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 Patent Certificates Inventions



ADHERE TO HONESTY GOOD QUALITY FOCUS ON PERFORMANCE SEARCH FOR CHANGE

坚持诚信 质量上乘 注重业绩 探求变革





廣州美亞股份有限公司 GUANGZHOU MAYER CORP.,LTD.

成立于1995年, 注册资本2亿元人民币 于2004年在香港联交所主板上市 (股票代码 01116.HK)

Mayer was established in 1995 with a registered capital of RMB 200 million. In 2004, the company was listed on the Main Board of the Hong Kong Stock Exchange (Stock Code: 01116.HK)

美亚(广州)饮用水科技有限公司是一家集生产、投资、设计、建设、运维于一体的全方位管道直饮水领域解决方案服务商。凭借自主研发的专利技术,成功实现了对水源的高效净化,确保每一滴水都达到高标准的饮用品质。同时,自主开发了物联网智慧管理运营系统,通过智能监测和数据分析,实现了对直饮水系统的全方位管理和优化,确保客户享受到更加便捷、高效的服务。美亚专注于为客户提供健康、卫生、鲜活且实惠的直饮水服务,并持续研发创新,引领直饮水行业的进步与发展。

Mayer (Guangzhou) Potable Water Technology Co., Ltd. is a comprehensive solution provider specializing in direct drinking water systems, offering integrated services in production, investment, design, construction, and operation & maintenance. Leveraging its proprietary patented technologies, the company has achieved exceptional water purification efficiency, ensuring that every drop of water meets the highest standards of drinking quality. Additionally, Mayer has developed an advanced IoT-based smart management and operation system, which employs intelligent monitoring and data analytics to deliver comprehensive management and optimization of direct drinking water systems. This innovative approach guarantees customers a more convenient, reliable, and efficient service experience. Dedicated to providing healthy, hygienic, fresh, and affordable direct drinking water solutions, Mayer is committed to continuous innovation, driving the advancement of the industry. Through relentless research and development, the company is setting new benchmarks in the direct drinking water sector, delivering exceptional value and service excellence to its customers.

Witness the Honors

见证荣誉







AAA级企业信用评价 "AAA-level Enterprise Credit Evaluation



A级纳税企业 Grade A Tax - paying Enterprise



连续16年守合同重信用 Honoring Contracts and Valuing Credit for 16 Consecutive Years

营业执照 Business License

Enterprise Qualification

企业资质





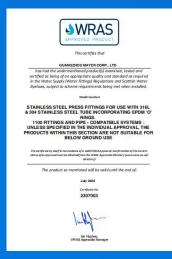














- ISO 45001 职业健康安全管理体系认证 ISO 14001 Environmental Management System Certification
- ISO 1401 环境管理体系认证
- ISO 9001 质量管理体系认证
- 特种设备生产许可证
- WRAS 认证
- WaterMark证书
- 卫生许可批件
- 高新技术企业

- ISO 14001 Environmental Management System Certification
- ISO 9001 Quality Management System Certification
- Special Equipment Manufacturing Permit
- WRAS Certification
- WaterMark Certificate
- Health Permit Approval
- High tech Enterprise

Patent Technology

专利技术













美亚系统介绍

Mayer System Introduction

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- 管网设计要求
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- 管道直饮水系统优势
 Advantages of Pipeline Direct Drinking Water System
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管道直饮水介绍 Introduction to Pipeline Direct Drinking Water System



管道直饮水的发展历程起源于美国和英国等西方发达国家,美国是最早发展管道直饮水的国家之一。管道直饮水采用分质供水的方式,在居住小区内/写字楼/医院/学校/公共设施等场所设有净水站,利用特殊的水处理设施和技术、对自来水作进一步深度处理,通过独立建设的优质供水管道,将"直饮水"输送到每个饮水点。

The evolution of direct drinking water systems traces its roots to Western developed nations, including the United States and the United Kingdom, with the United States being one of the pioneers in this field. The system operates on a dual-water supply model, where dedicated water purification stations are installed in residential communities, office buildings, hospitals, schools, and public facilities. By leveraging state-of-the-art water treatment technologies and facilities, the system enhances the quality of tap water through advanced purification processes. The treated water, now meeting the highest standards of drinking quality, is then distributed via a dedicated network of high-quality pipelines, delivering "direct drinking water" to every designated access point and ensuring a safe, reliable, and convenient supply of clean drinking water.



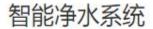
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Intelligent Water Purification System



智能变频恒压供水系统

Intelligent Variable - Frequency Constant - Pressure Water Supply Sys1tem



回水系统

Water Return System



消毒杀菌系统

Disinfection and Sterilization System



物联网水质监控系统

IoT Water Quality Monitoring System

制水系统 (专用机房)

Water Supply Pump Boosting System

供水泵增压系统 (专用机房)

Water Production System (Special Machine Room)

供水管网系统 (覆盖全小区入户)

Water Supply Pipe Network System (Covering All Residential Units in the Community)

水表计量网系统 (覆盖全小区,安装在水管井)

Water Meter Metering Network System (Covering the Entire Community, Installed in the Water Pipe Well)

供水终端系统 (安装在业主厨房)

Water Supply Terminal System (Installed in the Kitchen of Homeowners)

管道直饮水介绍 Introduction to Pipeline Direct Drinking Water System



远程监控 Remote Monitoring

实时在线监测压力、流量、液位等运行状态及运行数据,远程逻辑控制系统 Real - time online monitoring of operating status and data, including pressure, flow rate, and liquid level, along with a remote logic control system.

水质在线监测 Water Quality Online Monitoring

实时在线监控电导率TDS、PH等水质数据,异常自动报警,保障饮水安全 Real-time online monitoring of water quality data, including conductivity, TDS, and pH. Automatic alarms are triggered in case of abnormalities to ensure drinking water safety.

系统化方案 Systematic Solutions

涵盖管网设计、同程循环、分户计量专用终端、打造系统最优解决方案
Solutions encompass pipe network design, looped circulation, individual household metering, and specialized terminals, delivering an optimal system solution tailored to your needs.

整体性能核心 The Core of Overall Performance

科学合理的工艺选型设计,是制水系统整体性能的核心

Scientific and rational process selection and design are the core of the overall performance of the water production system





关键品质 Key Quality

高品质的系统集成,对关键部件的品质选型至关重要 High-quality system integration is critical, with meticulous selection of key components to ensure superior performance and reliability.

工匠制造 精湛工艺 Artisanal Manufacturing, Exquisite Craftsmanship

精湛的制造工艺技术是系统长期可靠运行的根本保障

Exquisite manufacturing process technology is the foundation for the long - term and reliable operation of the system.

系统安装 System Installation

符合规程标准的系统安装工艺是保障系统运行工况与设计工况契合的前提 The system installation process that complies with regulations and standards is a prerequisite for ensuring that the system operating conditions match the design conditions.





卫生报建Hygiene Application for Construction

项目申报卫生监督机构

Declare the project to the health supervision agency

维保体系 Maintenance System

系统长期稳定运行的前提是符合标准的推护保养体系

The prerequisite for the long - term and stable operation of the system is a maintenance system that meets standards.

安全运行Safe Operation

核心控制、供应保护专利技术,保障设备、管网安全运行

The patented technologies for core control and supply protection safeguard the safe operation of equipment and pipe networks.

