k-ma process

Applikations- und Verfahrenstechnik
von Maschinenbau Kaltenbach GmbH

KALTENBACH

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people for process

Welcome at k-ma process

people for process

K-MA process

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people for process

Vacuum Homogeniser

TYPE K-DISHO

Solutions for the food industry

Solutions for the cosmetics industry

Advantages

- Homogeniser with multi-chamber system
- Direct dosing of powders
- Direct dosing of liquids
- Droplet size ≤ 1 µm
- Very little difference in droplet size
- Seals in aseptic design
- Short batch time
- Minimised cleaning time
- CIP / WIP

Vacuum Homogeniser
TYPE K-DISHO

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Basic functions

- Feed of raw materials
- Mixing
- Dispersing
- Homogenising
- Emulsifying
- Re-circulation
- De-aerating
- Discharge

- Mayonnaise & dressings
- Ketchup & emulsified sauces
- Creams, gels & ointments

Vacuum Homogeniser
TYPE K-DISHO

Vacuum / pressure vessel

- Heating/cooling
- De-aeration
- CIP / SIP

Agitator with vortex breaker

- Mixing
- Scraping

Homogeniser

- Mixing
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Homogeniser

Direct feeding into homogeniser

Feed hopper with agitator or vibrator

Feed hopper with load cells

- Liquids
- Powders

Flow meters for direct dosing

Additional functions

- Indirect heating/cooling via double jacket of mixing vessel
- Direct heating via direct steam injection
- Sterilisation of the plant (SIP)
- Automated processes
- Recipe management
- Automatic dosing systems
- Incorporation of small-sized solid components into the batch

Extended peripheral equipment

Examples:

- Drum emptying pumps
- Scales
- Lifting / tilting equipment for trolleys
- Buffer containers
- Discharge pumps
- Heat exchangers
- CIP booster pumps

- Integration of existing equipment at customer's

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Vacuum 600 mbar
Start scraper
Start cooling

↓

Add via mixing chamber
water,egg,vinegar,mustard…

↓

Start homogeniser
3000 rpm.

↓

Add dry spices, sugar, salt…

↓

Add oil
approx. 1.3 – 1.5 litres/sec.

↓

Vacuum 100 mbar
20 sec.

↓

Discharge

80% fat mayonnaise

	K-DisHo-400	K-DisHo-700	K-DisHo-1300
batches/h	5	4	3
litres/h, approx.	1.200	2.000	3.300

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Our references

Our machines and plants are used worldwide in international well-known groups and firms.