Continuous Vacuum Pan

• Superior Crystal Quality
• Improved Energy Efficiency
• Enhanced Exhaustion
• Low Capital / Maintenance Costs
• Simple Automatic Control
The advantages of continuous pan boiling

- Control simplicity: Pan steam and vacuum are constant and the product in each compartment is maintained at constant brix and crystal content.
- Product quality: Steady state operation provides predictable crystal growth.
- Steam savings: Steam demand is steady with few stops. There is no wasteful steaming out between boilings and no breaking/re-establishing vacuum.
- Energy savings: The low boiling head and high heating surface/volume ratio allows the use of lower grade vapour than required for batch pans.
- Operator savings: There are minimal operator requirements - no cutting over, no discharging and recharging, no charging of feedstocks, etc.
- Space savings: Typically CVPs require 50 - 60% of the pan floor space needed for equivalent batch pan capacity.

Special features of the Bosch Projects CVP

- Built-in heating beneath calandria: The steam heated condensate chamber provides additional heating to the massecuite beneath the calandria, promoting circulation and inhibiting crystal build-up in this area. (the extra heated area is equal to approximately 4% of the tube surface).
- High heating surface, low steam pressure: The heating surface area/volume ratio in the standard Bosch Projects designs is higher than offered by most competitors. This enables the Bosch Projects pan to operate successfully on V3 at 85 kPa abs.
- Smooth massecuite flows: The massecuite flow path configuration provides smooth ‘plug’ flow with no stagnant zones.
- Operator friendly: All valves and controls are easily accessed from the control platform - not underneath the pan. Clear site glasses provide good visibility of the process.
- Vertical tubes: These stimulate good circulation, are slow to foul but easily cleaned when necessary, and have minimal maintenance requirements.