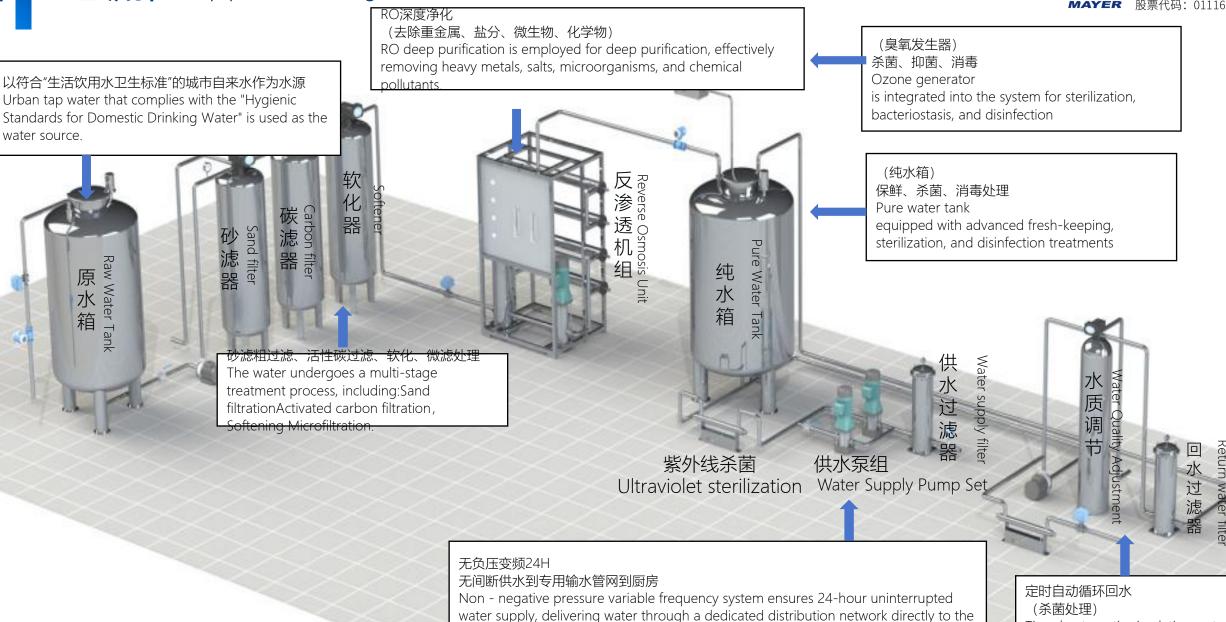


省工艺流程 Equipment Technological Process



Timed automatic circulating water

return (with sterilization treatment)

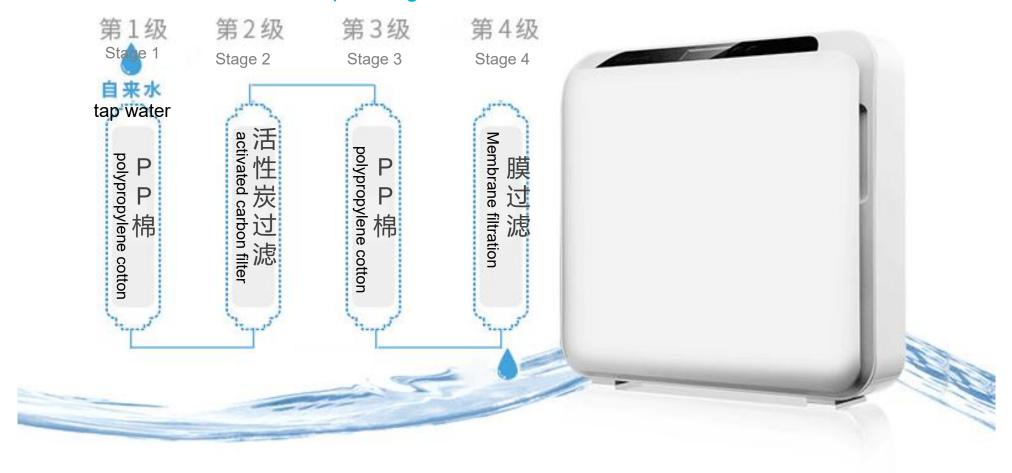


kitchen.

家用净水器运作过程The Operating Process of Household Water Purifiers



家用净水器运作过程 The Operating Process of Household Water Purifiers





"中央净水设备"与"家用净水器"差异性对比

Comparison of Differences between "Central Water Purification Equipment" and "Household Water Purifiers"

项目 (Item)	中央净水设备(Central Water Purification Equipment)	家用净水器(Household Water Purifier)	
鲜活性(Freshness)	24 小时不间断循环,保证水质鲜活(24 - hour continuous circulation to ensure fresh water quality)	无循环系统,不能保证水质鲜活(No circulation system, unable to ensure fresh water quality)	
营养性 (Nutritional Value)	在去除水中污染的同时,保留了人体所需的矿物质(While removing water pollution, it retains the minerals needed by the human body)	产出纯净水,不含矿物质 (权威部门指出纯净水不利于长期饮用)(Produces pure water without minerals. Authoritative departments point out that pure water is not suitable for long - term consumption)	
节能性 (Energy Efficiency)	原水利用率可达 70% 以上 (The utilization rate of raw water can reach over 70%)	原水利用率仅 30% 左右 (The utilization rate of raw water is only about 30%)	
运行成本(Operating Cost)	只需对主机进行检测,维护成本低(Only the main unit requires testing, resulting in low maintenance costs.)	若按要求每台都进行水质检测,检测费用高于购机成本(If water quality testing is carried out for each unit as required, the testing cost is higher than the purchase cost of the machine)	
经济性 (Economy)	更换滤芯每户约 30 元 / 年(The cost of replacing the filter element is about 30 yuan per household per year)	需更换滤芯,费用约 800 元 / 年(Need to replace the filter element, with a cost of about 800 yuan per year)	

