



ALTA PROCESS SOLUTIONS

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INDUSTRIAL PROJECTS

Project No.: 15

Industry: Polymers

Project Subject:

Retrofitting of HEN in Acrylic Units of Polyacrylic Production Plant

Challenge:

This project consists of retrofitting of heat exchangers network in acrylic units of a Poly Acryl plant. By using the most advanced Pinch technology, 260,000 (\$/yr.) energy saving was realized.

Proposed Solution:

1. Reduced fuel consumption in boilers and therefore reduced total fuel consumption in the complex.
2. Decreased load of coolers and therefore reduced cool water and electricity consumption.
3. Decreased energy intensity or in other words, the fuel consumption per unit of production decreased in the company and therefore energy efficiency in the company raised.
4. Lower energy intensity in production processes and therefore lower product cost, because less fuel per unit of production consumed.
5. Less emission of GNG.
6. Increased heat transfer between hot and cold flows in the network and thus decreased required boilers utility and load in network which led to upgraded reliability and safety of system.
7. Less use of fossil fuel resources.

Results:

