Continuous Flotation

Blair Hanel – Sales Manager

DELLA TOFFOLA PACIFIC

Introduction

Vintage 2014 saw the introduction of the Della Toffola FLCV 3 (30,000 l/h) continuous flotation systems into:

- *TWG in Loxton*
- *Delegat's Winery in Marlborough, New Zealand.*

DELLA TOFFOLA PACIFIC

Batch Flotation

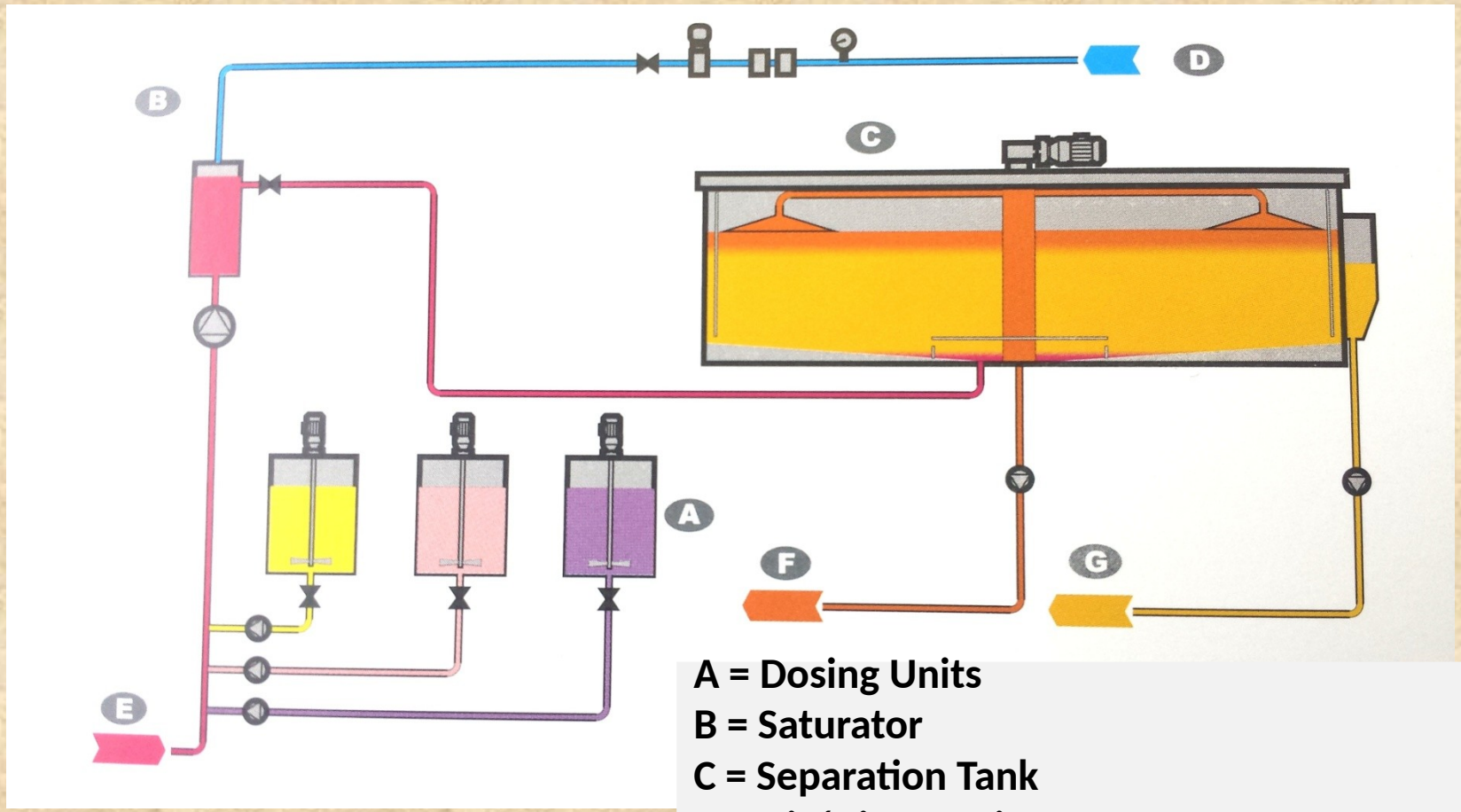
Post Centrifugation utilising a CPV

Traditional Cold Settling

Juice Clarification … & benefits of Flotation

- *Speed and Efficiency*
- *Quality*
- *Filterability*
- *Energy and Water Savings*

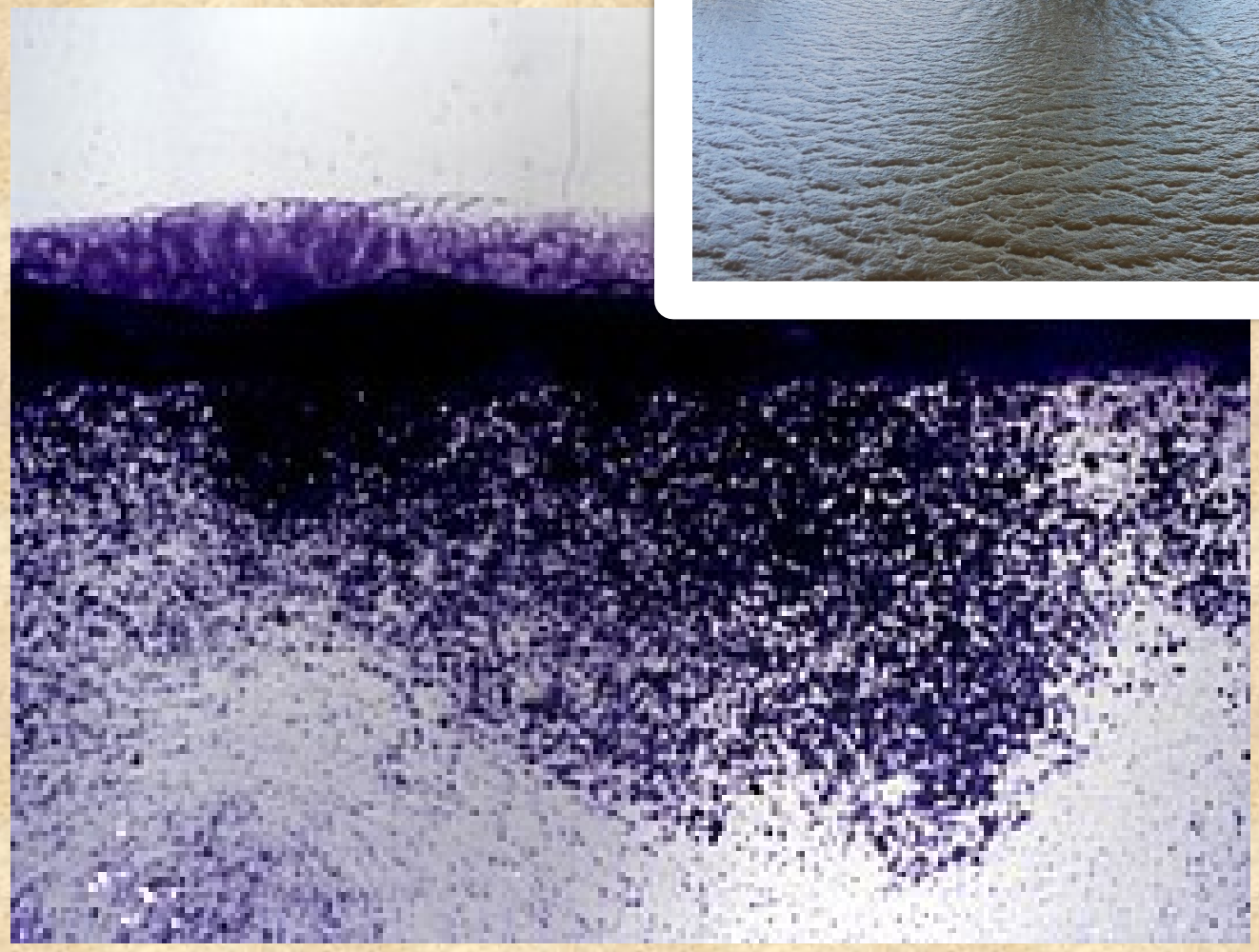
DELLA TOFFOLA PACIFIC



A = Dosing Units
B = Saturator
C = Separation Tank
D = Air/Nitrogen ingress
E = Incoming Juice with Enzyme Treatment
F = Flotation Lees (floaties or fluffies)
G = Clean Juice exiting

Concept Overview

DELLA TOFFOLA PACIFIC



Why Float ?

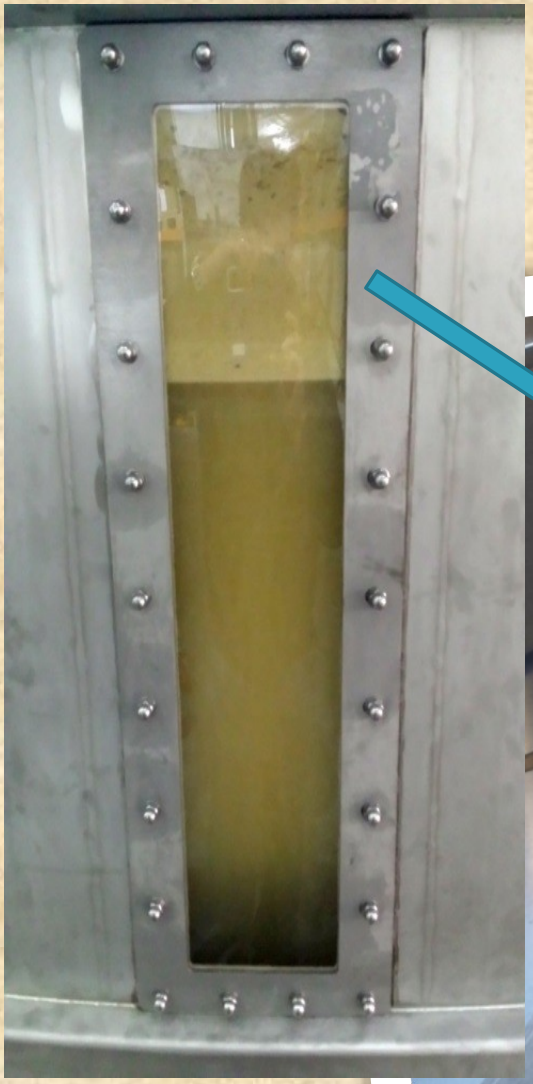
DELLA TOFFOLA PACIFIC

Concept Overview

DELLA TOFFOLA
PACIFIC

Testing

DELLA TOFFOLA
PACIFIC



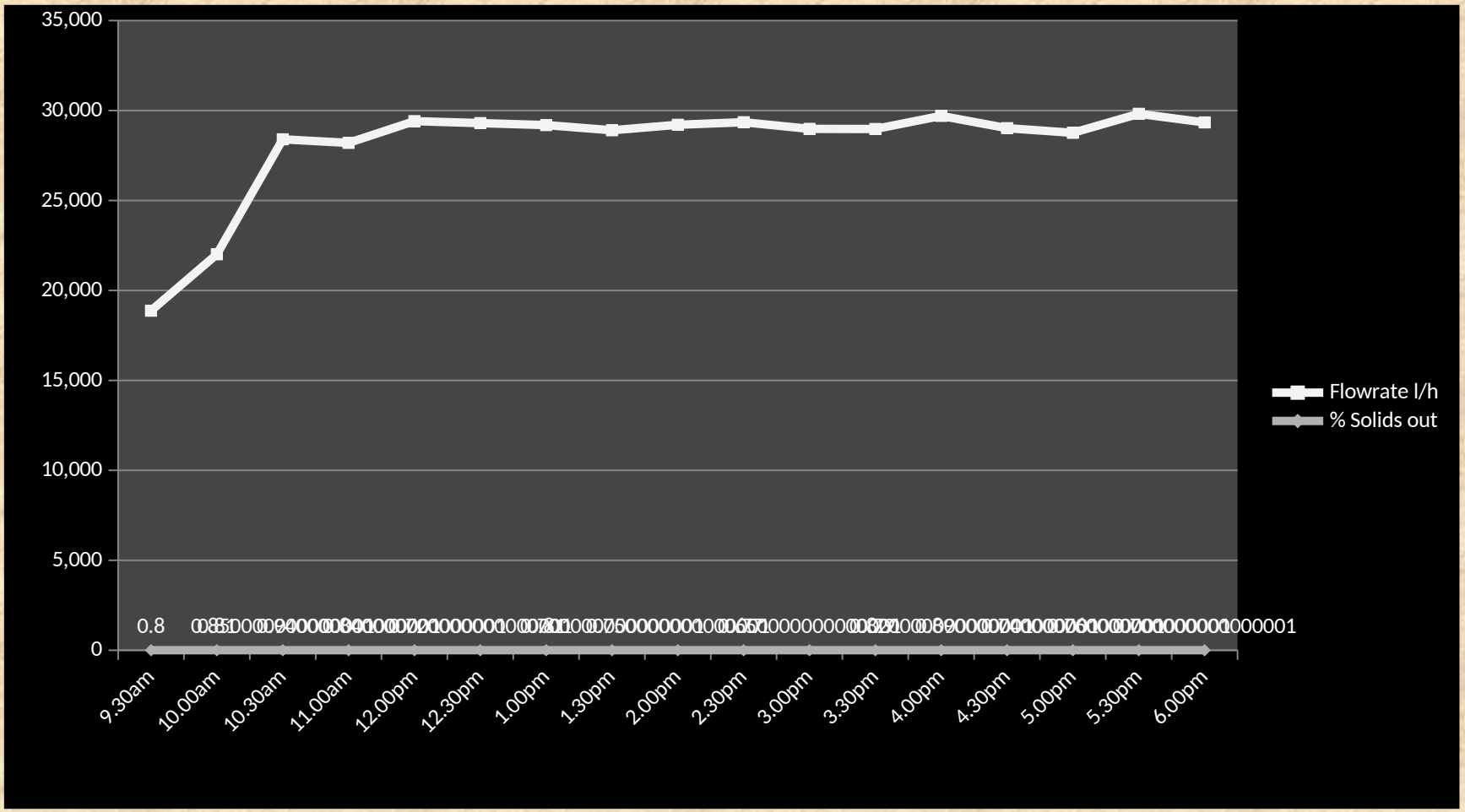
Operator Features

DELLA TOFFOLA
PACIFIC

Chardonnay Flotation

