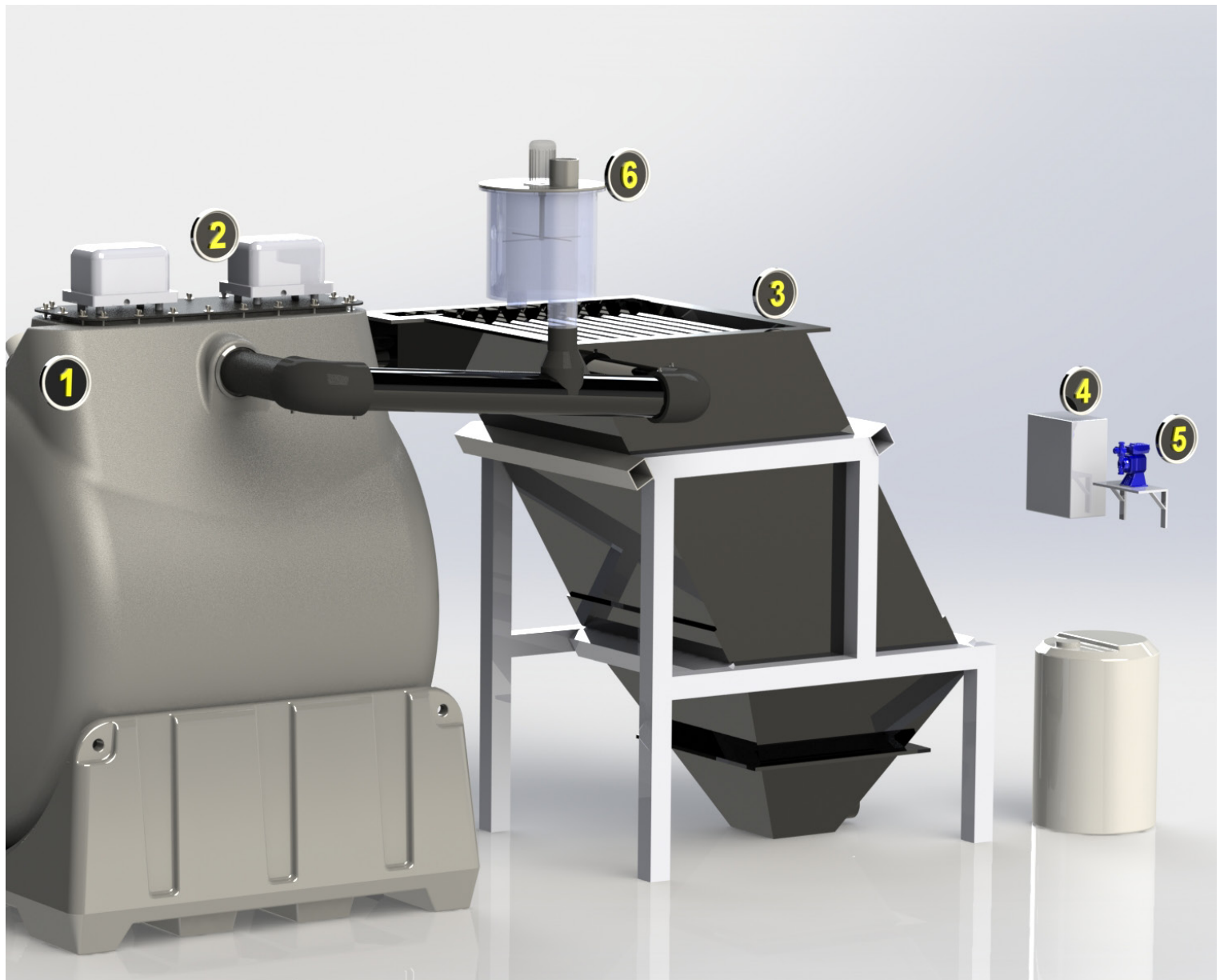


TECHNICAL DESCRIPTION FOR AUTOMATIC CAR WASH

RBBR system for car wash washing 150 cars per day



System components

*Replaces the washing machines' old water storage tank

Unit process	Device	Number of devices
1 Biological filter	Clewer RBBR R4000	1
2 Aeration	Diaphragm blower	2
3 Solid-liquid separation	Lamella Clarifier	1
4 Automation	Distribution central	1
5 Nutrient dosing	Dosing pump	1
6 Excess foam breaking	Clewer antifoam device	1
Water storage*	Clewer storage tank	1

Power consumption

Device	Function	Power
Submersible pump*	Water recycle	~1.1kW
Air blowers	Aeration of the RBBR	0.5kW
Antifoam	Excess foam breaking	0.4kW
Chemical pump	Nutrient dosing	0.015kW
Total continuous power demand		2.0kW

*Installed into the sand separator

Consumables

Nutrient for the microbes	Consumption approximately 30ml/wash
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Maintenance

Procedure	Performed/year	Working time
Cleaning of the aerator pipes	Every 3-5 years	1/2 hour (draining the reactor ~1 hour)
Cleaning/changing the air blower filters	Every three months, depending on the indoor air quality	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

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