

# E.S.G Environmental Sustainability Business Responsibility

With E.S.G practice as the guideline
The last piece of puzzle in a environmentally-friendly green building

Environment Social Responsibility Corporation Governance

The practice of ESG principles can greatly improve the company's business stability and corporate image.

The "GREEN SUPPLY CHAIN" can further improve business interests.



### **Environmental Friendly – No Chemicals Used**

Al Smart Water Tower through electrolysis technology removes calcium, magnesium and manganese from the water. The electrolysis of ions with low solubility is resolved. Through this process, the water quality of scaling is changed by the precipitation of metal ions in the water using electrolysis technology. The change in the concentration of metal ions allows the scale that originally existed in the pipe wall to be released. The scaling is automatically peeled off and removed through the circulating water. Scale reduction improves heat exchange efficiency, and with the use of Al Smart Water Tower system. It is energy-saving and carbon-friendly.

### **Cooling Tower Efficiency Optimization**

### 5 Major Features



- Replace traditional chemical dosing
- Environmentally friendly without chemical pollution



- Remove and prevent limescale effectively
- Destroy harmful bacteria in the human body
- · Improved water quality in long term
- Improved ambient air quality



- Operate without downtime
- Eliminate clogging / increase cooling tower efficiency
- Monitor water quality, temperature & maintaining efficiency



- Small investment / big savings
- Maintain good water quality / save electricity bills
- No-wash water tower / save labor / save water fee
- No risk of chemical lotion corrosion of the pipeline / extended pipeline equipment life



- Product Safety ISO 9001:2015 Quality Certification
- Staff Safety No manual climbing / No noise
- Installation required no downtime / No cutting
- Intelligent descaling ensures that the air conditioner host operates safely without downtime

#### **Smart System Advantages**

#### **Traditional Method**

Manual labour cleaning

Chemical descaling, manual cleaning of dead corners

Breeding harmful bacteria, legionella, Escherichia coli, algae, biofilms

Chemical agents acids, alkalis, toxicity

Need to administer medicine, consume water, consume electricity, consume labor

**High Costs** 

Equipment and pipeline corrosion, service life shortening, function degradation



Management Monitoring

> Cleaning Methods

Human Health

Environmental Protection

Savings Efficiency

Equipment Efficiency

Cost

#### **AI Smart Water Tower System**

24-hour automatic intelligent operation, APP real-time information mastery

Circulating water purification treatment system, automatic sensing, descaling, silent operation

Eliminate the environment for long-term pathogen breeding, and improve the purified indoor circulating air quality

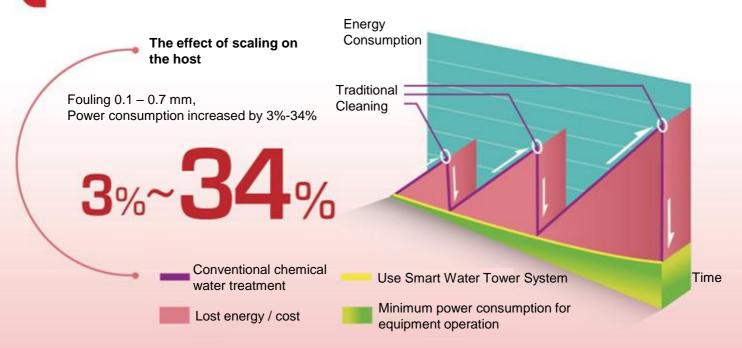
In line with the world's green environmental protection trend

