






上海轩浦净化科技有限公司

ShangHai Xunp Purification Technology Co;Ltd

Outline



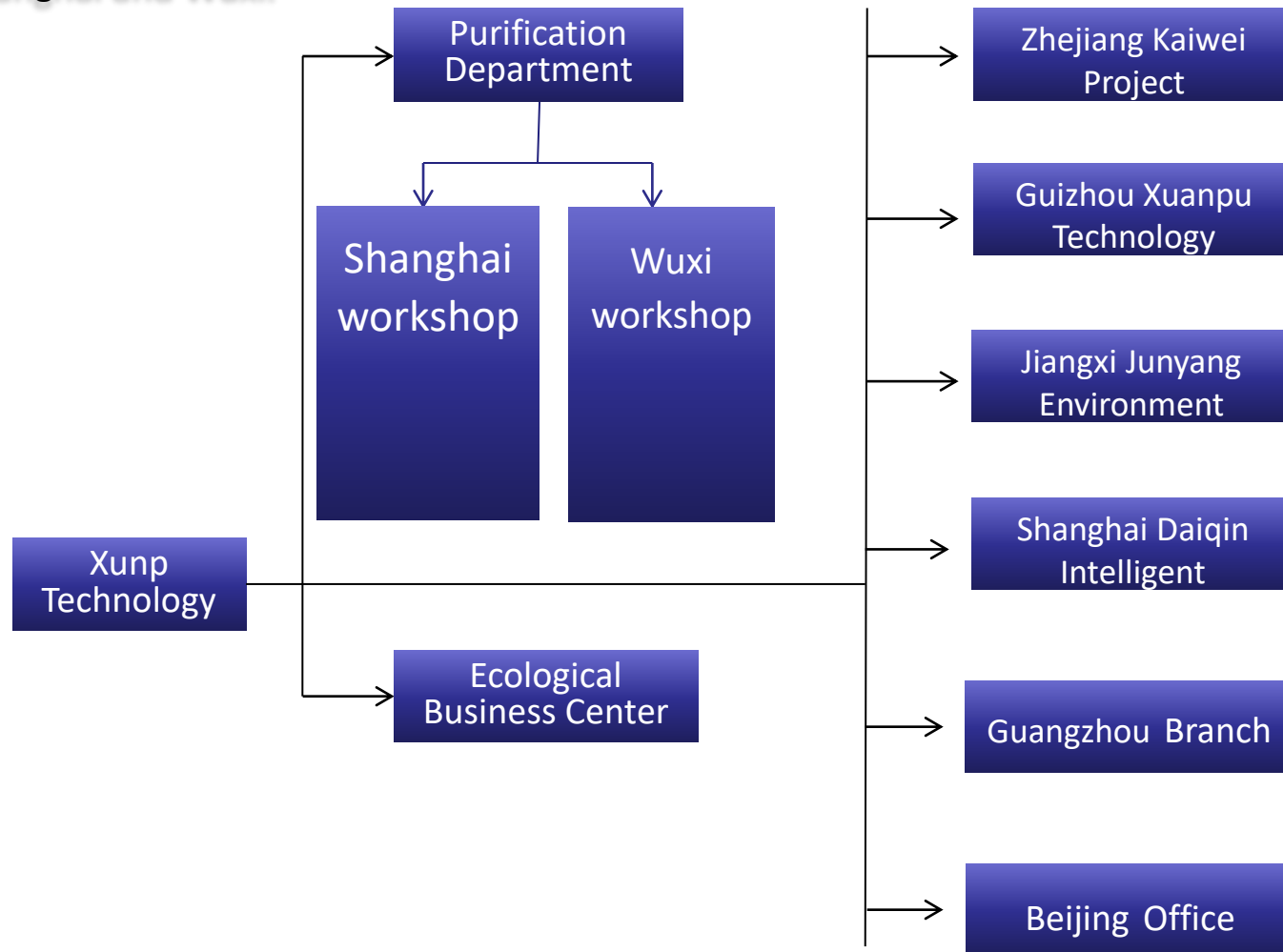
-  Enterprise structure and credit
-  Scientific and technological achievements
-  Planning for development



Enterprise structure and credit



Founded in 2007, Xunp Technology consists of Purification Department and Ecological Business Center. It also invests in one instrument company and three ecological environment management companies. It has branches in Beijing, Guangzhou and other places, and has processing workshops in Shanghai and Wuxi.





