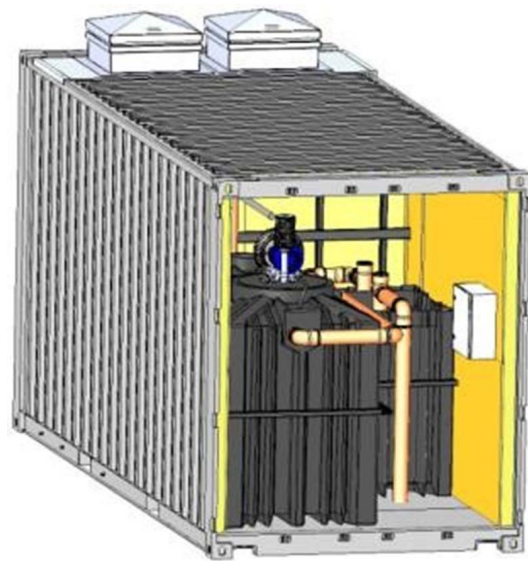


Container compact module C-15

clearfox.com

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® WWT 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 a first step the wastewater is mechanically treated: solids settle, sludge is stored and the inflow is equalised 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 waste water treatment. Included in the scope is a blower and airsplitters (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 reduce 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 waste water institutes (notified bodies). Test reports and certificates for static, performance, origin, DWA guidelines are available on request.

Technical Specifications:

Module type	C-15
Flow rate	15 m³/d
Flow rate Q10	1,50 m³/h
Flow rate Q20 into fixed bed tank	0,75 m³/h
Load BOD5	6 kg/d
Load COD	12 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)	7,0/23,0 to
Power connected	0,5 kW
Power consumption	8 kW/d (0,5 kW x 16 h/d)
Buffer	included
Sludge storage for	80 d

Application:

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

Cleaning Performance:

The waste water is purified according to German standards for waste water treatment. The German waste water 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.

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