Implement water quality standards and design technical regulations 执行水质标准与设计技术规程



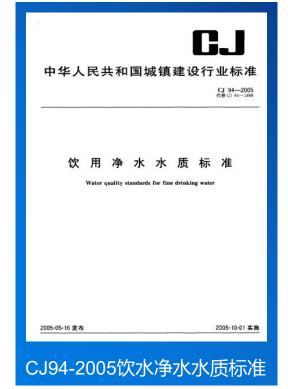
以上标准都是由住房与城乡建设部颁布实施

饮用净水水质标准CJ94-2005 , **规定了直饮水执行与检测水质指标**。 建筑与小区管道直饮水系统技术规程 , **对管网系统的设计、使用材料**、

阀门、直饮水机房设计建造等做出了技术指引。

Water Quality Standard for Drinking Purified Water (CJ 94-2005): Specifies the water quality indicators for direct drinking water implementation and testing.

Technical Specification for Direct Drinking Water Systems in Buildings and Residential Areas (CJJ/T110-2017): Provides technical guidance on pipe network system design, materials, valves, and the construction of direct drinking water equipment rooms.



CJ 94 - 2005 Water Quality Standard for Drinking Purified Water 中华人民共和国行业标准
建筑与小区管道直饮水系统技术规程
Technical specification of pipe system for fine drinking water in building and sub-district
CJJ/T 110 - 2017
批准部门:中华人民共和国住房和城乡建设部施行日期:2017年11月1日

Technical Regulations for Pipe - based Direct Drinking Water Systems

管网设计要求 Design Requirement



[设计原则]

系统设计应符合节能、环保、经济、卫生、安全的原则,并为施工安装、运行操作、维护管理以及安全保护等提供便利条件。
[Design Principles]

The system design shall adhere to the principles of energy conservation, environmental protection, cost - effectiveness, hygiene, and safety. It should also provide convenient conditions for construction and installation, operation, maintenance, management, and safety protection.

- ① 用水量标准: 住宅为 3-5L/人/天
- ① Water Consumption Standard: For residential buildings, it is 3 5 liters per person per day.
- ② 饮用水专用龙头额定流量要求为 0.04L/S~0.08L/S
- ② The rated flow rate requirement for dedicated drinking water faucets is 0.04 L/S to 0.08 L/S.
- ③ 管网用材:管材应选用不锈钢管、铜管等符合食品级要求的优质管材。《建筑与小区管道直饮水系统技术规程》CJJ/T110-2017
- ③ Pipe Network Materials:
- Technical Specification for Direct Drinking Water System in Buildings and Residential Areas CJJ/T110 2017: High-quality pipes that meet food-grade requirements such as stainless steel pipes and copper pipes should be selected.

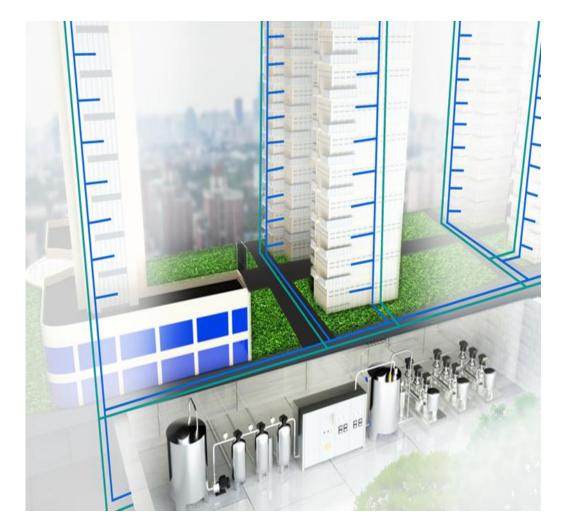


管网设计要求 Design Requirement



- ④ 管网设计:管道直饮水系统设计应做到动态循环和循环消毒,供水立管设置有自动排气阀,回水立管间隔7层左右设减压阀,回水管并且设计同程回流。
- ④ Pipe Network Design: The design of the pipe based direct drinking water system should achieve dynamic circulation and cyclic disinfection. Automatic air vents are installed on the water supply risers. Pressure - reducing valves are placed at intervals of approximately seven floors on the return water risers. The return pipes are designed for homing return flow.

