

智能靜音箱式雙模供水設備

TANK TYPE DOUBLE MODE WATER SUPPLY EQUIPMENT



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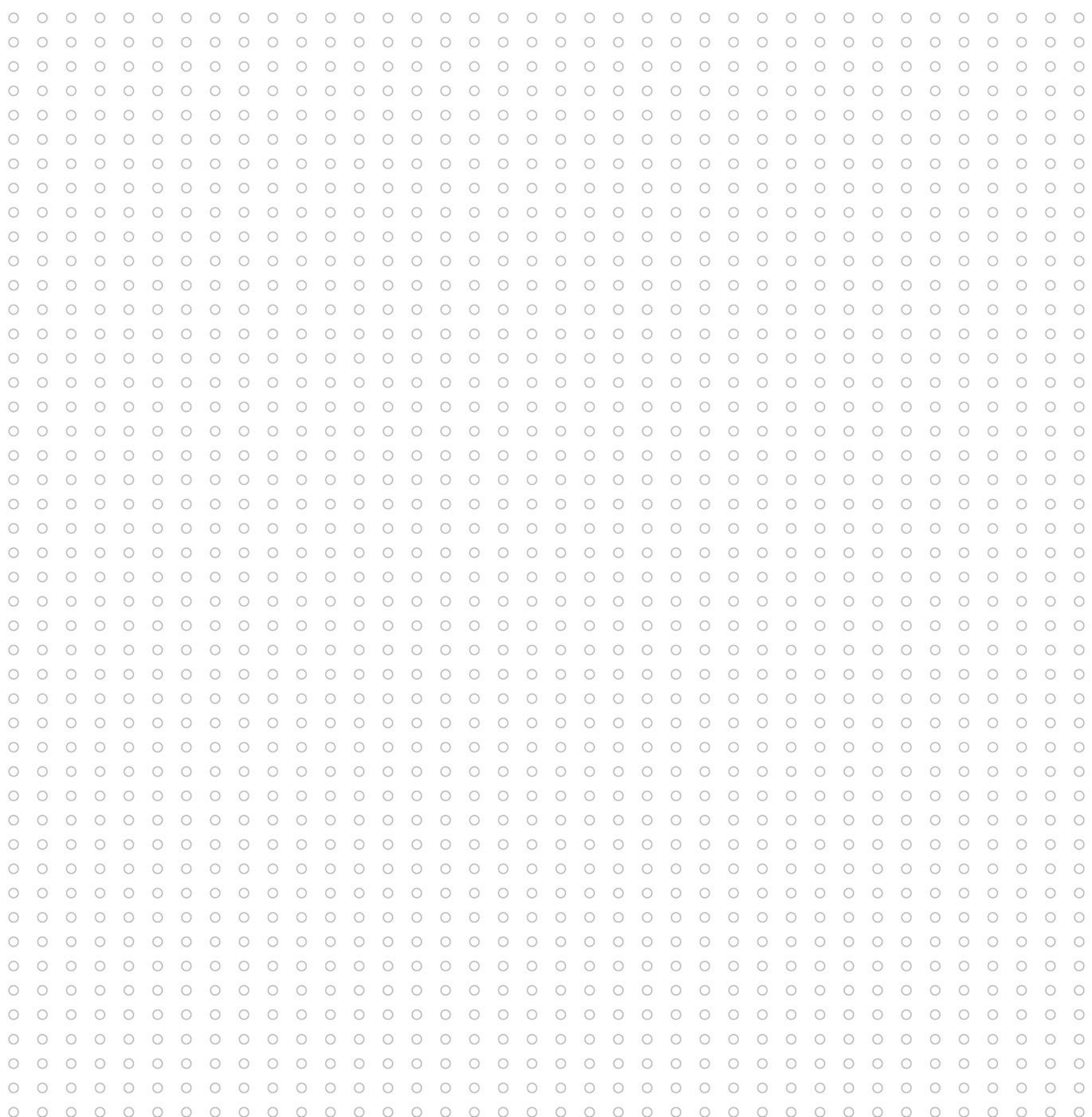
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ZJXG

TANK TYPE DOUBLE MODE
WATER SUPPLY
EQUIPMENT



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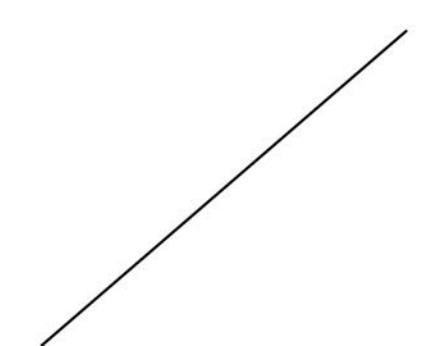
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U-flo Pumps International LLC is a global water pump manufacturing and marketing company registered in Washington, USA. Our cooperated facilities are located in Italy, Japan, Taiwan and China. Our primary products include Deep-well Pumps, Above-ground Pumps, Sewage Pumps, Pumping Systems. They are widely used in power plants, paper mills, steel plants, agriculture irrigations, construction trades, industrial applications, mining operations, municipal utilities as well as oil/gas fields.

Integrity, Innovation, International

Since the first U-FLO water pump was manufactured, our people have been making unremitting endeavor to improve designs of the U-FLO water pump products. We apply the best industry practices and the best suitable materials for key components to the design and manufacturing of our pumps.

In addition to our state of art manufacturing facilities, we put a big effort on pump testing. Every product undergoes a rigorous testing and inspection process before being shipped to our customers. Our test facility incorporates a 12000 cubic meter (52,834 gallon) closed loop system with testing capacity of up to 600m³/h (2640GPM) with the maximum head of 200m (656ft), and 250 horsepower (dual voltages of 50Hz and 60Hz). Following a strict quality management system, all of our facilities are ISO 9001 and ISO 4001 certified.

Water is a vital part of our natural resources. While we always pursue the excellence of our products and services, we also take every step to promote environment-friendly and energy-saving solutions.

As a global pump manufacturer and supplier, U-FLO is committed to producing the finest water pumps in the world and continues to lead the way forward in the pumping industry.

U-FLO PUMPS INTERNATIONAL LLC是一家总部注册在美国华盛顿州的全球化水泵制造与销售公司。我们在意大利, 日本, 台湾和中国大陆地区均设有合作工厂。我们主要产品包括深井泵、地面泵、污水泵和供水设备。产品广泛应用于电厂、造纸厂、钢厂、农业灌溉、建筑、工业应用、矿山、市政以及油田领域。

诚信、创新、国际化

自第一台U-flo水泵出厂以来, 我们一直不懈努力, 致力于改进U-flo水泵的设计。我们以最高的行业要求和最佳材料设计和制造水泵。

在严抓工艺水平的同时, 我们还致力于水泵的测试。每一台水泵在出厂前均需要经过严格的测试和检验。我们的测试台含12000立方米(52,834加仑) 闭式循环系统, 最大测试流量达600m³/h(2640GPM),最高扬程为200m(656ft), 250马力(双电压50Hz、60Hz)。按照严格的质量管理体系, 我们所有的工厂均通过ISO9001和ISO14001认证。

水是自然资源的重要组成部分, 我们在追求卓越的产品和服务的同时, 亦在努力推广环保和节能解决方案。

作为全球水泵制造商和供应商, U-flo致力于生产全球最好的水泵, 成为水泵行业的领跑者。



Quality witness responsibility Technology create reliability

品质见证责任 专业成就信赖!



Design & production 设计和制造

Design and production are all made internally at U-flo's facilities, with a quality and process systems in accordance to the ISO9001 standards; as a further results of its environmental orientation, U-flo, in the 2011, got the ambitious ISO14001 Certificate proving that its production processes comply with the very strict rules imposed by the ISO14001 Certificate.

U-flo 自主设计和制造，质量及生产系统符合 ISO9001 标准。更因为 U-flo 准确的环境定位，2011 年获得 ISO14001 认证，充分证明生产过程符合 ISO14001 标准。

Applications 产品应用范围

Water supply and boost of high-rise building and residence community, automatic circulating system boost, the greening irrigation, medical treatment and public health, the shower system, villa boost, etc.

高层楼宇和小区供水增压，自动循环系统加压，绿化喷灌，医疗卫生，淋浴系统，别墅加压等场合。

U-FLO reserves the right to make modifications without notice.

U-FLO 有权对产品进行修改，恕不另行通知。



TANK TYPE DOUBLE MODE WATER SUPPLY EQUIPMENT ZJXG SERIES

TANK TYPE DOUBLE MODE WATER SUPPLY EQUIPMENT



I、Introduction



The problems of second water supply is becoming a social problem. U-LFO have newly launched the dual-mode smart speaker static water supply equipment, combined with constant pressure device and advantages of the overlying water supply equipment supply, solve the problem of water supply security.

