

Sugar Dissolving Station

Cost reduction by dissolving granulated sugar in a batch process

 Innovative Engineering –
Quality in Line.





Sugar Dissolving Station

The GEA TDS sugar dissolving station is a functionally tested unit for dissolving granulated sugar in a batch process. The system enables considerable cost savings compared with the use of liquid sugar.

The GEA TDS sugar dissolving station can handle a truck load of granulated sugar (approx. 25,000 kg) in a single batch process. As the granulated sugar is fed directly from the truck into the sugar dissolver no intermediate storage is necessary.

Performance features:

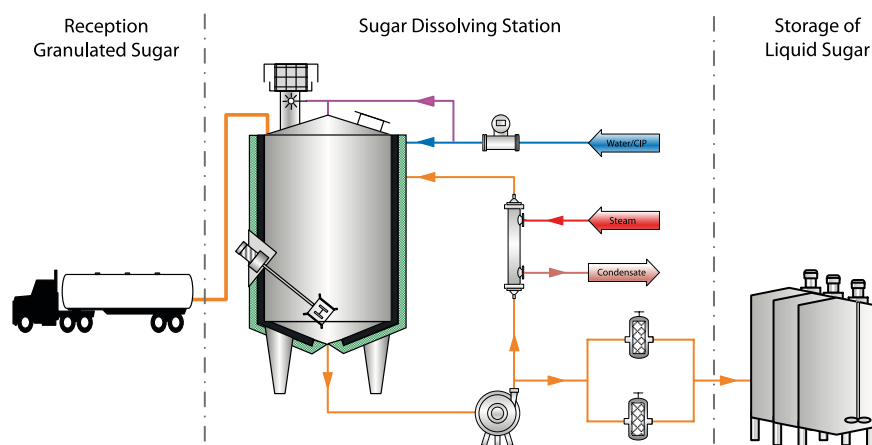
- Sugar dissolving in a batch process
- Completely pre-assembled unit including control system
- Can be integrated in the overall concept
- CIP-able
- Dissolves up to 25,000 kg of sugar per batch
- Yields approx. 38,000 kg of sugar syrup
- Cycle duration of a batch: 4 hours
- Up to 25 percent cost savings (basis: 65 °Brix, 30 °C)

The dissolving water is heated in a GEA TDS tubular heat exchanger and supplied to the dissolving tank. It absorbs the sugar dust produced during filling so that no dust can escape into the ambient environment.

A powerful agitator and the circulation of the sugar solution ensure efficient dissolving. The dissolved and unpasteurized sugar is made available for processing by the customer via a filter station. To ensure a continuous output of liquid sugar, the filter station works in tandem mode.

The sugar dissolving station can be integrated into the overall plant concept. It is equipped with an independent control system for automatic operation. The station can be cleaned by a CIP system.

The result speaks for itself: up to 25 percent cost savings compared with the use of liquid sugar can be obtained.



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