- ⑤ 计量水表应采用直饮水水表 (SUS304) , 水表前设计检修阀
- ⑤ The water metering device should be a direct drinking water meter (made of SUS304), with maintenance valves installed upstream.



食品级不锈钢管网循环供水Food grade stainless steel pipe network for circulating water supply



管网安装采用**食品级**304/316**不锈钢管**,不锈钢水管内壁光滑,不易滋生细菌和污垢,其材质耐腐蚀,耐高压,使用寿命长,安全卫生,保障输送水质的安全。

High-quality food-grade pipes such as stainless steel (SUS304/316) pipes are used. These materials are corrosion-resistant, high-pressure-resistant, and have a long service life, ensuring safe and hygienic water delivery.

系统独立建设食品级管网通到每一个用水终端,用户打开水龙头,就能喝到纯净直饮水。

Independent Food-Grade Pipe Network: Ensures that every water terminal receives pure, direct drinking water.

直饮水管网采用**"给水+回水"循环设计**,防止直饮水在管道中静止,保证到达终端的每一滴水都是新鲜活水。

"Supply + Return" Circulation Design: Prevents water stagnation, ensuring fresh and flowing water at every terminal



Advantages of Pipeline Direct Drinking Water System

管道直饮水系统优势

管道循环鲜活直饮水由于其规模更大、科技设备更多,因此相较于净水器更具保障,同时性价比也更高。

Due to its larger scale and more scientific and technological equipment, it is more secure than water purifiers and more cost-effective.

水质特点 Water quality characteristics

○ 鲜活性 Liveness

采用食品级不锈钢管网同程循环供水,保证了每时每刻饮用的都是"新鲜"活水。

The food-grade stainless steel pipe network ensures a continuous supply of fresh, living water.

营养性 Nutrition

水质完全符合国家《饮用净水水质标准》(CJ94—2005),保留了对人体有益的矿物元素,具有口感好、水质佳、健康环保、安全可靠之特点。

The water complies with the national "Drinking Water Quality Standard" (CJ94-2005), retaining beneficial mineral elements for a refreshing and healthy drinking experience.



Advantages of Pipeline Direct Drinking Water System

管道直饮水系统优势

水质特点 Water quality characteristics

○ 健康性 Healthiness

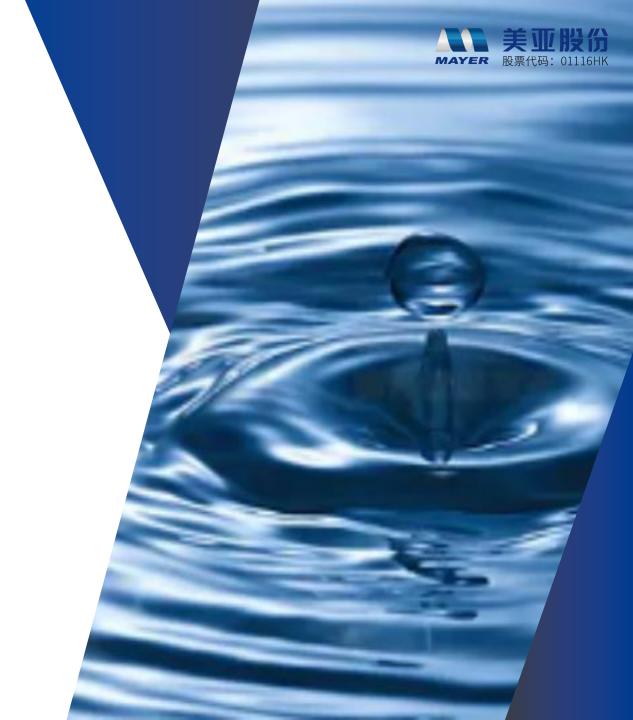
无污染,增强人体免疫力,长期饮用,可预防和减少消化系统和泌尿系统等慢性疾病。

Pollution-free water enhances immunity and helps prevent chronic diseases such as those affecting the digestive and urinary systems.

