

# SOUR WATER STRIPPER



## Our Experience

Eta offers customised Sour Water Stripping packages for onshore and offshore applications. Eta maintains project management and quality assurance standards that are in compliance with the requirements of the leading oil and petrochemical companies across the globe.

Eta's optimised process design and comprehensive project management can produce a cost effective turnkey or fully skid-mounted package plant.

Eta's process expertise is backed by the full range of high efficiency KOCH-GLITSCH® tower internals and media.

## Our Technologies

Sour water containing hydrogen sulphide and carbon dioxide is treated in a stripping column by contacting the liquid stream with a sweet gas such as fuel gas.

Through the use of in-house design programs developed over several years, Eta is able to provide stripping units to achieve very low H<sub>2</sub>S and CO<sub>2</sub> levels, even in oily waters (up to 1000 ppm wt oil).

The proportion of H<sub>2</sub>S that is available in its free form is principally dependent on the liquid pH and temperature. As H<sub>2</sub>S and CO<sub>2</sub> are stripped from the water, the pH will rise, reducing the proportion of free H<sub>2</sub>S in the liquid. Eta offers complete design and installation of turnkey sour water stripping systems.

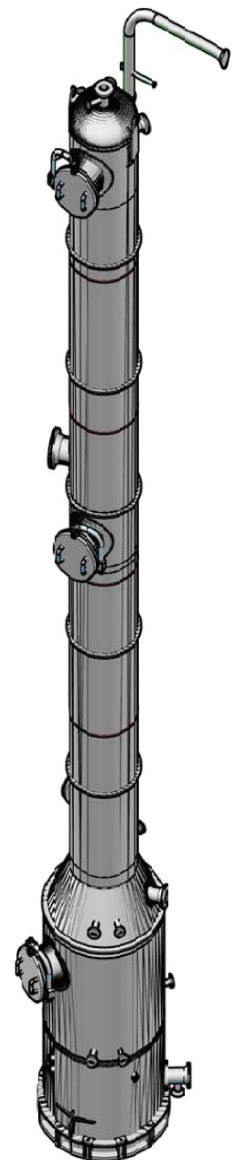
### STRIPPING COLUMN

Packed or trayed columns are supplied to suit the required specifications and operating conditions.

### ACID DOSING SYSTEM

To achieve the required feed water pH, Eta can provide skid-mounted acid dosing systems complete with storage vessels, dosing pumps, valves, instrumentation, and control panel.

Full skid-mounted packages can be supplied incorporating all major equipment items as well as interconnecting pipework, valves, and instrumentation. PLC-based control systems can be mounted directly in the hazardous area or remotely in a safe area. Motor control systems can also be provided for a complete turnkey system.



Typical Sour Water Stripper



## Benefits

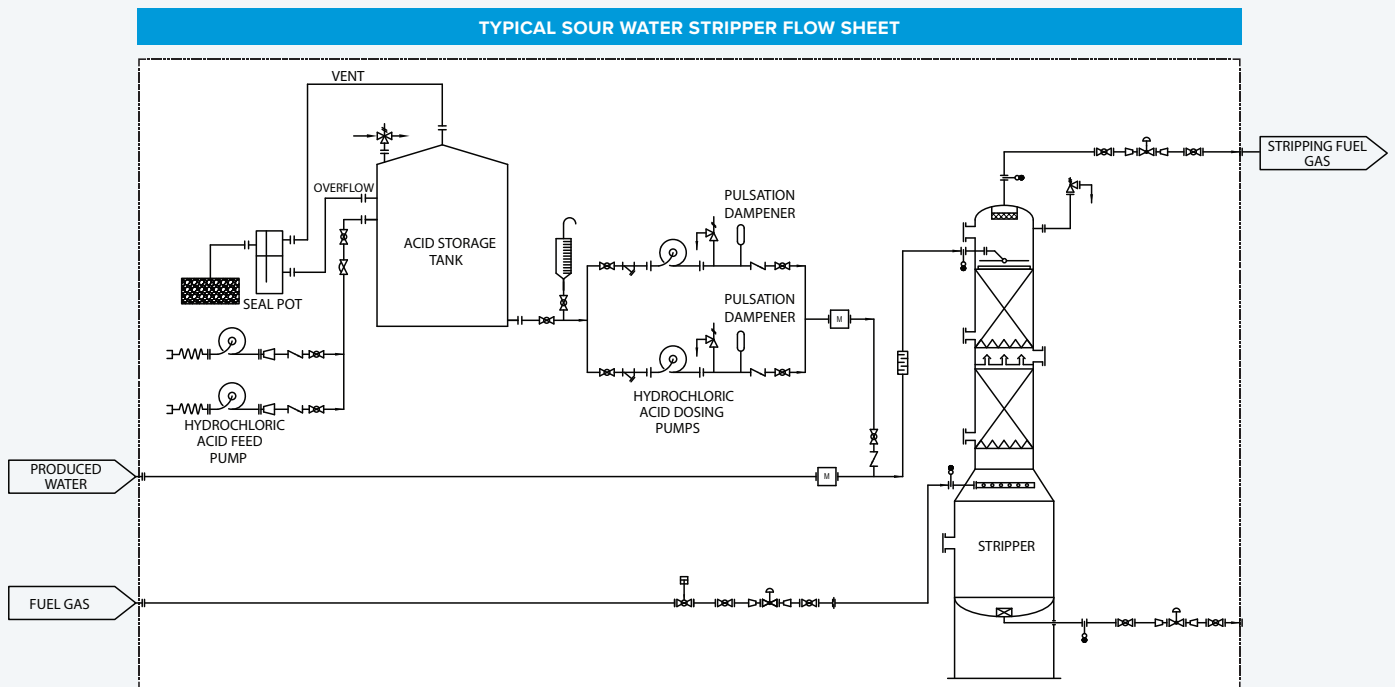
- Customised design
- Design & supply of full PLC control systems and motor controls with user interface via HMI
- Reduced on-site time
- Compact turnkey systems for Platform, FPSO, and onshore installation
- Easy operation and low maintenance
- High efficiency removal
- Ongoing support throughout the life of the equipment

## Continuous Support & Service

Eta's engineers are closely involved in all aspects of your project starting with process evaluation, integration and optimisation, followed by detailed process and mechanical engineering, E&I and design through complete fabrication, assembly, inspection, testing, and commissioning as well as post-commissioning operations service.

## References

Eta has extensive reference lists available upon request.



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