

CMF TECHNOLOGY

连续膜过滤技术

Continuous membrane filtration (CMF) represents the latest advancement in membrane filtration technology applicable for fluid separation, water recycling and purification. **MOTIMO** has over 21 PRC patents associated with its propriety backwash method, and is a leading proponent of CMF in the PRC.



Continuous membrane filtration system
连续膜过滤系统

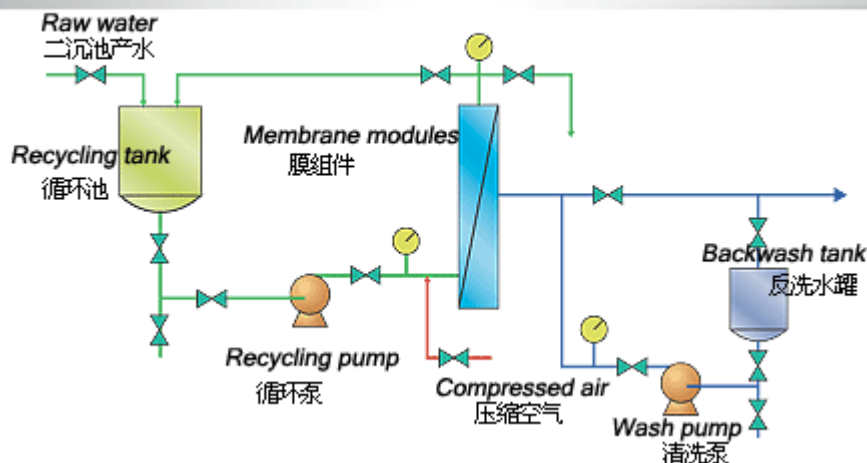
连续膜过滤（CMF）是当前世界上最先进的水处理技术，也是当今世界上水资源再生领域中的一项高新技术，我们拥有此项技术的自主知识产权，相关专利二十一项，保证了我们的技术和产品走在世界的前列，我公司是世界上极少数拥有此项技术的公司之一。

Our CMF device is an automatic process that allows continuous filtration; is delivered in a self contained, compact modular form and is easy to operate. Filtration is an "outsidein" process through the hollow fibers. Backwashing involves periodically reversing the water flow through the membrane (inside-out) at the same time as air is passed through the module. This mixes with the backwashing water and by agitation dislodges pollutants from within the fibers to a separate discharge.



Typical CMF module
典型的 CMF 膜组件装置

Flow diagram for CMF process
CMF 工艺流程图



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MOTIMO's CMF system delivers real benefits to end user clients:

CMF系统具有以下优势:

- Membrane material is PVDF – robust and long lasting
采用聚偏氟乙烯(PVDF)中空纤维膜, 使用寿命长
- High & stable flux for continuous filtration
膜通量高、出水稳定
- Treats less rigorous raw water quality. Product water meets RO system requirement & enhances longevity
对原水水质要求低, 产水SDI符合RO系统的进水要求
- Minimal footprint
系统自动化程度高, 操作简单
- Minimal footprint & reduced equipment maintenance means low
占地面积小、设备维护和运行费用低廉

MOTIMO'S CMF technology is used across Asia in applications including:

CMF技术可以广泛应用于以下领域:

- **Residential Water Supply 居民住宅用水**
Removing bacteria and purifying tap water
自来水除菌及净化
- **Utilities 公用事业用水**
From ground water and surface water source
以地下水或地表水为水源的净化处理
- **Water Resource Research 新水源探索**
Pretreatment for sea water desalination
海水淡化预处理
- **RO Pretreatment 反渗透的预处理**
Pretreatment for Reverse Osmosis systems
大型反渗透系统的前级预处理
- **Municipal Wastewater Re-use 市政污水处理**
Filtrating waste water after biochemical treatment
过滤经生化处理后的污水以达到回用的目的
- **Industrial Water 工业用水**
Purifying & recycling industrial cooling water
工业冷却水的净化回用

TIANJIN MOTIMO MEMBRANE TECHNOLOGY CO.,LTD

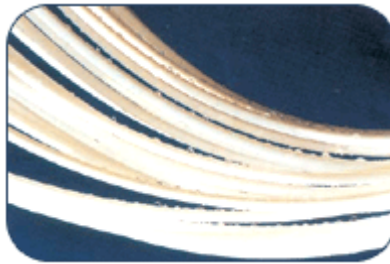
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HOLLOW FIBER MEMBRANE & MODULES

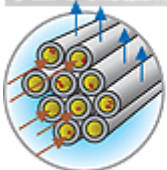
中空纤维膜及其组件

MOTIMO manufactures modules of hollow fiber ultrafiltration (UF) and microfiltration (MF) membrane material. Membrane filtration separates the components of fluid under pressure (influent) into two effluent streams known as permeate and concentrate. The hollow fiber polymeric membrane is a surface filtration media which allows crossflow from "inside-out" or "outside-in" effecting separation in the molecular, macromolecule and partite range. Although using a range of materials including PS, PES and PAN to meet the various requirements of the separation market. **MOTIMO's** particular technical advantage lies with the development of their PVDF (polyvinylidene difluoride) based fibers that have key advanced properties that deliver the following benefits:

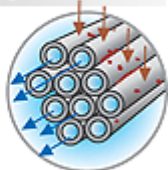


我公司制造各种材质、规格和用途的中空纤维型超滤膜和微滤膜组件，材质为PS、PES、PAN、PVDF、PE等，膜过滤是在压力作用下将料液分离为透过液和浓缩液

Hollow fiber filtration mechanisms 中空纤维膜的过滤方式



Inside-out
内压式



Outside-in
外压式

的过程。中空纤维膜是一种以“内压式”或“外压式”分离的过滤介质。过滤孔径从6K到15K，0.1 μm 、0.2 μm ，规格从实验型到大型工程所需的应用型膜组件，我公司的膜技术广泛应用于解决以下领域的净化、过滤、分离问题：

- 污水深度处理回用
- 饮用水净化
- 地下水、地表水净化
- 大型RO系统的预处理
- 大型冷却循环水的净化
- 制药工业纯化水除热源
- 生物、制药、化工、食品、饮料等领域的液浓缩分离澄清

MOTIMO's module designs vary from small pilot schemes or bespoke laboratory style usage to significant capacity designs for larger scale treatment systems. **MOTIMO's** membrane technology is widely used for filtration solutions in key sectors, such as municipal waste, electronics, food and beverage, medical and pharmaceutical industries.

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膜天膜公司生产的膜组件，可满足从小型实验室装置到大规模应用系统的多种需要。

我公司的膜技术广泛应用于市政污水处理、电子、食品饮料、生物制药等工业领域的分离，浓缩和提纯。

在我公司诸多膜产品中，最具技术优势和竞争力的产品是聚偏氟乙烯（PVDF）中空纤维膜，该产品具有以下优势：

- ✦ Increased chemical resistance,hence longevity of use
化学稳定性好，使用寿命长
- ✦ Improved anti-fouling , Maintaing high flux performance
通量高，抗污染
- ✦ Less cleaning water,therefore reduced running costs
节省清洗用水，运行费用较低
- ✦ Overall reduced operating maintenance costs
低压操作，能耗低，运行费用低廉

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