

智能高效 节能环保

Intelligent & Environment Friendly



东莞市场盛欣智能设备有限公司
Aqscience Intelligent Technology Co., Ltd.

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Dealer:

BLUE-ECO®
宝卢艾科

智能亲水生活
Intelligent Water Life



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公司简介COMPANY PROFILE

东莞市场盛欣智能设备有限公司，研发制造出全球唯一真正免维护的智能过滤系统，拥有多项国家发明专利。革命性的将传统的拦截沉降过滤方式改为实时排污过滤，避免水体遭到持续污染，具有高效、智能、静音、超低能耗、免维护、耐腐蚀等特点。整套系统由智能水泵，鼓滤器和生物过滤器三个单元构成，能即时自动排出水中超过 10 微米的固体杂质，避免固体污染物在水中分解，建立和维护良好的生化循环系统，长期保持水质优良。

公司专业开发、设计、生产目前最高效节能的稀土永磁同步电机驱动潜水泵，电机 / 水泵一体化设计，配合本公司拥有多项专利的高效叶轮抽水系统，可调速可编程智能化控制器，开发了从 10W~2200W 全系列专业水族用水泵产品线，专业服务于泳池，大型水族馆，淡水 / 海水池，高档锦鲤养殖系统及高端园艺业。

自 2007 年面世以来宝卢艾科品牌迅速成为该行业的欧洲第一品牌并在全球引领技术领先。

Aquscience designs and produces the only system which fully automatic working without maintains, owns a lot of patents of intelligent filtration system. It revolutionary changed the traditional way of intercepting filter into real-time sewage filtering, avoiding continuous water pollutions. It has many fantastic features like high efficiency, super intelligent, quiet, ultra-low energy consumption, no human daily maintains requires and corrosion-resistance. The whole system consists with BLUE-ECO intelligent Pump, Drum Filter, and Bubble Bead Filter. It can remove all solid wastes bigger than 10micron and reduce the resolved ammonia, NO₂⁻, NO₃⁻, etc., to establish and keep a good bio-cycling system.

The company specializes in designing, production the most efficient and energy-saving Rare Earth Permanent Magnet Synchronous Motor(PMSM) drive pump and the integrated design of motor/pump. Using many our owned patents of high efficient impeller pumping system, work with adjustable speed and programmable intelligent controller, Aquscience developed full series of professional water pump production lines from 10w~2200w, professionally serve for swimming pool, the large-scale aquarium , fresh /marine water, high-end Koi pond, and horticulture.

Since 2007 BLUE-ECO has been the Number One European brand and led the leading technology all over the world.



实力 让我们引领行业
Use of the creative thinking and advanced technology,
innovation, and improve service levels



埃格伯·希丁克博士
宝卢艾科联合创始人
资深水处理专家
Dr. Bert Schuldink
BLUE-ECO Joint-Founder
Expert Of Air/ Water Treatment

我们的足迹/OUR FOOT PRINT

2006 年	扬盛欣创立，同荷兰资深水处理专家埃格伯·希丁克博士合作研发智能水泵	2006	Aquscience born and started with the expert of Water Treatment, Dr. Bert Schuldink for intelligent pumps.
2008 年	中孚亚洲有限公司在香港设立，开始全球推广 获得智能水泵发明专利	2008	Aquscience Asia Co., Limited established in Hong Kong for global expanding. Got patent of Intelligent PMSM Motor Driving Submersible Pump
2009 年	获得蛋白质分离器的发明专利	2009	Got patent of Protein Skimmer
2010 年	宝卢艾科 水泵取得 CE 认证 宝卢艾科 水泵取得德国 TUV 认证	2010	BLUE-ECO pump got CE certification BLUE-ECO pumps got TUV certification
2013 年	获得生化过滤器的专利 / 获得鼓滤器的发明专利 / 获得节能离心泵的专利	2013	Got patent of Bubble Bead Filter / Got patent of Drum Filter / Got patent of Energy Saving Centrifugal Pump
2014 年	第三代 宝卢艾科 智能水泵全新上市， 全新智能过滤系统国内发售	2014	The 3rd generation BLUE-ECO intelligent pump revealed, together with the new filtration system to Chinese market
2015 年	获得液体流向自动控制阀专利 荣获 2015 智能过滤领导者奖 宝卢艾科 第四代智能水泵发布	2015	Got patent of Flow-Liquid automatic control valve Awarded the 2015 prize: Leader of Intelligent Filtration Business The latest 4 th General BLUE-ECO Intelligent Pump unveiled
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过滤发展历程

1.0 时代：天然过滤

通过粘土，砂砾，卵石，水生植物层等等，过滤水中颗粒，使固体颗粒物容留在滤层中，纯天然，但见效慢，过滤能力较弱，时间长，或通过大量换水保持水质，水资源浪费大。

2.0 时代：无动力时代

人工毛刷，滤棉，蚝壳，细菌屋等通过多层次过滤，分级处理，通常包括沉淀池，毛刷池，生化池等等，能有效去除大多数固体颗粒（通常粒径大于100微米），但固体颗粒物仍容留在过滤器材中并长期分解，实际上是物理过滤和生化过滤同时进行，效率低，人工维护要求高，占地面积大，易孳生蚊蝇。

2.5 时代：过滤桶，人工生态滤床，旋转筛滤

2.5 的产品已经考虑了集成化和土地节约的问题，往往是将2.0时代产品进行优化设计，集中在一个或几个人工舱室内，将其小型化，密封化，集约

化，但仍然是一个收集然后统一处理的流程，只是将水中的固体废物转移了滤筒或滤筛中，再进行人工清洗或更换，而过滤器材收集的固体废弃物在完全排除前仍然会持续分解成可溶性的含氮化合物，对水体和水中生物持续造成影响。

3.0 时代： 水驱免维护筛滤 + 自冲洗滤珠床生化过滤

宝卢艾科锦鲤池过滤3.0的产品充分考虑了节能节水，节约土地，实时排污，以及最大可能降低人工维护，将整个过程分为独立的物理过滤和生化过滤环节，通过智能化编程，调节循环速度，实现了实时过滤，实时排污，避免第二次污染的发生，减轻了生化过滤的压力，目的就是使用更少的资源，用更少的水，形成更健康的循环，本系统已经配置智能接口，可平滑升级到物联网4.0。



FILTRATION DEVELOPMENT

1.0 Era: Natural filtration

Making solid particles shelter in the filter by clay, gravel, pebbles, aquatic plants, etc.. It is pure natural, but it has the features of slow effect, poor filtering ability, low efficiency, and water wasting by changing water to keep water quality.

2.0 Era: Artificial power-free filtration

Artificial brush, filter matt, oyster shells, bacteria house etc through the multi-layer filter, stage treatment, usually including the sedimentation pool, brush pool, biochemical pool etc., which can effectively remove most of the solid particles (usually size larger than 100 microns) but still keep them in the filtering equipment for long-time resolving. In fact, physical and biological filtration occurs at the same time, with the features of low efficiency, high artificial maintenance requirements, taking huge area, being easy to breed the flies.

2.5 Era: Filter barrels, artificial ecological filter bed, rotatory screen filter

It already considers the problems of the integration and land saving. The 2.5 products is the optimization design of 2.0 products, concentrating on one or a few artificial

booth for its miniaturization, seal, intensive, but is still a collection and then unified handling process. Just transferring the solid waste into the water filter cartridge or filter screen, then cleaning or changing again, but the solid waste collected by filtration equipment will continue to resolve into soluble nitrogen compounds and impact on sustained water/marine life, before completely ruling out.

3.0 Era: Water-driven, free maintenance screen + Intelligent automatic back wash beads filtration

Fully considering the energy saving, water saving, land saving, drainage, real-time and possibility to reduce human maintaining, BLUE-ECO Koi pond filter 3.0 products divided whole process into independent physical filtration and biological filtration. Through intelligent programming, adjusting circulation speed, it realized the real-time filtering and real-time drainage, avoided of the second pollution, reduced the biological filtration pressure. The purpose is to get a more healthy circulation by using less resources and water. This system has been configured intelligent interface, can be smoothly upgraded to the Internet of Things 4.0(IoS 4.0).



