



**SUGAR PLANTS  
& DISTILLERIES**

# Vertical Continuous Pans (VCP)



*2 x 85 TPH VCP  
at DCM Shriram Ltd., India*

*Falling Film Evaporator Set - Triveni Engg., Uttar Pradesh*



*3D of VCP*



*Centralised Control Room for a Sugar Plant*





## Vertical Continuous Vacuum Pan (VCP)

### Features

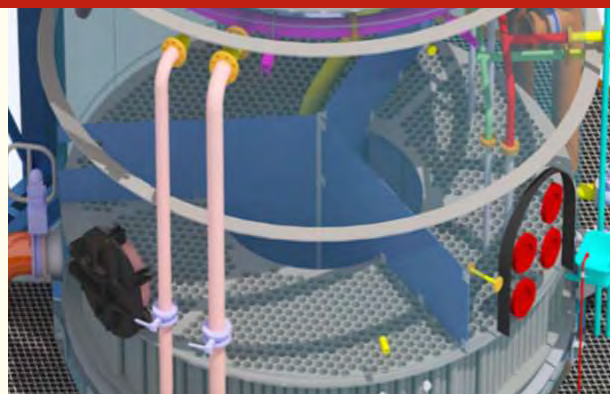
- Five compartments vertically placed one over another, four working and one as standby
- Less Civil Work & Structure requirement
- Top mounted Mechanical Circulator in all compartments
- Use of two different Low Pressure Vapor
- Vapor Load upto 25% on Masseccuite
- More than 10.0 S/V Ratio
- By-pass 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 Masseccuite



45 TPH VCP at Bindal Paper Mills Ltd., India

### Salient Features

- Partitioned Compartment for Low Grade Masseccuite
  - 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%







