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KSB Hyamat CN with housing **KSB 一体化智慧泵房**



上海凯士比泵有限公司
上海闵行江川路 1400 号
www.ksb.com.cn
KSB 24 小时服务热线: 400-021-8000

KSB 智慧泵房

With the acceleration of urbanization in China, the scope of urban water supply is expanding, and the requirements of water quality, quantity and pressure are increasing. The renovation of old water supply pump house has become a serious challenge for local governments and water companies in recent years. Based on years of experience in water supply system optimization, KSB has developed an integrated intelligent pump house in combination with the characteristics of regional market in China and the actual engineering application needs, which meets the construction and renovation needs of various water supply pump stations.

随着中国城市化建设进程的加快，城市供水范围不断扩大，居民对水质、水量、水压要求日益提高，老旧供水泵房的改造已经成为各地政府和自来水公司近年来面临的严峻挑战。KSB 基于多年的供水系统优化经验，结合中国地区市场特点和实际工程应用需求，研发出一体化智慧泵房，满足各种供水泵建设与改造需求。

KSB integrated intelligent pump house has comprehensive functions and high integration, which integrates pressure, water quality monitoring, security alarm, disinfection and other functions in one. The pump house meets the requirements of low noise, constant temperature, earthquake resistance, wind resistance and corrosion resistance. It can achieve remote management and can be unattended. Compared with the traditional pump house, the construction period is greatly shortened, and the old system can be transformed without interruption of water. With its beautiful appearance, small size, fast installation, convenient use and maintenance, the intelligent pump house can be flexibly configured in various scenarios, which is not only suitable for new pump houses, but also for the renovation of old pump houses and emergency water supply projects.

KSB 一体化智慧泵房功能全面、集成度高，集加压、水质监测、安防报警、消毒等功能于一体。泵房满足低噪、恒温、抗震、防风、耐腐蚀要求，可实现远程管理、无人值守。施工周期较传统泵房大大缩短，并可实现老旧系统改造不停水。泵房外形美观、体积小巧、安装快速、使用维护便捷，可将智慧泵房灵活配置于各种场景，不仅适用于新建泵房，亦可用于老旧泵房改造及应急供水项目。

Applications 应用：



Water supply pressurization is used in residential buildings, hospitals, office buildings, hotels, industrial plants, etc.
应用于居民住宅、医院、办公楼、酒店、工业厂房等供水增压

- ◇ The reconstruction of the old secondary water supply system in the residential area, the construction of the secondary water supply pump house and the pressurization of the urban area
- ◇ Public places: hospitals, schools, gymnasiums, airports, etc
- ◇ Commercial buildings: hotels, office buildings, shopping centers, etc
- ◇ Industry: water supply for plants or industrial processes
- ◇ Emergency water supply and rural drinking water renovation
- ◇ 居民小区老旧二供水系统改造、新建二供水泵房、城镇区域增压
- ◇ 公共场所：医院、学校、体育馆、机场等
- ◇ 商业楼宇：酒店、写字楼、购物中心等
- ◇ 工业：厂房或工业流程供水
- ◇ 应急供水、农村饮用水改造

Highly integrated 高度集成

Water supply, water quality monitoring drainage, security, monitoring and cloud system, noise reduction, pest prevention, power supply guarantee system integration, portable installation, stable and fast.

供水、水质监测、排水、安防、监控和云系统、降噪、防虫、供电保障系统集成一体，便携式安装，稳定快捷。

Customization 客户定制

Can be customized according to customers' personalized requirements, factory integration and integrated delivery in line with the actual operating conditions.

可按客户个性化要求定制，工厂集成，一体式交付符合实际运行工况。

Safety and stability 安全稳定

The units and other configurations are KSB products, designed and manufactured in strict accordance with national standards. The system is stable and reliable, and the products meet the national standard of food grade drinking water sanitation and safety.

