

Sugar dissolving centre



Specification

The equipment is designed to meet of demand on batch dissolving of granulated sugar in water, followed by filtration and cooling of liquid sugar during the transport into a place of use. It is capable of production of liquid sugar not exceeding 75 Brix. Dissolving temperature can be set in range from 80 to 95 °C.

The centre consists of two independent tanks, one used for sugar dissolving, the second for hot liquor recovery, valve cluster including flow distributing plate, heating cluster, pipework of circulation witch belongs to the dissolving tank including mixing ejectors, cooling plate heat exchanger and filtration cluster. The compact equipment is fitted together with electrical panel on a stainless steel base frame.

Features

- Accurate Brix contents in liquid sugar
- Automatic water dosing
- Plate heat exchanger with both product and cooling water flow control provides energy recovery in whole up to 50%
- Electronic steam pressure control in double sheet avoids any possibility of product caramelisation
- Intensive ejector agitating with recirculation circuit flow control, no propeller agitators
- Automatic procedures as water preheat, dissolving and delivery including cooling and filtration
- Adjustable flow control in product delivery mode including desired dose of product
- Two levels of automatic CIP procedures
- No need of operator except of manipulation with granulated sugar, changeover on flowplate and procedures choice on operators panel
- Allen-Bradley PLC control system with operators panel – easy to operate
- Communication prepared for up to three following equipments and CIP unit
- Easy to maintain, minimum of moving parts

Technical specification:

| | RCP 4 AP | RCP 8 AP | RCP 12 AP |
|--|-----------------|-----------------|------------------|
| Liquid sugar output in tons per hour | 3 | 6 | 9 |
| Dimensions max. (a x b x h) | 5.0 x 2.8 x 3.8 | 5.8 x 3.0 x 4.2 | 6.2 x 3.2 x 4.4 |
| Steam consumption (3 bar) in kg per hour | 500 | 750 | 1000 |
| Power demand | 16 kW | 20 kW | 27 kW |