U-FLO ZJXG series box-type dual-mode supply equipment, pump integrated design uses a box. When the municipal pipe network water pressure is sufficient, you can take advantage of overlying water supply pipe network pressure, maximize energy efficiency. When the municipal pipe network can not meet the water pressure can be used to supplement the water tank. The system automatically detects water pressure switch, very intelligent and humane, full protection of the municipal pipe network.

Equipment appearance of simple, easy to install, and can increase the water tank self-cleaning, sterilization, disinfection apparatus according to user needs.

The device can be used in three different control modes, namely single-frequency control, multi-frequency control and digital integrated full-frequency control, and an additional remote control functions according to user needs.

二次供水安全问题，已成为社会性问题。尤孚最新推出的智能静音箱式双模供水设备，结合变频恒压供水设备和叠压供水设备的优点，彻底解决供水安全问题。

尤孚 ZJXG 系列箱式双模供水设备，采用箱泵一体化设计。当市政管网水压充足时，可充分利用管网压力叠压供水，最大化实现节能。当市政管网水压不能满足时，可利用水箱中的水进行补充。系统自动检测水压进行切换，非常智能和人性化，充分保护市政管网。

设备外观简洁，安装方便，并可根据用户需求增加水箱自动清洗、杀菌、消毒装置。设备可采用三种不同的控制模式，分别为单变频控制、多变频控制和数字集成式全变频控制，并可根据用户需求增设远程控制功能。

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II、ADVANTAGES 优点

1.Safe.

The equipment using dual-mode water supply ,automatic detection pipe network water pressure, and intelligent switching, the use of municipal pipe network overlying water supply adequate water pressure when water pressure, insufficient water pressure, water storage tank to supplement the full protection of the municipal pipe network, water supply security high;

2.High degree of intelligence

The system automatically detects water pressure SmartSwitch, truly unattended, and enables remote monitoring capabilities;

3.Energy-saving effect

(1)For chose U-FLO imported submersible pumps and submersible motors, pumps from Italy, the efficiency of motor is higher than the domestic product, so this equipment have a high operating efficiency;

(2)Italian imported digital integrated variable frequency controller, flexible control mode, the full realization of the pump frequency

control, with respect to the frequency operation, saving up to 70%.

4.Mute

(1)For chose U-FLO imported submersible pumps and submersible motors, pumps from Italy, the product is designed for building secondary water supply industry to develop and maximize pump operation to eliminate noise;

(2)The equipment used box with pump integrated design, while taking a series of noise, damping measures, the equipment operating noise below 40 decibels.

5.environmental health, pollution-free

(1)Selection U-FLO water supply' s submersible motor, motor with water lubricated structure, water cycle, water cooled, will not cause any pollution to water quality;

(2)All the equipment wetted parts are able to reach the health standard, completely eliminate water pollution.

1、安全性高

设备采用双模供水，自动检测管网水压，并智能切换，水压充足时利用市政管网水压叠压供水，水压不足时，水箱蓄水进行补充，充分保护市政管网，供水安全性高；

2、智能化程度高

系统自动检测进水压力智能切换，真正实现无人值守，并可实现远程监控功能；

3、节能效果明显

(1) 选用尤孚意大利原装进口的静音潜水泵和潜水电机，水泵、电机效率均高于国内产品，因此设备运行效率高；

(2) 采用意大利原装进口数字集成式变频控制器，控制方式灵活，实现对水泵的全变频控制，相对于工频运行，节能最高可达 70%。

4、静音

(1) 选用尤孚意大利原装进口的静音潜水泵和静音潜水电机，产品专为建筑二次供水行业开发，最大化消除水泵运行噪声；

(2) 设备采用箱泵一体化设计，同时采取了一系列降噪、减震措施，使设备运行噪声低于 40 分贝。

5、环保卫生、无污染

(1) 选用尤孚供水专用的静音潜水电机，电机采用水润滑结构，水循环、水冷却，不会对水质造成任何污染；

(2) 设备所有过流部件均能够达到卫生级标准，完全杜绝水质污染。

ZJXG

Service

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III、CONFIGURATION 配置

1. Pump: Adopt U.S. U-FLO stainless steel SVP Safe-noise pump, U.S. U-flo Full stainless steel encapsuled water-filled motor.	1. 水泵: 选用美国 U-FLO 全不锈钢 SVP 静音泵, 美国 U-FLO 全不锈钢屏蔽式充水电机。
2. Frequency Converter: U-FLO, ABB, DANFOSS, FUJI	2. 变频器: U-FLO, ABB, 丹弗斯, 富士
3. Pressure sensor: DANFOSS, COLLIHIGH Electric contact pressure gauge	3. 压力传感器: 丹弗斯, 昆仑海岸 电接点压力表
4. Touchscreen: VEINVIEW, SIEMENS	4. 触摸屏: VEINVIEW, SIEMENS
5. Programmable logic controller module: SIEMENS, MITSUBISHI	5. 可编程控制器模块: SIEMENS, 三菱
6. Components such as electrical equipment and switches: SCHNEIDER, SIEMENS	6. 电气、开关等元器件: SCHNEIDER, SIEMENS
7. Pressure tank: ITALY AQUAFILL	7. 压力罐: 意大利 AQUAFILL
8. Valve: all stainless steel custom integrated valve	8. 阀门: 全不锈钢定制一体式阀门
9. water tank automatic cleaning mechanism	9. 水箱自动清洗机构
10. water tank disinfection, sterilization device	10. 水箱消毒、杀菌装置

Optional devices 选配装置

1. The remote monitoring platform: monitoring interface provided by our company are divided into two types of Ethernet, wireless network; Ethernet interface, the user needs to provide 1 broadband network; wireless network interface, users need to provide mobile SIM card, and ensure the equipment environment mobile signal coverage. Any one form, the user can be self monitoring, and we also can provide monitoring. Monitoring content includes: the pipe pressure, pump status, current frequency, remote start stop, remote reset, etc.
2. The remote video monitoring system: configuration via the Internet, to the pump room environment for remote monitoring, reduce the personnel patrol, can achieve unattended, improve water pump room equipment and safety.
3. The on-line sterilization device: installation of on-line device in equipment export, improve the secondary water supply, water quality more healthy, safe water supply.

1. 远程监控平台: 我公司提供的监控接口分为以太网、无线网两种形式, 选择以太网接口, 用户需要提供 1 根开通宽带的网线, 选择无线网接口, 用户需提供移动 SIM 卡, 并保证设备环境有移动信号覆盖。任意一种形式, 用户均可自行监控, 且我公司也可以代为监控。监控内容包含: 管网压力、水泵状态、当前频率、远程启停、远程复位等。

2. 远程视频监控: 通过互联网配置, 对泵房环境进行远程监视, 减少人员巡查, 可做到无人值守, 提高泵房设备及用水安全性。

3. 在线式杀菌消毒装置: 在设备出口加装在线式装置, 提高二次供水水质, 更健康、安全的供水。

IV、PRINCIPLE 原理

Overlying Water Supply

1. When the water in the system in the device of a pump rated flow range:

(1) Water supply network through Y-type filter runoff, Backflow prevention device, In this case the electric three-way valve inlet Electric three-way valve and the water tank. Open to all files into the overlying water supply equipment. When the water pressure sensor device. The outlet end of the device is detected when the pressure does not meet the requirements of the user desired pressure, frequency control cabinet Automatic control of the set when the value of the work of the pump. Up and running, with the increase of the output frequency of the pump motor speed is accelerating. When the water pressure sensor. Device detects system water pressure reaches the set pressure value (pre-set parameters), the motor speed and stability, the system reaches initial balance, work the pump frequency operation at temperatures greater than the minimum device acting frequency ($\geq 25\text{Hz}$) state;

(2) Water system continues to increase, the water pressure sensor device to detect the device outlet port pressure can not meet the users most negative point of water required pressure requirements, the system has been formed in the initial balance is broken, leading to

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equipment output frequency continues to rise, the pump motor speed again accelerated water equipment flow increases, the system reaches a new equilibrium;

(3) As the system water consumption is increasing, and system balance are constantly being broken, so the change order, again and again to reach a pump rated flow within the range of operating conditions of the frequency balance.

2. When the water system exceeds a pump device rated flow range:

With increasing water users in more than work the pump rated flow operating point, device outlet pressure drop, resulting in a water pump operation can not maintain pressure parameters set by the system, the original pump rated flow within a frequency range of operating conditions equilibrium state is broken, the second pump start by the control program controls the variable frequency controller cabinet PLC set, multi-pump working in parallel. So change the order, so as to achieve more balanced work of the pump operating conditions in parallel.

3. When the system is to reduce water consumption, equipment outlet pressure increases, the frequency controller according to the set procedures to reduce the work of pump units command, or quit work more pumps the parallel operation state, a return to balance within the frequency range of the pump rated flow of operating conditions.

