

Product Range

ABS Nopon Disc Diffuser System

ABS Nopon disc diffuser system offers a number of alternative membrane and porous aeration diffuser models that are easy to install and maintain. Special features that improve the operation reliability and efficiency include the non-return valve, available on all models and the sliding ring, available on the ABS Nopon membrane diffusers.

High oxygen transfer efficiency combined with low pressure drops makes the ABS diffusers extremely effective.

In the Nopon disc diffuser system MKL 215, air passes through pores in the disc to form medium-size bubbles when released through

the disc surface. In the Nopon disc diffuser system PIK 300, the membranes bulge out and slits open during aeration by the pressure of compressed air.

Net effective area:	0.025 m ² (HKL, KKI, MKL) 0.060 m ² (PIK, PRK) 0.186 m ² (DS 20)
Operating range:	0.5 - 15 m ³ /h (referred air t° = 20 °C and 101.3 kPa ambient pressure)



ABS Submersible Aerator OKI

ABS Nopon submersible aerator OKI is a heavy-duty unit with the capacity to operate both as an aerator and/or a mixer. This makes it suitable for discontinuous aeration processes, such as simultaneous denitrification, nitrification and SBR processes, even at depths of 12 m and in liquids with high dry matter content. The high pumping and mixing capacity of the OKI aerator makes it the right choice for SBR,

MBR and MBBR processes. Maintenance or changing the plant configuration is easy thanks to the OKI's liftability.

Oxygen transfer:	up to 405 kg O ₂ /h
Motor range:	3 - 37 kW



ABS Submersible Aerators TA and TAK

These products are suitable for wastewater treatment in municipal and industrial plants. Main application areas are mixing and equalization tanks and activated sludge tanks. Suitable also for SBR-reactors and sludge storage tanks at a water depth between 2 and 9 m. The aerator is free-standing on the bottom of the basin and hence can be installed without emptying the basin.

The self aspirating aerator has a very low noise level due to its efficient silencer. Compared to conventional surface aerators the submerged TA aerator creates no aerosol thus preventing formation of coliform bacteria. It produces fine bubbles and the oxygen transfer factor is high.

Oxygen transfer up to:	80 kg O ₂ /h
Motor range:	3 - 75 kW
Noise level:	48 - 75 dBa



ABS Venturi Jet Aerator

A unit ideal for mixing combined with aeration of municipal and industrial wastewater in small-medium plants. It is also suitable for use in equalization tanks where mixing and aeration reduce septicity and smell. Another application is cleaning stormwater tanks. The Venturi jet aerator is especially suitable for emergency or intermittent aeration tasks.

It is based on the injection principle: an effective air-water mix is produced, which results in optimum aeration and suspension of solids.

Water circulation, max:	500 m ³ /h
Air throughput, max:	550 m ³ /h
Motor range:	1.3 - 18.5 kW

