

Comparison To Existing Sanitation System

Category	Disinfectant Water Generator	Existing water electrolysis machines
Produced sanitizing water	Electrolysis sanitizing water (PH: about 7.5 - neutral water)	Strong acid water (PH: about 2.2~2.7) or strong alkali water (PH: about 11.9)
corrosiveness	Sanitizing water with low oxidation level week corrosiveness	Very strong (corrodes stainless steel)
Productivity	High Productivity possible applicable to large systems	Very low (large facilities required- for increase in productivity)
Stability	Neutral water has little affect on skin and body	Strong acid water (PH: about 2.2~2.7) or strong alkali water (PH: about 11.9)
Sanitation Effect	Show high effectiveness on almost all bacteria in a short period of time	Low sanitation level neutralization occurs when contacted with water
Sanitation Durability	Almost no decrease in sanitation levels over time (continues for about 7days in sealed environment)	Effect decrease after production as time passes
Economic Efficiency	Can be reused decrease in water cost	Cannot be reused decrease in water cost
Method of Electrolysis	Electrolysis method with no membrane (water is electrolyzed in electrolyzer)	Membrane electrolysis method

Valid chlorine concentration	About 100PPM (adjustable)	-
Principle of Production	<p>Water is the main material of electrolysis.</p> <p>Highly active electrolytic disinfectant water (sodium hypochlorite)</p>	<p>Saline solution at 0.2 or less</p> <p>strong acidity water</p> <p>strong alkalinity water</p>

When making 100l of 100 ppm disinfecting water to sanitize vegetables and fruits (conducted by the manufacturer of Disinfectant generator)

1 chlorine tablet per 10l water (100 ppm) *Sink capacity 100l

Category	Chemical	Disinfectant Generator	Note
Required ingredients	10 tablets of chlorine	Salt 300-400g	may slightly differ according to water quality
Cost	3 US dollars	Approximately 0,2 US dollars	Save 2,7 - 3,2 US dollars
Residu	A lot	Almost none	
Odor	Strong	Very faint	
Health risk	High	Low	
Concentration	Inconsistent	Consistent	

The number of rinse cycle	3-4 times	Once	Reduce cycle and time to 1/3
Required rinse water	300-400l (3-4 times of rinsing)	100l (1 time of rinsing)	Save 200-300l water
Required rinse water for 20 days	Once a day : 6.000l (300l per day) Twice a day : 12.000l (600l per day) Three a day : 18.000l (900l per day)	Once a day : 2.000l (100l per day) Twice a day : 4.000l (200l per day) Three a day : 6.000l (300l per day)	Monthly water saving 4.000-12.000

** Disinfectant Generator is highly cost effective: Ingredients sending down to 1/10, and rinsing water/time reduced to 1/3*