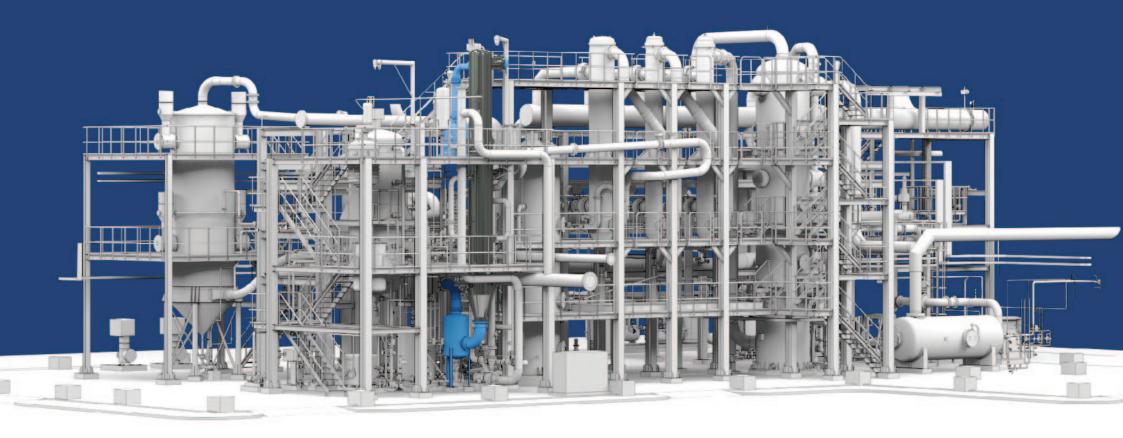
Ballestra Multitube Falling Film Reactor SULPHONEXT

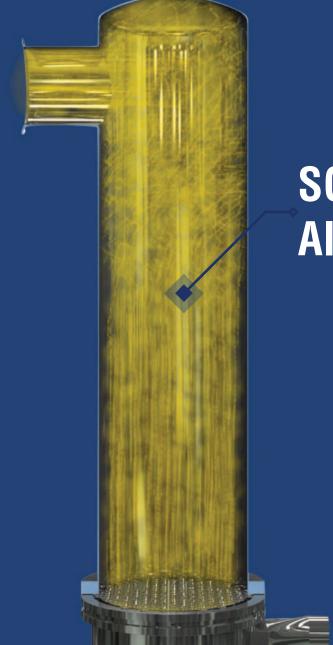






Gas distribution system

- ✓ The Gas collector design is renewed by computational flow dynamics
- ✓ The new geometry allows a more homogeneous and uniform Gas flow
- ✓ The Gas uniformity permits to control the side reactions, extending the production runs, and producing a constant and high product quality.



