

# ULTRAFILTRATION

## FOR WATER INJECTION / WATER FLOOD

### Our Experience

Eta Process Plant designs, provides, and installs complete customised water injection packages with process guarantees for onshore and offshore applications. With over 40 years of experience globally, Eta maintains project management and quality assurance standards that are in compliance with the leading engineering, procurement, construction, oil and gas company requirements.

Eta's optimised process design tailors height, weight, and power consumption to the specific application and location, while minimising capital, operating, and overall lifetime costs.

Comprehensive project management includes procurement, shipping, installation, and commissioning services. Fully skid-mounted heavy-duty packaged equipment is available for marine and offshore service.

### Our Technologies

Eta offers the following filter media for onshore and offshore applications.

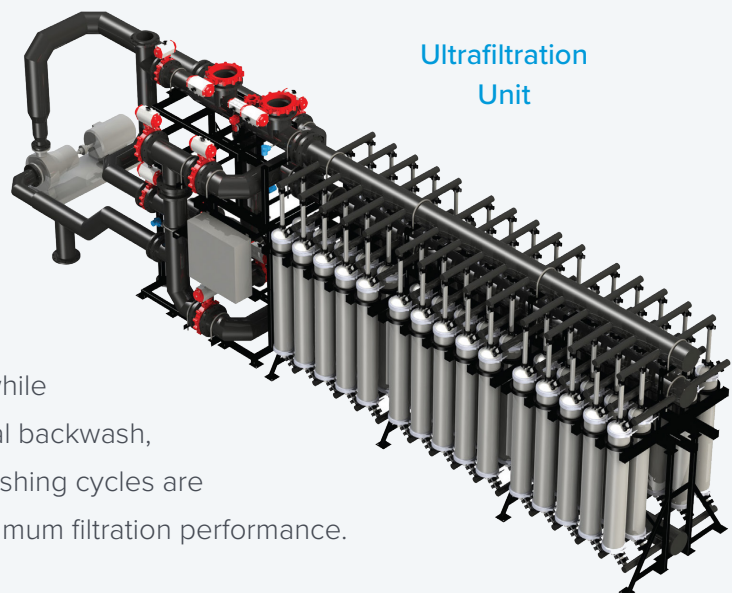
#### ULTRAFILTRATION SYSTEM

Eta's Ultrafiltration system uses hollow fibre membrane elements manufactured by Koch Membrane Systems. Filtration efficiency of  $\leq 0.02 \mu\text{m}$ , under typical conditions, for a range of feedwater from process streams to seawater.

Ultrafiltration systems operate in multiple parallel trains to allow one train to backwash while maintaining the required filtrate output. General backwash, hypochlorite backwash, acid backwash and flushing cycles are fully automatic and sequenced to maintain optimum filtration performance.

#### SYSTEM CONTROL

Local or remote PLC-based control systems and motor controls can be provided for a complete turnkey package.



Ultrafiltration  
Unit

## Continuous Support & Service

Eta's team of experienced engineers offers a wide range of services and will assist with process evaluation and optimisation for new applications.

### SERVICES INCLUDE:

- Replacement elements for an existing system with compatible interface connections for easy exchange.
- Technical support and troubleshooting of existing plant.
- Turnkey Ultrafiltration systems including all ancillary equipment, cartridge prefilters, pumps, controls, panels and chemical dosing systems.
- Installation, commissioning and lifelong health care services.

Eta has extensive experience supplying offshore oil and gas and general process systems, and can meet all QA requirements to fully meet your needs.

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Hollow Fibre  
Membrane Element

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