

ULTRAMAX[®] Application Profile

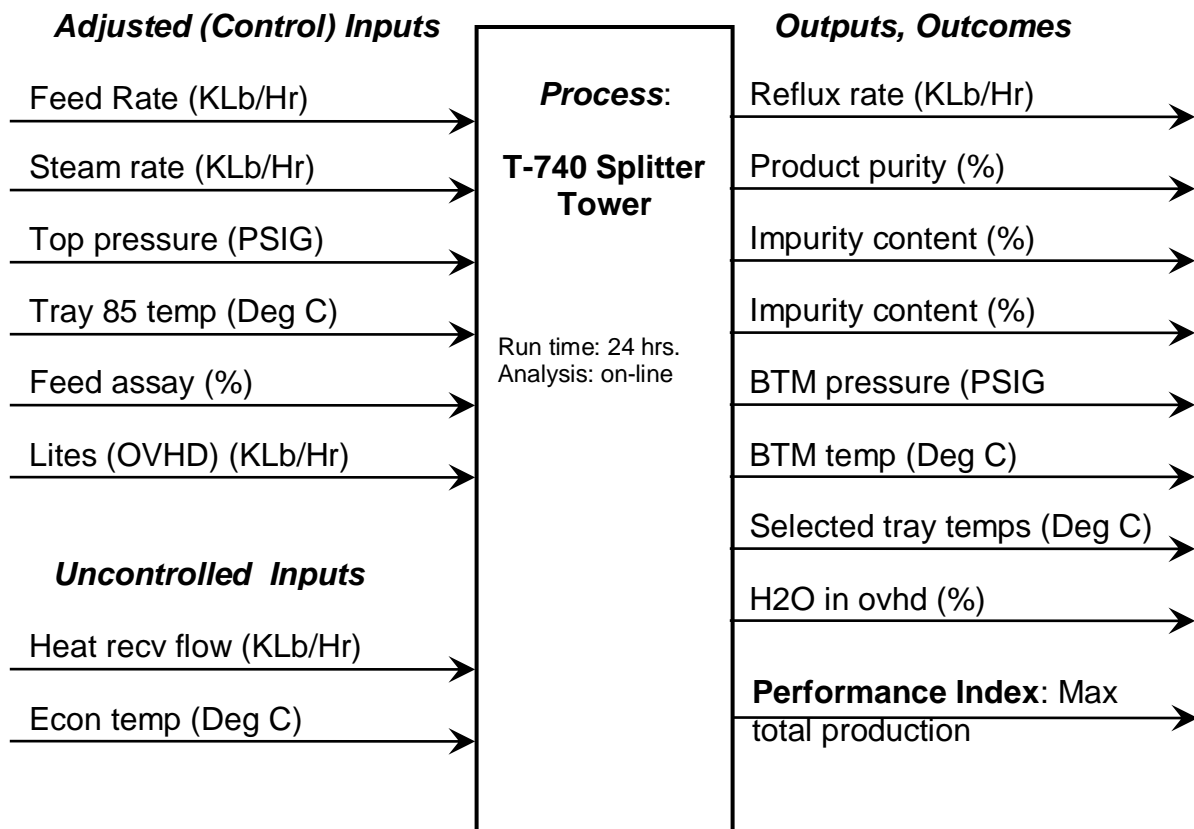
Chemicals: Splitter Tower

Process: Tower to split isobutanol from normal butanol. The equipment is massive with 120 trays which are over 10 feet in diameter and processing over 25,000 pounds per hour. BASF, Freeport, TX.

Objectives: Efficient purity operations: maximize production rate while maintaining quality.

Results Summary: Production was increased by 1000 pounds/hr. and there was a general increase in purity: ~\$300K/yr. gains.

DECISION INPUT/OUTPUT DIAGRAM



Optimizing the Performance Index implies satisfying constraints (not shown)