鼓式过滤器 DRUM FILTER



水驱动鼓式过滤器 Water Driven Drum Filter

型号: DF250S-01
材质: SUS316L
规格: 60x70x60 厘米
过滤能力: 60 吨 / 时
进水口: 110x4
出水口: 110x2
动 力: 3Bar 水压驱动
滤网面积: 0.7 平方米

Model: DF250S-01
Material: SUS316L
Size: 60x70x60cm
Performance: 60T/H
Inlet: 110x4
Outlet: 110x2
Power: 3Bar tap water drive
Filtration Area: 0.7m²



电驱动鼓式过滤器 E-Driven Drum Filter

型号: DF120E1-01
材质: SUS316L
规格: 60x70x60 厘米
过滤能力: 150 吨 / 时
进水口: 110x4
出水口: 110x2
动 力: 120W/12V 电驱动
滤网面积: 0.85 平方米

Model: DF120E1-01
Material: SUS316L
Size: 60x70x60cm
Performance: 150T/H
Inlet: 110x4
Outlet: 110x2
Power: 120W/12V electric drive
Filtration Area: 0.85m²

鼓式过滤器产品特点 Drum Filter Features

非常紧凑, 仅有 60*70*70 厘米, 材料为 SUS316L 不锈钢 Very compact as 60x70x70cm in SUS316L stainless steel	4X110 毫米入口; 2X110 毫米出口 4X110MM Inlet; 2X110MM outlet	可置于水面上 5 厘米处 Can be placed 5cm above pond water level
完全自动清洗 Total self clean	过滤标准达 10 微米级 Standard up to filtration of 10 micron	完全由自来水驱动, 无电力消耗 Activated by tap water, no electricity consuming
可整体置于地下 Can be placed underground totally	可调脚垫以便安装 Adjustable feet for easy installation	增加了滤网表面积 Increased gauge surface
极低噪音 Very low noise	儿童防护 Children protected	一体化筛盖 Integrated lid
直接连接自来水 Direct tap water connection	无须额外压力泵(连接自来水即可) No extra pressure pump needed (TAP WATER only)	一立方米的水可清洁千次 Cleaning 1000times with 1m³ water
可选加装紫外灯实现双重功能 Opt. for integrated UV lamp with double function	所有部件均置于内 All parts inside	自动收集草籽 Automatic collection of blanket weed
全自动封闭垃圾出口 Automatic closing garbage outlet	可额外调节喷水冲洗垃圾出口 Extra adjustable water entrance for cleaning the garbage outlet	滤鼓可完全于水下运行 Drum can run totally under water

生化过滤器 BUBBLE BEAD FILTER

BBF2



BBF4



生化过滤器型号 Bubble Bead Filter Model

型号: BBF2 Model: BBF2	材料: PE Material: PE	颜色: 绿色 Color: Green	适用: 60 米³以下池塘 Applicable: 60m³pond	水泵功率: 不低于 55 瓦 Pump Power: min 55 watt	处理能力 400 克 / 日食物饲喂量 Capacity: 400gram of food per day
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型号: BBF4 Model: BBF4	材料: PE Material: PE	颜色: 绿色 Color: Green	适用: 60-120 米³池塘 Applicable: 60-120m³pond	水泵功率: 不低于 80 瓦 Pump Power: min 80 watt	处理能力 900 克 / 日食物饲喂量 Capacity: 900gram of food per day
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生化过滤器产品特点 Bubble Bead Filter Features

