

Case Study

Positive displacement blowers



Drinking water plant Choisy Le Roi - France

2009

Positive displacement blowers HIBON B2 SNH8110 AD with enclosure and frequency converter are used for filters cleaning.

Customer Overview

The Choisy-le-roi factory is one of the biggest factories of drinking water in the world. It supplies every day 350 000 m³ of water to 1,7 million inhabitants of a Southern Parisian suburb (France) and it can, if need be, double its production to help the factory of Neuilly-sur-Marne / Noisy-le-Grand.

Challenge

At the conclusion of the settling, the water is steered towards filters of homogeneous sand and "bicouches" filters (sand - activated charcoal), sized for a speed of filtration of 12 m/h, that allow to distribute the elimination of suspension materials on 2 materials of different grading sizes: for the same filtering surface, these works allow the treatment of a more important flow.

Filters are cleaned by a wash of air and water made against the current. The automatism determines the order of filters wash according to their degree of sealing and activate the operations of wash and rinsing.



Solution

We installed 3 B2 SNH8110 AD with enclosure and frequency converter.

Gas : **Air** - Differential Pressure : **500 mbar g**

Flow : **5782(4682) - 9261(7500) m³/h(Nm³/h)**

Motor size : **200 kW**



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