4. System to further reduce water consumption, operating frequency of the pump down to sleep frequency (25Hz, pre-set parameters), the inverter controller sleep, working pump stops, start small pump (device configuration is sometimes) by the frequency of water supply or pressure tank voltage supply. Frequency controller at any time to monitor the water pressure sensor device changes when the wake-up pressure at the outlet pressure is less than the set value of the system (pre-set parameters, the device is usually set export value of 90% -95%), the operating pump restart the run, repeat the above procedures.

Water Tanks

1. In the process of layers of water supply equipment, water pressure sensor detecting the front end of the water supply network in time pressure. When the water supply pipe network pressure abnormal fell to its lowest set pressure value, the electric three-way valve provided in the water on the water inlet pipe to quickly switch, select the path into the water tank, open the tank while the water storage tank outlet pipe electric three-way valve to start the pressure pump, from the stainless steel tank simulated water pressure in the pipe, tube pump overlying water supply.

2. To avoid water storage tank for too long leads to deterioration of water quality, when the water tank is stored in the reservoir for more than 12h, open water electric three-way valve leading to the direction of the tank, and open the water tank on the electric three-way valve leading to the laminated tube pump direction, and start pressurizing pump, from the stainless steel tank water to simulate the pressure in the pipe, laminated tube pump frequency booster feeding user; be water tank when the water level is approaching the minimum level set, the inlet and outlet of electric three-way valve, respectively, the switching direction, while closing pressure pump, to recover from the municipal water pipe network, frequency laminated tube pump and normal supply mode of operation.

Equipment inlet pressure is too low protection

When the equipment is running, the current end of the municipal water supply pipe network pressure drops to a pressure value defining the local water sector regulations, equipment stacked intake control is automatically activated, automatically close overlying water valve, pump tube to change from the stainless steel tank through a pressurized water pump supplying laminated frequency users.

Protection of user small flow conditions

Users low water periods, working the pump out of operation, frequency control cabinet according to the set procedures for small pump device configuration command instead of working auxiliary pump frequency operation, which can effectively prevent the main pump frequent start work to ensure smooth water supply system, the machine runs can reduce equipment consumption.

Small pump frequency control water supply device configured to work with the main pump as frequency control can be achieved by communication and data sharing work between the pump and the small pump, so that small pump can automatically maintain a constant frequency mode.

When a small amount of water or extremely small, small pump with pressure tank can be well maintained system pressure stable. When there is no long-term water, small water pump stops running, small pressure tank can be maintained normal water supply system.

In addition, the device during normal operation, when switching between the pump, pressure tank protection system also help stabilize the working pressure.

Under special circumstances, the pressure tank pipe network also helps eliminate water hammer phenomenon may occur.

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Other protective measures

- (1) Auxiliary backup host function;
- (2) Pump antifreeze function, the ambient temperature is too high or too low alarm protection;
- (3) Frequency counter can overheat automatic thermal protection;
- (4) Automatic reset after a power failure;
- (5) High voltage, low voltage, over current, grounding, overload, phase loss, communications failure protection function;
- (6) Regular rotation pump can work;
- (7) Small pump auxiliary functions;
- (8) Self-diagnostic equipment running status and the system will automatically resume operation after alarm reset function;
- (9) Fault display;
- (10) Sensor protection function, with emergency water protection sensor is damaged or does not work;
- (11) Overpressure protection system;
- (12) Prevent idling pumps function
- (13) Automatic operation of the pump function over obstacles;
- (14) Pump or pump equipment water protection function;
- (15) Actual system operating pressure and the pressure value of the pressure calibration instrument displays inconsistent adjustment function;
- (16) Remote control operation to prevent data interrupt function (remote parameter setting save);
- (17) Non-management personnel to prevent unauthorized operation of the controller locking and unlocking.

叠压供水

1. 当系统用水量在设备中的一台水泵额定流量范围内时:
 - (1) 供水管网来水通过 Y 型过滤器、倒流防止器, 此时进水电动三通阀和水箱出水电动三通阀均开到进入叠压供水设备挡。当设备出水压力传感器检测到设备出口端压力不能满足用户所需压力要求时, 变频控制柜自动控制设定的当值工作水泵启动运行, 随输出频率的升高, 水泵的电动转速不断加快。当出水压力传感器检测到设备供水压力达到系统设定压力值(参数预先设定)时, 电机转速稳定, 系统达到初始平衡, 工作水泵在大于设备最低做功频率(≥25Hz)状态下变频运行;
 - (2) 系统用水量继续增大, 设备出水压力传感器检测到设备出口端压力又不能满足用户最不利用水点所需压力要求, 已经形成的系统初始平衡被打破, 导致设备输出频率继续升高, 水泵电机转速再次加快, 供水设备流量增加, 系统达到新的平衡;
 - (3) 随着系统用水量的不断增大, 系统平衡也不断被打破, 如此顺序变化, 一次次达到一台水泵额定流量范围内变频运行工况下的平衡。
2. 当系统用水量超出设备中的一台水泵额定流量范围时:

随着用户用水量不断增大, 在超过工作水泵额定流量工作点时, 设备出口压力下降, 导致一台水泵运行不能维持系统设定的压力参数, 原来一台水泵额定流量范围内变频运行工况下的平衡状态被打破, 第二台水泵启动, 并由控制柜内 PLC 所设定的程序控制变频控制器, 实现多工作泵并联运行。如此顺序变化, 从而达到多工作泵并联运行工况下的平衡。
3. 当系统用水量减少, 设备出口压力升高, 变频控制器按设定程序指挥减少工作水泵台数, 或退出多工作泵并联运行状态, 回到一台水泵额定流量范围内变频运行工况下的平衡。
4. 系统用水量进一步减少, 工作泵频率降至休眠频率(25Hz, 参数预先设定), 变频控制器休眠, 工作泵停转, 启动小型水泵(设备中配置有时)变频供水或由气压水罐稳压供水。变频控制器随时监视设备出水压力传感器变化, 当出口压力低于系统所设定的唤醒压力值(参数预先设定, 一般为设备出口设定值 90%~95%)时, 工作泵重新启动运行, 重复上述工作程序。

水箱供水

1. 在设备叠压供水过程中, 进水压力传感器时刻检测前端供水管网的压力。当供水管网压力出现异常下降至最低设定压力值时, 设置在进水管上的进水电动三通阀迅速切换, 选择进水箱通路, 同时打开水箱出水管上的水箱出水电动三通阀, 启动加压泵, 从不锈钢储水箱吸水模拟管网压力, 管中泵组进行叠压供水。
2. 为避免水箱储水时间过长导致水质劣化, 当水箱内储水存储时间超过 12h, 打开进水电动三通阀通往水箱方向, 并打开水箱上出水电动三通阀通往叠压管中泵组方向, 同时启动加压泵, 从不锈钢储水箱吸水, 模拟管网压力, 叠压管中泵变频增压供给用户; 待水箱水位将至设定最低液位时, 将进、出水电动三通阀分别切换方向, 同时关闭加压泵、恢复从市政管网吸水, 变频叠压管中泵正常供水的运行模式。

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ZJXG系列

设备进水口压力过低的保护措施

设备运行中, 当前端市政供水管网水压下降到当地供水部门规定的限定压力值时, 设备叠压进水口管制功能自动启动, 自动关闭叠压进水阀门, 管中泵组改从不锈钢储水箱吸水经过加压泵变频叠压供给用户。

用户小流量工况下的保护措施

用户低谷用水时段, 工作水泵退出运行, 变频控制柜按设定程序指挥设备配置的小型水泵代替工作水泵变频辅助运行, 可有效避免主工作泵频繁启动, 保证系统供水平稳, 降低设备整机运行能耗。