实惠性 Affordability

相比桶装水和家用净水器,管道直饮水价格更加实惠,用户打开水龙头就能直饮高品质饮用水,更安全 更健康 更方便 更快捷

More cost-effective than bottled water or household water purifiers, offering safer, healthier, and more convenient access to high-quality drinking water.



System Technology

系统优势







分布式循环供水专利技术 Patented technology of distributed circulating water supply





Quality Assurance

品质保证











GMP标准的焊接装配工艺 GMP Standard Welding and Assembly Process



品质保证



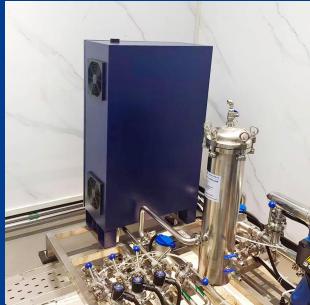


变频供水 Inverter Water Supply





复合杀菌专利技术 Compound Sterilization Patented Technology





运行节能技术
Energy-Saving Operation
Technology



物联系统介绍 IoT System Introduction



【中央净水设备运行】远程物联网管控平台

Central Water Purification Equipment Operation - Remote IoT Management Platform



地理信息 Geographic Information

水质监测 Water Quality Monitoring

故障预警 Fault Early Warning

计量监测 Measurement Monitoring

环境监控 Environmental Monitoring

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运用物联网管控平台实施涵盖"地理信息、环境监控、水质监测、计量监测、营收管理、运维管理、故障预警"等方面的在线监测,实现数据化、可视化、动态化管理。

The IoT platform enables online monitoring of geographic information, environmental conditions, water quality, metering, revenue management, operation and maintenance, and fault early warning, achieving data-driven, visual, and dynamic management.

物联系统介绍 IoT System Introduction



设备管理系统

设备监测、维修



用户管理系统

管理用户信息



运维管理系统

系统运行, 故障排查

Equipment management system Equipment monitoring and maintenance

User management system Manage user information

O&M management system System operation and troubleshooting



客服管理系统

全天候服务



大数据分析系统

数据链接、分析



便捷付费模式

用水量实时显示 结算更清晰

Customer service management system Round-the-clock service

Big data analysis system Data linking and analysis

Convenient payment model Real-time water usage display for transparent and accurate billing.



收费方式 Charging Models

Ö 按计量收费 Metered Charges

是根据用户使用量计费,按照地区项目价格计收。

Charges are based on the user's consumption volume and calculated according to the project prices in different regions.

◇ 按定额收费 Fixed-Rate Charges

是一种新的收费模式,通过双方商定,安装流量计对用户的实际使用量进行计量,设置定额价收取,计量仅作定额参考。

A new charging model where a flow meter is installed to measure actual consumption. A fixed price is set for charging, with the measurement serving as a reference for the quota.

③ 按价格/人/月标准收费 Charged on a price/person/month basis

是指用户每人/每月需要缴纳一定的服务费用,不受水量、时间等限制,相对比较固定,适合于长期使用管道直饮水的用户。

Users pay a fixed monthly service fee, regardless of water volume or time. This model is ideal for long-term users of direct drinking water systems.





美亚应用案例 Mayer application case

- 。 公共建筑 / 写字楼 Public Buildings / Office Buildings
- 医院 / 产业园 Hospitals/Industrial Parks

 学校 / 小区
- School / Community

应用案例

项目名称:

丽丰中心 (广州东风东路)

丽丰国际中心 (广州解放南路)

Project Name:

Lai Fung Center (Dongfeng East Road, Guangzhou)

