MF/UF膜による高精度水処理装置
High-precision water treatment equipment with the MF/UF membrane

高精度除濁／浄水化システム
High-precision water clarification and purification system

●ご用途に最適対応する先進のシステムで設計製作いたします

MF/UF膜による高精度水処理の時代です

精密ろ過膜（MF）や限外ろ過膜（UF）の耐久性が向上し、かつ価格が低下した為、従来法の凝沈・砂ろ過に代替するものとして、膜ろ過法による除濁・浄水処理システムが導入期を迎えています。
供給原水、要求される水質等に応じて最適な膜腫、膜システムを選定し、最も効率のよいシステムを設計製作致します。

●We design and manufacture cutting edge systems that operate optimally according to they desired applications and purposes.

Now is the time for high-precision water treatment made possible by using the MF/UF membrane.

Because durability of the microfiltration membrane (MF) and the ultrafiltration membrane (UF) has been increased and their prices have come down, now is the time for introducing water clarification and purification systems that use a membrane filtration method to replace conventional solidified precipitation and sand filtration methods.
We can design and manufacture the optimally efficient types of membranes and membrane systems in accordance with the quality of raw water and the water quality requirements.

用途例

- 工業用水、地下水、河川水等の水質向上（除濁）
- 病原性微生物の除去（クリプトスポリジウム、レジオネラ菌、ジアルジア、ミクロキスティス、大腸菌）
- 廃水の回収再利用、三次処理
- 逆浸透装置の前処理
- イオン交換装置の前処理
- 飲料用水の製造
- 工場内上水道の製造

Application examples

- Improvement of quality of industrial water, groundwater, river water, etc. (clarification)
- Elimination of pathogenic organisms (cryptosporidium, Legionella, Giardia, Microcystis, colon bacillus)
- Collection, reuse, and tertiary treatment of wastewater
- Reverse osmosis equipment pre-treatment
- Ion exchanger pre-treatment
- Production of water for beverages
- Production of in-plant water supply

特長

高精度ろ過
自動ろ過
クリプトスポリジウムの除去
大腸菌の除去

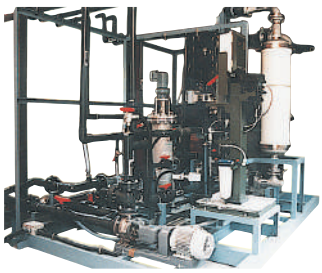
1 極めて高精度のろ過が可能であり処理水質が安定している
2 全自動化が可能
3 従来法に比べ回収率が高く取れる
4 膜の洗浄再利用が可能であり、消耗品が少なくランニングコストが低減する
5 日常のメンテナンスが不要
6 逆洗、バブリング（エアースクラビンク）洗浄が可能で安定したろ過流量が得られる

Advantage

High-precision filtration
Automatic filtration
Elimination of cryptosporidium
Elimination of colon bacillus

1 Extremely high-precision filtration is possible and the quality of treated water is stable.
2 Total automation is possible.
3 The collection rate is higher than that of conventional systems.
4 Membranes can be cleaned and reused, and the number of expendables is small. Running costs are reduced accordingly.
5 Daily maintenance is unnecessary.
6 Backwash cleaning and bubbling (air scrubbing) cleaning are possible, and stable filtration flow is ensured.

用途に応じて最適の膜モジュールを採用します
Adoption of optimal membrane modules for each application


外圧循環式中空糸膜装置
External pressure circulation type hollow-fiber membrane equipment


内圧循環式セラミック膜装置
Internal pressure circulation type ceramic membrane equipment


外圧全ろ過式中空糸膜装置
External pressure dead-end filtration type hollow-fiber membrane equipment


外圧浸漬式中空糸膜装置
External pressure immersion type hollow-fiber membrane equipment


外圧全ろ過式中空糸膜装置
External pressure dead-end filtration type hollow-fiber membrane equipment

岩井ファルマテック株式会社
IWAI PHARMA TECH CO.,LTD.

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high-precision water clarification/purification system

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膜、装置の種類

用途に応じて最適の膜モジュールを採用します

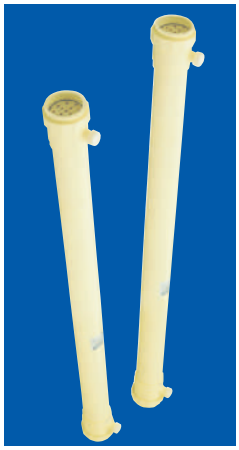
Type of membrane and equipment

Optimal membrane modules can be adopted according to the application.

