

Product Description

Cooperate's anti-static MBC-004D membrane contactor utilizes a unique PTFE hollow fiber as a dissolved gas medium, ensuring quick and controllable CO₂ dissolving. It effectively maintains system outlet stability, improving gas utilization efficiency and reducing gas consumption.

Features and advantages

- Ultra-clean, no secondary pollution
- High gas dissolution efficiency
- The resistivity of produced water is stable
- Longer component life
- High gas utilization rate, saving gas consumption
- Cooperate's unique PTFE hollow fibertechnology
- Small size, small footprint, large flow rate of membrane contactor

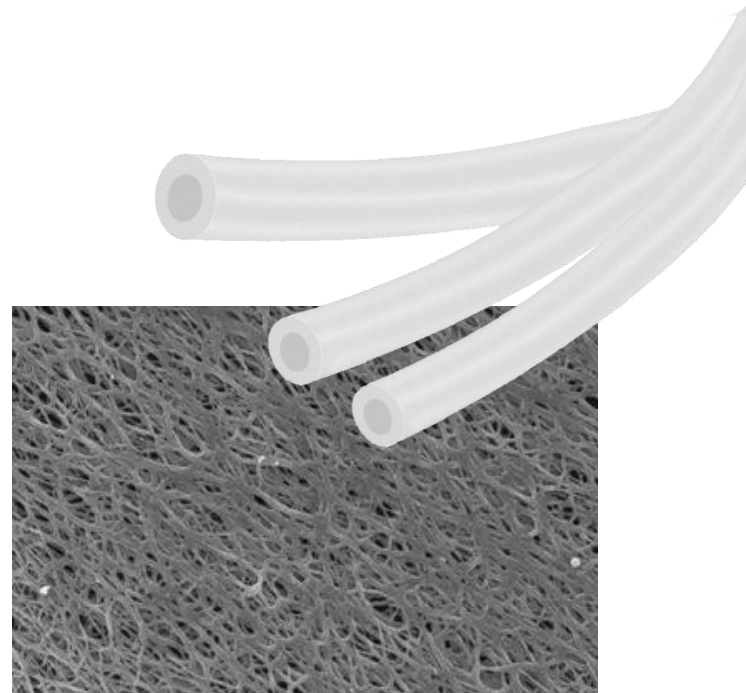
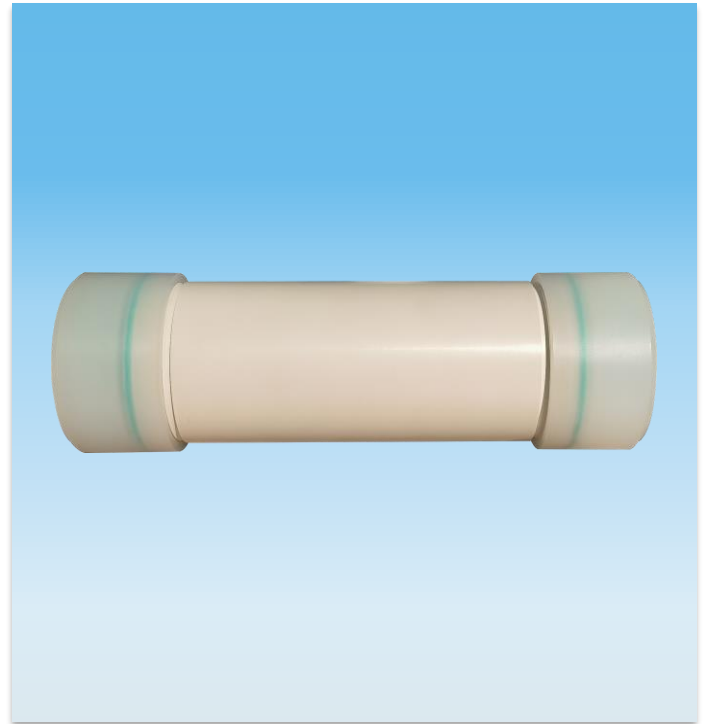
Material

Components	Material
Shell	End cap PP , Cylinder PPO
Membrane	PTFE
Sealing ring	FFKM
Potting	Electronic grade epoxy resin

Specification

Flow rate range	3-400L/h
Membrane area	2.0m ²
Interface	Liquid inlet and outlet RC 3/8
	Gas phase interface RC 1/4
Maximum operating temperature	55 °C /131 °F
Maximum operating pressure	0.3MPa@55° C
Maximum vacuum pressure	-98KPa
Save method	Dry storage

PTFE-MBC-004D membrane contactor



Membrane filaments and electron microscope images

Experimental data

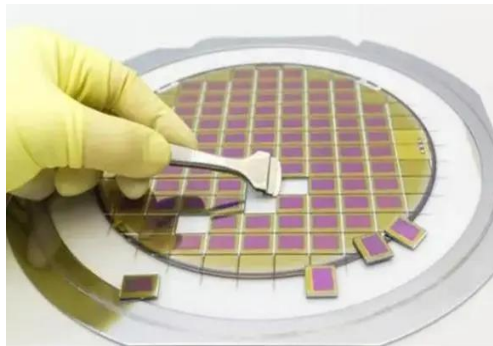
Source water resistance rate (MΩ.cm)	Set resistance value ratio (MΩ.cm)	Source water flow (L/min)	CO ₂ pressure value (Kpa)	Measured resistivity (MΩ.cm)
13.75	0.2	75	100	0.21-0.22
13.75	0.5		20	0.49-0.52
13.75	2		5	1.99-2.10
13.75	0.6	46	10	0.52-0.56
13.75	0.2	16	5	0.21

Note: The test temperature is 25°C , and the test liquid is 13.75MΩ·cm ultrapure water. The above carbon charging efficiency data is the average level curve of this type of membrane contactor, and the deviation between the individual membrane contactor and the average level is within ±3% .

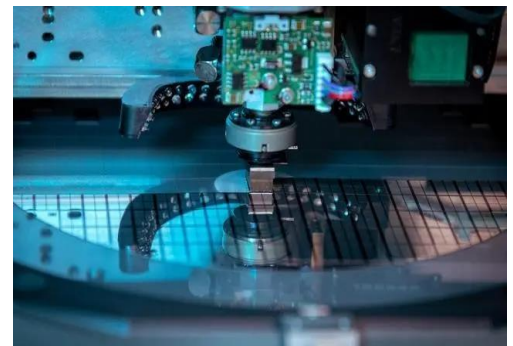
Applications



Microcircuit chip cutting and cleaning



Photomask cutting and cleaning



Wafer cutting and cleaning



Semiconductor silicon wafer cutting and cleaning



Solar cell cutting and cleaning



Controlled ultrapure water resistors for special industries

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Please visit our website: <http://www.coopmem.com/>