变频调速供水设备配置的小型水泵与主工作泵一样, 均由变频控制可以实现工作水泵与小型水泵间的通讯与数据共享, 使小型水泵也能自动保持恒压变频方式运行。

当系统用水量很小或极小时、小型水泵配合气压罐可以很好地保持系统压力稳定。当长期没有用水时, 小型水泵停止运行, 小型气压罐也可维持系统的正常供水。

另外, 在设备正常运行过程中, 当水泵相互切换时, 气压罐还有利于保护系统工作压力的稳定。

特殊情况下, 气压水罐还有助于消除系统管网可能出现的水锤现象。

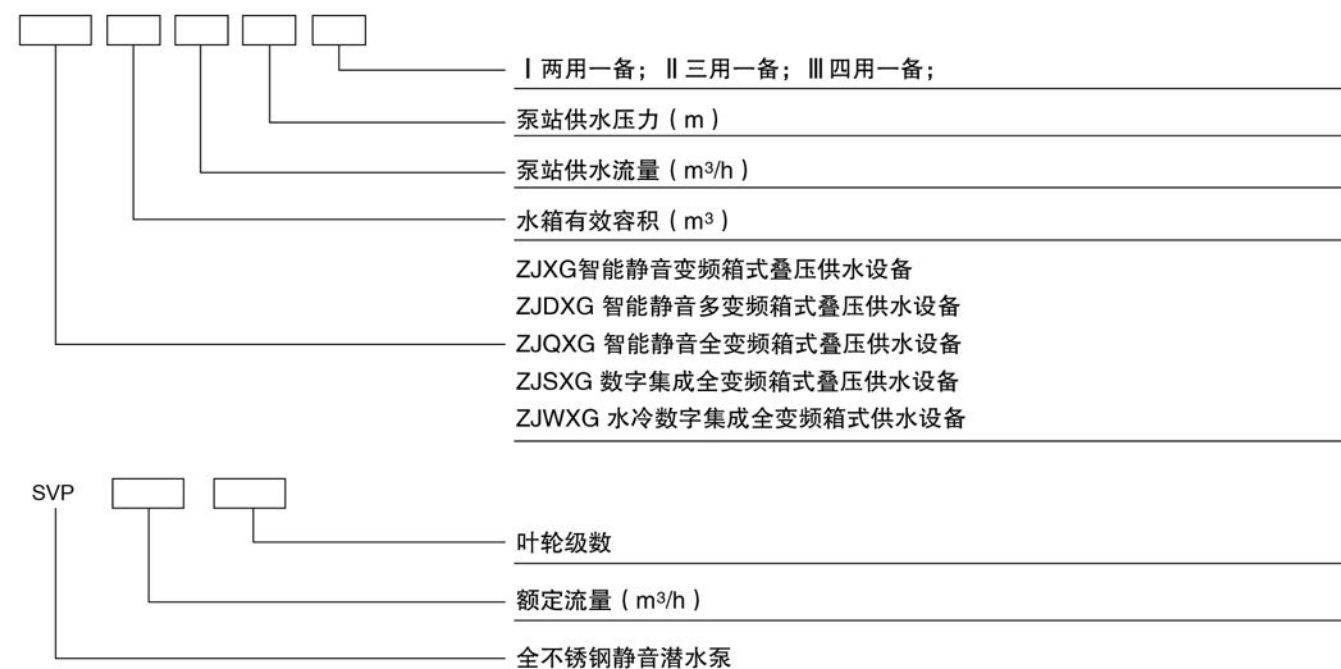
其他保护措施

- (1) 辅机备份主机功能;
- (2) 水泵防冻功能, 环境温度过高或过低报警保护功能;
- (3) 变频柜可以过热自动散热保护功能;
- (4) 停电后自动复位功能;
- (5) 高电压、低电压、过电流、接地、过载、缺相、通讯故障等保护功能;
- (6) 泵组可以定时轮换工作;
- (7) 小泵辅助功能;
- (8) 自我诊断设备运行状态是否正常及系统报警解除后自动恢复运行功能;
- (9) 故障显示功能;
- (10) 传感器保护功能, 具备传感器损坏或不工作时紧急供水保护;
- (11) 系统超压保护功能;
- (12) 防止水泵空转功能;
- (13) 自动越过障碍泵运行功能;
- (14) 水泵或泵组成套设备无水保护功能;
- (15) 系统运行实际压力值与仪表显示压力值不一致时的压力校准调整功能;
- (16) 防止远程控制运行数据中断功能(远程参数设定保存);
- (17) 防止非管理人员擅自操作的控制柜锁定与解锁功能。

TANK TYPE DOUBLE MODE WATER SUPPLY EQUIPMENT

ZJXG SERIES / 智能静音箱式双模供水设备
ZJXG系列

V、MODEL DESCRIPTION 型号说明



数字集成全变频控制器

1. 自带风扇进行冷却, 专为潜水泵研发;
2. 适用于多种安装环境;
3. 为水泵提供电压、电流、温度、短路等多重保护;
4. 体积小, 节省安装空间;
5. 多台变频控制器之间可进行通讯。



水冷数字集成全变频控制器

1. 最大压力16Bar;
2. 专用和易用的报警及诊断系统;
3. 为水泵提供干转、过热、过流等多重保护;
4. 采用水流进行冷却, 运行噪声极低;
5. 可同时监测流量和压力;
6. 易于安装和检修;
7. 多台变频控制器之间可进行通讯。

