



## AQUA PREMIUM TECHNICAL OVERVIEW

|             |                                 |                       |   |
|-------------|---------------------------------|-----------------------|---|
| Model       | Aqua Premium                    | PLC                   | HAKERMAN interface with 2 different language options. |
| Capacity    | 1.800 Lt/h                      | Dimensions            | 130 x 90 x 203 cm                                     |
| Main Frame  | Welded PE acid proof main frame | Electrical Connection | 220 V 50 Hz   |
| Panel / HMI | Color Touchscreen Monitor       | Dosing Pumps          | 2 Pcs. 230 V 50 Hz - 25 Watt power                    |



**Head Office & Production:** Alinteri Bulvarı Gül 86 Koop. 1151 Sokak No:38 06374 Ostim - Yenimahalle - ANKARA / TÜRKİYE

Tel: +90 312 385 81 94 - 95 • Fax: +90 312 385 81 99

**Showroom:** Birlik Mahallesi 448. Cadde No:58/B 06610 Çankaya - ANKARA / TÜRKİYE

Tel: +90 312 496 24 80 • Fax: +90 312 496 24 79

[www.hakerman.com](http://www.hakerman.com) • [info@hakerman.com](mailto:info@hakerman.com)



## Aqua Premium

HKR\_2604

**CHEMICAL & BIOLOGICAL DECONTAMINATION  
OF MEDICAL EFFLUENT WATER**

“ ENVIRONMENTALLY FRIENDLY ”



### LARGE SPECTRUM

Aqua Premium is designed and developed for chemical and biological decontamination of effluent water automatically according to the national and international environmental rules and regulations.

### AREA OF INTEREST

Contaminated Laboratory Waste  
 Infectious Liquids  
 Blood & Blood Products  
 Dialysis Liquid Waste  
 Liquid Patalogic Waste  
 Pharmalogical Waste  
 Dangerous Chemicals

### Chemical Neutralization

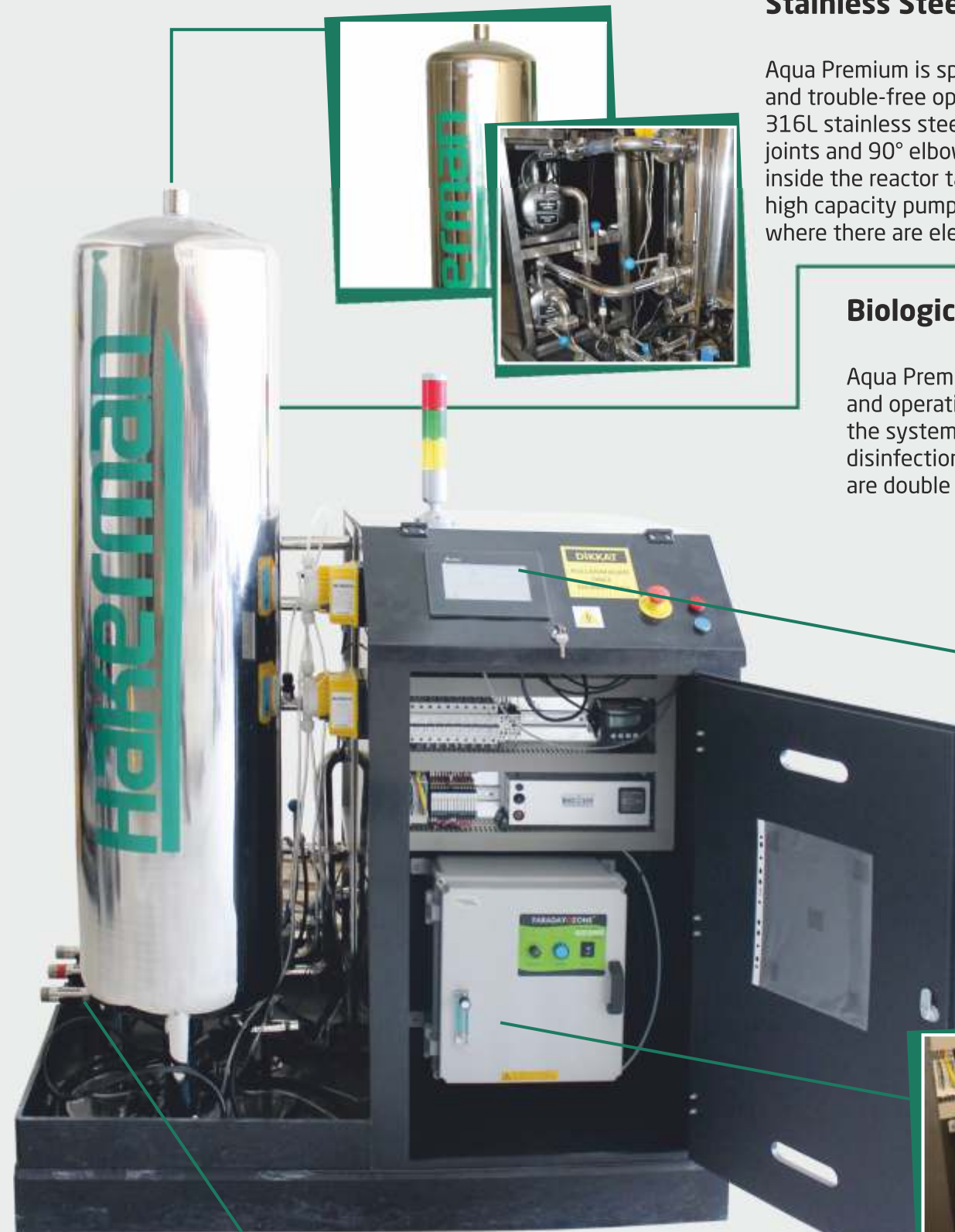
Aqua Premium effluent Waste Disinfection and Neutralization device performs fully automatic chemical neutralization through PH Change. The system does not entail any kit or consumables of any brand/model. It ensures real time PH measurement and fully automatic dosage system and chemical inactivation relying upon such measurement. It guarantees that the PH value of liquids obtained further to any process conforms to the National & International effluent water rules.

