

PROCESS

SEMICONDUCTOR

SOLAR

PHARMA

POWER GENERATION

FOOD & BEVERAGE

PULP AND PAPER

CHEMICAL

OIL AND GAS

MINING

AEROSPACE AND TRANSPORT



AEROFIT[®].V

Energy efficient maintenance-free aeration
with the utmost aeration possible





AEROFIT®.V aeration system for the industrial waste water treatment

Energy-efficient. Maintenance-free. Self-cleaning.

AEROFIT®.V is one of four processes for aeration of waste water within the portfolio of HAGER + ELSÄSSER. Each process has been developed for specific areas of application, each with their own typical characteristics and requirements. For AEROFIT®.V, these are mainly for pulp and paper production, the oil and gas industry, and food and beverage production.

AEROFIT®.V is a medium-size bubble aeration system. It is characterised by particularly high oxygen transfer efficiency, long service life and a wide control range, whilst maintaining a consistently high level of efficiency. Thus, AEROFIT®.V offers decisive advantages over membrane aeration. AEROFIT®.V can be used for surface aeration as well as in spiral flow, whilst at the same time

being highly resistant to the effects of precipitation and blockages. Thus, AEROFIT®.V is not only suitable for challenging applications in moving bed systems and MBRs, but also for decalcification reactors.

This system, developed by HAGER + ELSÄSSER, has been used all over the world for more than 30 years and with great success.

Benefits

With their low susceptibility to blockages, systems utilising the AEROFIT®.V system are suitable for maintenance-free industrial use over many years, even under the toughest operating conditions, for example, resulting from heavy lime precipitations.

As a medium-size bubble system, AEROFIT®.V achieves maximum aeration efficiency, with an oxygen yield (SAE) of over 2.7 kg/kWh.

The wide control range of aeration allows for optimum adjustment in line with individual system requirements and energy optimisation.

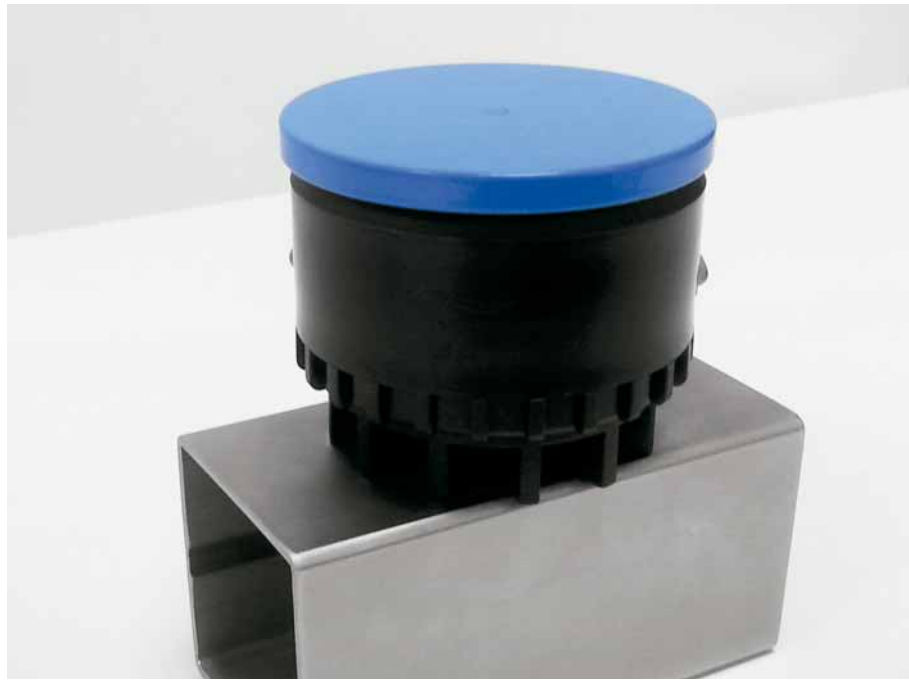
Especially when applied in MBBRs, aeration with AEROFIT®.V achieves consistently excellent fluidisation of the carriers.

Due to extensive pre-fabrication with the highest quality of workmanship, installation of the aeration systems is quickly and easily

Thanks to the sophisticated design of the AEROFIT®.V system, the aeration exit slit is self-cleaning to a large extent, thus allowing trouble-free operation.

These excellent self-cleaning properties mean that the AEROFIT®.V system has a positive effect on the life cycle costs of the entire plant, since there is no increase in pressure loss even in long-term operation.

Quick and easy installation of AEROFIT®.V thanks to extensive pre-fabrication and high quality of workmanship.



Use of AEROFIT®.V aeration system in the pulp and paper industry to ensure maximum aeration with maximum oxygen transfer.



Further available process technologies

BIOFIT®.C/.H

AEROFIT®.V works particularly well in combination with plants of the BIOFIT®.H and BIOFIT®.C type for full biological purification of industrial waste water including COD and carbon reduction. Both innovative process technologies from H+E.



BIOFIT®.M

BIOFIT®.M membrane bioreactors ensure a very reliable wastewater treatment even in very difficult cases. The great advantage is their extreme reliability when very strict flow limits must be observed and combined with that their extremely compact installation.



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