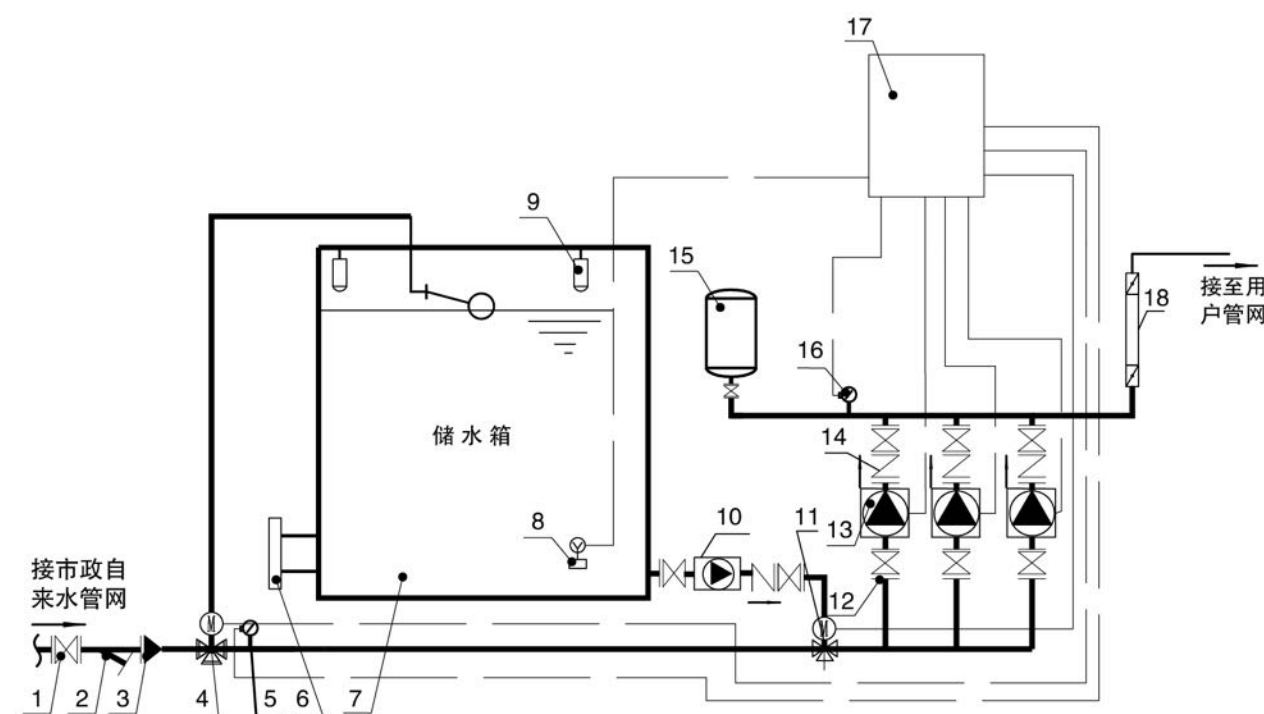


TANK TYPE DOUBLE MODE WATER SUPPLY EQUIPMENT

ZJXG SERIES / 智能静音箱式双模供水设备
ZJXG系列

Control Schematic 控制原理图

ZJXG/ZJDXG/ZJQXG 设备控制原理图



设备主要部件表

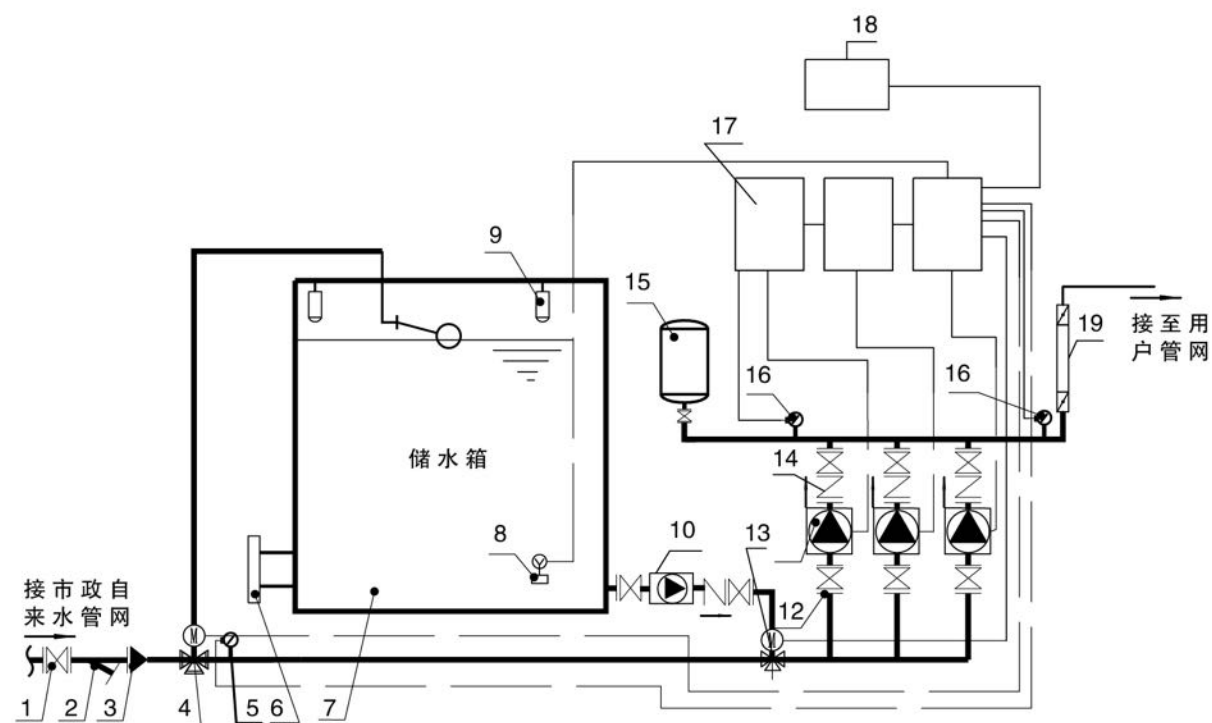
序号	名称	用途	序号	名称	用途
1	阀门	检修时关闭	10	加压管中泵	模拟管网压力
2	Y型过滤器	过滤管网进水	11	水箱出水电动三通阀	水箱供水时自动开启
3	倒流防止器	防止回流污染	12	阀门(蝶阀或球阀)	水泵进、出水控制阀
4	进水电动三通阀	进水选择自动开启	13	叠压管中泵	增压供水
5	进水压力传感器	检测设备进水管压力	14	止回阀	
6	消毒装置		15	隔膜式气压水罐	
7	不锈钢储水箱	储存高峰时段用水	16	出水压力传感器	检测设备出水管压力
8	液位传感器	检测水箱液位	17	变频控制柜	变频器及显示屏组合控制柜
9	水箱自动清洗装置	定期清洁水箱	18	紫外线消毒器	

TANK TYPE DOUBLE MODE WATER SUPPLY EQUIPMENT

ZJXG SERIES / 智能静音箱式双模供水设备 ZJXG系列

Control Schematic 控制原理图

ZJXG/ZJWXG 设备控制原理图



设备主要部件表

序号	名称	用途
1	阀门	检修时关闭
2	Y型过滤器	过滤管网进水
3	倒流防止器	防止回流污染
4	进水电动三通阀	进水选择自动开启
5	进水压力传感器	检测设备进水管压力
6	消毒装置	
7	不锈钢储水箱	储存高峰时段用水
8	液位传感器	检测水箱液位
9	水箱自动清洗装置	定期清洁水箱
10	加压管中泵	模拟管网压力

序号	名称	用途
11	水箱出水电动三通阀	水箱供水时自动开启
12	阀门(蝶阀或球阀)	水泵进、出水控制阀
13	叠压管中泵	增压供水
14	止回阀	
15	隔膜式气压水罐	
16	出水压力传感器	检测设备出水管压力
17	水泵专用数字集成变频控制器	
18	显示屏	
19	紫外线消毒器	

TANK TYPE DOUBLE MODE WATER SUPPLY EQUIPMENT

ZJXG SERIES / 智能静音箱式双模供水设备 ZJXG系列

BASIC PARAMETERS 基本参数

ZJ(D/Q/S/W)XG (二用一备)

序号	设备型号	有效容积 m ³	设备流量 (m ³ /h)	设备扬程 m	设备总功率 kW	水泵A (两用一备)			水泵B (一用一备)			运行质量 kg	苏S08-2015 图集对应型号		
						型号	单泵流量 (m ³ /h)	单泵扬程 m	单泵功率 kW	型号	单泵流量 (m ³ /h)			单泵扬程 m	单泵功率 kW
01	ZJ(D/Q/S/W)XG-15-10-10-I	15	10	10	2.5	SVP-504	5	10	0.5	SVP-810	10	30	1.5	21776	DNOXB-15-10-10-I
02	ZJ(D/Q/S/W)XG-15-10-20-I	15	10	20	2.6	SVP-506	5	20	0.55	SVP-810	10	30	1.5	21786	DNOXB-15-10-20-I
03	ZJ(D/Q/S/W)XG-15-10-30-I	15	10	30	3	SVP-508	5	30	0.75	SVP-810	10	30	1.5	21797	DNOXB-15-10-30-I
04	ZJ(D/Q/S/W)XG-15-10-40-I	15	10	40	3.7	SVP-512	5	40	1.1	SVP-810	10	30	1.5	21802	DNOXB-15-10-40-I
05	ZJ(D/Q/S/W)XG-15-10-50-I	15	10	50	4.5	SVP-517	5	50	1.5	SVP-810	10	30	1.5	21812	DNOXB-15-10-50-I
06	ZJ(D/Q/S/W)XG-15-10-60-I	15	10	60	4.5	SVP-517	5	60	1.5	SVP-810	10	30	1.5	21812	DNOXB-15-10-60-I
07	ZJ(D/Q/S/W)XG-15-10-70-I	15	10	70	5.1	SVP-521	5	70	1.8	SVP-810	10	30	1.5	21832	DNOXB-15-10-70-I
08	ZJ(D/Q/S/W)XG-15-10-80-I	15	10	80	5.1	SVP-521	5	80	1.8	SVP-810	10	30	1.5	21837	DNOXB-15-10-80-I
09	ZJ(D/Q/S/W)XG-15-10-90-I	15	10	90	5.9	SVP-525	5	90	2.2	SVP-810	10	30	1.5	21837	DNOXB-15-10-90-I
10	ZJ(D/Q/S/W)XG-15-10-100-I	15	10	100	7.5	SVP-533	5	100	3.0	SVP-810	10	30	1.5	21893	DNOXB-15-10-100-I
11	ZJ(D/Q/S/W)XG-15-10-110-I	15	10	110	7.5	SVP-533	5	110	3.0	SVP-810	10	30	1.5	21893	DNOXB-15-10-110-I
12	ZJ(D/Q/S/W)XG-15-10-120-I	15	10	120	7.5	SVP-533	5	120	3.0	SVP-810	10	30	1.5	21893	DNOXB-15-10-120-I
13	ZJ(D/Q/S/W)XG-15-10-130-I	15	10	130	8.9	SVP-538	5	130	3.7	SVP-810	10	30	1.5	21813	DNOXB-15-10-130-I

序号	设备型号	有效容积 m ³	设备流量 (m ³ /h)	设备扬程 m	设备总功率 kW	水泵A (两用一备)			水泵B (一用一备)			运行质量 kg	苏S08-2015 图集对应型号		
						型号	单泵流量 (m ³ /h)	单泵扬程 m	单泵功率 kW	型号	单泵流量 (m ³ /h)			单泵扬程 m	单泵功率 kW
14	ZJ(D/Q/S/W)XG-30-20-10-I	30	20	10	4.5	SVP-805	10	10	0.75	SVP20-4	20	30	3	42841	DNOXB-30-20-10-I
15	ZJ(D/Q/S/W)XG-30-20-20-I	30	20	20	5.2	SVP-807	10	20	1.1	SVP20-4	20	30	3	42846	DNOXB-30-20-20-I
16	ZJ(D/Q/S/W)XG-30-20-30-I	30	20	30	6	SVP-810	10	30	1.5	SVP20-4	20	30	3	42866	DNOXB-30-20-30-I
17	ZJ(D/Q/S/W)XG-30-20-40-I	30	20	40	6.6	SVP-812	10	40	1.8	SVP20-4	20	30	3	42887	DNOXB-30-20-40-I
18	ZJ(D/Q/S/W)XG-30-20-50-I	30	20	50	7.4	SVP-815	10	50	2.2	SVP20-4	20	30	3	42892	DNOXB-30-20-50-I
19	ZJ(D/Q/S/W)XG-30-20-60-I	30	20	60	9	SVP-818	10	60	3	SVP20-4	20	30	3	42948	DNOXB-30-20-60-I
20	ZJ(D/Q/S/W)XG-30-20-70-I	30	20	70	10.4	SVP17-6	10	70	3.7	SVP20-4	20	30	3	42968	DNOXB-30-20-70-I
21	ZJ(D/Q/S/W)XG-30-20-80-I	30	20	80	14	SVP17-7	10	80	5.5	SVP20-4	20	30	3	43013	DNOXB-30-20-80-I
22	ZJ(D/Q/S/W)XG-30-20-90-I	30	20	90	14	SVP17-8	10	90	5.5	SVP20-4	20	30	3	43024	DNOXB-30-20-90-I
23	ZJ(D/Q/S/W)XG-30-20-100-I	30	20	100	14	SVP17-9	10	100	5.5	SVP20-4	20	30	3	43029	DNOXB-30-20-100-I
24	ZJ(D/Q/S/W)XG-30-20-110-I	30	20	110	18	SVP17-13	10	110	7.5	SVP20-4	20	30	3	43079	DNOXB-30-20-110-I
25	ZJ(D/Q/S/W)XG-30-20-120-I	30	20	120	18	SVP17-13	10	120	7.5	SVP20-4	20	30	3	43079	DNOXB-30-20-120-I
26	ZJ(D/Q/S/W)XG-30-20-130-I	30	20	130	18	SVP17-13	10	130	7.5	SVP20-4	20	30	3	43079	DNOXB-30-20-130-I

