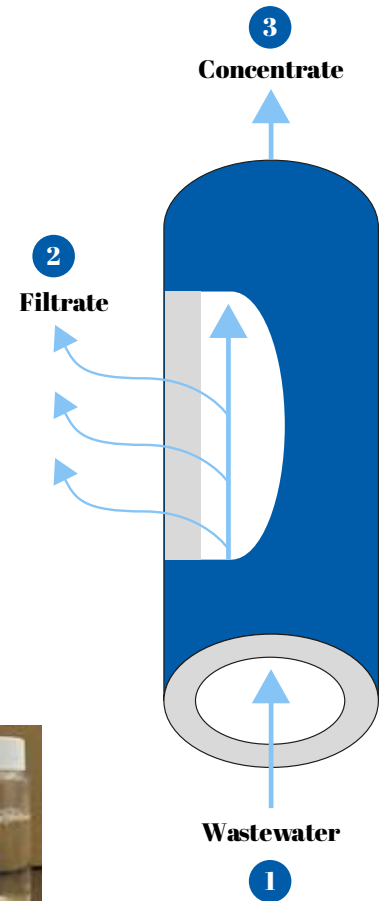
A large majority of flexo platemaking operations today are using hydrocarbon solvent platemaking techniques. Although health and safety at work for these operations is usually controlled in compliance with legal limits, some operators occasionally feel the presence of an unpleasant smell or fatigue within the ambient working environment.

For more than five decades, Asahi Photoproducts has introduced a range of water-wash platemaking technologies to deliver a balanced environmental impact as well as to improve life and living and the well-being of employees by removing VOC solvent-based washout from today's platemaking operations.

One square meter of water-wash flexo plates is produced with an average of approximately 10 liters of water. The AWP-LOOP™ system reduces the wastewater to only approximately 3 liters and maintains 70% of the water inside a closed-loop operation. This innovative solution is another milestone in water-wash platemaking and gives flexo platemaking operations more reasons to change to a Solvent ZERO platemaking environment.



Hollow-fiber filtration principle



1. Dirty wastewater enters a hollow fiber membrane under pressure.
2. Filtered water without debris is reintroduced into the plate processor via the fiber micro channels.
3. Highly concentrated wastewater exits at the end of the hollow fiber material and is collected in a waste tank

Wastewater Recycling System Workflow



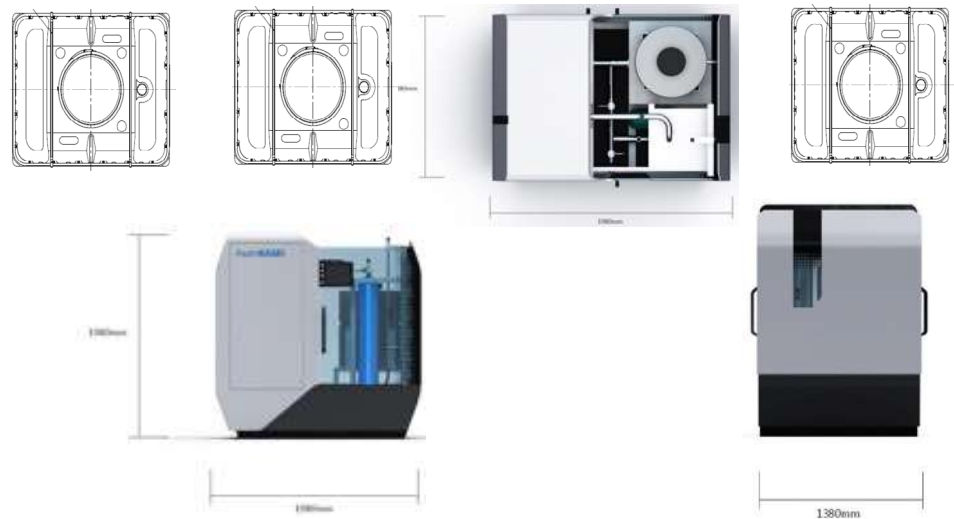
Contact Asahi Photoproducts today to learn more.

Product features include

- 70% of wastewater is recovered for reintroduction to the processor for the new plate washout process
- Remote online performance monitoring¹ via the Internet (Industry 4.0 Ready)
- Recycling of a 200-liter wastewater batch within 5 hours = capacity for 20 m² plate material
- Recovery of 50% of W350 washout detergent. Only 70% of new detergent must be replenished for new platemaking bath.
- Easy access to change filtration module after 1,200 washout cycles
- Recovery of filtration model to 80% performance capacity available
- Concentrated waste solution reduced to only ¼ liquid waste.
- Qualifies for most government sustainability and Industry 4.0 financial aid programs²

1. Depending on type of customer preventive maintenance satisfaction plan
2. Locally to be checked with 3rd party adviser or bank

Typical customer arrangement



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AWP-LOOP™	Specifications
Size (WxLxH) [feet]	Main Unit: 1.38 m X 1.98 m X 1.98 m / 4.53" x 6.5" x 6.5"
Weight	500 KG / 1,100 lbs
Utility	Electric power: 200V - 3 phase - 50Hz Compressive air: over 0.4Mpa Water line: industrial water
Standard certification	CE
Filter Module	Microza® Max pressure: 0.3 Mpa Temperature : Less than 50°C /120 °F
Power	
Electric power consumption	3.0 kwhr
Electric City Cost	0.16 \$/kwhr
Machine electric city cost	0.5 \$/hr
Running cost	3,143 \$ /year