METHOD AND APPARATUS FOR PRODUCING ULTRA-HIGH PURITY OXYGEN

ABSTRACT

A method and apparatus for producing a ultra-high purity oxygen product in which a nitrogen generator is operated to produce nitrogen and an oxygen rich fraction as column bottoms. Part of the oxygen rich fraction can be further processed at column pressure within rectification column to produce a tower overhead lean in hydrocarbons such as methane, acetylene, propane and propylene. After liquefaction in a head condenser of the rectification column, part of the condensate is further processed in a stripping column to produce an ultra-high purity liquid oxygen column bottoms which can be extracted as product.

Fig. 1