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Product Name :Demonstration Of Dissolved Air Flotation

Product Code: LBNY-0005-1190003



Description:

Flocculation chemicals can be added to the rawwater in order to improve the flotation of the contaminants. The diatomiteprovided is suitable as a contaminant. Flotationprocesses are used to separate solids from a liquid. The flotation process mostcommonly used in water treatment is dissolved air flotation. The suspension tobe treated is placed in a tank. A pump transports the raw water, whichenters the flotation column via a vertical pipe. The air dissolves in the water under pressure. Part of the waterflows back to the pump via a bypass. The other part of the water enters apressure vessel filled with Pall rings. The height of the supply linecan be adjusted. The pressure vessel ensures asufficiently long dwell time to dissolve the air and to separate undissolvedair. A water circuit with pump is connected to the flotationcolumn. Two compressors supply air to the water circuit on the suction side ofthe pump.

The water then enters the flotation column from below via a valve. This causesa sudden drop in pressure to almost atmospheric pressure. The contaminants rise up in the column together with the air bubbles. At the upper end of the flotation column, the contaminants enter a circulating channel. Since the solubility of air increases with increasing pressure, the excess air forms small bubbles. The air bubbles accumulate on the contaminants.

Features:

Transparenttank for observing the processes Mechanicalwater treatment

Technical Specification:

Continuouslyadjustable speeds of peristaltic pump and stirring machine Height-adjustableinlet for raw water into the flotation column Flotationcolumn made of plexi glass

2 compressorsfor introducing the air into the water circuit Transparentpressure vessel with Pall rings Raw watertank with stirring machine Peristalticpump for pumping raw water Water circuitwith pump and bypass.



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