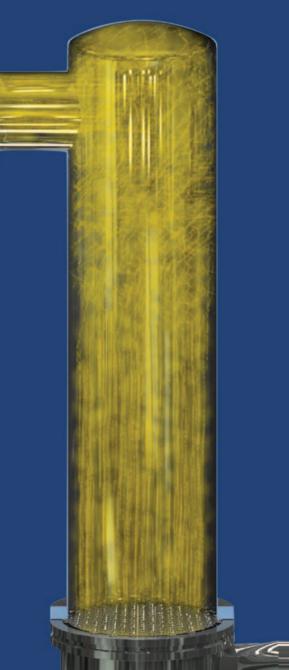
SO₃ GAS / AIR STREAM

Gas distribution system

- HOMOGENEOUS
- **GAS FLOW**







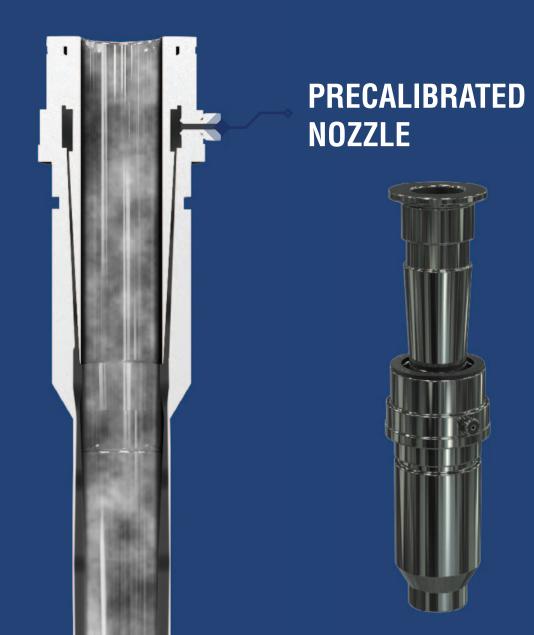






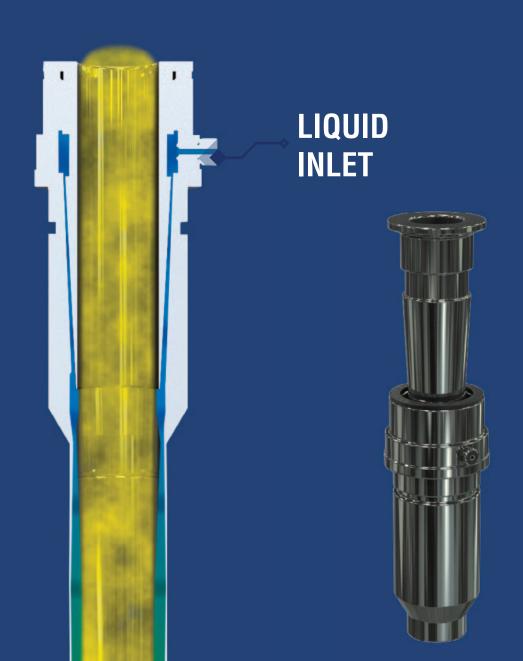
Reactor tube heads

- ✓ The New Reactor Head is equipped with pre-calibrating nozzle
- ✓ The Liquid Flow is homogenous through all the Reactor Heads thanks to the pre-calibrated nozzle
- ✓ The rector calibration is not any longer required
- The calibration is maintained throughout the service life

