

TECHNICAL DESCRIPTION FOR AUTOMATIC CAR WASH

RBBR system for small to medium sized car washes



System components

*Replaces the washing machines' old water storage tank. **One R1000 reactor for car wash washing 40 cars per day

Unit process	Device	Number of devices	Unit price, freight not incl.	Total price [€]
1 Biological filter	Clewer RBBR R1000**	1	€5,900	€5,900
2 Aeration	Diaphragm blower	1	€494	€494
3 Solid-liquid separation	Lamella Clarifier	1	€8,320	€8,320
4 Automation	Distribution central	1	€2,040	€2,040
5 Nutrient dosing	Dosing pump	1	€308	€308
6 Excess foam breaking	Clewer antifoam device	1	€700	€700
Water storage*	Clewer storage tank	1	€2,890	€2,890
			Total price [€]	€20,652

Containerized package

Unit process	Device	Number of devices*	Unit price, freight not incl.	Total price [€]
Plant frame	20' container (insulated, heated, alight)	1	€13,500	€13,500
Installation + accessories	Components installed to the containers	1	€5,600	€5,600
Containerized buffer tank**	10' container (insulated, heated) + 5m ³ buffer tank	1	€9,610	€9,610

*Required for the composition mentioned in System components table
**If existing system does not have enough volumetric water buffer capacity

Power consumption

Device	Function	Power
Submersible pump	Water recycle	~1.1kW
Air blowers	Aeration of the RBBR	0.25kW
Antifoam	Excess foam breaking	0.4kW
Chemical pump	Nutrient dosing	0.015kW
Total continuous power demand		1.8kW

Maintenance

Procedure	Performed/year	Working time
Cleaning of the aerator pipes	Every 3-5 years	1 1/2 hour (draining the reactors ~1 hour)
Cleaning/changing the air blower filters	Every three months, depending on the indoor air quality	1 1/2 hour
Chemical refills	According to storage volume, consumption approximately 30ml/wash	1/2 hour
Sludge removal	According to sludge tank volume	1-2 hours

Consumables

Nutrient for the microbes	Consumption approximately 30ml/wash
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