

## SHORT DESCRIPTION PHYTOBAC

**The Phytobac® system is a filling and cleaning area for plant protection sprayers and fertiliser spreaders. It consists of an impermeable cleaning area, a controlled drain into a buffer tank and a downstream biological treatment system.**

### **Intelligent water protection on the farm: Customer-oriented, farm-specific, modular, and flexible**

The installation of a Phytobac® system brings numerous advantages for your farm. It also has a positive impact on ecological, social, and economic topics in agriculture.

### **Water protection**

A secured water supply and a functioning wastewater management constitute a basic requirement for the eco-friendly cultivation management and economic development of our farms. The limit for plant protection products in drinking and groundwater as well as streams, rivers, and lakes is basically a zerotolerance value. Laws, regulations, and conditions of use prohibit any kind of plant protection product entry into water. Phytobac® prevents this so-called point-pollution with plant protection products and thus presents a sustainable solution to preserve our water resources.

### **The “Phytobac® trick”**

**“If farmers don’t go to the field to clean their equipment, we will bring the field to the farmyard!”**

### **The innovative Phytobac® system**

The closed system is consistent with the good agricultural practices and thus legally valid. Phytobac® combines all the components that are necessary to actively protect the water on your farm. With Phytobac® you can optimize the daily workflow in plant protection and fertilization. Thus, it is a firstclass complement to the sprayer cleaning on the field.

### **Set-up of the Phytobac® system**

The completely closed and patented Phytobac® system consists of an impermeable cleaning area, a controlled drain into a buffer tank and a downstream biological treatment system for contaminated rinse water. It is adapted to the farm’s needs and can easily be integrated into already

existing cleaning systems. Capacities can smoothly be expanded if required. Thus, it is always possible to cooperate with colleagues and repair shops for plant protections sprayers.

### **“Everything is possible, anything is a must”**

Phytobac® is a modular system. All the Phytobac® specific modules can be acquired at Beutech-Agro. Other components like high-pressure cleaners, plant protection containers, wash basins and oil traps can be acquired, if required, via partner companies. The use of existing adequate and suitable resources and your personal contribution during the preparation process, the set-up of the cleaning area and even the final installation of the Phytobac® system will be agreed on and will save good money.

### **Operating mode**

The complete rinse water of all agricultural machinery and equipment is collected on an impermeable concrete slab. Beutech’s safety switch guarantees that the contaminated rinse water flows via a sludge trap into the Phytobac® buffer tank. The water is then sprinkled onto the biologically active soil. The process is regulated by the Phytobac® control system. The “normal” rinse water flows into a sewer, draining ditch or biotope via the oil trap.

### **Biological degradation of plant protection products**

Biologically active arable soil is mixed with straw and filled into the substrate container. The naturally existing micro-organisms degrade the residues of plant protection products in the rinse water. The clean water then evaporates from the soil surface.

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