DELLA TOFFOLA
PACIFIC

Chardonnay Flotation



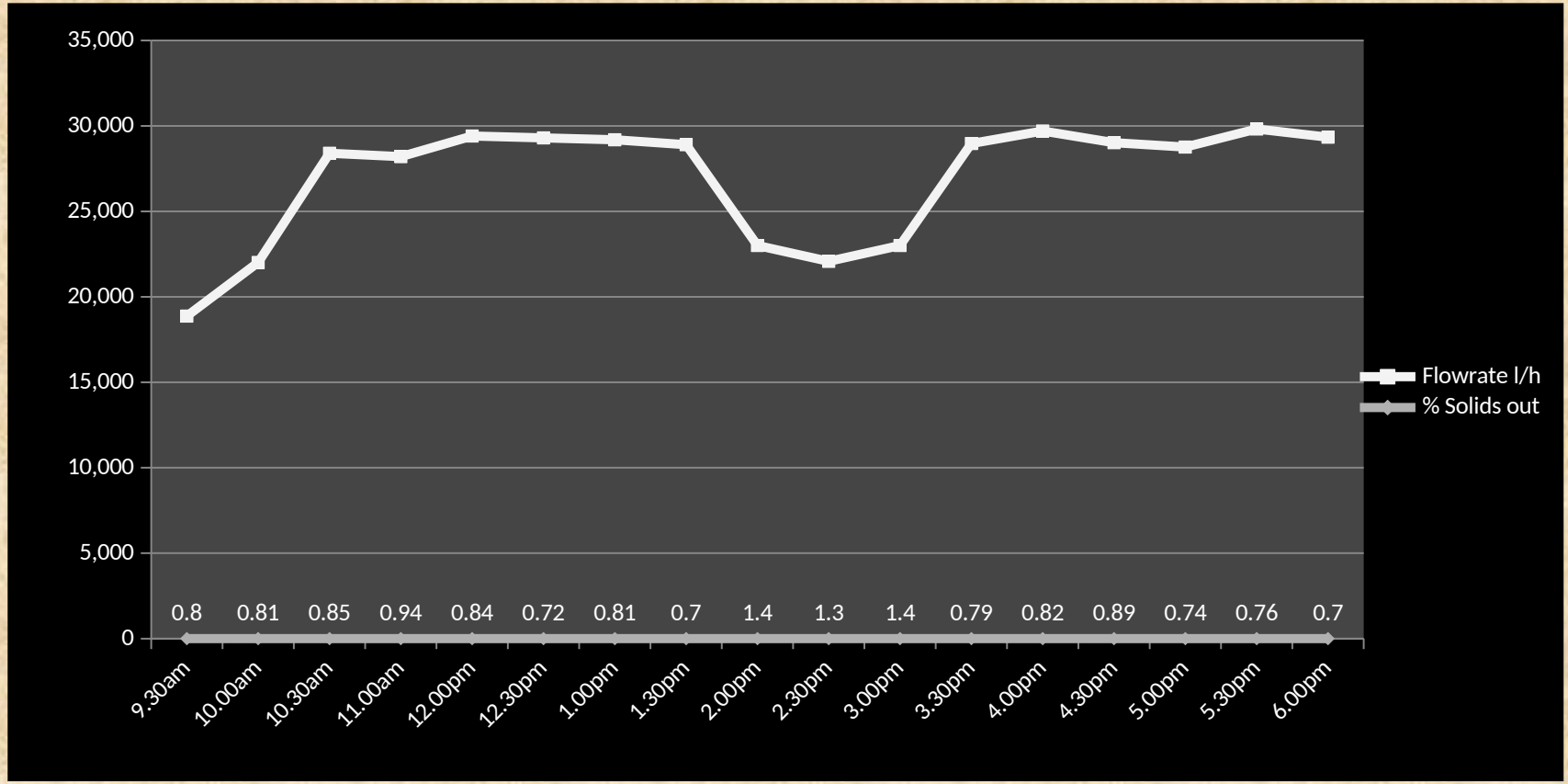
Over an 8 ½ hour period over 477,000 litres were floated with an average of 0.75% solids output achieved at a flow rate of above 28,000 l/h

DELLA TOFFOLA PACIFIC

Pinot Gris Flotation

DELLA TOFFOLA
PACIFIC

Pinot Gris Flotation



Over a 9 hour period over 457,000 litres were floated with an average of 0.89% solids output achieved at a flow rate of above 26,000 l/h