机组等配置均为 KSB 产品，严格按国标设计制造。系统稳定可靠，产品均符合食品级国家饮用水卫生安全标准。

Ki-Cloud 凯泵智联云平台

KSB's intelligent operation cloud platform only provides operation and maintenance services, fault alarm analysis, pump house data calculation and other functions to help customers achieve remote monitoring and unattended pump house.

KSB 云泵智联云平台实现只会运维服务，故障报警分析，泵房数据计算等功能帮助客户实现泵房远程监控和无人值守。

Low noise operation 运行低噪

The noise level of the water supply unit is lower than the requirement for water supply equipment. The interior of KSB intelligent pump house is made of sound absorbing and flame retardant environmental protection materials. The whole equipment meets the class I acoustic environment specified in gb3096-2008 Environmental quality standard for noise.

供水机组噪音低于给水设备要求。KSB 智慧泵房内部采用吸音阻燃环保材料。设备整体满足 GB3096-2008《声环境质量标准》中 I 类声环境（需测试）。

conserve energy & reduce emissions 低碳减排

The multi-stage centrifugal pump water supply unit equipped with KSB intelligent pump house has obtained China energy-saving product certification.

The wall, floor and top of KSB intelligent pump house are all made of thermal insulation and flame retardant materials, which can effectively reduce power cooling and heating requirements, thus reducing carbon emissions and power loss.

KSB 智慧泵房配备的多级离心泵供水机组获得中国节能产品认证证书。KSB 智慧泵房的墙体、底板、顶部都采用了保温阻燃材料，可以有效减少动力制冷和制热需求，从而减少碳排放和动力损耗。



constant VFD Booster Set 变频恒压供水模式

It is suitable for the area where the pressure and flow of municipal pipe network are insufficient and where the non-negative pressure water supply system cannot be used. It needs a front regulating and storage tank or pool, equipped with high pressure water pump, compact structure, strong expansion, professional control and easy maintenance.

适用于市政管网压力、流量不足、不能使用无负压供水系统的地区，需要前置调蓄水箱或水池，配备高压水泵、结构紧凑、拓展性强、专业控制、维护方便。



Non-negative pressure VFD Booster Set 无负压供水模式

Applicable to the local municipal pipe network flow and pressure is sufficient and stable, allowing the use of non-negative pressure water supply system. The non-negative pressure water supply can effectively utilize the upstream pipe network pressure and reduce the operating cost of the pump station.

适用于当地市政管网流量和压力充足且稳定，允许采用无负压供水系统的地区。采用无负压供水，可有效利用上游管网压力，降低泵站运行成本。

无负压供水模式		变频恒压供水模式	
箱体尺寸 (m)	流量范围 (m³/h)	箱体尺寸 (m)	流量范围 (m³/h)
3.5x2.5x2.5	0~20	3.5x3x2.5	0~40
4x3.5x2.8	20~40	4x3x2.5	40~64
4.5x3.5x2.8	40~64	4.5x3x2.5	64~100
5x3.5x2.8	64~100	5x3x2.5	100~200
5.5x3.5x2.8	100~150	5.5x3x2.5	200~300
6x3.5x2.8	150~200	6x3x2.5	300~400
7x3.5x3	200~300	7x3x2.5	400~500

* 此表格尺寸仅供选型参考使用。具体尺寸以下单后工厂提供的加工图为准。

EFFICIENCY, ENVIRONMENTAL PROTECTION AND STABILITY

节能环保智能



KSB Cloud Platform 凯士比云泵智联

KSB Cloud Platform can help customers achieve remote monitoring and unattended pump station, reduce operating costs, improve the working environment, and fully control the system to ensure reliable operation. 凯士比云泵智联可以帮助客户实现泵站的远程监控和无人值守，降低运行成本改善工作环境，全面掌控系统确保运行可靠。



INDEPENDENT CORE TECHNOLOGY TO ENSURE SAFE, EFFICIENT AND STABLE OPERATION OF PUMP HOUSE

KSB 自主核心技术确保泵房安全高效稳定运行

Safe, stable and efficient variable frequency water supply unit

安全、稳定、节能变频供水机组

KSB variable frequency water supply unit adopts self-developed control program and high quality imported vertical multistage centrifugal pump to ensure the safe and stable operation of the system. Multiple pumps are standby for each other and automatically switch over without being affected by faults. At the same time, the speed of each pump is controlled by one-to-one frequency conversion to ensure the balance of the system and reduce noise and energy consumption.

