



Micro Rotating Filter MDF

Efficient Solution for Liquid/Solid Separation, Filtration and Thickening

- Efficient operation due to high capture rate
- Micro sieving without chemical additives
- Gentle treatment of solids
- Even separation of abrasive media possible
- Low operational costs
- Fully automatic cleaning either by air or service water
- Complete encapsulation
- Materials: stainless steel AISI 304 or AISI 316 Ti/L

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Application

The Micro Rotating Filter is a unit made of stainless steel, designed for liquid/solid separation within the field of process water of various industries.

Description

An efficient and reliable fine sieving is essential not only for a comprehensive water recycling but for completely closed water circulations. For these applications, the Micro Rotating Filter MDF with mesh sizes between 25 and 2000 μm is the best choice. This filter offers a high capture rate at low operational costs during continuous operation.

The choice between different cleaning media is part of the adjustment to the individual site conditions. In addition, different discharge devices and the level controlled drum rotation have to be considered.

Function

From the MDF's inlet connection the waste water runs off into the filter drum consisting of a steel construction which is covered with a stainless steel wire gauze. The solids being larger than the meshes of the filter gauze settle at the gauze and are transported upwards by the rotating filter drum.

The level-depending control of the drum rotation makes possible the built-up of a filter cake, thus, allowing for an even higher separation effect. The filtrate runs downwards through the gauze and is returned into the pump cycle resp. to the channel etc.

The filtered solids which have been transported upwards in the drum are blown downwards by a linear in and out moving exhaust register. The fallings solids end up in the discharge conveyor which removes them from the filter drum.



Your Benefit

- continuous, atmospheric operation
- gentle solids separation
- separation of abrasive media possible
- higher separation effect due to filter cake
- single replacement of stainless steel wire gauze segments possible
- fully automatic gauze cleaning either by service water or air