Xunp Scientific and technological achievements

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1、 Process equipment of water plant



Integrated water purification device

Performance and characteristics



- Integrate dosing, mixing, reaction, sedimentation, filtration, backwashing and disinfection
- Treating rivers, lakes, reservoirs, streams and other surface water resources (better than Grade IV)
- Turbidity of influent is generally within 1000 NTU.
- Good water purification effect and stable performance.

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Integrated water purification device XUNP[®]




Scope of application

- Compact structure, small volume, easy maintenance, and convenient operation and management;
- Living water supply system in towns, factories, mines, schools and hotels;
- Water reclamation.



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2、 Powder Feeding System

 Our powder feeding system integrates powder storage, transportation and delivery. It has a broad market in industrial production, environmental protection, water treatment and flue gas treatment.



 The success of the powder feeding system

is due to the following proprietary technologies:

1. The technology of flow aid and even material with scraper in silo (special technology);
2. Negative pressure dust removal technology (patent);
3. Anti air blocking suction gun (patent);
4. Rapid pre humidification Technology (patent);
5. Liquid storage device for continuous preparation (special technology);
6. Rapid pre precipitation technology (patent);
7. Powder check valve technology (patent)



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Powdered activated carbons/ lime dosing system

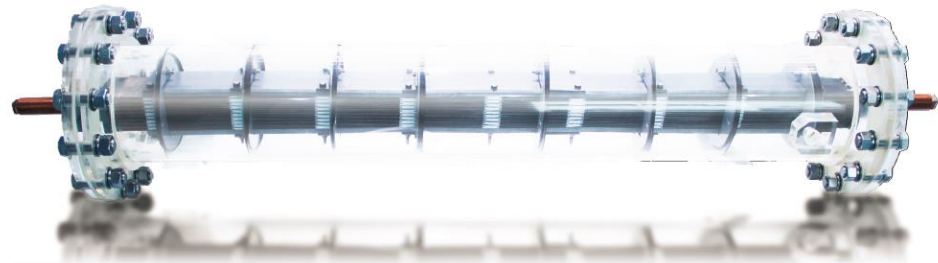


3. Sodium Hypochlorite Production System (produced by CSIC)



Sodium hypochlorite generator can improve the safety of supplied water. It can produce 0.8% sodium hypochlorite disinfectant and has the following advantages:

- Reduce the production of by-products
- Reduce the cost to buy the finished sodium hypochlorite solution
- Safer compared with using chlorine gas to disinfect



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4、CO₂ dosing system

Several advantages of CO₂ dosing

- Adjust pH value and strengthen flocculation, but it won't lead to a sudden change of water pH value
- Improve the efficiency of removing TOC and reduce the generation of toxic by-products
- Remineralization can stabilize water quality, increase the total alkalinity of water, and reduce the red water problem
- Reuse the carbon dioxide