DELLA TOFFOLA PACIFIC

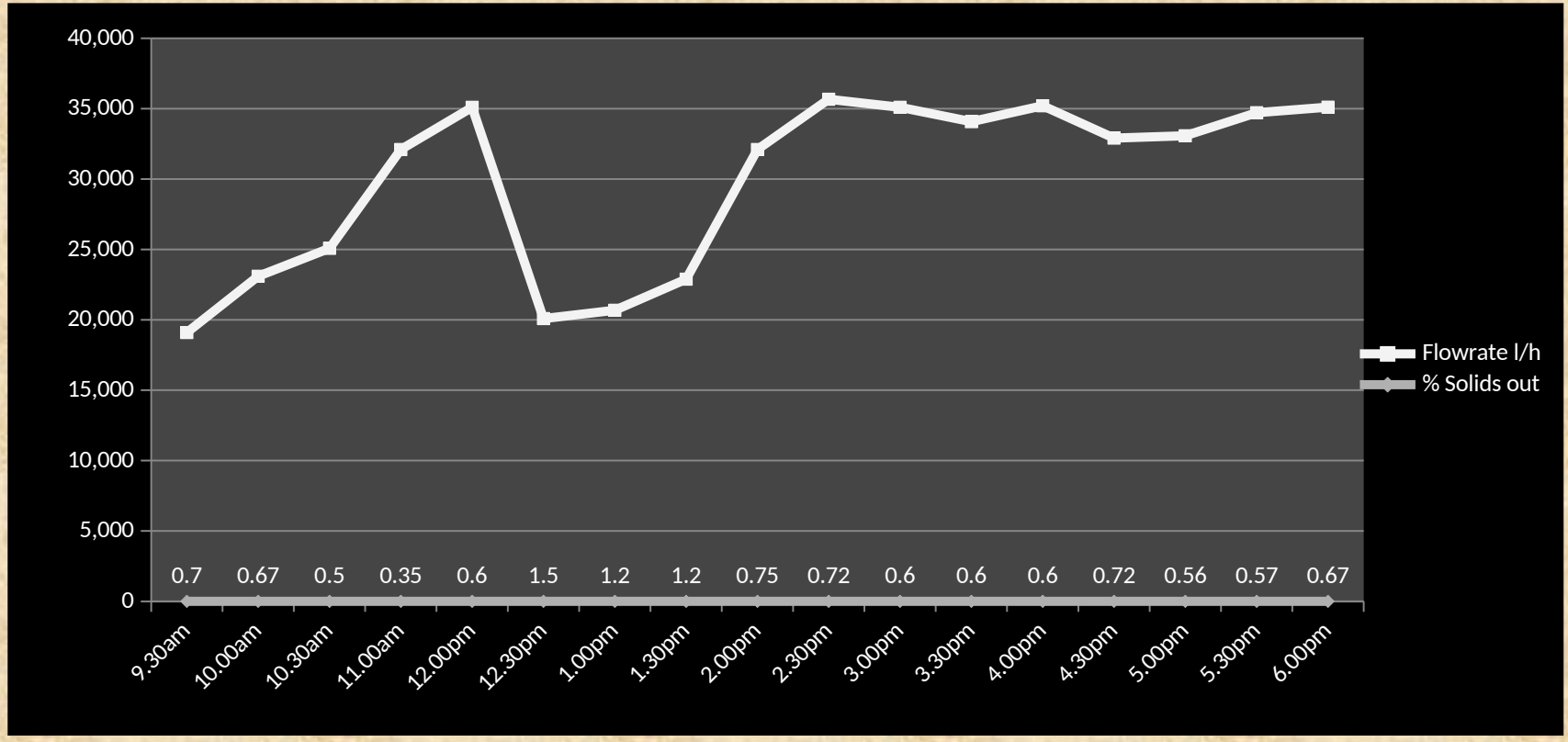
Sauvignon Blanc Flotation

DELLA TOFFOLA PACIFIC

Sauvignon Blanc Flotation

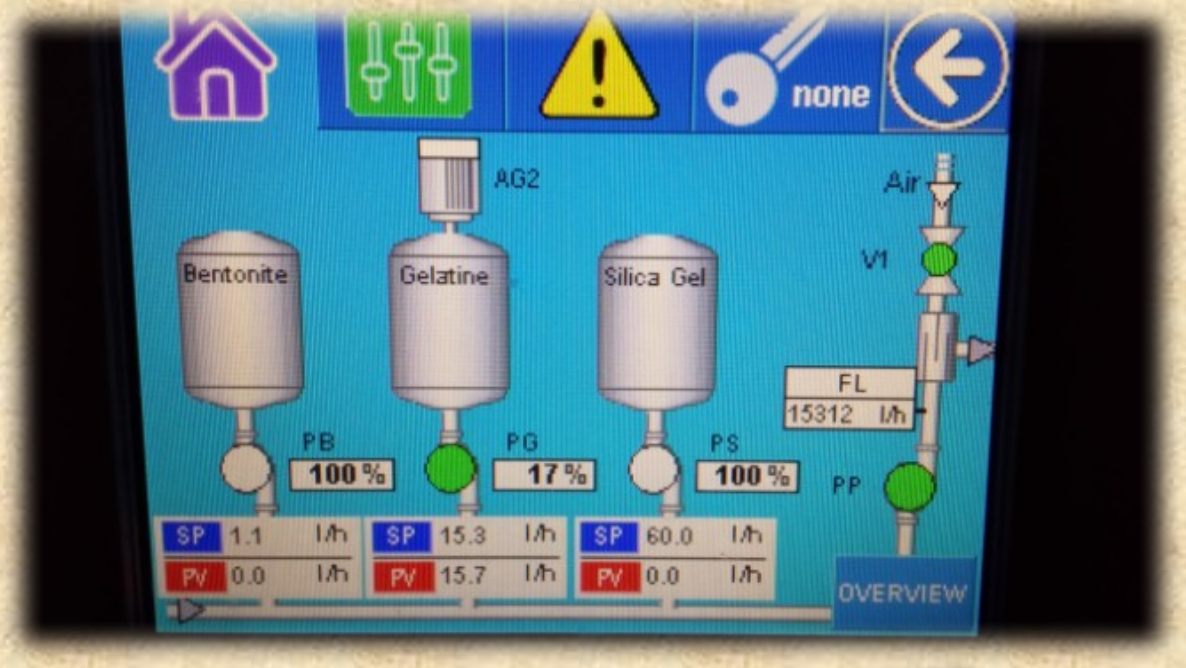
DELLA TOFFOLA PACIFIC

