

Optimized foam deaeration reduces space requirements InjectaPump

Efficient foam deaeration in the smallest space

In deinking flotation, contaminants are removed from the paper suspension by air being introduced in the suspension so that the contaminants accumulate on the air bubbles. Then the foam is fed into the deaeration. Due to their opening, the foam tanks used for this can overflow with large amounts of foam and often defoaming agents are needed. In addition, the tanks have to be placed separately in the basement and thus take up a corresponding amount of space. With the new InjectaPump foam deaeration pump from Voith, noticeably less space is required for foam deaeration, since the pump is placed next to the cell or directly at the foam downpipe.

Lower your investment and maintenance costs

In addition, a foam tank for primary and secondary flotation (including agitating unit) is no longer needed thanks to InjectaPump. This reduces the space requirement and the maintenance-intensive overflowing of the tanks no longer occurs. Other savings are also achieved, as InjectaPump combines the foam destroyer, subsequent deaeration and pump in one machine. In addition, the costs for chemical additives can be reduced. At the same time, a very good deaeration result is obtained because the air content of the foam mass is reduced from up to 80 % to an average 8 % upon passing through the pump. Conventional foam deaeration pumps merely achieve a reduction to 12 %.

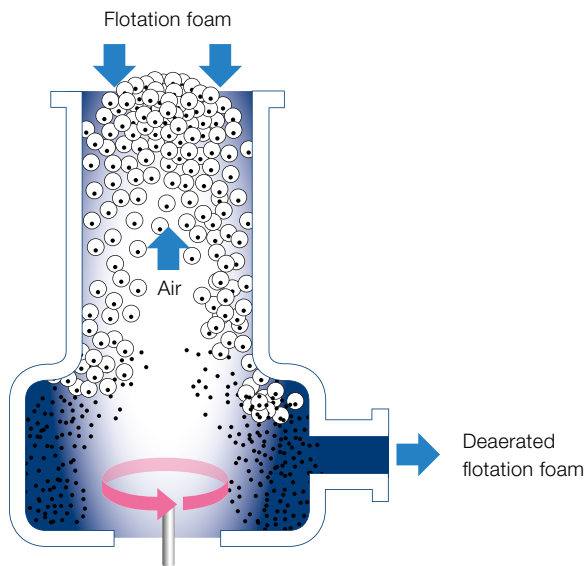
BlueLine – sustainable solutions for the future

InjectaPump contributes to a resource-saving production due to the reduced maintenance costs and is thus part of the new BlueLine product line. The product line is tailored to the needs of the modern, environmentally friendly paper industry. With BlueLine, customers profit from proven Voith quality and reliability and at the same time low energy and water consumption, reduced fiber loss, enhanced safety and low maintenance costs.

Your benefits

- + **Less space required for the flotation system**
- + **Saving of investment costs**
- + **Favorable operation**
power input: 22 – 48 kW, depending on set-up)
- + **No overflow of the foam tank**
- + **Stable deaeration even with changing operating parameters**

Function InjectaPump



1. The flotation foam enters through the top of the machine.
2. The foam is pre-deaerated in the upper part of InjectaPump.
3. A subsequent deaeration takes place in the lower part through centrifugal forces.
4. The liquid ring deaerates the foam and builds up the required pump pressure.
5. The deaerated foam is pumped out of the lower part of the machine.
6. The air exits the machine through a side opening and returns to the flotation cell.

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