PRODUCT DATA SHEET

Ultrafiltration Modules

UF Module Mic UF35

OVERVIEW

Module Specifications

PARAMETER	UNIT	SPECIFICATION
Name of model	-	Mic UF35
Diameter	mm	250
Body and cap material	-	U-PVC
Nozzles	mm	DN50 - Victualic
Potting material	-	Polyurethane

Membrane Specifications

PARAMETER	UNIT	SPECIFICATION
Material	-	Modifiziert PVDF
Membrane Type	-	Hollow Fiber UF
Flow Direction	-	
Fiber outside/inside diameter	mm	1,4/0,8
Active surface area	m^2	35
Nominal MWCO, Dextrane	Dalton	≤ 150.000

Feed Water Specifications

PARAMETER	UNIT	SPECIFICATION
Temperature	°C	25(max 40)
Particle dimension	µ	< 200
Turbidity	NTU	50 (max 250)
Oil and grease	%	0 (max 1)
pH	-	6-9
TOC	mg/l	< 10 (max 30)
Total Suspended Solid(TSS)	mg/l	50 (max 80)
Chlorine	mg/l	0,4 (max 150)

Operation

PARAMETER	UNIT	SPECIFICATION
Operation modes	-	Dead end / crossflow
Temperature	°C	1 - 40
pH	-	2 -11
Filtrate Flux@25°C	L/m^2h	45 -180
Flow Capacity	m^3/h	2 - 8
Feed water inlet pressure @25°C	bar	5
TMP	bar	0,4 - 2
Filtrate water SDI	-	≤ 2,5
Filtrate Water Turbidity	NTU	≤ 0,1

Cleaning, Disinfection & Preservative Solution

PARAMETER	UNIT	SPECIFICATION
REINIGUNG		
Max. backwash pressure	bar	2,5
Max. air flowrate	Nm^3/h	8
Chemically Enhanced Backwash (CEB)		
Sodiumhypochlorite (NaOCl)	mg/l	1000
Sodium hydroxide (NaOH)	mg/l	500
Hydrogen peroxide (H_2O_2)	mg/l	100-500
Hydrochloric acid (HCl)	mg/l	1000
Citric acid	%	1-2
Oxalic acid	%	1-2
Cleaning in Place (CIP)		
Frequency	When the current TMP pressure is 0.9 bar higher than the first TMP Pressure.	
Operation duration	Circulation or Filling method, 2 hours	
Chemical cleaning solutions (up to pollutant)	0.1% NaOH + 0.2% NaOCl 0.2% HCl, 2% Citric acid, 2% Oxalic acid	
Cleaning flowrate per module	1-2 m^3/h	
Preservative Solution	20% glycerol, 80% water, 1 g of Sodium metabisulfide per 100 g solution