

100,000 TPD PHTHALIC ANHYDRIDE PLANT FOR SALE

Capacity: 100,000 TPD
(The plant can run as low as
50,000 TPD)

Year Built: 1971

Year Shut: 2006

Upgrades: 1983, 1996

Feedstock: Orthoxylene
(alternative: naphthalene)

Major Equipment:

- Shell and tube type reactors
- Switch Condensers
- Tail Gas Incinerators
- Decomposers
- Stripper
- Still
- Distillation Heater
- Distillation Incinerator
- Steam System



BRIEF PROCESS DESCRIPTION

The reaction of orthoxylene to phthalic anhydride is highly exothermic and heat is removed from the reactor in two ways: (1) by 450# steam generated at the reactor and (2) by an increase in temperature of the air stream going through the reactor. The product gas leaving the reactor is pre-cooled by the gas cooler where 150# steam is produced. The pre-cooled gas is further cooled in the switch condensers where the crude PA is crystallized on the condenser tube bundles. The waste gas from the switch condensers flows to the tail gas incinerators where the waste organics are thermally oxidized and 650# steam is generated. The crystallized crude PA is melted off the condenser tubes and gravity flows to drain tanks. It is then pumped to crude storage tanks for feed to the purification area.

CONTACT US FOR MORE DETAILS

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