水质保证 Water quality guarantee	全自动和完整的标准 Standard of full automatic and complete
可与满足最低工作水压的低功率水泵配套使用 Can be used with low energy pumps with minimum pump pressure	可用宝卢艾科的控制器的多次冲洗 Can be controlled by BLUE-ECO controller for multiple washings
在水泵未工作时也能自动清洗 Also automatic self-cleaning at pump failure	水泵未工作时过滤器内部的富氧区域可作为过滤器的长效电池(发挥作用) At pump failure, oxygen rich area inside the filter act as long life battery
无需额外的嘈杂的空气泵 No extra noisy air pump	无冲洗死角 No dead spots inside the filter
足够的反冲洗高度 Sufficient backwash height	所有技术设备均在过滤器内部 All technical equipments inside the filter itself
顶端与底部的接口均可 360° 旋转 Can be connected at 360° at top and bottom	如有需要可进行轻柔的生物学冲洗 Soft biological washing (as needed)
可在室内外安装 Ready for placement indoor and outdoor	也可置于低于水面的位置 Placement below water level is possible
全自动控制 Full automatic control	特殊再成型(重塑)滤珠 Special reformed beads
简单易于安装 Simple and every easy to mount	每日使用最少量的水反冲洗, 完全无噪声 Backwash every day with a minimum amount of water with no noise at all

全自动水过滤系统运行示意图
Full Automatic Filtration System Running Principle



宝卢艾科智能水泵标准版 BLUE-ECO INTELLIGENT STANDARD PUMP

型号 Model	SP024022(11)A03-01	SP032022(11)A03-01	SP050022(11)A03-01	SP090022(11)A03-01	SP150022A03-01	SP220022A03-01
电压 Voltage	110V~220V 50/60Hz				220V 50/60Hz	
效率 Efficiency	90%	90%	90%	94.6%	94.6%	94.6%
立方米 / 小时 M³/H	22	22	32	35	52	60
最大扬程 Max. Water Head	9M	11M	11M	13M	15M	17M
进水口 Inlet	70mm	70mm	72mm	72mm	72mm	72mm
出水口 Outlet	63mm	63mm	58mm	58mm	58mm	58mm
功率 Watts	10~240	10~320	10~500	10~900	10~1500	30~2200
转数 RPM	300~3000	300~3200	300~3000	300~3000	300~3400	300~3400



SP024022(11)A03-01



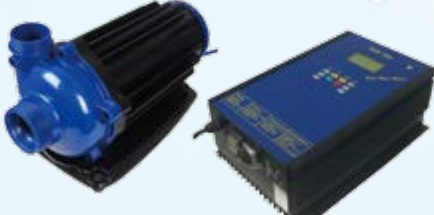
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SP050022(11)A03-01



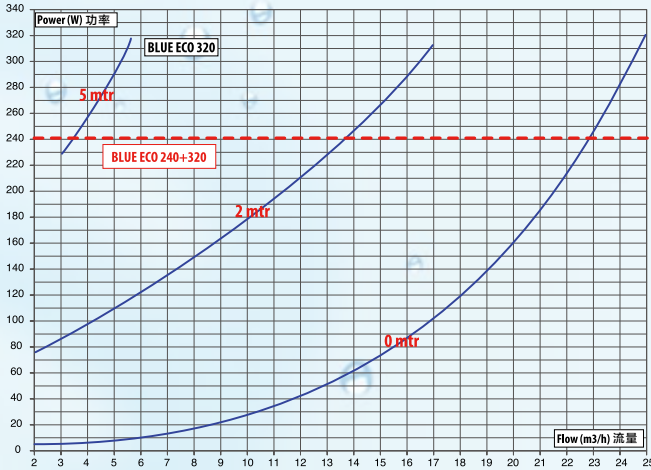
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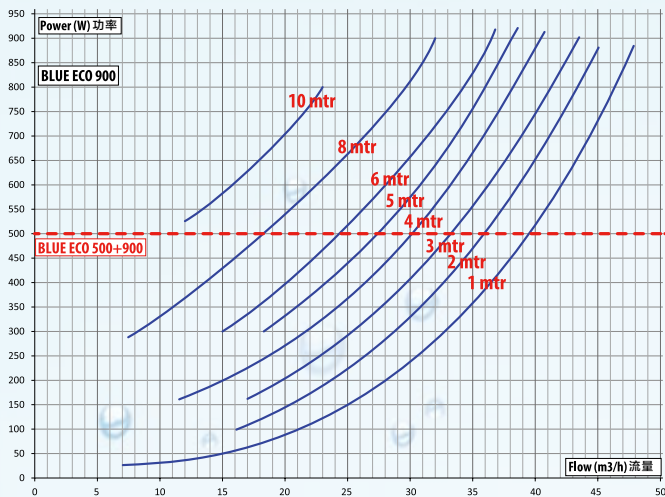
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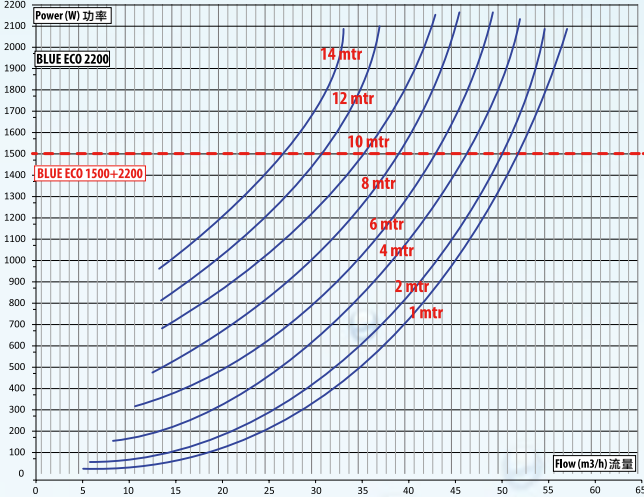
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240/320W 标准泵功率曲线图



