



# Cail & Fletcher vertical crystallizer and massecuite reheater









\*Return On Investment

Maximize molasses exhaustion and ensure best massecuite quality for optimum centrifugal performance

- A cost-effective solution to maximize capacity
- Low maintenance, compact footprint

Outstanding performance

Cail & Fletcher vertical crystallizer and reheater achieve outstanding performances by maximizing molasses exhaustion.

# A COST-EFFECTIVE SOLUTION FOR MAXIMIZING **CAPACITY**

- Purity drop achieved in molasses is between 5 and 10 points
- Low electricity consumption: 0.03 to 0.05 kWh per ton of cane

# LOW MAINTENANCE REQUIREMENTS, SMALL FOOTPRINT

- 100% seamless tubes fixed
- 100% tubes junction welds outside the equipment
- The system is clean
- Stand-alone equipment installed on exterior civil base

#### **OUTSTANDING PERFORMANCE**

- Centre shaft suspended in heavy duty spherical roller bearing
- High heat transfer coefficient and low temperature difference between massecuite and water
- Maximum exhaustion by combined control of massecuite shear rate and control of temperature
- High height to diameter ratio in order to enhance the plug-flow effect
- S/V ratio from 1.1 to  $1.9 \,\mathrm{m}^2/\mathrm{m}^3$
- Reheater of high heating surface (up to 1,400 m<sup>2</sup>) and optimized upstream flow characteristics with no dead zone, designed to avoid sugar losses and any inverted or burnt sugar

### **OPTION**

- Mobile tube layers technology for high capacities
  - 1 Continuous Vacuum Pan
  - 2 SUMO™ pump
  - 3 Vertical crystallizers
  - 4 Reheater
  - 6 Continuous centrifugals



Reheater 1,400 m<sup>2</sup> - Guatemala

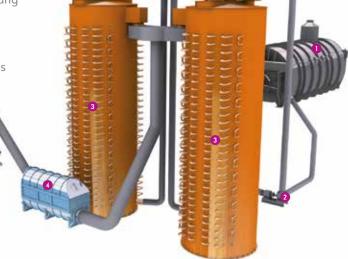
# Vertical crystallizer sizes and dimensions

Volume (m³)	Surface (m²)	Diameter (m)
150 - 700	165 - 1,330	4.50 - 5.75

#### Reheater sizes and dimensions

Surface (m²)	Length (m)	Width (m)	Height (m)
140 - 1,400	2.80 - 6.30	0.88 - 3.80	2.80 - 4.70

- A secure and reliable product
- Optimized technology to maximize the revenue
- Strong, constant performance throughout the lifecycle



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