



Shaft
Arrangement



Back View,
Drive Side



Pre Scalding
Installation

The pre scalding machine accompanies the Maguin tower diffuser. It may also be added to an existing diffusion installation to improve the energy balance or to increase the capacity of the diffusion station.

The Maguin pre scalding machine is based on technology acquired from Buckau Wolf. It stands out thanks to its extreme working reliability and ease of operation which have been recognised by all its users since 1954.

MAIN FEATURES

- / shaft machined in one piece on horizontal lathe
- / high mechanical resistance of fixed arms for high capacity running
- / minimal maintenance
- / mechanical reliability superior to all other systems and long service-life
- / option of installation outside the building in all climates

ADVANTAGES

- / tried-and-tested, renowned technology
- / extended range from 3000 to 15000 t/d (nominal)
- / great operational flexibility: production capacity up to 120% of nominal rate
- / production of cold juice with a temperature difference of 10 to 15 °C in relation to the cossettes
- / energy gains obtained through the use of secondary heat sources
- / possible re-use of heat exchangers already existing in the sugar factory
- / degassing circuit optimised by automatic regulation

TECHNICAL DETAILS

The cossette mixer consists of a horizontal cylinder fitted with a rotating shaft assuring the compaction, the mixing and the transportation of the cossettes. It allows the rinsing and the re-heating of the cossettes using the diffusion juice circulating against and with the product flow before their entry into the diffusion system.

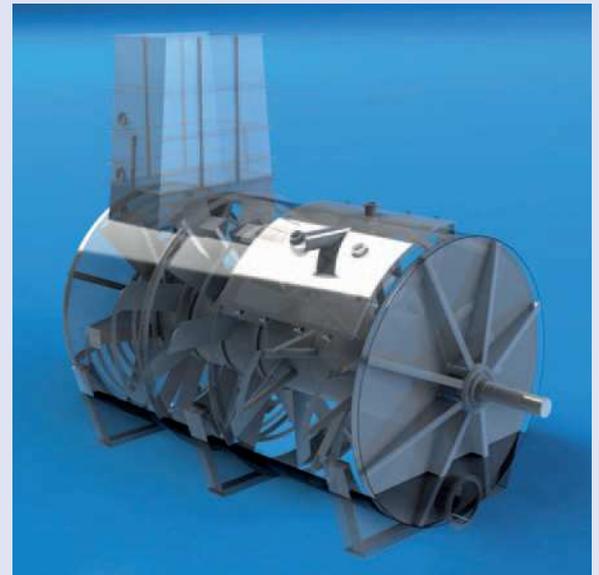
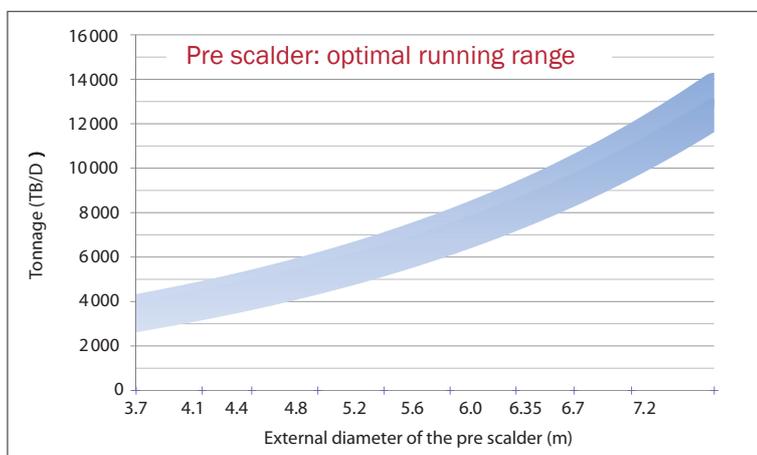
The shaft is driven by a variable speed motor regulated by a torque monitoring system. This leads to constant compaction of the cossettes and, consequently, the optimisation of the heat exchange with the juice.

The parts in contact with the juice are made of stainless-steel.

The screens are continually cleaned by scrapers and juice flushing.

The monitoring of the filling level ensures that the cossette juice mix is insulated from the ambient air.

To ensure defoaming, the filtered juice in the upper part of the cossette mixer is directed to a stainless steel tank in which the foam is broken up by a juice, steam or anti-foam injection.



Pre scalding 3D view



Pre scalding assembling