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The BMA massecuite mixer permits optimum mixing of heated molasses and cooled massecuite. The maximum quantity of heated molasses to be added is 10 % on massecuite. Reducing the crystal content and raising the product temperature diminishes the viscosity of the massecuite, subject to requirements, by up to 1/5 of the original figure. In addition, the molasses serves as a lubricant.

The BMA massecuite mixer produces easy-to-centrifuge massecuite and replaces other re-heating equipment of the Green-Smith type which quite often operated inefficiently and at rather high costs.

The mixer consists of a tube with flanges at inlet and outlet. Inside the tube is a stirrer with special blades welded to the shaft. The stirrer is driven by an AC gear motor. For molasses feed, the tube has a 1" nozzle.

The massecuite mixer is installed vertically or horizontally "in line" between the final cooling crystallizer and the centrifugal station, and can also be used to add intermediate molasses.

Materials

Stirrer:	stainless steel
Mixing tube:	mild steel, stainless steel optionally available
Seal:	DN 200 / DN 250: stuffing box; mechanical seal optional; DN 350 / DN 500: mechanical seal

Features and advantages

Due to the high massecuite viscosity, molasses and massecuite do not mix easily; however, studies revealed that the BMA molasses / massecuite mixer provides excellent mixing efficiency.

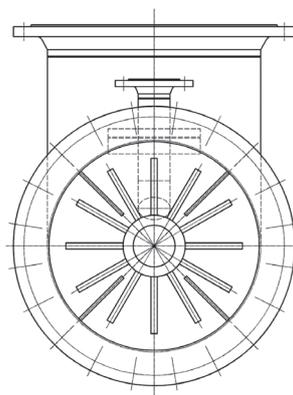
- higher sugar yield and higher dry substances as the massecuite can be cooled to a lower temperature
- better centrifugation
- viscosity of the massecuite can be adjusted by setting the temperature and the quantity of recirculated molasses
- small mass increase
- flexible in-line installation
- horizontal or vertical installation
- small floor space required
- low maintenance requirements
- low capital cost compared to other systems.

Available Sizes

Diameter of mixing tube

- DN 200
- DN 250
- DN 350
- DN 500

Mixer arranged directly at the outlet of a cooling crystallizer



Horizontal arrangement



▲ Subject to technical modification 03/2010
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