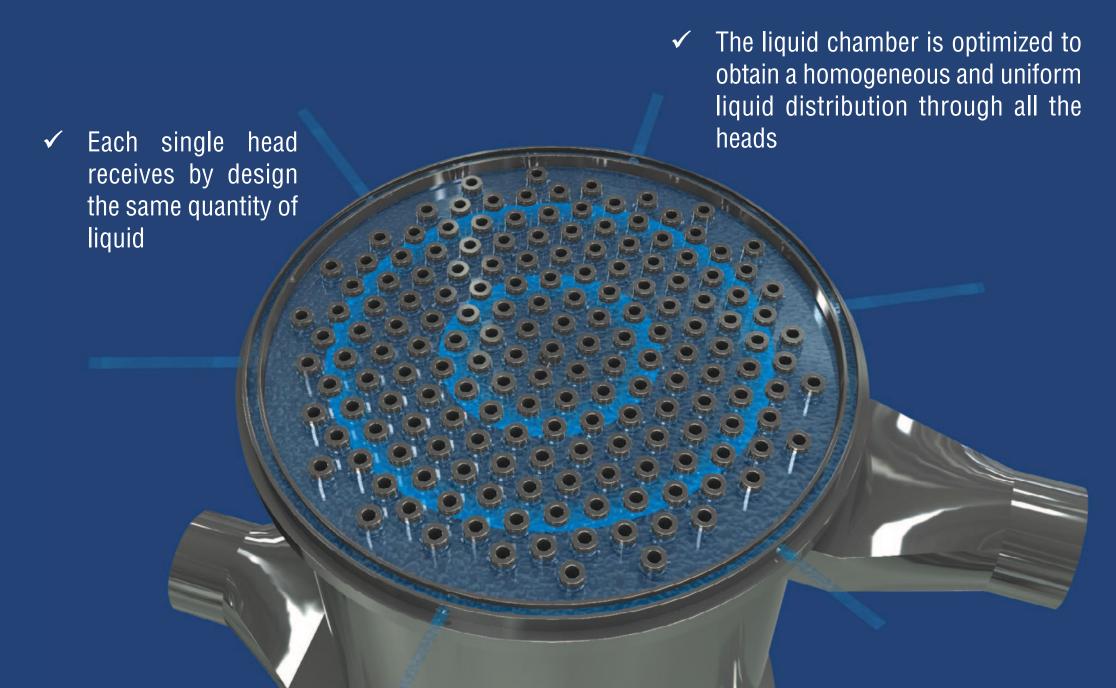


Reactor tube heads

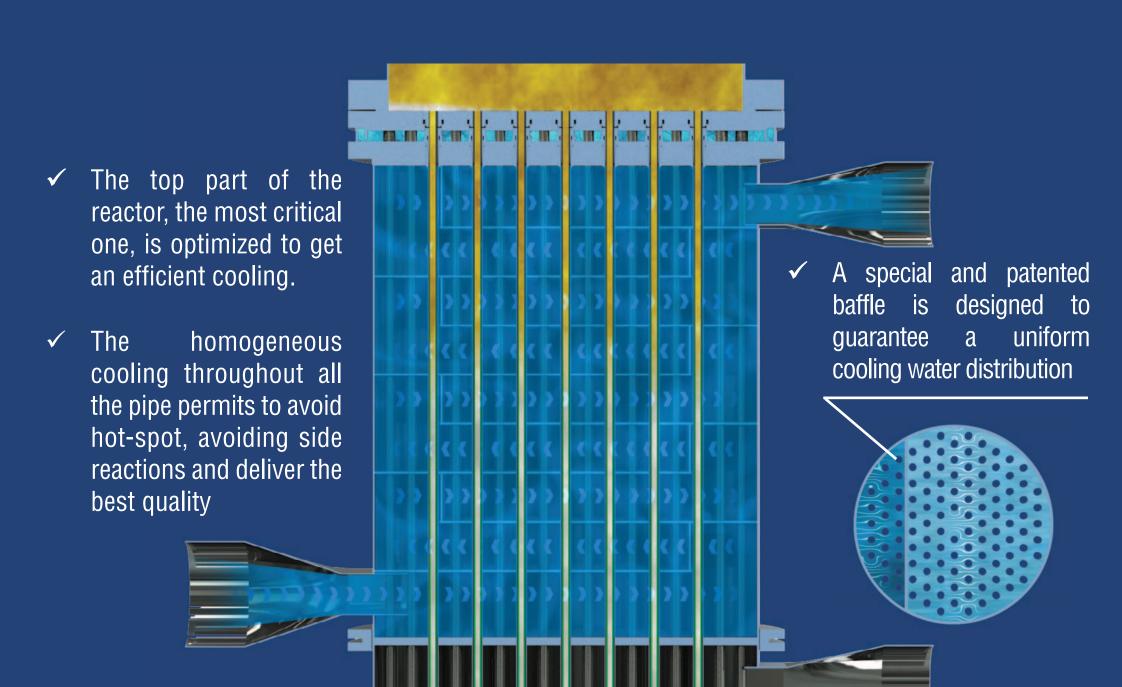
- ✓ The Reactor Head design allows a gentle and uniform gas-liquid contact
- ✓ The reactor head generate a robust and homogeneous liquid film
- ✓ No generation of undesired turbulence



