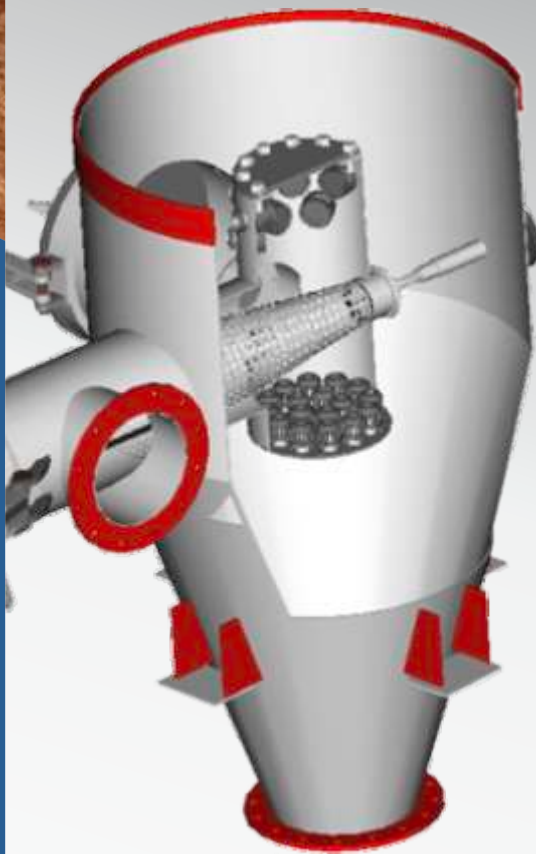




Automated Condensing System

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SUSTAINABLE ENVIRONMENT DEVELOPERS
(Formerly Spray Engineering Devices)

Automated Condensing System

SED Condensers are designed after complete analysis of operating conditions to optimum safety margins and minimum energy losses. Each Condenser operates with close condensing approach and generate initial vacuum rapidly. It maintains good condensing efficiency and non-condensable gas evacuation rate to keep vacuum and pan temperature at desirable level.

The Condensers are designed for easy and quick maintenance. The Strainer, Spray & Jet Nozzles can be opened for inspection & cleaning very quickly. Hinge type Manhole and Strainer Dummy further eases the upkeep of the Condensers. Use of corrosion resistant material ensures that Condenser remains unaffected by all kinds of acidic or basic environment.

Following are the salient features of the SED Condensers:

- Reduced Pumping head Requirement of 18-20m, as compared to 25m head required with conventional condensers
- Efficient design reduces the water quantity required to condense Vapors. SED Condensers require 45Tons of Water to condense 01 ton of vapors whereas conventional condensers consume minimum 60Tons of water to condense 01 ton of vapor
- Reduction in quantity of water at Injection station results in reduction in quantity of water at Spray Pond/Cooling tower resulting in power saving at Spray Pumps as well as Cooling tower fans
- Quick generation of vacuum increases the throughput of the process house. The initial vacuum generation time with SED condensers is 02 minutes compared to 15-20 minutes with conventional condensers
- The automation system maintains the set vacuum by adjusting water quantity at each condenser. This results in better quality of crystal.
- SED Condensers are made of high quality Stainless Steel (SS-304) for long life.
- Automation system removes the requirement of Manual valve operation, thus reducing the workload of the operating staff
- Wide range of reports through SCADA system help process managers observe, diagnose and improve the process efficiency

