



**SUGAR PLANTS
& DISTILLERIES**

Vertical Continuous Pans (VCP)



Falling Film Evaporator Set - Agrolmos, Peru



3D of VCP



Centralised Control Room for a Sugar Plant



Vertical Continuous Vacuum Pan (VCP)

Features

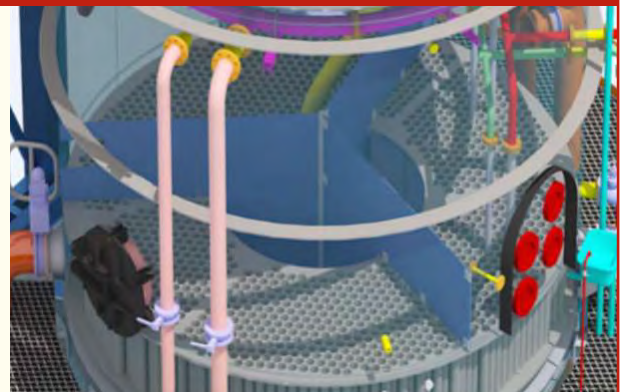
- Five compartments vertically placed one over another, four working and one as standby
- Less Civil Work & Structure requirement
- Top mounted Mechanical Circulator in all compartments
- Use of two different Low Pressure Vapor
- Vapor Load upto 25% on Masecuite
- More than 10.0 S/V Ratio
- By-pass Arrangement for each compartment during cleaning.
- Inbuilt Graining and Standby Compartment i.e. no need of separate Grain Pan
- Fully Automated Operation
- Adequate maintenance space for drive
- Suitable Vapor Space to avoid Entrainment
- Easy access to platform by Lift
- Available for all grade of Masecuite



100 TPH VCP as Raw Masecuite

Salient Features

- Partitioned Compartment for Low Grade Masecuite
 - To provide Plug Flow
 - To avoid Short Circuiting
 - To provide zigzag path from Shell to Shell
 - To maintain the Coefficient of Variation upto Level of 28-30%