500/900W 标准泵功率曲线图



1500/2200W 标准泵功率曲线图

为什么选择宝卢艾科？ WHY CHOOESE BLUE-ECO?

宝卢艾科 水泵是当今全世界最节能的水泵
BLUE-ECO pumps are amongst the most energy saving pump worldwide

效率达 90% 或者更高
PMSM technology has an efficiency of 90% or even higher

0~10V 外部控制可扩展阵列
0~10v external controller available, may extend to array

正弦波技术水泵产生超大的启动扭矩
True sine wave BLUE-ECO Pumps have enormous starting torque

轴承材料使用加碳碳化硅
Bearings are made of carbon added carbide silicon

具有绿色环保和显著的二氧化碳减排功效
BLUE-ECO pumps are environmental friendly and good for CO₂ reduction

采用了最新的正弦波技术和稀土永磁同步电机
BLUE-ECO pumps are provided with the latest technology(True Sine Wave) and a Permanent Magnet Synchronous Motor (PMSM)

宝卢艾科 水泵可配合使用太阳能板
BLUE-ECO pumps are ready for solar panel use

使用坚固耐用的钛轴
The pumps are with an unbreakable shaft of titanium

高速高压叶轮结构
High-speed high-pressure impeller structure

水泵使用高强度工程材料，泵体，泵头，叶轮 100% 耐腐蚀
Pump is made with engineering plastic,100% corrosion resistant pump housing, pump head, impeller

强力改进的自冷却系统
Strongly improved self-cooling system

控制器可编程智能运行，并显示功率，转速和运行时间
The intelligent programmable controller display's power used in watts, rpm and running hours

节能超低噪音低震动 长寿命无故障工作
Energy efficient high performance whisper quiet running and low vibration long life trouble-free work



宝卢艾科智能流量泵 BLUE-ECO INTELLIGENT WATER FLOW PUMP

型号 Model	FP050022(11)A03-01	FP090022(11)A03-01	FP150022A03-01	FP220022A03-01
电压 Voltage	110V~220V 50/60Hz		220V 50/60Hz	
效率 Efficiency	90%	94.6%	94.6%	94.6%
立方米 / 小时 M³/H	60	88	120	130
最大扬程 Max. Water Head	7.5M	8M	8M	8M
进水口 Inlet	88mm	88mm	88mm	88mm
出水口 Outlet	88mm	88mm	88mm	88mm
功率 Watts	10~500	10~900	10~1500	30~2200
转数 RPM	300~3000	300~3000	300~3400	300~3400

