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МИКСЕРЫ И БЛЕНДЕРЫ INLINE FORMULA Технические характеристики



Fluidizing powder into liquid requires process knowhow and engineering skills

Design based on proven high shear mixing technology

High shear mixing is one of the most demanding unit operations in today's process industries and a critical step in the production of high-quality end products. Choosing the right mixing technology is crucial to total cost of ownership and just-in-time production. With a design based on GEA's proven high shear mixing technologies, the GEA INLINE FORMULA® Powder Dissolver offers energy efficient, cost-efficient powder dissolving for multipurpose manufacturing - but with a small footprint.

Fluidize powder and hydrocolloids into liquid

With a robust, ergonomic and compact skid-mounted design manufacturers are equipped for every application with the Powder Dissolver system.

With the focus on flow characteristics the unit is designed to fluidize powder and hydrocolloids into liquid and meanwhile apply shear forces to the product. The Powder Dissolver is designed specifically for those who do not need the highly advanced high shear vacuum mixer (GEA INLINE FORMULA® SOL High Shear Mixer).

Compared to conventional methods of powder additions into the mixer tank with top-mounted agitator, the Powder Dissolver can reduce the process time significantly.

With the Powder Dissolver, liquid accelerates over the specially designed injector creating a venturi-based effect. This core design enables the operators to fluidize high volumes of powder without facing issues of "back-flush" or powder blockages of the entire system.

The Powder Dissolver is equipped with an integrated stator/rotor in order to apply shear forces to the product to ensure a rapid dispersion of powder and achieve a better, finer distribution and ultimately a homogeneous mix. By using the same flow characteristics as a centrifugal pump, we achieve high recirculation flow over downstream tanks enabling a fast turnover.

A large quantity of powder easily fluidizes into a liquid stream due to the combination of vacuum and the liquid injector.

Technical specifications

GEA INLINE FORMULA® Powder Dissolver

Processing parameters	
Max flow (on water), m3/h	90
Head @ max flow (on water), m	32
Max viscosity, cP	600
Max density, SG	1,5
Powder addition (crystal sugar), kg/h	4500
Consumption data	
Installed power, kW	18,5
Power supply, 50Hz, V	380-480
Fuse size	63A
Service water capacity, up to approx. L/h	5 @ ≤ 20 °C
Service water pressure	≤ 2 barg
Connections*	
Inlet	DN100
Outlet	DN80
Servicewater	8mm push-connector
Dimensions	
Length, mm	1500
Width, mm	550
Height, mm	950

*All connections are Clamp DIN 32676-A, unless stated otherwise.

Above process parameters are guidelines and can vary depending on powder ingredients.

Key benefits

- Ene gy efficient Powder Dissolver with small footprint
- E gonomic working environment for the operators
- H gienic design according to EHEDG
- ully drainable after CIP (Clean-In-Place)
- L w CAPEX and OPEX
- Multi-purpose application

Typical applications

- Dissolving of sta ch and stabilizers
- ecombined milk
- Mil - and plant-based beverages
- P e-mixers such as yogurt, desserts and ice cream
- Sugar and brine solution

Materials

All parts in contact with the product are made from stainless steel EN 1.4404 (AISI 316L).
Other parts are made from EN 1.4307 (AISI 304L).

Options

Control System (incl. frequency converter with start/stop button and emergency button).

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