膜モジュールエレメント
Membrane module element

外圧浸漬式中空糸膜
Eternal pressure immersion type hollow-fiber membrane

内圧循環式中空糸膜
Internal pressure circulation type hollow-fiber membrane



外圧循環式中空糸膜
External pressure circulation type hollow-fiber membrane

内圧循環式セラミック膜
Internal pressure circulation type ceramic membrane

原水質及びご要求水質レベル（0.001～1.0NTU）により下記種類から選定致します
The optimal membrane module is selected from among the following depending on the quality of raw water and required level of water quality (0.001 to 1.0NTU).

膜形状、使用法 Membrane shape, usage	外圧浸漬式中空糸膜 External pressure immersion type hollow-fiber membrane	外圧浸漬式プレート膜 External pressure immersion type plate membrane	外圧循環式中空糸膜 External pressure circulation type hollow-fiber membrane	外圧全ろ過式中空糸膜 External pressure dead-end filtration type hollow-fiber membrane	内圧循環式中空糸膜 Internal pressure circulation type hollow-fiber membrane	内圧循環式セラミック膜 Internal pressure circulation type ceramic membrane
洗浄方式 Cleaning system	ろ液逆洗／バブリング洗浄 Filtrate backwash cleaning/ bubbling cleaning	ろ液逆洗／バブリング洗浄 Filtrate backwash cleaning/ bubbling cleaning	ろ液逆洗／バブリング洗浄 Filtrate backwash cleaning/ bubbling cleaning	ろ液及びエアー逆洗／バブリング洗浄 Filtrate and air backwash cleaning/bubbling cleaning	ろ液逆洗／正逆流／フラッシング洗浄 Filtrate backwash cleaning/forward reverse flow/flushing cleaning	ろ液逆洗／バックパルズ洗浄 Filtrate backwash cleaning/ backpulse cleaning
適応原水質 Applicable raw water quality	高濃度SS水 High-concentration SS water	高濃度SS水 High-concentration SS water	低濃度SS水 Low-concentration SS water	低濃度SS水 Low-concentration SS water	高濃度SS水 High-concentration SS water	高濃度SS水 High-concentration SS water

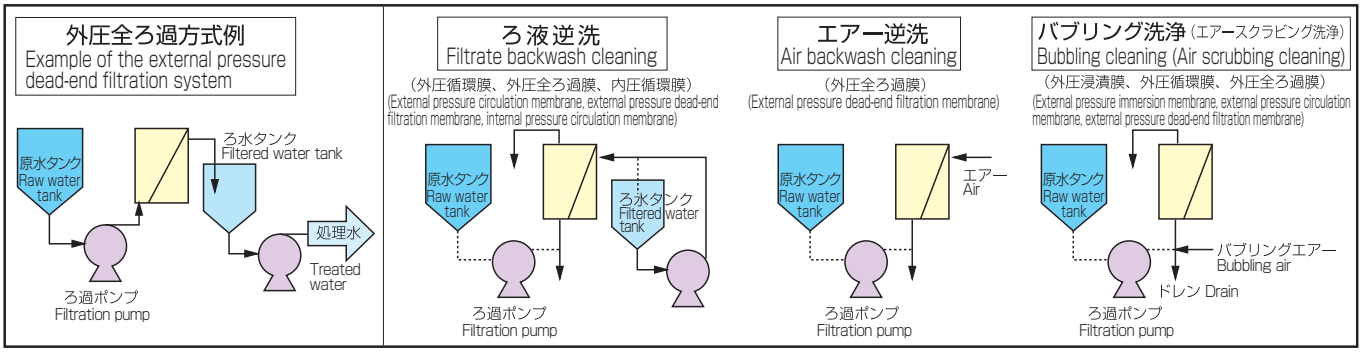
使用例

合併浄化槽からのろ過採水／ばっ気槽からのろ過採水／凝沈砂ろ過の代替／研磨廃水の除濁／微細活性炭の除去／除鉄、除マンガン／中水道・上水道／排水再利用／工水、井水、河川水の浄水化／バクテリア、真菌、原虫類の除去／ROの前処理／イオン交換の前処理

Usage examples

Filtering and collecting water from combined septic tank/ Filtering and collecting water from aeration tank/ Substitution for solidified precipitation sand filtration/ Clarification of polishing wastewater/ Elimination of fine activated carbon/ Elimination of iron and manganese/ Recycled wastewater supply and water supply/ Reuse of drainage water/ Purification of industrial water, well water, and river water/ Elimination of bacteria, fungus, and protozoas/ RO pre-treatment/ Ion exchange pre-treatment

洗浄システム フロー
Cleaning system flow



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