

LAUNCHI™ MELT

ULTRA LOW ENERGY DESIGN

A unique urea plant concept combining optimized CAPEX and the lowest energy consumption to date.

The innovation & license company
of Maire Tecnimont.





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The challenge:

To design a plant which uses considerably less energy and requires minimum maintenance without losing any of the high yield or the reliable operation which Stamicarbon plants are renowned for.

Stamicarbon's solution:

For locations where the cost of energy is high, Stamicarbon has developed the LAUNCH MELTTM Ultra Low Energy Design.

By applying years of experience, using industrially proven elements, Stamicarbon was able to create an ultra low energy plant, whilst still retaining the reliability and operability aspects our customers have come to know.

Whilst working on the low energy design, our engineers paid special attention to limit the additional CAPEX expenses that are usually associated with such a design. In fact, the Ultra Low Energy design results in overall reduction in the investment costs of the urea section.

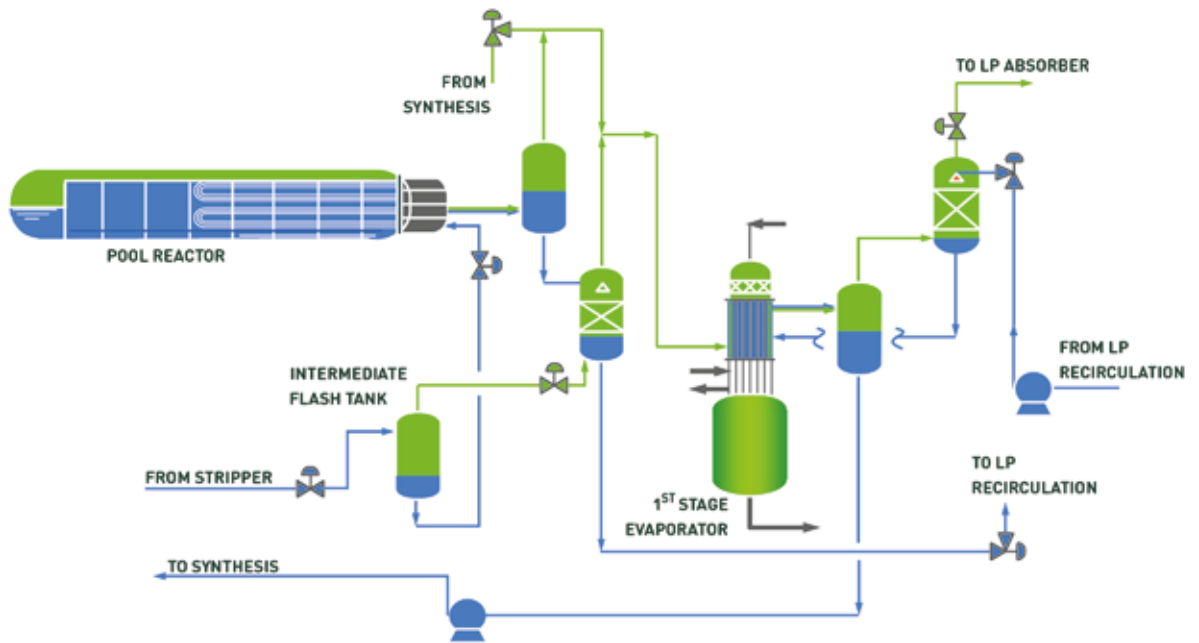
Benefits:

- Lowest steam consumption
- Lowest cooling water consumption
- Easy to operate
- Reliable
- Lower overall investment costs for the urea section

The process:

Stamicarbon has substantially reduced the steam and cooling water consumption of a Stamicarbon CO₂ stripping urea plant by direct heat integration between the high pressure condenser and the medium pressure rectifying heater followed by direct heat exchange between the medium pressure condenser and the first-stage evaporator heater.





The medium pressure recirculation section of the Low Opex Design process



