

생명을 살리는 기술



LS Technologies

High Purity Water for ALL

모두가 물 문제로부터 안전한 그날까지

SDG 6: Clean Water and Sanitation

More than 2 billion people lack safe drinking water. That number will only grow.

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Reported by the United Nations Development Programme

For every 100 people who have access to clean water, 100 more people lack it. This is a global crisis that is only getting worse. In 2015, 2.2 billion people lacked access to clean water. By 2030, that number is expected to rise to 3.5 billion.

Water is essential for life. It is the foundation of all life on Earth. Without it, we cannot survive. It is also the foundation of our economies and societies. Without it, we cannot grow food, produce energy, or transport goods.

Water is also essential for health. It is the foundation of all life on Earth. Without it, we cannot survive. It is also the foundation of our economies and societies. Without it, we cannot grow food, produce energy, or transport goods.



Fig. 6.1 Countries with lowest access to clean water near bottom



Source: United Nations Development Programme, 2018

Less Developed Countries

Water Hygiene

Lack of Infrastructure

Existing Solutions

- **Infrastructure Construction**
 - Water Treatment Plants
 - Distribution
- **Distribution of Appropriate Techs**
 - Portable Filters

Short Comings

- **Infrastructure Construction**
 - Long-term Projects
 - Funding
- **Distribution of Appropriate Techs**
 - Lacking Quantity
 - Fluctuating Quality
 - Short Life-span (Usually Less than a year)
 - Restrictions on Young and Elder
 - NOT Sustainable

Existing Techs

**Ineffective / Temporary
Expensive / Inconvenient**

LST Solution

**Effective
Affordable
Permanent/Transferable
Convenient
THUS
Sustainable**

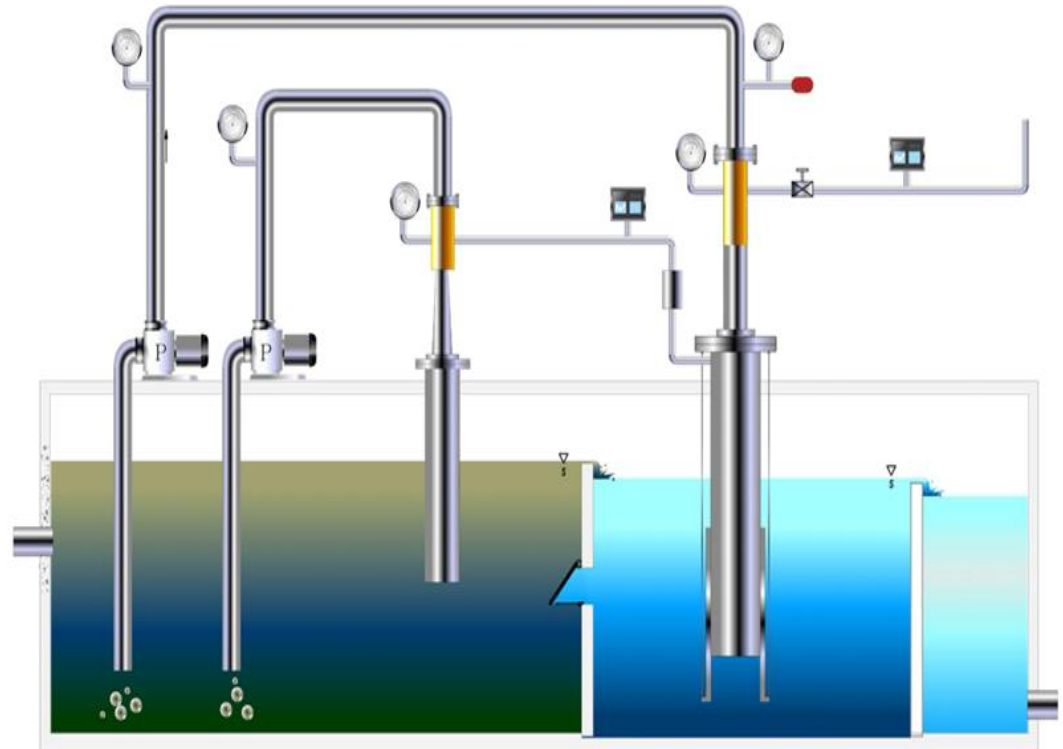


18 Mon R&D



Tubular Ozone Dissolver System

More Powerful, Yet More Affordable
2nd Generation
TOD System





TOD System

**Ozone Dissolution
Rate of 99.8%**

Small Size

Fully Automatic



'Ozone Dissolution Rate of 99.8%' means

Effective & Constant Treatment Results

(Sterilize Organics / Decompose Chemicals / Removes Heavy Metals)

Innovative Price and Operation Cost Cutting

(Under 3 USD per person for 8-10 years)

SAFE from Side Effects

'Small Size' means

Less Breakdowns (Simpler Engineering Design)

