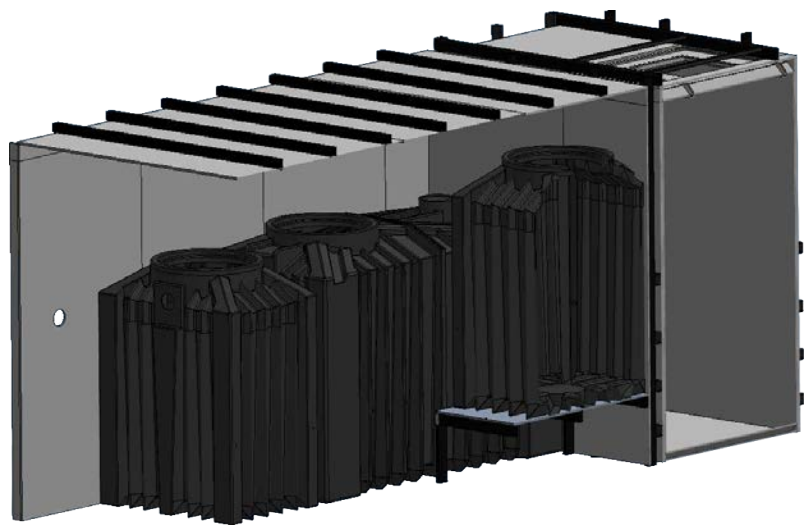


Container compact module C-5

Benefits for ClearFox® WWTP compact modules

- Fast startup, cost saving in installation, small footprint
- Modular system, adaptable at every application
- High performance with high quality, Made in Germany
- Flexible against underload and overload
- Industrial as well as municipal wastewater
- Stable and very robust process technology



Description:

ClearFox® WWTP modules are fully equipped biological treatment plants including pretreatment and clarifying. All compounds are preinstalled in a 20ft high-cube container, such as settling tank including sludge storage and buffer as well as fixed bed biological treatment section and lamella separator. The system runs fully automatically operated by a control unit.

In the first step the wastewater is mechanically treated: solids settle, sludge is stored and the inflow is equalized to Q20. The sludge has to be removed due to accumulation. Subsequently the pretreated wastewater is pumped into the fixed bed reactor by an airlift pump. It is equipped with aeration membranes, distributor system, blank holders and all support for positioning grid tube blocks in order to get a high performance bioreactor for wastewater treatment. Included in the

scope is a blower and airsplitter (pro rata). In order to reduce TSS a clarifying unit is connected after the modules. Secondary sludge from the clarifier is pumped back to the sludge storage.

The typical application is reducing carbon and nitrogen concentration from domestically or municipally nature. The design is according to DWA guidelines, the cleaning efficiency is approved in field tests, made by external wastewater institutes (notified bodies). Test reports and certificates for static, performance, origin, DWA guidelines are available on request.

Technical Specifications:

Module type	C-5
Flow rate	5 m³/d
Flow rate Q10	0,5 m³/h
Flow rate Q20 into fixed bed tank	0,25 m³/h
Load BOD5	2 kg/d
Load COD	4 kg/d
Measures (l/w/h) in m	6,1/2,5/2,8
Machine house (l/w/h) in m	inside container
Weight (transport/operation)	7,0/20,0 to
Power connected	0,35 kW
Power consumption / d	5,6 kW/d (0,35 kW x 16 h/d)
Buffer	included
Sludge storage for	80 d

Application:

All kinds of domestic and municipal wastewater. Influent: domestic/municipal wastewater. It also can applied to industrial purposes. In that case the design has to be individually adjusted.

Cleaning Performance:

The wastewater is purified according to German standards for wastewater treatment. The German wastewater management regulation sets limits (up to BOD load of 60 kg/d) for
 COD 90 mg/l
 BOD5 20 mg/l
 Nitrification depending on load



Options:

There are several options applicable. Please have a look at the appropriate data sheets. UV treatment
Chloride dosing

See also data sheets:

DO_DB_20181204_CF-FBR inlet module+container.pdf DO_DB_20181204_CF-lamella-AP-tank.pdf
on website.

Clients' Service

According to our checklist after ordering.

Before delivery:

- Prepare a concrete foundation for positioning the container (stripes or similar; drawings available from PPU)

After positioning:

- Read owner's manual
- Connect inlet/outlet pipe
- Connect power supply
- Fill with water
- Start up by push the button on controller

