FRANKEN

Questionnaire for Phase Separator design

1. Application

2. Process data

		min	normal	max
Total flow rate	m³/h			
Total mass flow rate	kg/h			
Operating temperature	°C			
Operating pressure	bar g			

Coherent phase (1):		min	normal	max
Flow rate	m³/h			
Mass flow rate	kg/h			
Density (at °C)	kg/m³			
Viscosity (at °C)	mPas			
pH-value				

Dispersed phase (2):		min	normal	max
Flow rate	m³/h			
Mass flow rate	kg/h			
Concentration	vol.-%			
Density (at °C)	kg/m³			
Viscosity (at °C)	mPas			
Interfacial tension (between phase 1 & 2)	mN/m			
pH-value				
Method of droplet generation		static mixer stirrer	certrifugal pump other:	

Solids/ Impurities:

Concentration	mg/l	
Particle size	µm	

3. Separation efficiency requirements

Residual content of phase (2) in (1)	ppm wt	
Residual content of phase (1) in (2)	ppm wt	

4. Settling experiment

Height / Diameter of settling vessel	mm	/
Filling height / Height of liquid-liquid interface	mm	/
Settling time	s	
Optical evaluation of separation result		

5. Vessel

		min	max
Design pressure	bar g		
Design temperature	°C		
Design code		PED (AD2000) DIN EN 13445	ASME other:
Place of installation		inside building outside	Location:
Materials			
Nozzle flanges		DIN EN 1092-1 ASME B16.5	other:
Insulation		no	yes, thickness:

6. Additional information

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