Easy Installation and Move

No Quantity Problems

'Fully Automatic' means

Easy Management

No Consumables Needed



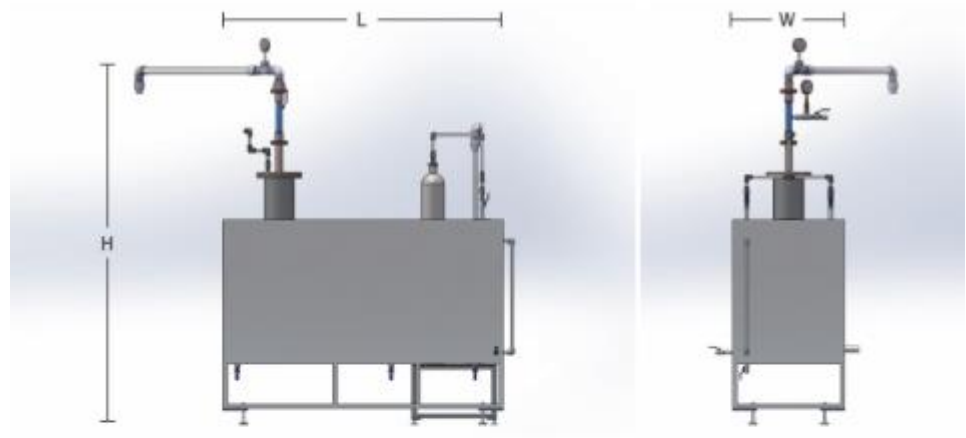
3 Patents

제10-1045091 관로형 오폐수 처리장치

제10-1380346 수처리장치

제10-1848041 오존의 농도를 일정이상으로 유지하는 오존수 생성장치

TOD System - Product Line



LS Technologies 오존용해설비 규격표

형식	처리유량(m ³)		치수(mm)	전력 사용량(kw)
	시간	일		
TOD-10	1	10	1,200(L) x 700(W) x 2,000(H)	1.5
TOD-20	1.5	20	1,350(L) x 750(W) x 2,000(H)	2
TOD-30	2.5	30	1,500(L) x 800(W) x 2,000(H)	2.5
TOD-50	4	50	1,750(L) x 850(W) x 2,000(H)	3
TOD-100	8	100	2,000(L) x 1,200(W) x 2,300(H)	3.5
TOD-200	16	200	2,250(L) x 1,200(W) x 2,300(H)	4
TOD-300	24	300	2,500(L) x 1,300(W) x 2,500(H)	5
TOD-500	40	500	2,800(L) x 1,500(W) x 2,500(H)	7.5
TOD-1000	80	1000	3,200(L) x 1,800(W) x 3,000(H)	10



Lao PDR Case

Cost per Person : USD 3

Life-span : 8-12 years

Using Population : 3,500 Villagers

Quantity Per Person : 142 liter per Person (WHO Recommendation : 70 liter per Day)

Total Quantity : 500,000 liter per Day

Quality : Korean MoE Standards (46 Contents)

Same Price, Higher Performance and Sustainability



Lao People's Democratic Republic
 Peace Independence Democracy Unity Prosperity
 www.p00.la

Ministry of Health
 National Center for Hygiene and Health Promotion
 National Center for Environmental Health and Water Supply
 No. 77, 410310

No. 059/NCEHWS
 Date: 01/12/2022

Result of Water Quality Analysis

Location: Good Neighbors Laos
 Source:
 Point: After filtration
 ID: 020 58227222
 Code: 1275E

No.	Parameter	Result	Standard
1	pH	7.04	6.5 - 8.5
2	Conductivity	777	< 1000 µS/cm
3	Turbidity	2	< 5 NTU
4	Colour (Acceptable < 20 NCU)	Acceptable	Acceptable
5	Iron (Fe)	0.01	< 1 mg/l
6	Manganese (Mn)	0.030	< 0.4 mg/l
7	Fluoride (F)	0.16	< 1.5 mg/l
8	Nitrate (NO ₃)	0.4	< 50 mg/l
9	Nitrite (NO ₂)	0.034	< 3 mg/l
10	Ammonia (NH)	0.000	< 0.05 mg/l
11	Total Hardness (as CaCO ₃)	140	< 500 mg/l
12	Total Coliforms	0	< 10/100ml
13	Faecal Coliforms (F+)	0	< 10/100ml
14	Chlorine (Cl ₂)	-	< 0.3 mg/l

Director of NCEHWS

ໂຮງແຮມສູນກາງ
 Dr. Soukhephone CHANTHAPHONE



Future Application with WB

- Village-Based Water Treatment Supply
- Emergency Water Treatment Supply
(Natural Disaster / War / Chemical Contamination)
- Infrastructure Construction
(Tap Water / Reuse / Sewage Treatments)
- Sterilization of Food & Food Processing
- Water Based / Eco Farming
(Ozone Sterilization and Dissolved Oxygen)

**From our everyday lives to the hygiene of the
developing world;**

**Life-Saving techs,
LS Technologies will always be with you.**

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