



CompoLiner Air Scrubber

- Designed to be used after the Big Dutchman CompoLiner manure treatment system
- Over 90% ammonia reduction from the exhaust air
- Prefabricated and preinstalled

CompoLiner Air Scrubber

Prefabricated module

The CompoLiner Air Scrubber module is a complete prefabricated chemical Air Scrubber, designed to be used after the Big Dutchman CompoLiner manure treatment system. This module is fitted with a technical room, in which, all the technical parts are mounted. This makes on-site placement as quick and easy as possible. Next to the technical room an acid room is built for placement of the acid tank, with all safety equipment preinstalled.

The module is designed to fit into a 40FT HighCube container. This allows it to be transported all over the world by ship, truck or train.

Working of the Air Scrubber

The air enters into the front of the scrubber through the duct that is connected to the CompoLiner. The air is forced down through a perforated plate to diffuse the air and spread it evenly through the module. The air then enters the scrubber part from the bottom. It moves up through the horizontal washing bed and gets intensively rinsed from above with high capacity sprinklers.

The process water is dosed with acid and recirculated until it reaches a certain pollution level. Part of the water is then pumped to the waste water tank and clean water is added to the process water of the Air Scrubber.

All the measurements, valves and controls are fully automated for easy operation.

Waste water

The waste water can be used as a liquid fertilizer as it contains ammonium sulphate.

Dimensions:

L x W x H: 9540 x 2250 x 2700 mm

Design parameters:

Intake gas concentrations: Max. 300 ppm NH₃ (ammonia)
 Max. ventilation: Max. 20 mg/m³ dust
 30.000 m³/h

Reduction values:

Ammonia: >90%
 Dust: >70%

Uses:

Sulphuric acid (96%)

Art. No.	Voltage	Power (kW)	Max. air rate (m ³ /h)	Max. Ammonia in (ppm)	Max. negative pressure (Pa)
83-51-7177	3x230/400V 50Hz 3ph+0	4	30.000	300	150
83-52-0163	3x230/400V 60Hz 3ph+0	4	30.000	300	150
83-52-0166	3x200V 60Hz 3ph+0	4	30.000	300	150