序号	设备型号	有效容积 m ³	设备流量 (m ³ /h)	设备扬程 m	设备总功率 kW	水泵A (两用一备)			水泵B (一用一备)			运行质量 kg	苏S08-2015 图集对应型号		
						型号	单泵流量 (m ³ /h)	单泵扬程 m	单泵功率 kW	型号	单泵流量 (m ³ /h)			单泵扬程 m	单泵功率 kW
27	ZJ(D/Q/S/W)XG-45-30-10-I	45	30	10	6.7	SVP-1405	15	10	1.5	SVP40-3	30	30	3	62899	DNOXB-45-30-10-I
28	ZJ(D/Q/S/W)XG-45-30-20-I	45	30	20	9.7	SVP17-4	15	20	3	SVP40-3	30	30	3	62995	DNOXB-45-30-20-I
29	ZJ(D/Q/S/W)XG-45-30-30-I	45	30	30	9.7	SVP17-4	15	30	3	SVP40-3	30	30	3	62995	DNOXB-45-30-30-I
30	ZJ(D/Q/S/W)XG-45-30-40-I	45	30	40	9.7	SVP17-5	15	40	3	SVP40-3	30	30	3	63006	DNOXB-45-30-40-I
31	ZJ(D/Q/S/W)XG-45-30-50-I	45	30	50	11.1	SVP17-6	15	50	3.7	SVP40-3	30	30	3	63011	DNOXB-45-30-50-I
32	ZJ(D/Q/S/W)XG-45-30-60-I	45	30	60	14.7	SVP17-7	15	60	5.5	SVP40-3	30	30	3	63057	DNOXB-45-30-60-I
33	ZJ(D/Q/S/W)XG-45-30-70-I	45	30	70	14.7	SVP17-8	15	70	5.5	SVP40-3	30	30	3	63067	DNOXB-45-30-70-I
34	ZJ(D/Q/S/W)XG-45-30-80-I	45	30	80	14.7	SVP17-10	15	80	5.5	SVP40-3	30	30	3	63071	DNOXB-45-30-80-I
35	ZJ(D/Q/S/W)XG-45-30-90-I	45	30	90	18.7	SVP17-13	15	90	7.5	SVP40-3	30	30	3	63122	DNOXB-45-30-90-I
36	ZJ(D/Q/S/W)XG-45-30-100-I	45	30	100	18.7	SVP17-14	15	100	7.5	SVP40-3	30	30	3	63127	DNOXB-45-30-100-I
37	ZJ(D/Q/S/W)XG-45-30-110-I	45	30	110	18.7	SVP17-14	15	110	7.5	SVP40-3	30	30	3	63127	DNOXB-45-30-110-I
38	ZJ(D/Q/S/W)XG-45-30-120-I	45	30	120	22.1	SVP17-15	15	120	9.2	SVP40-3	30	30	3	63259	DNOXB-45-30-120-I
39	ZJ(D/Q/S/W)XG-45-30-130-I	45	30	130	22.1	SVP17-15	15	130	9.2	SVP40-3	30	30	3	63259	DNOXB-45-30-130-I

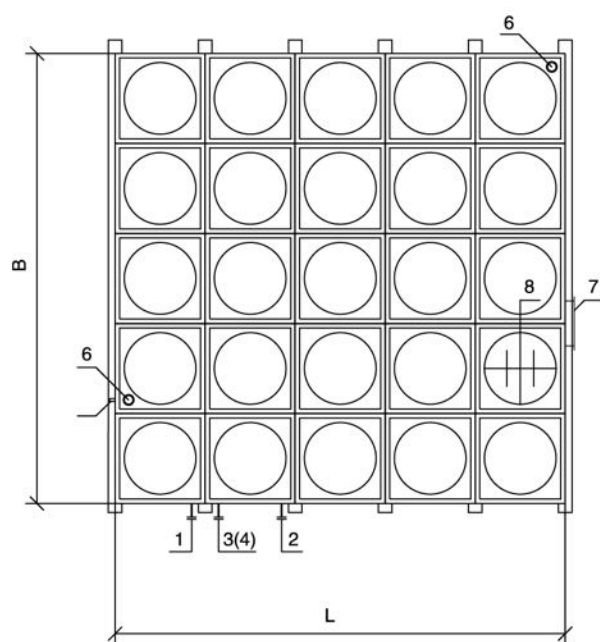
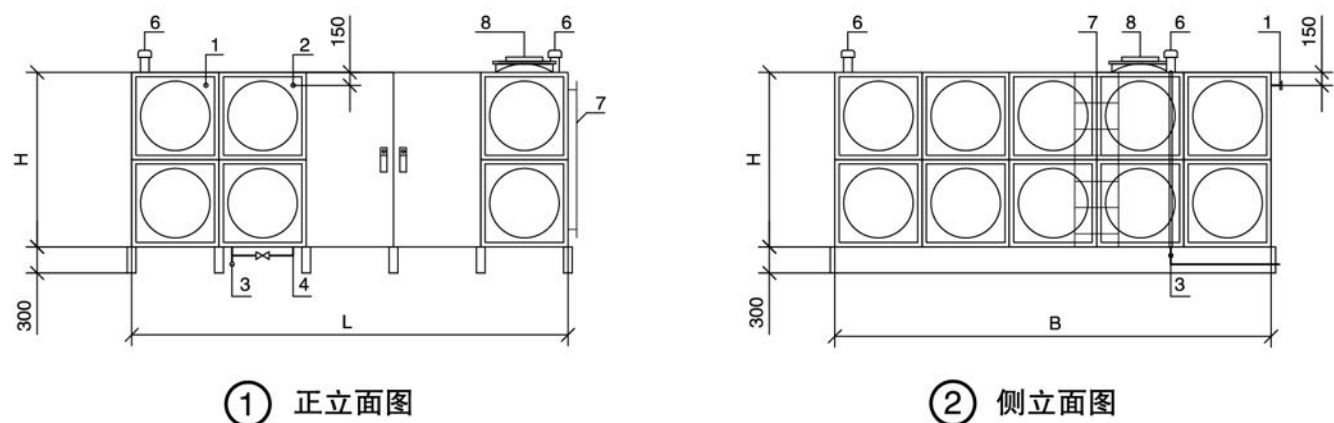
图集名称:《箱泵一体化泵站设计图集》苏S08-2015

TANK TYPE DOUBLE MODE WATER SUPPLY EQUIPMENT

ZJXG SERIES / 智能静音箱式双模供水设备 ZJXG系列

EQUIPMENT SIZE CHART 设备尺寸图

ZJ(D/Q/S/W)XG 设备尺寸图



设备主要部件表

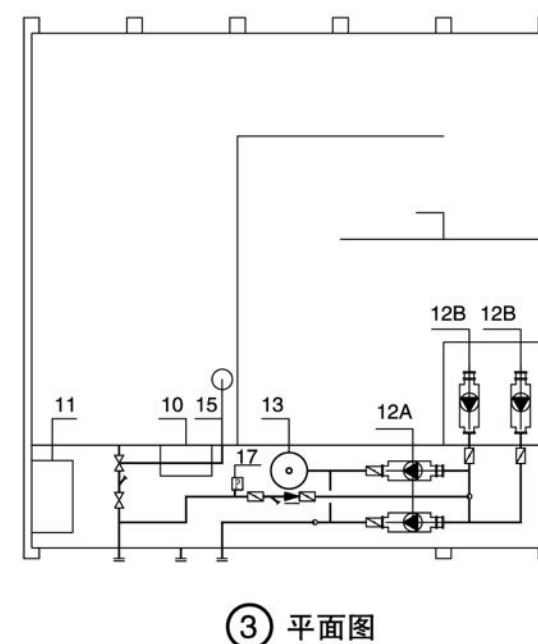
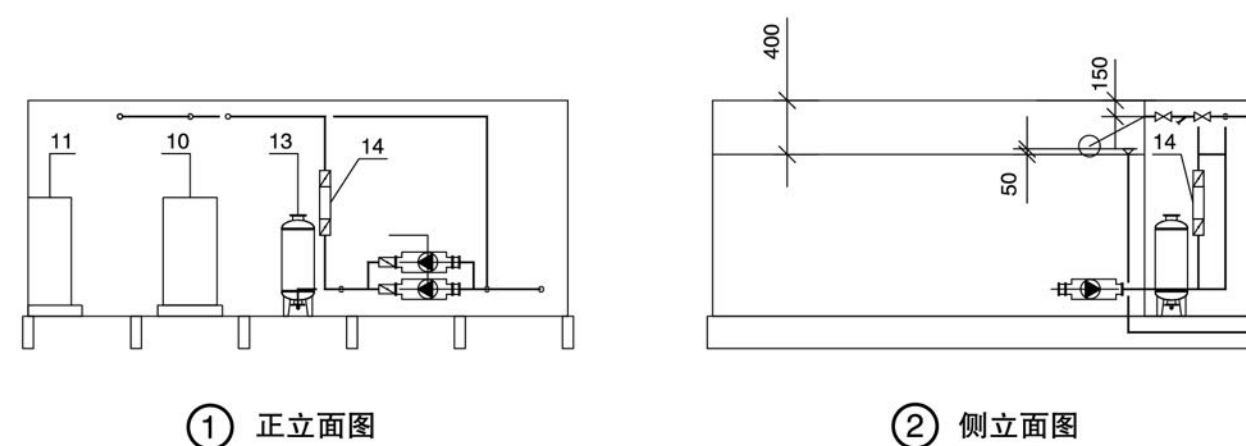
序号	名称
1	进水管
2	出水管
3	溢流管
4	放空管
5	遥控浮球阀
6	透气帽
7	不锈钢爬梯
8	检修孔
9	液位计