No need to administer chemicals, save water, save electricity, save effort

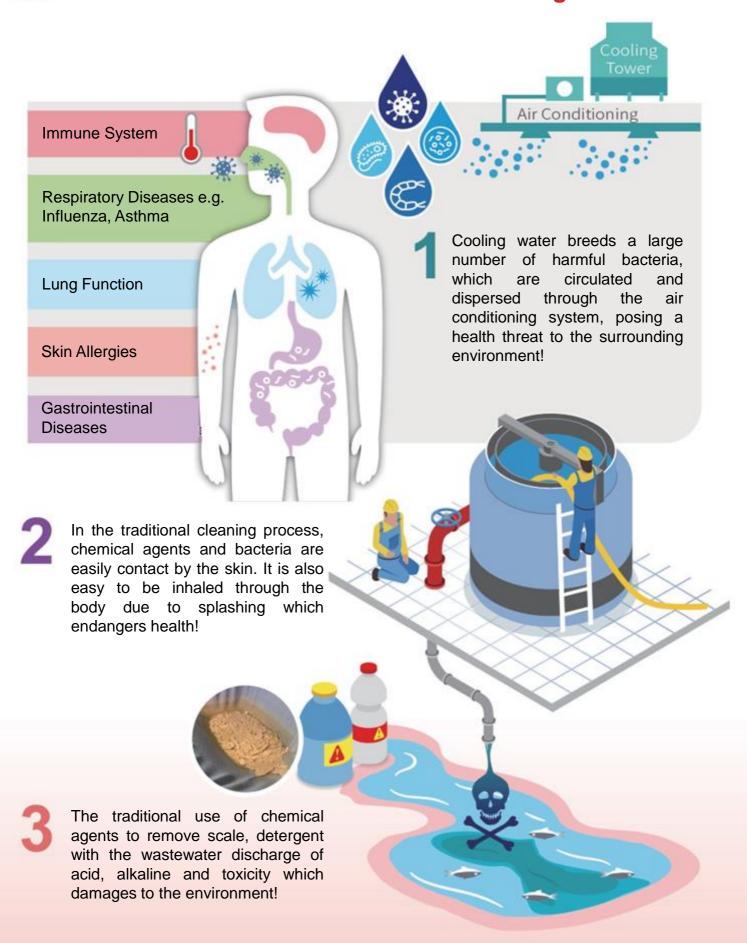
Lower Life Cycle Costs

No equipment and pipelines corrosion, service life extension, optimal function maintenance

#### Waste = Cost Loss



### **Health and Environmental Effects of Cooling Tower**



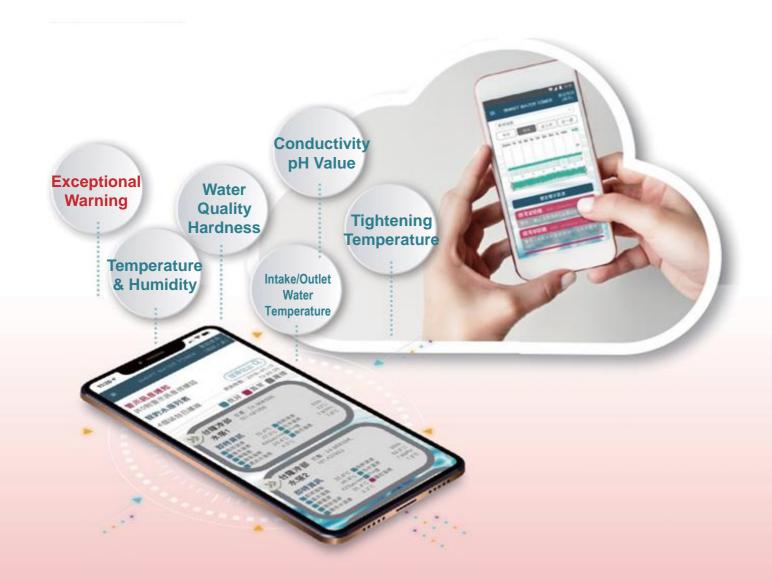
<sup>\*</sup>The content is only a comparison of the difference between chemical dosing and non-chemical.

### **Industry 4.0 Intelligent Cloud Platform Benefits**



## IoT Intelligent Water Tower Monitoring System – Remote Monitoring

- The client does not need to install the server software and cloud service customers.
- Real-time water quality data analysis messages can be monitored via mobile APP or tablet.
- · Water Tower monitoring points:
  - Ambient temperature and humidity Water quality hardness Water Tower intake water temperature
  - Outlet water temperature Cooling water conductivity Cooling water pH value
  - Water Tower tightening temperature
- · Actively control / detect device operation.
- Support Modbus-TCP and supports the linking of data to the internet with NBIOT Technology.
- The platform is available in three languages: Traditional Chinese, Simplified Chinese, and English.