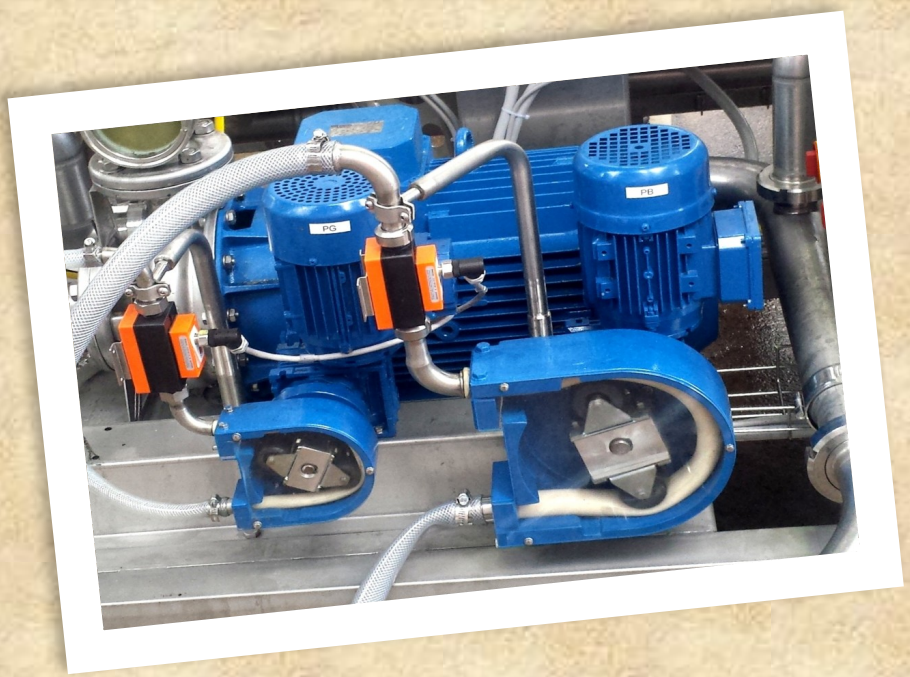
Sauvignon Blanc Flotation



Over an 9 hour period over 506,000 litres were floated with an average of 0.73% solids output achieved at a flow rate of above 30,000 l/h