宝卢艾科智能流量泵

流量泵的泵头可装配在 500/900/1500/2200W 水泵，只需更换螺丝
压力（扬程）低于宝卢艾科标准水泵，但是新型的泵头提供超大的流量
泵头和叶轮采用双相钢材料，适用于潜水，100% 耐腐蚀和防水
大尺寸进水口和出水口，88mm 螺纹
特殊防旋流设计

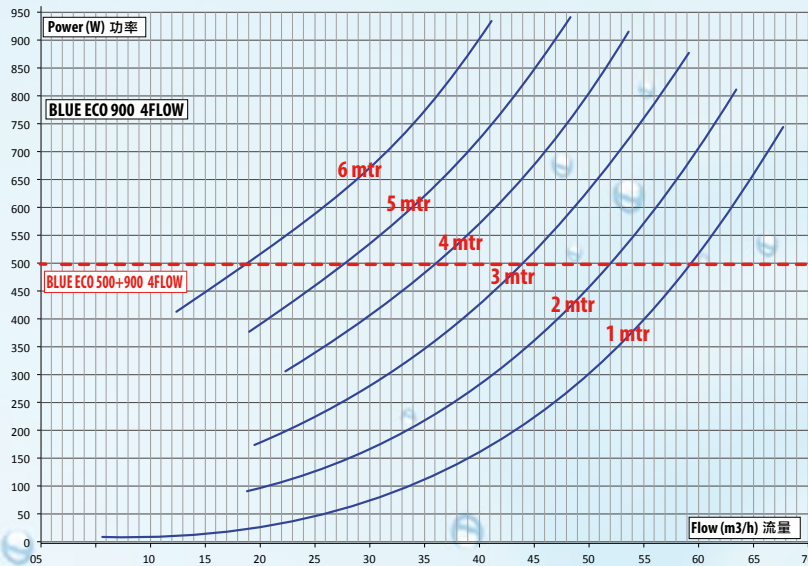
BLUE-ECO INTELLIGENT WATER FLOW PUMP

The **BLUE-ECO 4FLOW** pump head is a seperate pump head that can be mounted on the **BLUE-ECO** 500/900/1500/2200W. It's easy to install with a few screws.
The pressure (head) is lower than the standard **BLUE-ECO** pump head but it gives a enormous water flow.
Fully submersible and 100% corrosion resistance and seawater proof.
Large size inlet and outlet with threading 88mm.
Special anti-spiral design



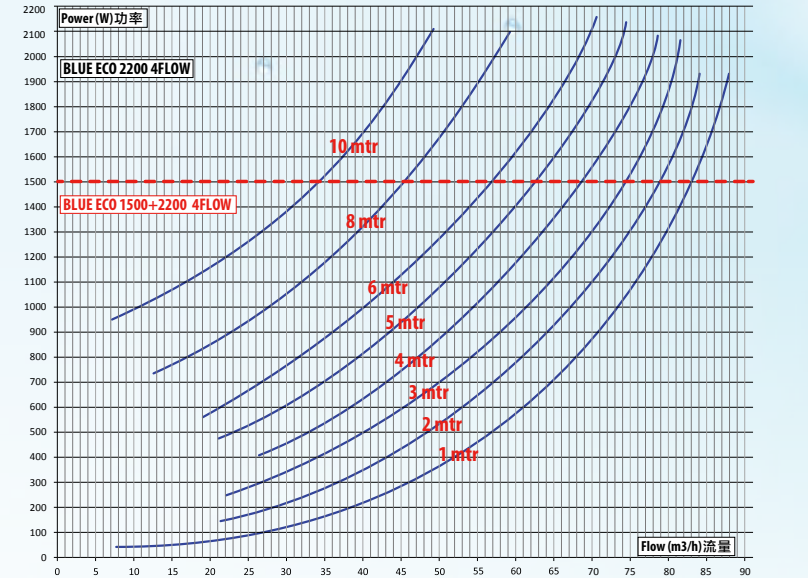
FP050022A(11)03-01 / FP090022(11)A03-01

500/900W 流量泵功率曲线图



FP150022A03-01 / FP220022A03-01

1500/2200W 流量泵功率曲线图





应用案例一
APPLICATION PROJECT

海外锦鲤池 OVERSEAS KOI POND

地面锦鲤池，7x2x1.5 米，欧洲鱼池设计理念，底部凹型，养殖锦鲤 30 多条，每日喂食量 400 克，过滤池占地面积小，自动升降盖，随时方便查看过滤器运行状况，节能静音，安安静静坐鱼池旁边赏鱼。

