Abstract
The Heat Integrated Distillation Column HIDiC is characterized by the pressure difference between the rectification and stripping sections in a concentrical system. Basically, the new configuration consists of a rectifying section that works at higher pressure and temperature, which transfers heat to the stripping section for decreasing energy consumption compared to the conventional distillation. The present study examines the concept of heat integrated column within a binary mixture benzene-toluene and presents great potential for energy savings. HIDiC column shows a broad perspective of work as an alternative for industrial separations.

Keywords
Keywords: distillation, heat integration, process integration.