

# FrymaKoruma InMixx

Vacuum mixing and dispersing unit

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Agitator with vortex breaker



Dissolver disc



Feeding and discharge

The FrymaKoruma InMixx is a mixing and dispersing unit for the manufacture of liquid and semi-solid products over a wide viscosity range. It is particularly adapted to the most viscous products and those with a high proportion of solid ingredients. Its ease of use, rapid batch times and high versatility are features which recommend the InMixx to customers in the food and chemicals industries.

Both liquid and dry ingredients are drawn through flush seat valves under vacuum into the vessel, where the different phases are mixed, dissolved or dispersed.

The unit is fitted with a dissolver disc as standard, which is optimized for processing high-viscosity products. A double dissolver can also be used for products requiring a very high shear energy input. As an optional extra, the unit can also be fitted with a helical mixer, which is most effective for



# InMixx



mixing high-viscosity products that do not require any particular shear effect. And the propeller agitator is suitable for liquid and low viscous products. The vacuum system means products are de-aerated, so no additional down-stream equipment is required for this purpose.

A scraper agitator in the vessel macromixes the product, and ensures even processing by continuously removing product from the vessel wall. Another optional extra is a double jacketed vessel for heating and cooling. The scraper agitator prevents the product baking onto the inner wall of the container during heating phases. At the end of the process, product exits under vacuum and via a flush seat valve at the base of the vessel, leaving virtually no residue.

### Key benefits

- High production flexibility through replaceable mixing/dispersing elements
- Minimal service outlay, as wearing parts easily accessible
- Short cleaning times
- Dust-free incorporation of even large quantities of dry materials
- Greatest possible process flexibility through the ability to use different tools
- Programmable process parameters guarantee high reproducibility

### Standard version

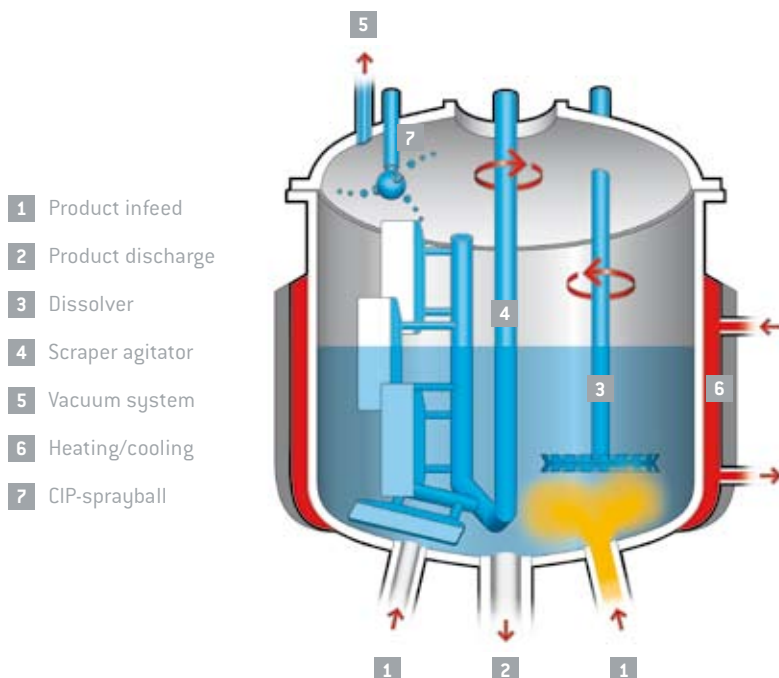
- Vessel with dished bottom
- Scraper agitator
- Dissolver disc
- Vacuum system
- Automatic valves
- Unit control module
- CIP

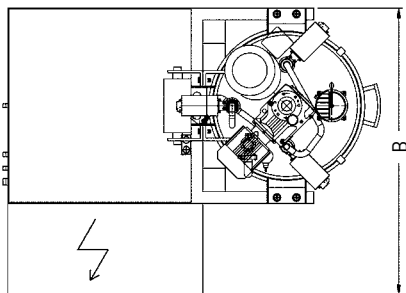
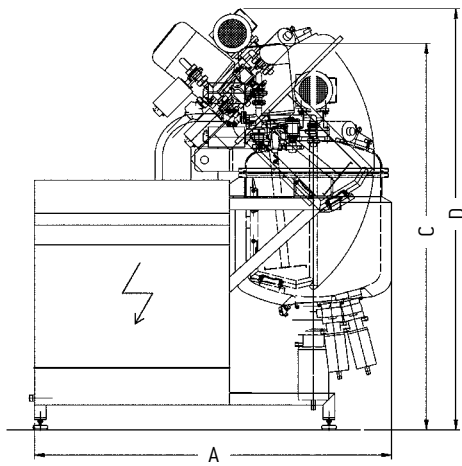
### Options

- Double jacket for heating and cooling, with isolation
- Direct steam injection for rapid heating
- Optional tools: double dissolver, helical mixer, propeller agitator
- Pressure-resistant vessel
- Various levels of automation available, up to fully-automatic control systems
- Further options upon request

### Applications

- Liquid cake mixture
- Processed cheese
- Baking fat emulsions
- Syrup, jelly
- Soup concentrate
- Plastic dispersions
- Fillers and putties
- Adhesives
- Artists' paint
- Furniture polishes, car waxes





	Usable volume [l] max.	Installed power [kW], approx.	Length A	Dimensions [mm]			Height* D	Weight [kg], approx.
				Width B	Height C			
<b>InMixx 200</b>	160	12,0	1900	1500	2140	2200	1000	
<b>InMixx 400</b>	300	16,0	2050	1700	2320	2500	1200	
<b>InMixx 700</b>	500	16,0	2250	1900	2700	2900	1800	
<b>InMixx 1300</b>	1100	40,0	3000	2100	3100	—	3000	
<b>InMixx 1800</b>	1500	40,0	3000	2100	3400	—	3800	

\* with open lid

For over 50 years, FrymaKoruma has been a leading international supplier of innovative process solutions for the pharmaceutical, cosmetic, food and chemical industries. Based in Germany and Switzerland, the company employs 200 people. The company's two principal areas of expertise are in one bowl vacuum processing for liquids and crèmes and in milling and grinding of materials from chemical pigments through to food ingredients. With over 23,000 installations worldwide, FrymaKoruma is undoubtedly the leader in its field, consistently setting the standards to which the market aspires. The company's enviable reputation and continuing success are based on the proven high performance and robustness of its equipment together with a desire to exceed customer expectation and build long term relationships. FrymaKoruma is a Romaco

Group company who since 2001 have been part of the NYSE listed corporation Robbins & Myers, Inc. a leading supplier of highly engineered, critical equipment and systems for global energy, chemical and industrial markets.

**Customer support**

FrymaKoruma understands that the scope of supply embraces much more than technology. Our team of highly skilled engineers work with you to develop a technical specification that exactly matches your requirements. From initial consultation through to installation and commissioning, FrymaKoruma offer a professional turn key solution.

At ProTec, our process technology center, customers have the opportunity to develop and optimize recipes in a modern laboratory, produce test batch-

es, carry out scale-ups or take part in detailed training courses. Our experienced team of process application technologists can guide customers through the development of everything from liquids to semi-solid products.

Our After Sales Service department, provide a comprehensive range of aftermarket products to ensure high availability and longevity for your equipment. Our team of technicians are able to offer on site maintenance and training to ensure high levels of effectiveness from your equipment. Furthermore, modifications and upgrades to plant which reflect changes in your business can be carried out on site. Our spare parts service is customer-orientated. We provide a high availability of spare parts which are promptly dispatched.

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