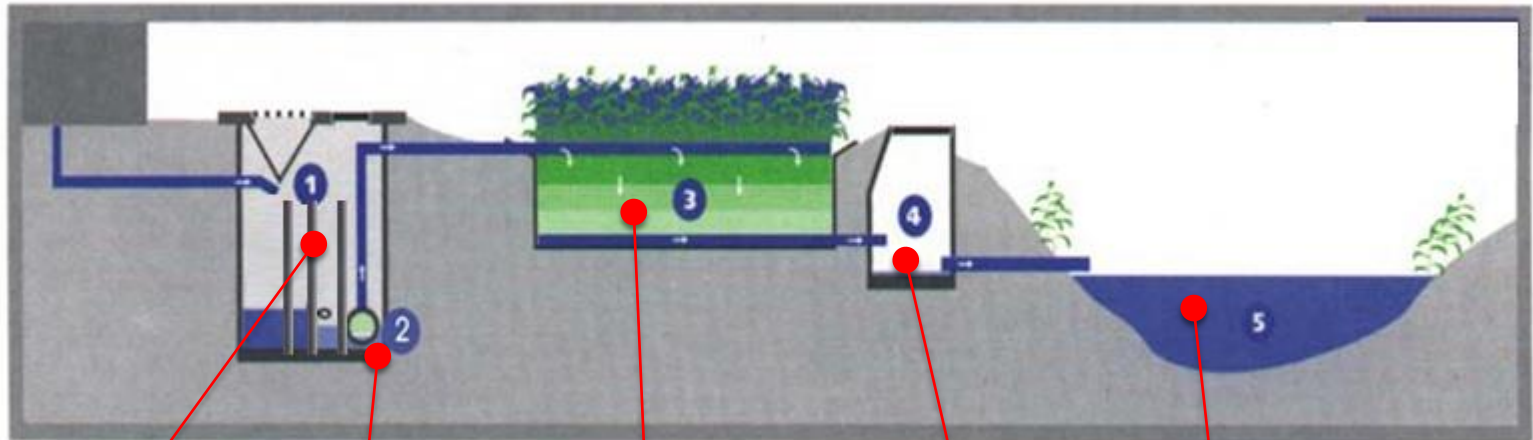


The carbon dioxide dosing system is made up of Dewar storage system, pressure tank system, pH detection system and automatic control system.

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5、 Ecological environmental management

Bed filter technology -- simple, efficient and low-cost, dealing with oligosaprobic waters



Regulating reservoir

Filter bed

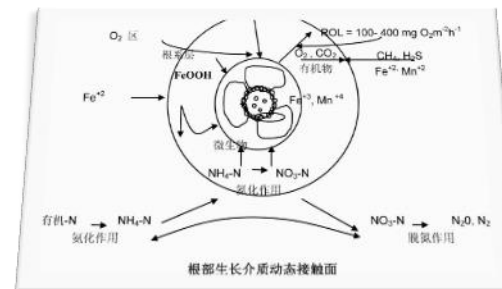
Standard discharge

Water distribution system

Clear water tank

Bed Filter Technology

The water treatment process integrates three types of reactions: aerobic, facultative and anaerobic. Oxygen in the root zone of plants is released from the roots and forms a circular aerobic zone around it. In the region that is relatively far away from the root, the oxygen concentration is reduced to zero due to the biochemical oxygen demand (BOD). The radius of the oxygen enriched zone is determined by the oxygen demand (BOD). When the sewage with high BOD flows through, the radius of the oxygen enriched zone decreases to meet the oxygen demand, while the sewage with low BOD flows through, the radius of the oxygen enriched zone increases. The root region is a complex and changeable micro ecosystem. The ratio of aerobic bacteria to anaerobic bacteria varies with the concentration of sewage, the loading rate, the depth of vegetation bed and root.



Advantages of the Bed Filter



- Overall landscape → ecological garden
- Construction site selection → measures to local conditions
→ environment matching
- Construction cost → natural materials → low
- Operation cost → no dosing / no aeration → 1 / 5 of the conventional cost
- Management and maintenance → fully automatic control → no need for professionals
- Water quantity / water temperature / water quality adaptability → special structure → strong
- The effluent quality → reaches grade A without secondary pollution
- Long service lifetime → up to 20 years

Treatment of sewage and river water in New Countryside



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Xunp Future development

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Planning for development



- **Quality - based on the foundation, continuously improve the quality, strive to complete the enterprise standard of main equipment manufacturing and installation within 1-2 years, and improve the user recognition;**
- **Service - formulate relevant management rules, realize full staff customer service, achieve high quality service;**

Planning for development



- **Technological innovation is the source of development. We will strive to complete three innovative tasks in two years: 1. Research and development of microwave sludge drying equipment with low energy consumption and low pollution; 2. Elimination treatment of kitchen waste and harmless discharge of landfill leachate. For the high-tech enterprise research projects to do the preliminary preparation; 3, the application of low-temperature plasma technology in water treatment.**

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Thanks



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