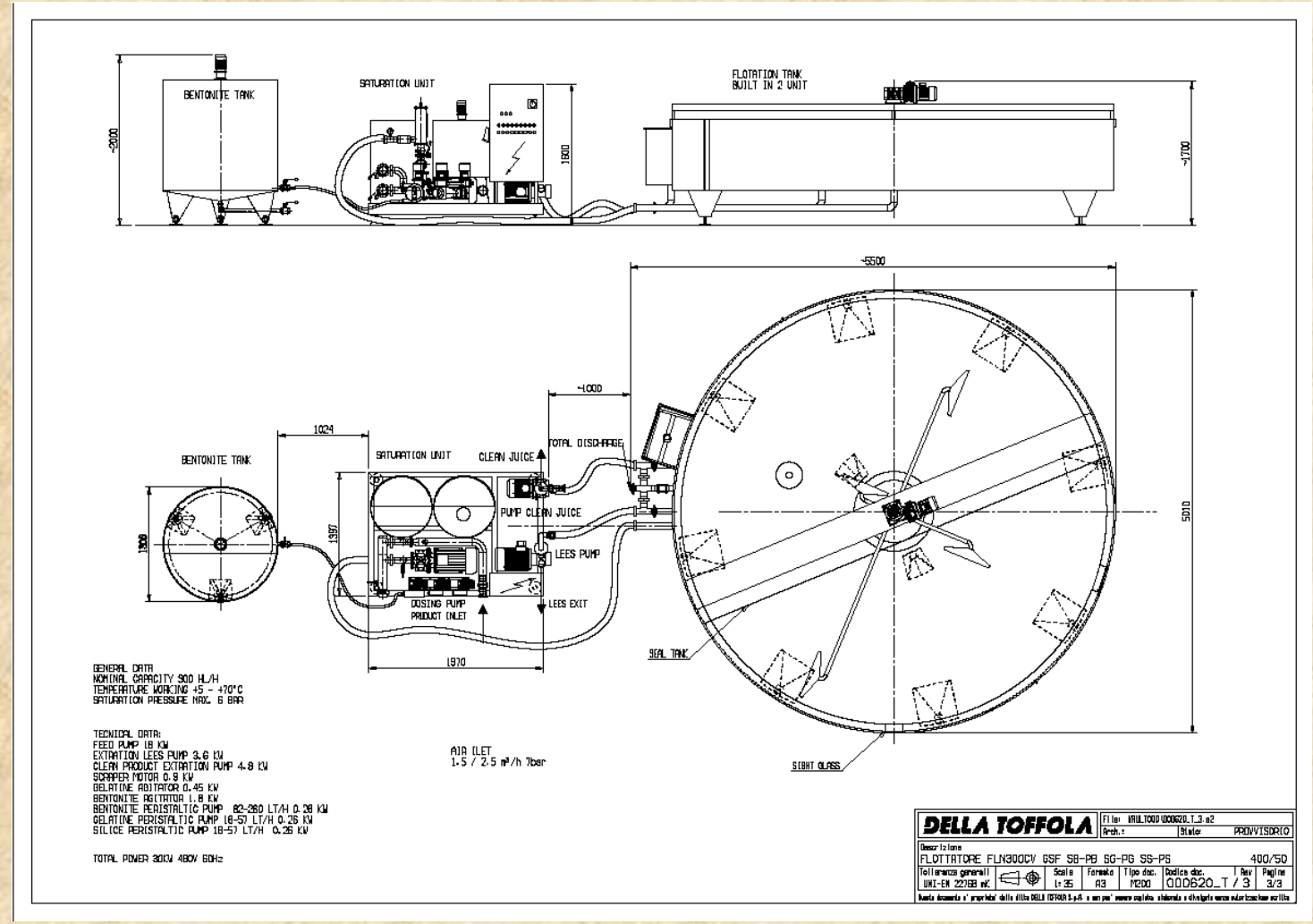
DELLA TOFFOLA PACIFIC





Dosing of Clarifying agents

DELLA TOFFOLA PACIFIC



FLCV 300 Layout

DELLA TOFFOLA PACIFIC

Double Stacking

DELLA TOFFOLA
PACIFIC

Installation & Commissioning

DELLA TOFFOLA PACIFIC

What's next ??

DELLA TOFFOLA PACIFIC

Boulton R.B, Singleton V.L, Bisson L.F, Kunkee R.E, Principles and Practises of Winemaking Chapter 7 pp 288-291. 1996

Delegats Wine Estates – Marlborough, NZ

TWG – Loxton, South Australia

Thanks & References

DELLA TOFFOLA PACIFIC