KSB 变频供水机组采用自主研发的控制程序和高品质立式多级离心泵确保系统运行安全稳定。多台水泵互为备用，不受故障影响，自动切换。同时通过一对一变频控制每台泵的转速，保证系统平衡，降低噪音及能耗。



Comprehensive function 功能齐全

KSB intelligent pump house integrates water supply unit, disinfection equipment, control system, security system and flowmeter on-line water quality monitoring into the portable box, with comprehensive functions and reliable and stable operation.

KSB 智慧泵房将供水机组、消毒设备、控制系统、安防系统、流量计水质在线监测集成于便携式箱体中、功能全面，运行可靠稳定。



◇智能安防



◇流量计量



◇水质在线监测



◇紫外消毒



◇门禁一体机



◇红外探测器



◇温度湿度计



◇水浸报警器



◇烟感报警器

The box with industrial design is safe and durable

采用工业设计的箱体安全耐用

Customized according to customers' individual requirements, factory integration and integrated delivery are more in line with the actual working conditions and operational needs.

按客户要求定制、工厂集成、一体式交付更符合实际运行工况。



Corrosion resistance 耐腐蚀

The surface of the box can be treated with stainless steel wire drawing or spray painting. The quality of the box has passed the third party neutral salt spray test, and the appearance rating RA has reached grade 9 or above. 箱体外表面可采用不锈钢拉丝或喷漆等表面处理，质量通过第三方中性盐雾检测，外观评级 RA 达到 9 级以上。



lightning protection 防雷

The control system and box have been equipped with necessary lightning protection grounding measures, In addition, a lightning protection plan can be provided for each project to prevent personal injury and property loss caused by lightning.

控制系统和箱体都已配置必要的防雷接地措施，并可根据每个项目配合客户提供必要的防雷方案，避免雷电来的人员伤害和财产损失。



Constant temperature and humidity 恒温恒湿

The wall and top of the box are made of heat insulation and flame retardant materials to ensure that the external environment temperature is not transmitted to the station, The built-in air conditioning and ventilation system automatically starts and stops according to the indoor temperature to ensure that the indoor temperature meets the requirements of equipment operation. The dehumidification system can be configured to ensure constant indoor humidity.

箱体的墙体和顶部采用保温阻燃材料，保证外部环境温度不传导到站内，并内置空调和通风系统，根据室内温度自动启停，保证室内温度满足设备运行要求。可配置除湿系统，保证室内湿度恒定。



Earthquake resistance and wind resistance 抗震抗风

After strict simulation and calculation of the pump house structure, the design of the whole pump house seismic intensity is greater than or equal to 7, the wind resistance level is not less than 12. All structural load-bearing points have been tested one by one to ensure the safety and stability of the product.

泵房结构经过严格的模拟和计算，使整个泵房的设计抗震烈度大于等于 7 级，抗风等级不小于 12 级。所有结构承重点都一一经过检测，确保产品的安全性和稳定性。



fire prevention 防火

The outer wall of the box is designed in accordance with the fire protection requirements of class C buildings, which can meet the fire integrity requirements of not less than 1 hour to ensure that the environmental safety around the pump house will not be affected even in the unexpected fire conditions.

箱体外墙按照 C 类建筑的防火要求设计，可满足不小于 1 小时的耐火完整性要求，确保即使在火灾的意外工况下，也不会影响泵房周围的环境安全。

生产过程严格把控 全程技术支持

严格遵循质量管理体系 ISO9001 ISO14001 OHSAS18001
从供应商制造全程端对端严格质量管控
经过多项严苛检测

技术沟通

基础浇筑

防雷
接地敷设

泵房安装

管路联接

单个
设备调试

设备联调

平台对接

盐雾测试

打压测试

无损测试

喷淋测试