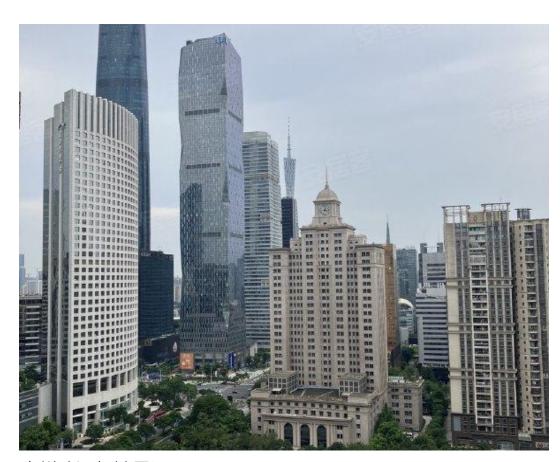
Lai Fung International Center (Jiefang South Road, Guangzhou)





应用案例





广州珠江新城星汇园 Xinghui Park, Zhujiang New Town, Guangzhou

中海观园 Zhonghai View Garden





中海花城湾 Zhonghai Huacheng Bay

应用案例



中海璟晖华庭 Zhonghai Jinghui Residence 江南新苑 Jiangnan Xinyuan



东风广场 Dongfeng Plaza



番禺祈福新邨 Panyu Pray for New Village







应用案例



中海干灯湖1号 Zhonghai Qiandeng Lake No. 1





广州富邦大厦 Guangzhou Fubang Building

番禺祈福新邨 Panyu Pray for New Village





Application Cases 应用案例

案例情况概览表

Case Overview Table



越秀城建星汇园 共 1344 户 Yuexiu Urban Construction Xinghui Garden, a total of 1344 households	金海岸 共 1580 户 Golden Coast, a total of 1580 households	祈福迎风阁 1318 户 Qifu Yingfeng Pavilion, 1318 households	祈福活力花园 共 1232 户 Qifu Huoli Garden, a total of 1232 households	中海干灯湖 1 号 共 2618 户 China Overseas Qiandeng Lake No.1, a total of 2618 households
爱家园 共 256 户 Aijia Garden, a total of 256 households	灏景轩 共 368 户 Haojingxuan, a total of 368 households	祈福倚云居 共 1342 户 Qifu Yiyunju, a total of 1342 households	祈福倚湖居 共 2626 户 Qifu Yihu Ju, a total of 2626 households	芳村恒荔湾畔小区 共 2100 户 Fangcun Hengliwanpan Community, a total of 2100 households
丽丰东风广场 共 1200 户 Lifeng Dongfeng Square, a total of 1200 households	祈福海晴居 共 1794 户 Qifu Haiqingju, a total of 1794 households	广东实验中学附属江门学校 6000 余人 Guangdong Experimental Middle School Affiliated Jiangmen School, more than 6000 people	中海观园国际小区 共 512 户 China Overseas Guanyuan International Community, a total of 512 households	广州富邦大厦 共 549 户 Guangzhou Fubang Building, a total of 549 households
丽丰中心 甲级 37 层 Lifeng Center, Class - A, 37 floors	祈福山泉居 共 1056 户 Qifu Shanquanju, a total of 1056 households	祈福晓峰园 共 1163 户 Qifu Xiaofengyuan, a total of 1163 households	中海花城湾小区 共 1350 户 China Overseas Huachengwan Community, a total of 1350 households	凯德御金沙小区 共 2800 户 CapitaLand Yujinsha Community, a total of 2800 households
江南新苑 共 1001 户 Jiangnan Xinyuan, a total of 1001 households	祈福月明轩 共 1248 户 Qifu Yuemingxuan, a total of 1248 households	祈福天湖居 共 1122 户 Qifu Tianhu Ju, a total of 1122 households	中海璟晖华庭小区 共 1130 户 China Overseas Jinghui Huating Community, a total of 1130 households	方圆越秀时光 共 754 户 Fangyuan Yuexiu Shiguang, a total of 754 households
广州华附海珠学校 3000 人 Guangzhou Huafu Haizhu School, 3000 people	丽丰国际中心 甲级写字楼 Lifeng International Center, Class - A office building	广东实验江门小学 3200 余人 Guangdong Experimental Jiangmen Primary School, more than 3200 people	星艺文创天地 微滤水处理系统 别墅项 目 Xingyi Cultural and Creative World, micro - filtration water treatment system, villa project	

谢谢 Thank you

美亚 (广州) 饮用水科技有限公司 Mayer (Guangzhou) Potable Water Technology Co.,Ltd.