



HIGH EXTRACTION RECORDS FOR THE TH DIFFUSER

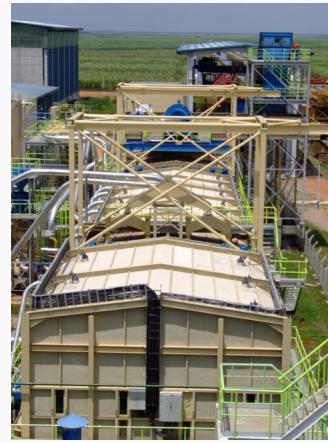
Fives Cail is exclusively licensed by Tongaat Hulett Sugar of South Africa to provide cane and bagasse diffusers worldwide. Together, we have designed and built fixed bed diffusers which process over 100,000 tonnes of cane daily.

The cane or bagasse diffuser offers an excellent option for sugar factories or distilleries which seek high extraction levels and improvement in their potential for cogeneration:

- The TH diffuser is the only reliable technology presenting the highest extraction records. In South Africa, in 2009, the average yearly extraction of the operating TH diffusers ranged above 98% of the pol, with diffusers generally operating above their nominal throughput.
• The low electrical power consumption of the diffuser drive and the recirculation pumps also provide benefits regarding electricity savings and offers the opportunity to sell extra power to the grid.

The diffuser offers other interesting features:

- Proven technology for over 30 years.
• Low maintenance costs.
• Very flexible equipment which allows throughput evolutions.
• Limitation of bacteriological decomposition thanks to the high temperature extraction (85°C).



More recently, new improvements have made it possible to recirculate 100% of the mud produced during the clarification process. The various benefits of the recirculation include:

- Lower capital cost investment for a new installation. A mud filter station is no longer necessary.
• Lower operating costs - elimination of logistic costs to transport the filter cake from the factory to the fields, and the elimination of filter station maintenance costs.
• Increase of the net calorific value of the bagasse sent to the boiler.
• The overall sucrose balance is not affected by the mud recirculation.



Reference list:

Table with 5 columns: Factory, Country, Width (m), Capacity (tcd), Year. Lists various sugar factories and their specifications.

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For more about Fives Cail, click here...