The ground Koi pond, 7 x 2 x 1.5 M, It's a typical European concept fish pond with a designed bottom drainage, over 30 Koi, feeding 400g food per day. The system is compacted installed, covered by a floor, easy to check the status of the system. It's also energy-saving, super quiet, and it allows people enjoying close to the fish.



应用案例二
APPLICATION PROJECT

庭院锦鲤池 GARDEN KOI POND

庭院锦鲤池 60 吨，养殖进口锦鲤及龟，每日喂食量 500 克，原过滤池面积 20 平方米，不能长时间保证水质清澈，每三个月清洗一次毛刷，使用宝卢艾科全自动水过滤系统改造，占用面积不到 2 平方米，免去人工维护，长期保证水质优良。

The garden pond with 60 T water, with Koi and turtle, feeding 500g fish food per day, the original filter tank area of 20 square meters, can't maintain the water quality, and requires cleaning once every three months. **BLUE-ECO** reformed the method of filtration to automatic water filtration, just less than 2 square meters of area and keep water good quality, free for frequently maintenance.



应用案例三
APPLICATION PROJECT

室内锦鲤池 INDOOR KOI POND

室内锦鲤池 4.4x2.6x1.1 米，鱼池底部为平底，与地面接近平行的位置；鱼池深度为 1.1 米，可容纳水量约为 13 吨，养殖进口锦鲤，每天喂食量 400 克左右，宝卢艾科过滤池面积不到 2 平方米，水质清澈见底，无臭味无蚊虫。

Indoor 4.4 x 2.6 x 1.1 M Koi pond, flat bottom, is parallel with the ground. The depth is 1.1 M, about 13T water holding, feeding about 400 g per day, less than 2 square meters' filtration area for **BLUE-ECO** system, with high water quality, no smell, no mosquitoes.

应用案例四
APPLICATION PROJECT

景观池 LANDSCAPE KOI POND

东莞某大厦楼顶上下池，水容量 75 吨，原有毛刷过滤池 1.8x1x0.95 米及底池抽水入上池循环，长期以来水质混浊，水藻泛滥，改造宝卢艾科全自动水过滤系统，水质清澈见底，水面如镜。

A Dongguan Tower Twin-pools, 75 T water, the original brush filter tank was 1.8 x 1 x 0.95M and pumped into the upper pool for circulation, the water looks bad, too many algae. **BLUE-ECO** reformed it to automatic water filtration system to ensure good water quality.



应用案例五 APPLICATION PROJECT 商养鱼池 COMMERCIAL FISH PONDS

专业养殖海水鱼类，鱼池规格：3x3x1.5 米，12 个鱼池相连通，原采用沙缸过滤，需定期清洗及更换石英沙，维护成本高，不能长时间保证水质，改用宝卢艾科电动版鼓式过滤器，节省后期维护成本，长期水质优良。

A Marine fish farm, each fish tank is 3x3x1.5M and total 12 tanks joint together. It equips Sand Filters and cost a lot for maintenance but the water still not good. Now it is replaced by **BLUE-ECO** E-Driven Rotatory Drum Filter and performs perfect.



应用案例六 APPLICATION PROJECT 海外泳池 OVERSEAS SWIMMING POOL

海外泳池，水容量约 50 吨左右，采用鼓式过滤器替代沙缸，进行物理过滤，实时排污，避免死亡菌群堆积在一起，造成石英沙板结，使沙缸过滤透水能力及效果大大降低。免去后期维护更换滤材的成本。

Overseas Swimming Pool, 50 T water, drum filter replacing of the sand filter, using physical filtration, real-time drainage, no maintenance, no changeable items, and no electricity cost.



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