

ALVAN BLANCH – SUGAR TECHNOLOGY.

Following the growing demand for a commercially viable alternative to large factories, Alvan Blanch have developed a range of small to medium scale sugar processing plants. The process used involves an improved version of OPS (Open Pan Sulphitation), which is a process for producing fairly white sugar using relatively simple technology. Excellent economic viability is achieved by means of the low capital cost and minimal non-labour plant running costs. Various capacities up to 200 TCD (tonnes cane per day) are available.

The following features are common to all plants:-

- Cane milling units are of robust design for long life under arduous operational conditions.
- Furnaces are specifically designed for efficiency – keeping fuel utilization as low as possible.
- All plants use the available bagasse as fuel to heat the furnaces which reduces the fossil fuels or firewood requirements.
- The Alvan Blanch gravity flow, multi stage heating/boiling process furnace system reduces labour costs whilst ensuring quick and efficient boiling.
- Effective quality control and the use of leading edge flocculation techniques ensure that sugar quality is maintained at a high level. Filter presses can be used to further clarify the juice.
- Continuous crystallisers incorporate slow moving paddles promoting effective crystal growth in the massecuite to the required crystal size and density.
- The use of batch type centrifuges for crystal extraction from the molasses is effective whatever the sugar quality. Each centrifuge uses a high speed stainless steel basket, controlled by programmable A/C inverter.
- Effective drying and packaging of the crystals maintains quality control to the consumer.

Large Scale Factories.

Alvan Blanch also manufacture and supply a wide range of ancillary equipment for large scale sugar plants, such as; spare parts, instrumentation, handling systems, driers, consumables and other items.

Alvan Blanch is a British manufacturing company specialising in the design, production and supply of complete integrated crop processing systems throughout the world.

In accordance with our policy of continuous development, we reserve the right to change specifications and prices at any time without notice or incurring liability to purchasers. All goods supplied according to our published terms and conditions of sale (copies on application)



Chelworth Malmesbury Wiltshire SN16 9SG England
TELEPHONE: 01666 577333

FACSIMILE: Sales/Admin 01666 577339 Production 01666 577263

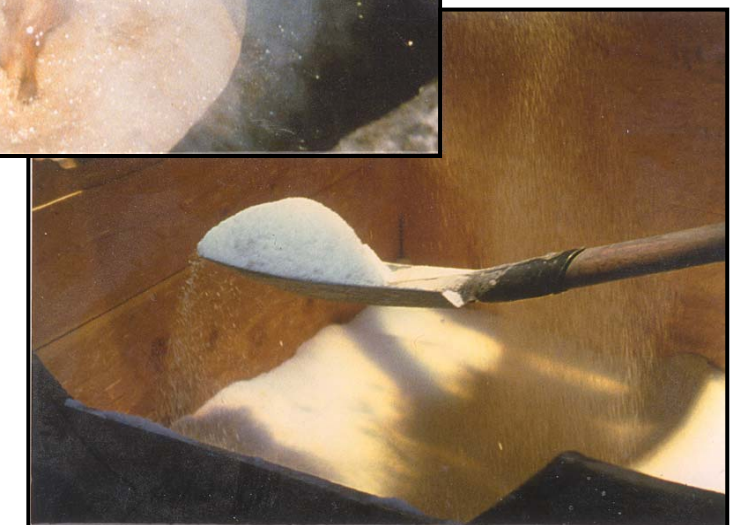
EMAIL: info@alvanblanch.co.uk



SUGAR CANE PROCESSING PLANTS



A range of small to medium scale sugar cane processing systems using an improved OPS (open pan sulphitation) technology.



SUGAR CANE PROCESSING PLANT

Typical example – capacity 50t/day



Assembly of the four-stage boiling vessel system

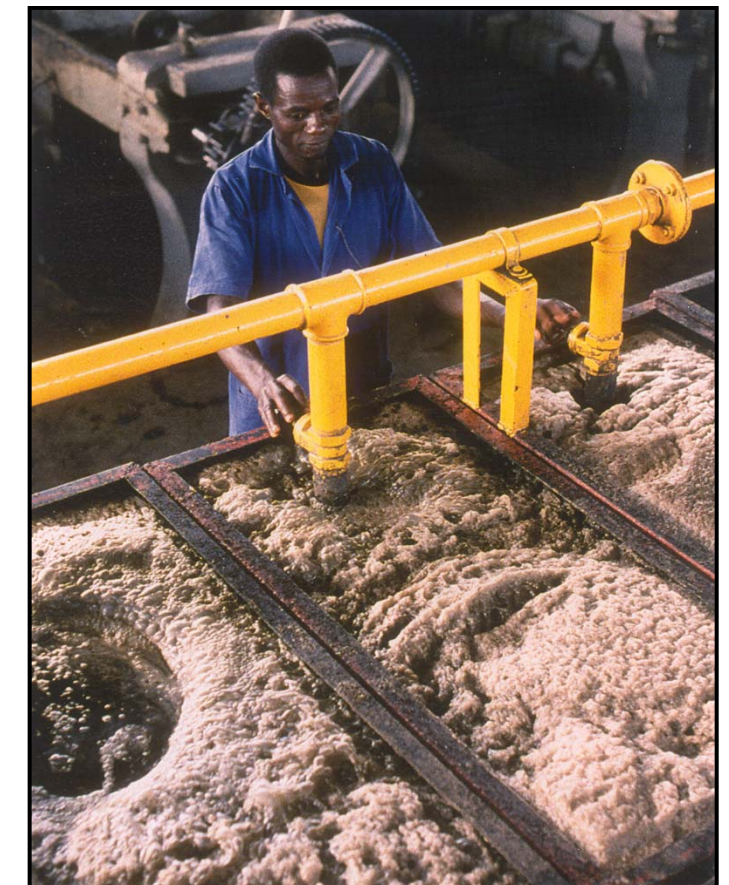


Feed sugar cane mill

Final Concentration stage of boiling process



Separation of flocculated material in settling tanks



Sequence of Flow

- A. Sugar Cane Mill: Cane is crushed releasing juice.
- B. Heating Vessels: Juice is heated for flocculation (clarification) through a 3 stage gravity flow system.
- C. Settling Tanks: Solids are separated out.
- D. Boiling Vessels: Juice is concentrated into massecuite by means of a 4 stage gravity flow system
- E. Crystallisers: Massecuite is immediately stirred allowing consistent crystal growth.
- F. Centrifuge: Crystals are separated from molasses.
- G. Drier: Crystals are conditioned by aeration.
- H. Packaging: Sugar is packed according to market requirements.