TANK TYPE DOUBLE MODE WATER SUPPLY EQUIPMENT

ZJXG SERIES / 智能静音箱式双模供水设备 ZJXG系列

INSTALLATION INSTRUCTION 安装示意图

ZJ(D/Q/S/W)XG 安装示意图



设备主要部件表

序号	名称
10	消毒装置
11	控制柜
12	泵和泵室
13	气压罐
14	紫外线消毒器
15	浮球阀控制管
16	导流墙
17	压力传感器

ZJXG

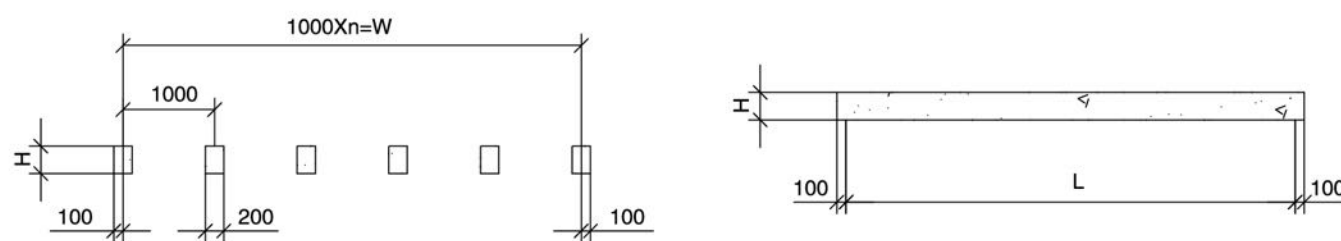
Service

TANK TYPE DOUBLE MODE WATER SUPPLY EQUIPMENT

ZJXG SERIES / 智能静音箱式双模供水设备 ZJXG系列

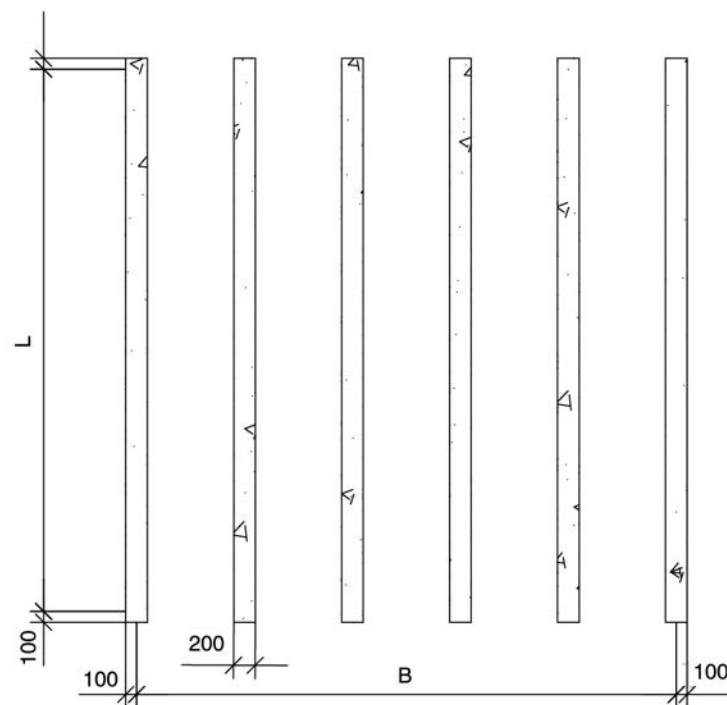
INSTALLED BASE 安装基础示意图

ZJ(D/Q/S/W)XG 安装基础示意图



① 正立面图

② 侧立面图



③ 平面图

注:

- 1、水箱基础由C20素混凝土砌筑，基础表面用M10水泥砂浆找平；
- 2、水箱基础宜设在水箱的短边方向，如设在楼层楼板，需征得相关设计专业的认可；
- 3、水箱与基础之间设置5mm厚橡胶垫板防腐蚀；
- 4、水箱尺寸的模数是1000mm。

TANK TYPE DOUBLE MODE WATER SUPPLY EQUIPMENT

ZJXG SERIES / 智能静音箱式双模供水设备 ZJXG系列

BASIC PARAMETERS 基本参数

ZJ(D/Q/S/W)XG SERIES (二用一备)

序号	设备型号	设备尺寸			进水管管径 mm	溢流管管径 mm	放空管管径 mm	管中泵		气压罐		苏S08-2015 图集对应型号
		L	B	H				进水管管径 mm	出水管管径 mm	容积L	压力Mpa	
01	ZJ(D/Q/S/W)XG-15-10-10-I	4000	3000	2000	50	75	50	50	50	18	1.0	DNQXB-15-10-10-I
02	ZJ(D/Q/S/W)XG-15-10-20-I	4000	3000	2000	50	75	50	50	50	18	1.0	DNQXB-15-10-20-I
03	ZJ(D/Q/S/W)XG-15-10-30-I	4000	3000	2000	50	75	50	50	50	18	1.0	DNQXB-15-10-30-I
04	ZJ(D/Q/S/W)XG-15-10-40-I	4000	3000	2000	50	75	50	50	50	18	1.0	DNQXB-15-10-40-I
05	ZJ(D/Q/S/W)XG-15-10-50-I	4000	3000	2000	50	75	50	50	50	18	1.0	DNQXB-15-10-50-I
06	ZJ(D/Q/S/W)XG-15-10-60-I	4000	3000	2000	50	75	50	50	50	18	1.0	DNQXB-15-10-60-I
07	ZJ(D/Q/S/W)XG-15-10-70-I	4000	3000	2000	50	75	50	50	50	18	1.0	DNQXB-15-10-70-I
08	ZJ(D/Q/S/W)XG-15-10-80-I	4000	3000	2000	50	75	50	50	50	18	1.6	DNQXB-15-10-80-I
09	ZJ(D/Q/S/W)XG-15-10-90-I	4000	3000	2000	50	75	50	50	50	18	1.6	DNQXB-15-10-90-I
10	ZJ(D/Q/S/W)XG-15-10-100-I	4000	3000	2000	50	75	50	50	50	18	1.6	DNQXB-15-10-100-I
11	ZJ(D/Q/S/W)XG-15-10-110-I	4000	3000	2000	50	75	50	50	50	18	1.6	DNQXB-15-10-110-I
12	ZJ(D/Q/S/W)XG-15-10-120-I	4000	3000	2000	50	75	50	50	50	18	2.0	DNQXB-15-10-120-I
13	ZJ(D/Q/S/W)XG-15-10-130-I	4000	3000	2000	50	75	50	50	50	18	2.0	DNQXB-15-10-130-I

