



FLEX-AERATION, TYPE NFA-B

Flexible and easy installed bottom aeration



Aerobic treatment systems are based on a biological process operated and controlled under aerobic conditions (with aeration) that effectively treats COD, BOD and VSS into water, carbon dioxide and new biomass. Besides the applied (waste) water SBR, Continuous, MBR and MBBR biological technologies, the market of aeration products can be divided into surface aeration and bottom aeration.

Nijhuis FLEX-AERATION bottom (NFA-B)

Next to our surface aeration package, Nijhuis delivers a complete in-house bottom aeration package, NFA-B, ensuring flexible and easy installation. Depending on your situation, tubes or disc diffusers membranes can be installed. The aeration affected is uniform over the surface of the membrane.

APPLICATIONS

- New or retrofit plants
- Wastewater or drinking water plants
- Treating COD, BOD and VSS
- Meeting your discharge limits

CUSTOMER BENEFITS

1. Flexible and easy installation
2. Reduced design cost because of standardized modules
3. Fast installation time due to the revolutionary connection concept
4. High efficiency per installed unit area of diffuser
5. Connected to any existing piping system
6. All components are recycle



The produced product and chosen raw materials are selected on durability, long operational life time and energy efficiency. The installation of these products ranges from small tanks to lagoons due to the difference in mixing and oxygen dispersion.

Bottom Aeration Package

By properly selecting, designing, building and operating aerobic processes, you can achieve the best aerobic treatment solution that is sustainable and has the lowest possible cost of ownership. Our objective is to design the most flexible and competitive solution for each application.

Our bottom aeration package is consisting of:

- Nijhuis Added Value Services:
 - Design, Engineering, Manufacturing, Transportation, Installation & Commissioning
- Selection of aeration blower
- Nijhuis air support line
- Nijhuis Modular Aeration Piping System
- Nijhuis diffuser membrane material and execution

Aeration Piping System and diffusers

The Aeration piping system can be combined in lengths of about 1.8 meters (6 ft) for any basin configuration. The unit is available in DN 50-100 (2"-4"). This allows an easy integration in existing piping systems.

Nijhuis diffusers can be retrofitted into basins equipped with fine bubble aeration to increase efficiency and yield a reasonable payback as well as older, coarse bubble installations. New installations will be the lowest cost high efficiency diffuser system available.

The performance, economics and service life of a wastewater aeration system are determined primarily by the quality of its membranes. The Nijhuis diffuser membranes are available in various materials: EPDM, silicone, tubular membranes as well as EPDM and proprietary elastomer disc membranes

Customer benefits

- No pipe welding, coupling or adhesives required during installation.
- Designed to allow thermal expansion without expansion joints.
- Can be connected to any existing piping system.
- All components are recyclable and free of PVC.