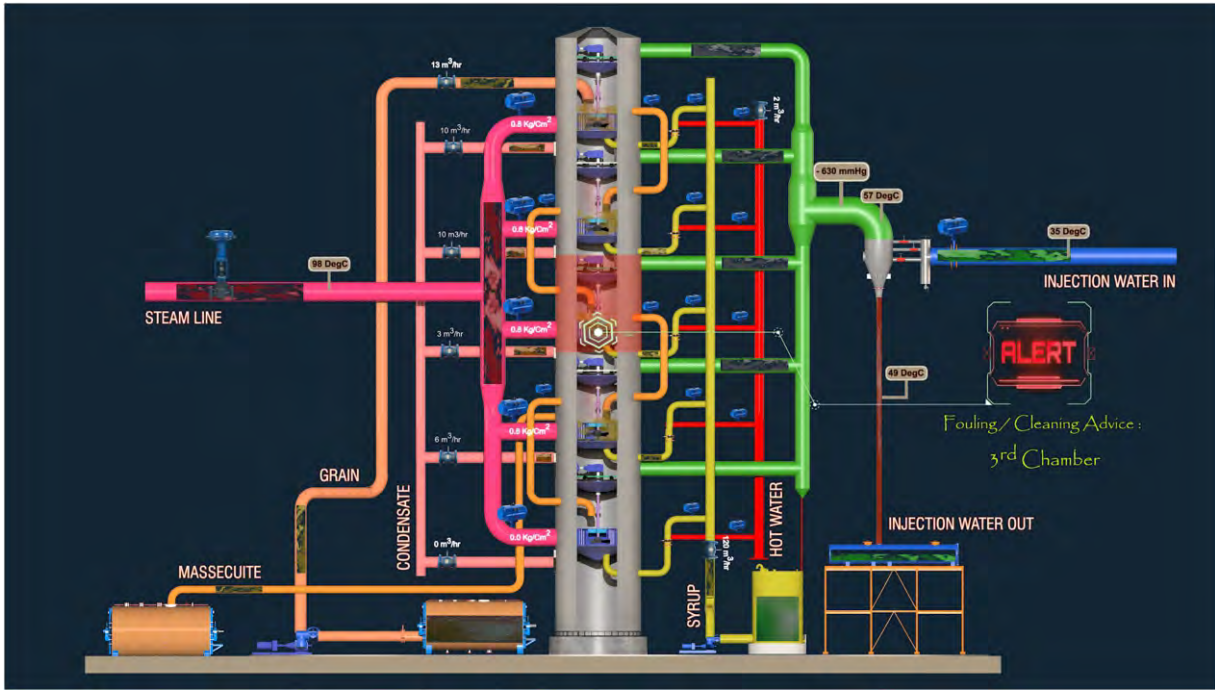
3 Nos. VCP at Twenty One Sugars

## VCP Recent Installations

- 125 TPH for Raw Masecuite Boiling on 4th vapour of Quintuple System at The Seksaria Biswan Sugar Factory Ltd., India (Under Execution)
- 110 TPH for 'A' Masecuite Boiling on 4th / 3rd vapour of Quintuple System at Inamdar Sugars Ltd., India (Under Execution)
- 100 TPH for 'A' Masecuite Boiling on 4th / 3rd vapour of Quintuple System at Dalmia Bharat Sugar Ltd., Uttar Pradesh, India
- 100 TPH for 'A' Masecuite Boiling on 3rd / 2nd vapour of Quintuple System at DCM Shriram Ltd., Uttar Pradesh, India (Under Execution)
- 100 TPH for 'A' Masecuite Boiling on 4th / 3rd vapour of Quintuple System at KPR Sugars, Karnataka, India
- 100 TPH for 'A' Masecuite Boiling on 4th vapour of Quintuple System at Shri Dutt India Pvt. Ltd., India
- 85 TPH for Raw Masecuite Boiling on 4th / 3rd vapour of Quintuple System at DCM Shriram Ltd., Uttar Pradesh, India (Under Execution)
- 65 TPH for 'A' Masecuite Boiling on 4th / 3rd vapour at DCM Shriram Ltd., Hariawan, Uttar Pradesh, India
- 65 TPH for 'A' Masecuite Boiling on 4th / 3rd vapour at Twenty One Sugar, Latur, Maharashtra, India
- 55 TPH for 'B' Masecuite Boiling on 4th / 3rd vapour at DCM Shriram Ltd., Loni, Uttar Pradesh, India (Under Execution)
- 50 TPH for 'B' Masecuite Boiling on 4th / 3rd vapour at Inamdar Sugars Ltd., India (Under Execution)
- 45 TPH for 'B' Masecuite Boiling on 4th / 3rd vapour of Quintuple System at KPR Sugars, Karnataka, India
- 45 TPH for 'B' Masecuite Boiling on 6th / 5th vapour of Quintuple System at Bindal Paper Mills Ltd., India
- 35 TPH for 'B' Masecuite Boiling on 4th / 3rd vapour of Quintuple System at Y. M. Krishna SSK Ltd., India (Under Execution)
- 33 TPH for 'B' Masecuite Boiling on 6th / 5th vapour of Quintuple System at Bindal Paper Mills Ltd., India (Under Execution)
- 30 TPH for 'C&C1' Masecuite Boiling on 6th / 5th vapour at Twenty One Sugar, Latur, Maharashtra, India
- 25 TPH for 'C' Masecuite Boiling on 3rd / 2nd vapour of Quintuple System at Chhatrapati Sahu SSSK Ltd., Maharashtra, India
- 20 TPH for 'C' Masecuite Boiling on 3rd / 2nd vapour at Twenty One Sugar, Latur, Maharashtra, India

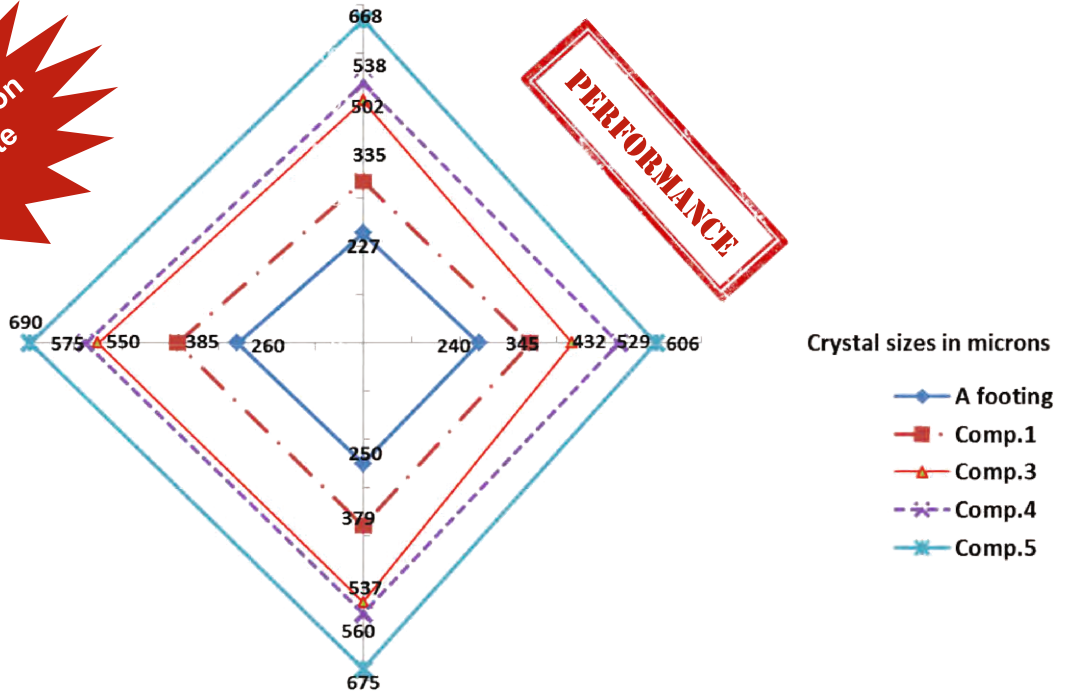


# Artificial Intelligence at Vertical Continuous Pan (VCP)



## 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 • Compressed Bio-gas (CBG) • Bagasse & Biomass Fired Boilers • Slop / Vinasse Fired Boilers • Pulverised Coal Fired Boilers • Circulating Fluidised Bed Combustion Boilers  
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