

Abstract

5 Provided is a reactive rectification system for production of high-octane gasoline components. The system has at least three reaction zones, at least one which is a benzene hydroisomerization zone, the second one is a hexane isomerization zone, and the third one is the pentane isomerization zone. In addition, the benzene hydroisomerization zone is located lower than the other reaction zones and is in the lower part of the column while the hexane
10 isomerization zone is located higher than the feeding zone but lower than the pentane isomerization zone. The system has also at least one side output which is located above the hexane isomerization zone but lower than the pentane isomerization zone.