序号	设备型号	设备尺寸			进水管管径 mm	溢流管管径 mm	放空管管径 mm	管中泵		气压罐		苏S08-2015 图集对应型号
		L	B	H				进水管管径 mm	出水管管径 mm	容积L	压力Mpa	
14	ZJ(D/Q/S/W)XG-30-20-10-I	5000	5000	2000	80	100	80	50	50	18	1.0	DNQXB-30-20-10-I
15	ZJ(D/Q/S/W)XG-30-20-20-I	5000	5000	2000	80	100	80	50	50	18	1.0	DNQXB-30-20-20-I
16	ZJ(D/Q/S/W)XG-30-20-30-I	5000	5000	2000	80	100	80	50	50	18	1.0	DNQXB-30-20-30-I
17	ZJ(D/Q/S/W)XG-30-20-40-I	5000	5000	2000	80	100	80	50	50	18	1.0	DNQXB-30-20-40-I
18	ZJ(D/Q/S/W)XG-30-20-50-I	5000	5000	2000	80	100	80	50	50	18	1.0	DNQXB-30-20-50-I
19	ZJ(D/Q/S/W)XG-30-20-60-I	5000	5000	2000	80	100	80	50	50	18	1.0	DNQXB-30-20-60-I
20	ZJ(D/Q/S/W)XG-30-20-70-I	5000	5000	2000	80	100	80	50	50	18	1.0	DNQXB-30-20-70-I
21	ZJ(D/Q/S/W)XG-30-20-80-I	5000	5000	2000	80	100	80	50	50	18	1.6	DNQXB-30-20-80-I
22	ZJ(D/Q/S/W)XG-30-20-90-I	5000	5000	2000	80	100	80	50	50	18	1.6	DNQXB-30-20-90-I
23	ZJ(D/Q/S/W)XG-30-20-100-I	5000	5000	2000	80	100	80	50	50	18	1.6	DNQXB-30-20-100-I
24	ZJ(D/Q/S/W)XG-30-20-110-I	5000	5000	2000	80	100	80	50	50	18	1.6	DNQXB-30-20-110-I
25	ZJ(D/Q/S/W)XG-30-20-120-I	5000	5000	2000	80	100	80	50	50	18	2.0	DNQXB-30-20-120-I
26	ZJ(D/Q/S/W)XG-30-20-130-I	5000	5000	2000	80	100	80	50	50	18	2.0	DNQXB-30-20-130-I

序号	设备型号	设备尺寸			进水管管径 mm	溢流管管径 mm	放空管管径 mm	管中泵		气压罐		苏S08-2015 图集对应型号
		L	B	H				进水管管径 mm	出水管管径 mm	容积L	压力Mpa	
27	ZJ(D/Q/S/W)XG-45-30-10-I	6000	5000	2000	80	100	80	50	50	18	1.0	DNQXB-45-30-10-I
28	ZJ(D/Q/S/W)XG-45-30-20-I	6000	5000	2000	80	100	80	50	50	18	1.0	DNQXB-45-30-20-I
29	ZJ(D/Q/S/W)XG-45-30-30-I	6000	5000	2000	80	100	80	50	50	18	1.0	DNQXB-45-30-30-I
30	ZJ(D/Q/S/W)XG-45-30-40-I	6000	5000	2000	80	100	80	50	50	18	1.0	DNQXB-45-30-40-I
31	ZJ(D/Q/S/W)XG-45-30-50-I	6000	5000	2000	80	100	80	50	50	18	1.0	DNQXB-45-30-50-I
32	ZJ(D/Q/S/W)XG-45-30-60-I	6000	5000	2000	80	100	80	50	50	18	1.0	DNQXB-45-30-60-I
33	ZJ(D/Q/S/W)XG-45-30-70-I	6000	5000	2000	80	100	80	50	50	18	1.0	DNQXB-45-30-70-I
34	ZJ(D/Q/S/W)XG-45-30-80-I	6000	5000	2000	80	100	80	50	50	18	1.6	DNQXB-45-30-80-I
35	ZJ(D/Q/S/W)XG-45-30-90-I	6000	5000	2000	80	100	80	50	50	18	1.6	DNQXB-45-30-90-I
36	ZJ(D/Q/S/W)XG-45-30-100-I	6000	5000	2000	80	100	80	50	50	18	1.6	DNQXB-45-30-100-I
37	ZJ(D/Q/S/W)XG-45-30-110-I	6000	5000	2000	80	100	80	50	50	18	1.6	DNQXB-45-30-110-I
38	ZJ(D/Q/S/W)XG-45-30-120-I	6000	5000	2000	80	100	80	50	50	18	2.0	DNQXB-45-30-120-I
39	ZJ(D/Q/S/W)XG-45-30-130-I	6000	5000	2000	80	100	80	50	50	18	2.0	DNQXB-45-30-130-I

图集名称:《箱泵一体化泵站设计图集》苏S08-2015

TANK TYPE DOUBLE MODE WATER SUPPLY EQUIPMENT

ZJXG SERIES / 智能静音箱式双模供水设备
ZJXG系列

Ordering Notice 订货须知:

- Based on the manual we provided, customers can select model as required. The product is supplied in set.
- We can design and supply product according to customer's requirements. The customer just needs to fill the engineering parameters and configuration requirements according to the engineering parameters table in the manual. Our technology department will provide program and offer based on the table.

● Recommended Pump: U-flo SVP safe-noise pump.

● General supply range of complete equipment:

Pipeline components: (from the inlet flange of the steady flow tank to the flanges at the both sides of outlet) The user just connect the inlet flange of the steady flow tank and the flange at the both sides of the outlet pipe of the pump. But the water inlet valve and expansion pipe filters must be installed at the inlet part while the outlet valve must be installed at the outlet part. Our equipment can not be used as the supporting point (make the pipeline support brackets separately).

The main power line: (the route map marked on the door shell of the control box) the user shall connect the main power line to the inlet terminal in the control box.

Power lines and signal lines: Our equipment and control box are connected type (both the power lines and signal lines have been connected). The user can set the wiring way while purchased. The threading pipe or cable bridge can be pre-arranged according to the drawing.

Pump house: The user must provide bright and spacious equipment placement, ensure enough space for equipment and certain maintenance distance. There must be the appropriate lighting and power outlet, drainage to the outside, or sump with sewage pumps. If the humidity of pump house is too big, the dehumidifier shall be provided.

Special Instructions: If the user needs to buy special items, such as expansion pipe filters, backflow prevention device, outlet main valve with flange, electromagnetic flow meter, water disinfectant, dehumidifiers etc, please show the details when ordering.

- 用户可根据我公司提供的样本，自行选择设备型号，本产品成套供应。
- 本公司可根据客户的要求进行设计和供货，用户只须按照客户工程参数表的要求详细填写工程参数和配置要求，本公司技术部根据此表为客户提供方案和报价。
- 本公司推荐水泵：U-flo SVP 系列静音潜水泵
- 成套设备常规供货范围：

管道件：(稳流调节罐上的进水口法兰至出水总管两侧法兰内为我公司成套供应范围)；用户只须连接稳流调节罐上的进水口法兰及水泵出水总管两侧法兰即可，但进水部分必须安装进水阀门及伸缩管道过滤器，出水部分必须安装出水阀门，并且不能以我公司设备作为支撑点（单独制作管道支撑托架）

主电源线：(我公司控制柜门壳上标有线路图)。由用户将主电源线联接至控制柜内进线端子上即可

动力线及信号线：我公司的设备与控制柜是连体型（动力线及信号线均以连接完好）。如用户代购，布线方式由用户自定义，可以按图预先预埋地下穿线管或布置电缆桥架。

泵房：用户必须提供宽敞明亮的设备安置点，有足够的地方安置设备和保证有一定的维修间距，泵房内应有相应的照明和电源插座，必须有向室外排水的排水点，或集水坑及排污泵，如泵房湿度太大必须购置除湿机。

特殊说明：用户如需选购特殊件：伸缩管道过滤器、倒流防止器、进出水总阀带法兰、电磁流量计、水质消毒器、除湿机等，请在订货时详细说明。

TANK TYPE DOUBLE MODE WATER SUPPLY EQUIPMENT

ZJXG SERIES / 智能静音箱式双模供水设备
ZJXG系列

Service commitment 服务承诺:

● Pre-sales service:

Free design before signing the contract, choose reasonable, reliable and economical water solution.

● Sales service:

After the signing of the contract, provide the foundation drawings, the installation drawings, control wiring diagram etc.

● After-sales service:

1. After the product acceptance and delivery, provide operator free training which includes equipment functions, operating methods, attentions, routine maintenance, emergency treatment, etc.

2. The guarantee period is one years (from the date of the Contract comes into force). We will repair or replace freely for quality problem under normal use within one years. After Warranty expires, we only charge the cost of maintenance.

3. The customers' 100% satisfaction is the starting point of our work. There are special technical workers for after-sales service to fulfilling our promise. Since the equipment delivery date, we will appoint responsible person for equipment inspection and maintenance. Provide free equipment inspection per quarter permanently. The lifetime service ensures the equipment 100% reliable operation.

Nanjing U-flo pumps Co., Ltd.

● 售前服务:

合同签订前帮助用户免费设计，选择合理、可靠、节俭的工程供水方案。

● 售中服务:

合同签订后，提供设备基础图，安装图，控制接线图等。

● 售后服务:

1. 产品验收交付后，免费对用户的操作人员进行系统培训。培训的内容包括：设备的功能、设备的操作、注意事项、日常维护保养及故障紧急处理等。

2. 设备的保修期为一年(自合同生效日起)，一年内若正常使用出现质量问题所造成的一切故障，我公司无偿修复更换。保修期满后的维修只收取成本费用。

3. 用户 100% 满意是我们工作的起点。售后服务专人负责，以实现我们的承诺：自设备交付使用日起，我公司专人负责设备的巡检、保养，将永久性对设备每季度一次免费巡检，终生服务，确保用户设备运行 100% 可靠。

南京尤孚泵业有限公司

ZJXG

Service