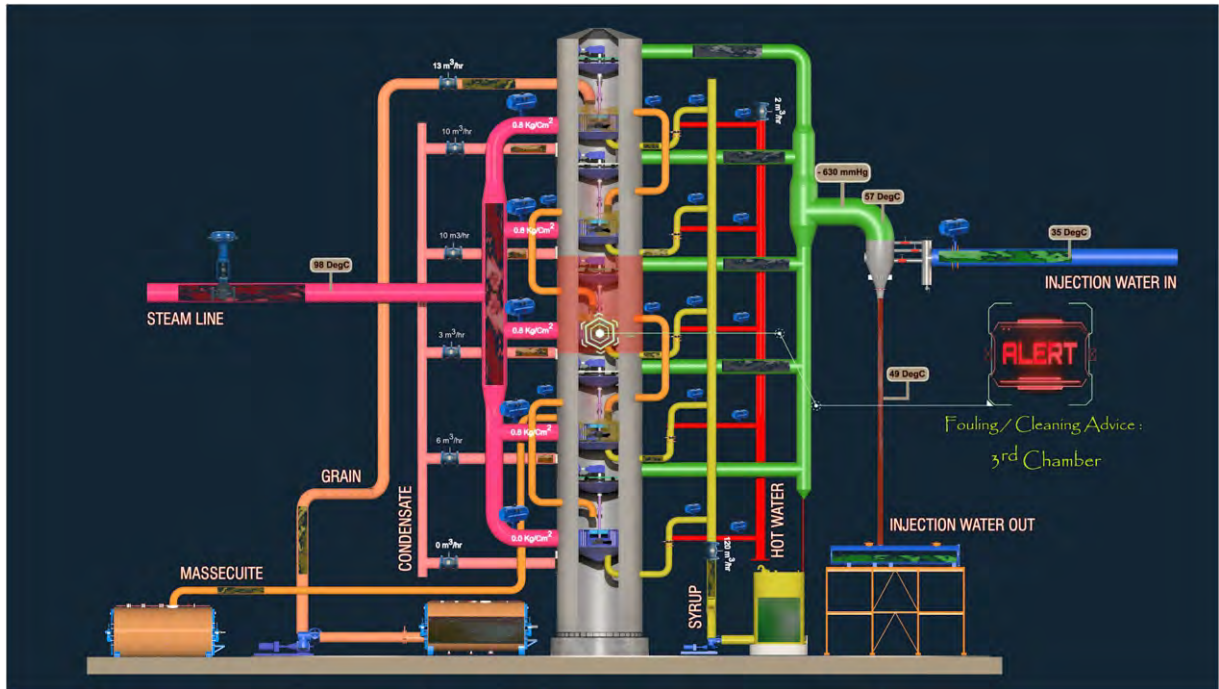


3 Nos. VCP at Twenty One Sugars

VCP Recent Installations

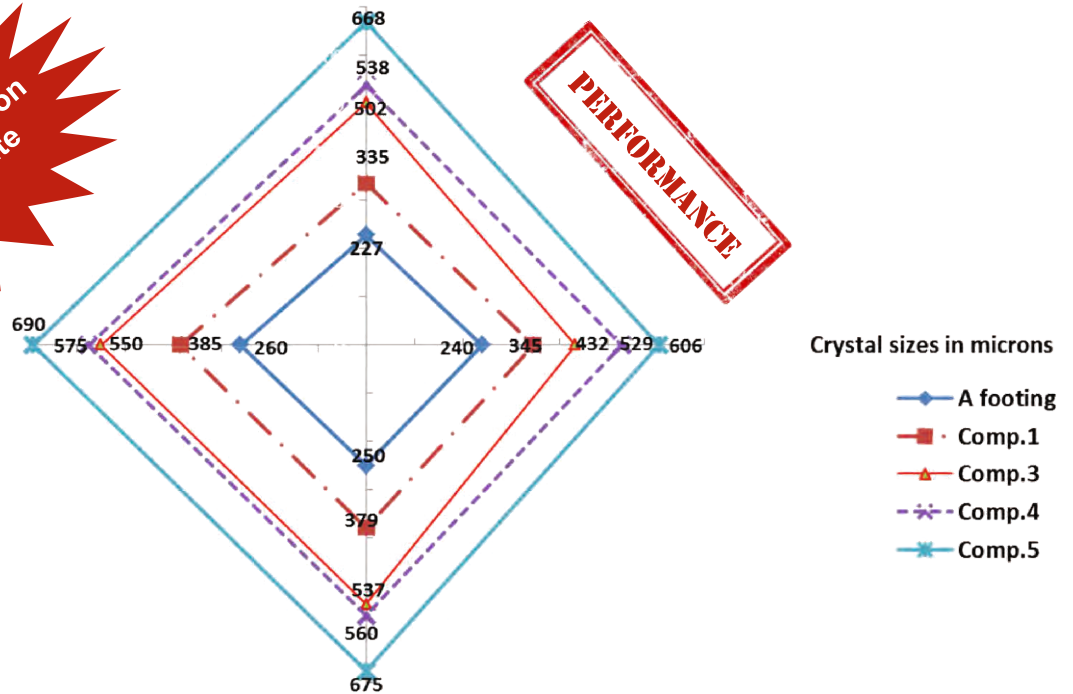
- 100 TPH for 'A' Maseccuite Boiling on 4th / 3rd vapour of Quintuple System at Dalmia Bharat Sugar Ltd., Uttar Pradesh, India
- 100 TPH for 'A' Maseccuite Boiling on 3rd / 2nd vapour of Quintuple System at DCM Shriram Ltd., Uttar Pradesh, India (Under Execution)
- 100 TPH for 'A' Maseccuite Boiling on 4th / 3rd vapour of Quintuple System at KPR Sugars, Karnataka, India
- 100 TPH for 'A' Maseccuite Boiling on 4th vapour of Quintuple System at Shri Dutt India Pvt. Ltd., India
- 85 TPH for Raw Maseccuite Boiling on 4th / 3rd vapour of Quintuple System at DCM Shriram Ltd., Uttar Pradesh, India (Under Execution)
- 65 TPH for 'A' Maseccuite Boiling on 4th / 3rd vapour at DSCL Sugar, Hariawan, Uttar Pradesh, India
- 65 TPH for 'A' Maseccuite Boiling on 4th / 3rd vapour at Twenty One Sugar, Latur, Maharashtra, India
- 45 TPH for 'B' Maseccuite Boiling on 4th / 3rd vapour of Quintuple System at KPR Sugars, Karnataka, India
- 45 TPH for 'B' Maseccuite Boiling on 6th / 5th vapour of Quintuple System at Bindal Paper Mills Ltd., India (Under Execution)
- 30 TPH for 'B' Maseccuite Boiling on 4th / 3rd vapour at Twenty One Sugar, Latur, Maharashtra, India
- 25 TPH for 'C' Maseccuite Boiling on 3rd / 2nd vapour of Quintuple System at Chhatrapati Sahu SSSK Ltd., Maharashtra, India
- 20 TPH for 'C' Maseccuite Boiling on 3rd / 2nd vapour at Twenty One Sugar, Latur, Maharashtra, India

Artificial Intelligence at Vertical Continuous Pan (VCP)



Vapour / Condensate Flow in VCP

**25-28%
vapor consumption
on massecuite**



Crystal growth pattern in 100 TPH 'A' VCP at Dalmia Bharat Sugar, India

OTHER PRODUCTS

EPC Projects • Bagasse & Biomass Fired Boilers • Slop / Vinasse Fired Boilers • Pulverised Coal Fired Boilers • Circulating Fluidised Bed Combustion Boilers
Atmospheric Fluidised Bed Combustion Boilers • Oil & Gas Fired Boilers • Waste to Energy Boilers • Waste Heat Recovery Boilers • Air Pollution Control Equipment • Deaerators • Spares



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