### BIOLOGICAL DECONTAMINATION

Aqua Premium are accordance to all biological contaminate risks possibilities areas. Our system can be used all kind of human and animal laboratories of having dangerous liquid waste treatment need.

### TARGET AREAS

- Medical Laboratories
- Operating Rooms
- Morgue / Autopsy Rooms
- Biological Experiement Laboratory
- Veterinary Laboratory



### Stainless Steel Reactor Tank

Aqua Premium is specially produced as "Pharma Grade" to endure long and trouble-free operation. Reactor tank and all piping are made of AISI 316L stainless steel. Its design is developed meticulously the avoid pipe joints and 90° elbows. Neutralization and disinfection process are done inside the reactor tank. Aqua Premium is equipped with 3 stainless steel high capacity pumps. This ensures easy flow in and flow out in places where there are elevation differences.



### Biological UV Treatment

Aqua Premium has a superior technology based upon high user and operation safety. The liquid waste disinfected fully within the system passes through biological UV treatment further to disinfection. In this manner, liquids obtained from the device are double checked for a guaranteed result.



### Touch Screen

In Aqua Premium, there is an interface and operation panel having an easy-to-use 7" touch screen with menu in Turkish and some other Languages designed through the skills of Turkish engineers. This enables any user to operate the device easily. Daily, weekly and monthly operation details performed on the software may be transferred by means of an external flash memory



### Disinfection with O<sub>3</sub>

Aqua Premium is equipped with an built in ozone generator. This system generates ozone (O<sub>3</sub>) from the room air without any other process and need of any disposables.

This generated ozone (O<sub>3</sub>) is injected into contaminated effluent waste water in the reactor tank with the help of special Venturi Injectors designed by Hakerman. The disinfecting effect of ozone is 3000 folds greater than the equivalent chlorine. In this manner, the liquid waste in Aqua Premium is disinfected in conformance to international standard. There is no dependence on any consumables owing to internal ozone generation.



### Validation Port

In order to prove the effective of Aqua Premium, it is equipped with inlet and outlet validation ports before and after the treatment. By this infrastructure it is easy to validate the machine and the process in case needed.

