

# hydromars™

## ••• HMP-3000 TO PURIFY THE MOST DIFFICULT WATER

### Inspired by space technology design

Powered by waste heat to reduce resource waste and contribute to sustainable energy production.

HMP-3000 is designed to produce Ultrapure Water (UPW) from the most difficult water feeds - a perfect solution for high-resolution scientific and manufacturing purposes.

When adding mineral ingredients, it also transforms to a perfect drinking water, allowing you to make your individualized water recipe.

#### CONTACT US

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*We developed  
HMP-3000 for you  
to test our solution  
against any type  
of feed water or  
wastewater*



## OPERATION MODES OF HMP-3000

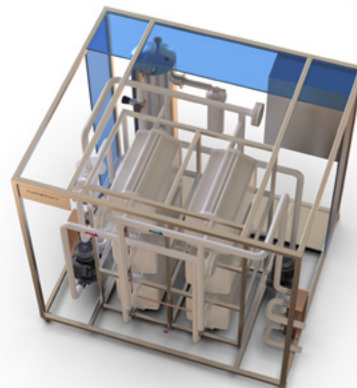
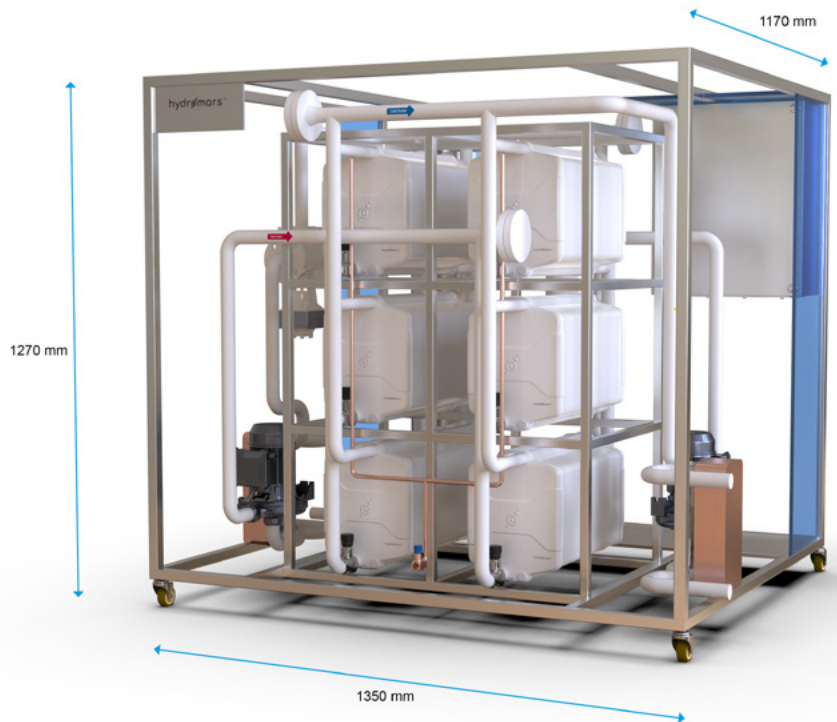
- **Continuous:** Feed water added into the circulating hot water loop at the flowrate equal to or based on the requirement of the concentration, the sum of the UPW production rate and rate of outflow of rejected water.
- **Batch:** Specific volume of feedwater added into the feedwater tank and allowed to concentrate until the system limits or required concentration levels are reached.

### Key features

- Proprietary technology and membrane modules
- Heating and cooling heat exchangers – brazed plate type
- Centrifugal Pumps
- Automated flow monitoring valves and associated piping and fixtures
- Intelligent and sophisticated control system with display using HMI
- Built-in hardware and software redundancy to maximize reliability
- Portable and easy to move with skid

### Operation conditions

	UNIT	VALUE
Feed water flow* <small>*For continuous operation mode</small>	L/h	75-300
Feed water temperature	°C	Depends on customer
Hot water flow	L/h	5400-9000
Hot water inlet temperature	°C	60-98
Hot water return temperature	°C	45-71
Cooling water flow	L/h	5400-9000
Cooling water inlet temperature	°C	20-30
Cooling water return temperature	°C	24-40
Ultrapure water flow	L/h	60-120
Total Suspended Solids	ppb	< 1
Dimensions (L x B x H)* <small>*Modules rack containing 6 modules</small>	mm	1350 x 1170 x 1270
Storage transport temperature	°C	5-25



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