

Data sheet:
Buffer inlet AP 7000 / AP 13000



Description:

Clearfox® buffer modules are fully equipped liquid storage tanks in a high-quality PE form.

The shape of the tank and most of the equipment is produced by rotational moulding from a single piece of highly resistant polyethylene.

All equipment, such as level sensors, optional aeration membranes, are pre-installed in a cubic tank to provide a high-performance buffer for wastewater treatment.

The typical application is the storage of inflowing and screened wastewater as well as sludge storage.

For a trouble-free operation of the buffer, only mechanically cleaned wastewater ($\leq 3\text{mm}$, on-site) may be fed into the buffer.

If the buffer is equipped with an optional aeration system, the microorganisms can already start to grow in the buffer and here slightly reduce the carbon concentration of pre-treated wastewater of any kind, industrial or municipal.

The modules are designed for installation in HC sea containers (e.g., Clearfox® container modules).

The connections to the customer's wastewater are designed for quick and easy plug & play connection on site.

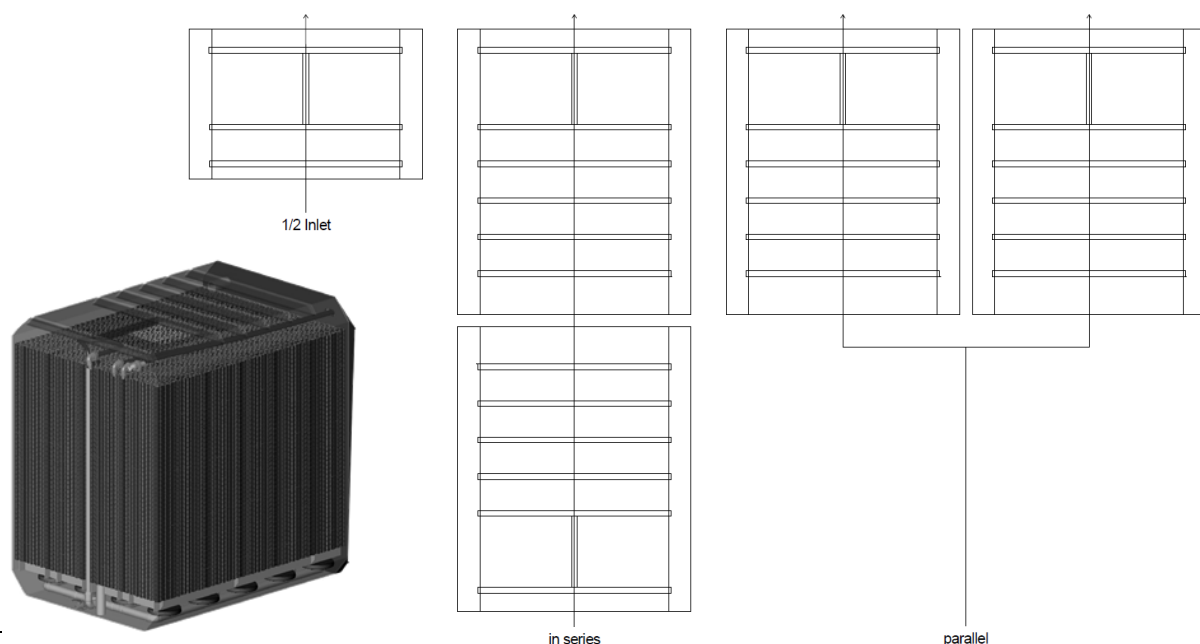
Up to two modules can be connected in series. If several modules are connected in parallel, the wastewater level is hydraulically balanced so that the same water level is available in all buffer modules.

The scope of delivery of the aerated buffer includes a blower (incl. for aerated buffer), which is adapted to the number of modules and the type of connection.

If required and after consultation with PPU Umwelttechnik GmbH, the non-aerated buffer can also be used as a secondary sludge storage tank.

The modules are adapted according to customer requirements (inlet concentration, wastewater demand).

The design is carried out according to the guidelines of the DWA. Test reports and certificates for statics, origin, DWA guidelines are available on request.



Specification:

Module:	AP 7000	AP 13000	2x AP 13000
Tank:	7000 I Tank	13000 I Tank	26000 I Tank
Buffer module:	33% of HC Container	50% of HC Container	100% of HC Container
Measures: (l, w, h) in cm	1.35 x 2.10 x 2.57	2.74 x 2.10 x 2.57	2x (2.74 x 2.10 x 2.57)
Required space:	2.80 m ³	5.75 m ³	2x 5.75 m ³
Transport weight:	350 kg	650 kg	2x 650 kg
Max. operation weight:	7300 kg (filled with water)	13600 kg (filled with water)	27200 kg (filled with water)
Inlet connection by gravity or feed pump pressure line (with possible height):	DN 100 (at 2.40 m)	DN 100 (at 2.40 m)	DN 100 (at 2.40 m)
Possible Outlet connection (with possible height):	DN 100 (at 2.40 m)	DN 100 (at 2.40 m)	DN 100 (at 2.40 m)
Roof Opening:	60 cm x 60 cm	60 cm x 60 cm	60 cm x 60 cm

Application:



buffer installation into a sea container

20 feet High Cube Sea container:

PPU Umwelttechnik GmbH installs 2x buffer modules in one reinforced sea container. The two buffer modules are connected in series. The container has ready mounted flanges IN: DN100-PN10, OUT: DN100-PN10, height = 2,45m,

The sea container is equipped with max. 3 access openings 600x600 mm with lids and a foam outlet pipe and completes this version to a real plug & play.

Benefits of ClearFox® Buffer inlets

- low energy consumption
- almost maintenance free operation
- affordable and available spare parts
- simple installation and operation
- low noise and vibration levels
- wide use applications – municipal & industrial
- automated 24/7 regime – if requested
- high quality workmanship, manufactured in the EU
- experienced manufacturer with hundreds of machines installed worldwide
- more than 100 machines in operation
- short lead times (2 Months max.)