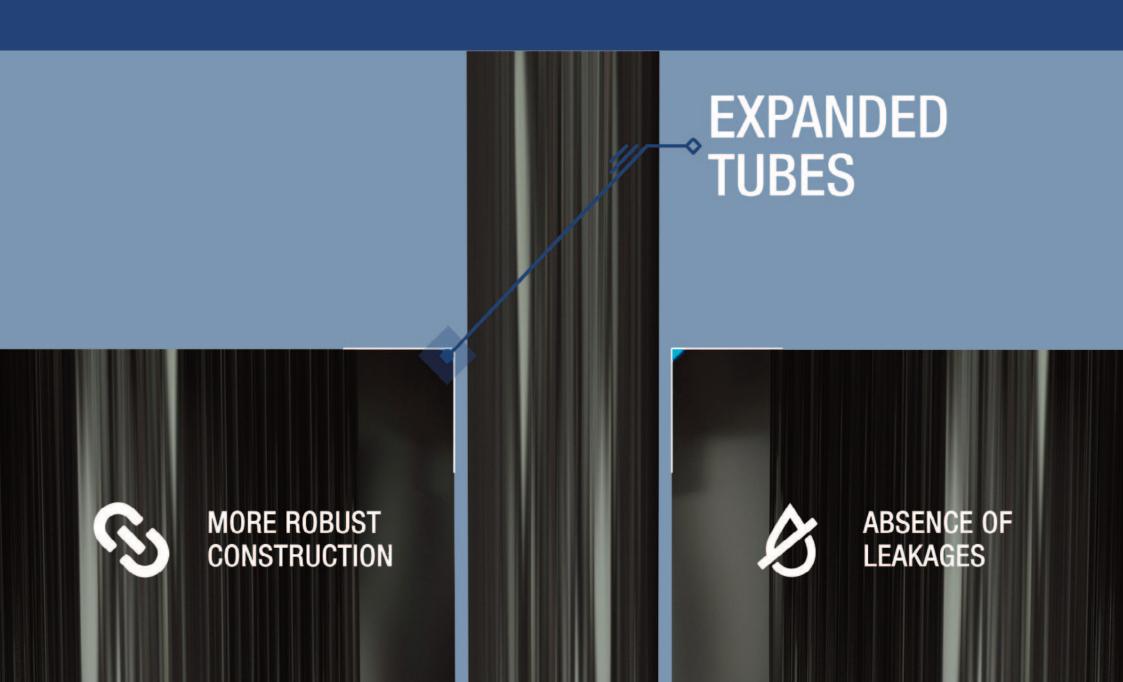
Liquid distribution



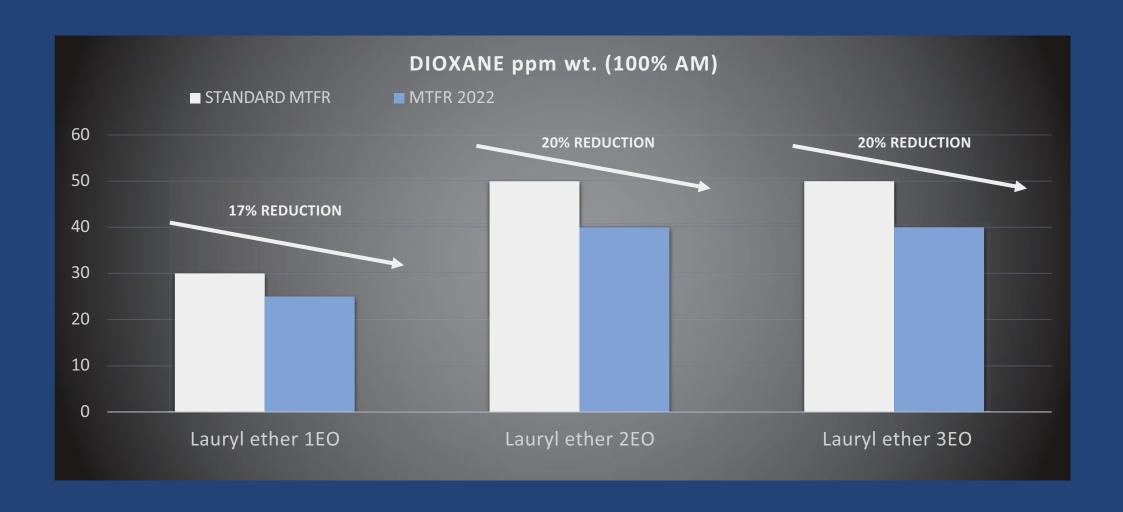
Reactor cooling



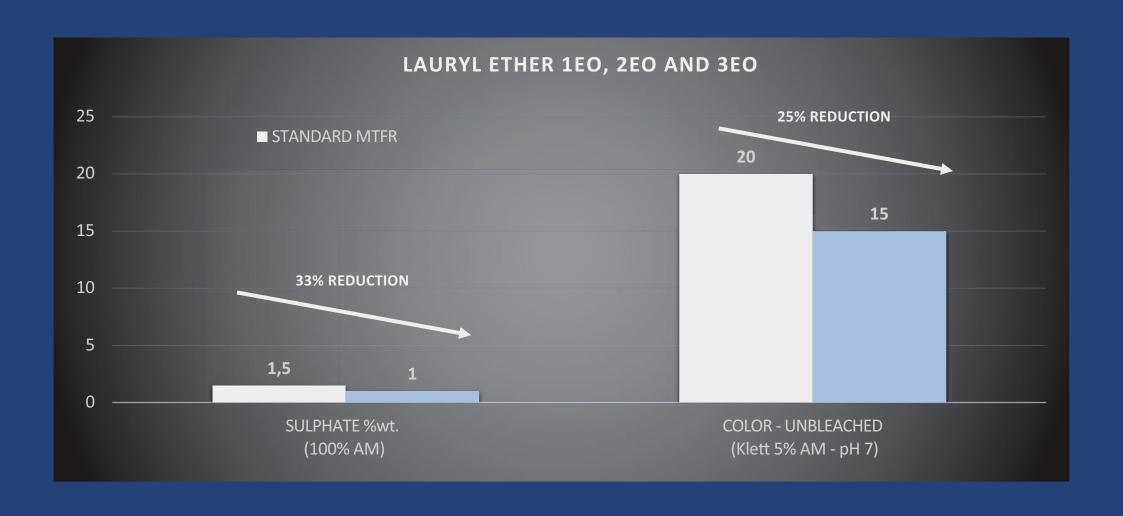
Construction features



Ethoxy-sulphates quality improvement



Ethoxy-sulphates quality improvement

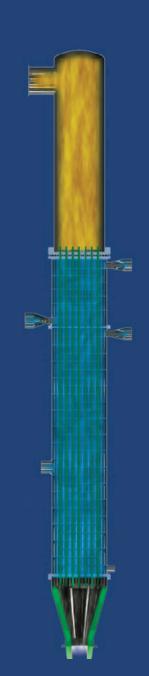


SULPHONEXT Reactor advantages



FLEXIBILITY OF USE













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