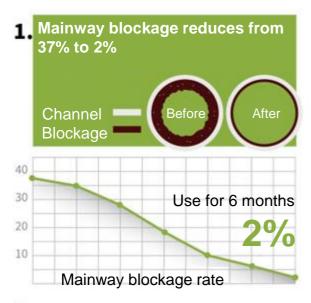


### **Al Smart Tower System Specification**

Machine Type (Cabinet)	Fully-automatic Economical (Single)	Fully-automatic Standard (Single)	Fully-automatic Exquisite (Single)	Fully-automatic Luxurious (Single)
Specification / Model	TR-W500S	TR-W1000S	TR-W2000S	TR-W3000S
Dimension (WxLxH)	760x760x1575mm	760x760x1575mm	760x760x1710mm	900x760x1845mm
Rated Voltage	2Ø 220 VAC			
Rated Current	5A	8A	10A	16A
Output Power (max)	600W	1000W	2000W	3200W
Direct Current (max)	12A / 48V	20A / 48V	30A / 48V	40A / 60V
Circulating Water	135 LPM	135 LPM	135 LPM	275 LPM
Pipe Diameter	1" Inch	1" Inch	1" Inch	1.5" Inch
Ozone Antibacterial System	Selective	Ozone Concentration 2 g/hr	Ozone Concentration 4 g/hr	Ozone Concentration 5 g/hr
Water Quality Detection System	Selective	○ Standard	O Standard	○ Standard
Platform Service Equipment	Selective	Standard	O Standard	O Standard
One-to-many Intelligent Controller	Selective	Selective	O Standard	O Standard
Remote Monitoring System	Selective	Selective	Selective	Selective
Filtration System	X	X	Selective	Selective

<sup>\*</sup>The company reserves the right to change specifications.

### **Benefits**

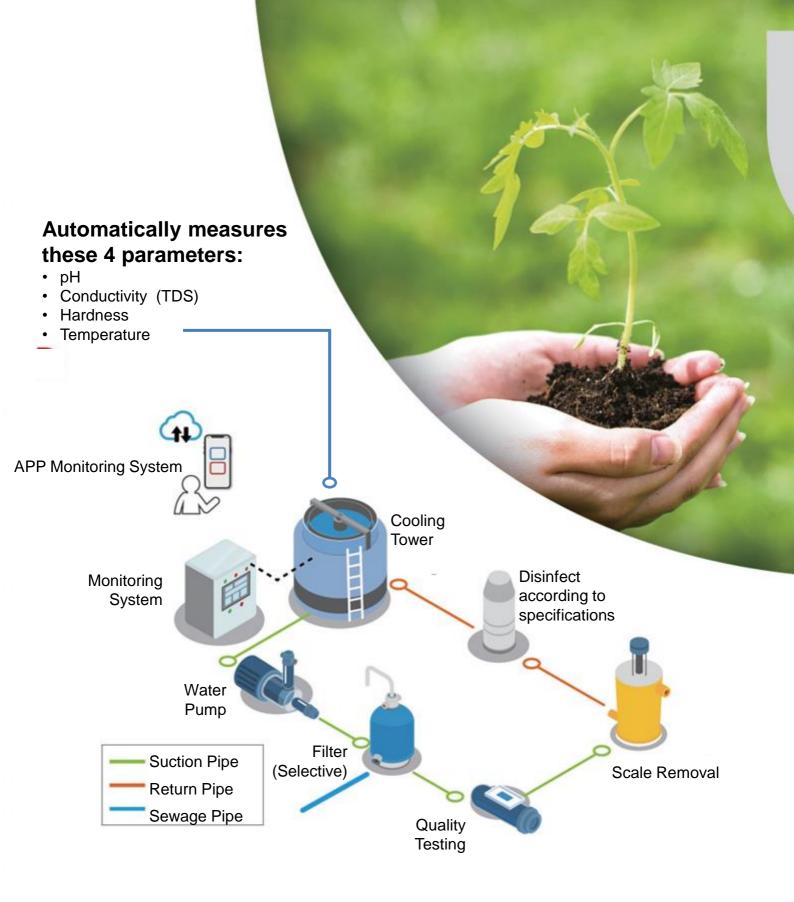




#### 3. Energy-efficient and cost-effective











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