



制药用水系统整体解决方案

THE TURNKEY SOLUTION OF PHARMACEUTICAL WATER SYSTEM

凯贤流体可提供从原水到纯化水、注射用水、纯蒸汽及生产使用点的全过程定制化设计和实施的交钥匙工程，致力于为客户提供从工艺设计、生产制造、现场安装、调试验证、项目管理、售后服务等全方位整体解决方案，有效的提高了项目执行效率和可控性。

KAISEN Fluid can deal with turnkey projects of the whole process customized design and implementation, which is from raw water to purified water, water for injection, pure steam and production and user points, and is committed to providing customers with process design, manufacturing, on-site installation, commissioning verification, project management, after-sales service and other comprehensive overall solutions, effectively improving project execution efficiency and controllability.



定制化设计 / CUSTOMIZED DESIGN

专业的设计团队与专业的计算软件结合，选择最佳的水机、储存与分配系统
 柔性化供水，使系统更安全、节能，设备寿命更长
 模块化设计，节省空间，便于管理，质量可靠

Professional design team combined with professional calculation software to select the best purified water generator, storage and distribution system
 Flexible water supply, making the system safer, energy saving and equipment life longer
 Modular design, save space, easy to manage, reliable quality

法规符合性 / REGULATION COMPLIANCE

专业的工程施工团队，保证工程质量；
 先进的自控系统，符合21 CFR PART 11电子记录/电子签名要求，界面友好，方便操作；
 提供符合美国FDA，欧盟GMP，WHO GMP要求的文件系统。

Professional engineering construction team to ensure the quality of the project;
 Advanced automatic control system, in line with the 21 CFR Part 11 electronic records/electronic signature requirements,
 friendly interface, convenient operation;
 Provide the file system that meets the requirements of the US FDA, EU GMP, and WHO GMP.



纯化水机

PURIFIED WATER GENERATOR

纯化水机以市政供水作为原水，设备的工艺流程包括多介质过滤器，活性炭过滤器，软化器，反渗透以及电去离子，纯化水质量满足中国、欧洲及美国药典的要求。

The purified water generator takes municipal water supply as raw water. The process flow of the equipment includes multi-media filter, activated carbon filter, softener, reverse osmosis and electrodeionization. The purified water quality meets the requirements of China, Europe and the United States Pharmacopoeia.

优势 / ADVANTAGES

- 模块化设计，结构紧凑，现场安装简易、快捷
- 先进的自动化控制方式，运行持续稳定、可靠
- 双软化串联，交替再生，有效控制微生物
- 无中间水箱设计，避免二次污染风险
- 全巴氏消毒，消毒方式自由、灵活
- 双路供水及独特的循环方式，防止整个系统微生物滋生
- 恒压控制方式，防止循环状态中系统压力过高，延长EDI使用寿命
- 反渗透系统回收率自动调整，或可选配浓水回收装置，大幅度节约能源
- 柔性化供水，减少停机时间，节省能源，提高设备寿命

- Modular design, compact structure, easy and fast on-site installation
- Advanced automatic control method, stable and reliable operation
- Double softening in series, alternate regeneration, effective control of microorganisms
- No intermediate water tank design to avoid secondary pollution risk
- All pasteurization, free and flexible disinfection methods
- Double water supply and unique recycling methods to prevent the breeding of micro-organisms throughout the system
- Constant pressure control to prevent system pressure from being too high in the cycle state and extend EDI's service life
- The recovery rate of reverse osmosis system can be adjusted automatically, or the concentrated water recovery device can be selected to save energy greatly
- Flexible water supply, reduce downtime, save energy, and prolong equipment life

