

# Pilot Mixing Plant

for the mixing of low viscosity, high viscosity and particulate products



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With this new mixing plant from Tuchenhagen Dairy Systems new innovative products can be produced using methods and processes not previously available.

Various kinds of low viscosity, high viscosity and particulate products can be mixed with each other without difficulty producing a suspension or dispersion as the result.

The whole process takes place either at atmospheric pressure, below atmospheric pressure or above atmospheric pressure, up to 3 bar, as required, and all at pilot plant standard.

The mixer consists of a 100 litre product tank with double walls that can be either heated ( $t_{max.} = 100\text{ °C}$ ) or cooled ( $t_{min.} = 1\text{ °C}$ ) as required.

The agitators required can be individually selected for the task in question as anchor stirrers, directed jet mixers, toothed wheels, through to dissolvers.

The agitators can be frequency controlled for optimal matching to the mixing process.

From evaluation of the tests conducted there follows the definition of the process parameters required for product production.

### Technical data:

Tank:	100 ltr, pressure = 3 bar, temperature = 150 °C	
Central agitator	0,75 kW, n = 38 l/min, FC	
Agitator (aside)	3 kW, n = 3000 l/min, FC	
Tank heating	water pmax = 3 bar, tmax = 100 °C	
Media	steam pmax = 12 bar, cooling water pmax = 12 bar, ice water pmax = 12 bar	
Connections	product outlet (inlet)	DN 40 acc. to DIN 11851-S
	steam, cooling water, ice water	DN 25 acc. to DIN 2633, PN 16
	tank above	3 x DN 100 acc. to DIN 11851-S
		sight glass
	water inlet	DN 25 acc. to DIN 2633, PN16
	pressure air	connection DN 10
	power	connection 16A