

MASTRA[®]
ELECTRICPUMP



MASTRA[®]
萬事達瑞榮

污水污物潜水泵
Submersible sewage pump

Pompes pour effluents
Bombas de aguas residuales
Bombas de esgotos

ISO 9001:2015



世界品牌
广东省出口名牌企业
广东省名牌产品

WORLD BRAND
Well-known Export Enterprise



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GUANGDONG RUIRONG PUMP INDUSTRY CO., LTD.
广东瑞荣泵业有限公司

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Product Index 产品索引



| | | | | | |
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|  | RHF RHL Horizontal multi-stage centrifugal pump 卧式多级离心泵 P44 |  | RDL Vertical multi-stage centrifugal pump 立式多级离心泵 P46 |  | RDLF Vertical multi-stage centrifugal pump 立式多级离心泵 P46 |

Features :

- Adopt Italian mechanical seal
- The motor is equipped with overheating protection device to provide automatic protection
- Optional float or pontoon, the two options are suitable for different occasions
- Max head: 9~11m, low power

Applications :

Suitable for general water supply and drainage, horticultural landscape water, fishpond water circulation, small area water discharge.

MOP100B With buoy 有浮筒 MOP250B

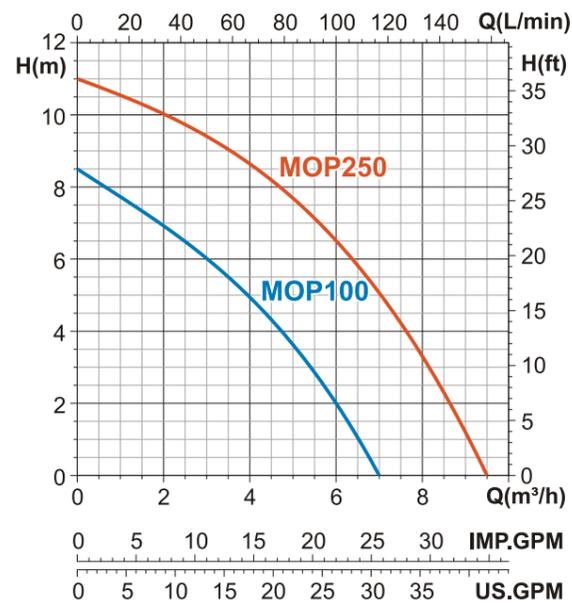


特点 :

- 采用意大利机械密封
- 电机内设有过热保护装置, 提供自动保护功能
- 可选配浮球或浮筒, 两种选择适合不同的场合需要
- 最高扬程9~11m, 功率小

用途 :

适合一般清水给排水, 园艺景观用水, 鱼池循环用水, 小区域积水排放。



MOP 100 A

- A: with float B: With Buoy
- A: 浮球 B: 浮筒开关
- Pump Power 水泵功率: 100W
- Pump Model 水泵型号

PERFORMANCE PARAMETER 性能参数

| Model 型号 | Power 功率 | | Voltage 电压 | Rotation 极数/转速 | Max Flow 最大流量 | Max Head 最高扬程 | Outlet 出水口径 | Max particle 最大颗粒 | Weight 重量 |
|----------|----------|-----|------------|----------------|---------------|---------------|-------------|-------------------|-----------|
| | W | HP | V | P/rpm | m³/h | m | mm | mm | kg |
| MOP100 | 100 | 1/8 | 220 | 2P/2850 | 7 | 8.5 | 11/18.5 | 3.4 | 4.3 |
| MOP250 | 250 | 1/3 | 220 | 2P/2850 | 9.5 | 11 | 11/18.5 | 3.4 | - |

Features :

- With Italian double mechanical seal
- 316L pump shaft, AISI 304 stainless steel or plastic shell
- The motor is equipped with overheating protection device

Applications :

Suitable for hospitals, factories, house and fish ponds.

SMSP100 With float 有浮球 SMDP100



Stainless steel submersible pump 全不锈钢潜水泵

特点 :

- 采用意大利双机械密封
- 采用316L泵轴、AISI 304不锈钢或塑料外壳
- 电机内设有过热保护装置

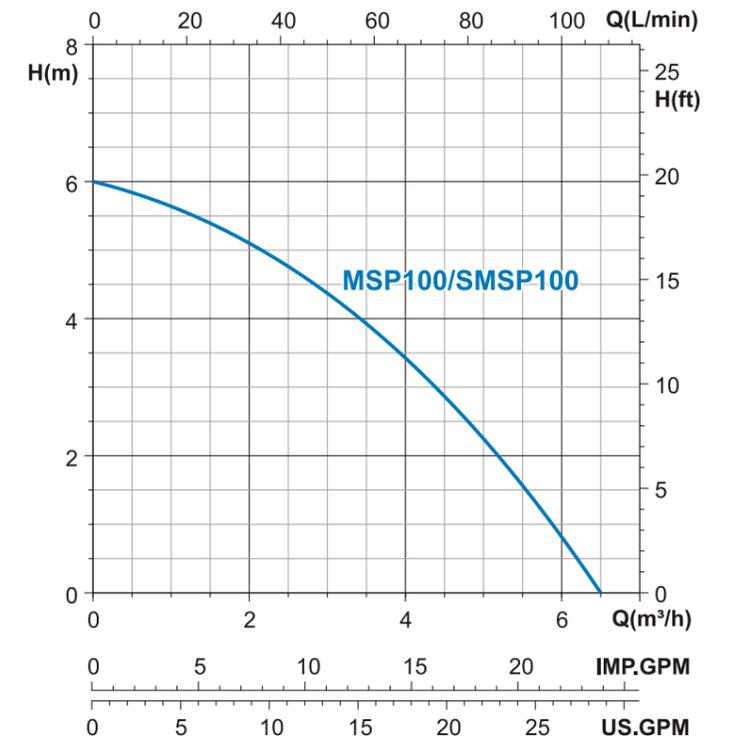
用途 :

适合医院、工厂、家庭、鱼池使用。

PERFORMANCE PARAMETER 性能参数

| Model 型号 | Power 功率 | | Voltage 电压 | Rotation 极数/转速 | Max Flow 最大流量 | Max Head 最高扬程 | Outlet 出水口径 | Max particle 最大颗粒 | Weight 重量 |
|----------|----------|-----|------------|----------------|---------------|---------------|-------------|-------------------|-----------|
| | W | HP | V | P/rpm | m³/h | m | mm | mm | kg |
| MSP100 | 100 | 1/8 | 220 | 2P/2850 | 6.5 | 6 | 11/18.5 | 3.4 | 4.6 |
| MDP100 | 100 | 1/8 | 220 | 2P/2850 | 6.5 | 6 | 11/18.5 | 3.4 | 4.3 |
| SMSP100 | 100 | 1/8 | 220 | 2P/2850 | 6.5 | 6 | 30 | 7 | 4.9 |
| SMDP100 | 100 | 1/8 | 220 | 2P/2850 | 6.5 | 6 | 30 | 7 | 4.8 |

MSP100 With float 有浮球 MDP100



MDB550 全不锈钢潜水泵
Stainless steel Submersible Pump

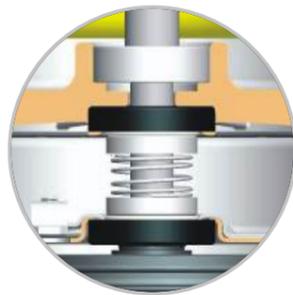


Features :

- With Italian double mechanical seal
- 316L pump shaft, AISI304 impeller and pump shell
- The motor is equipped with overheating protection device

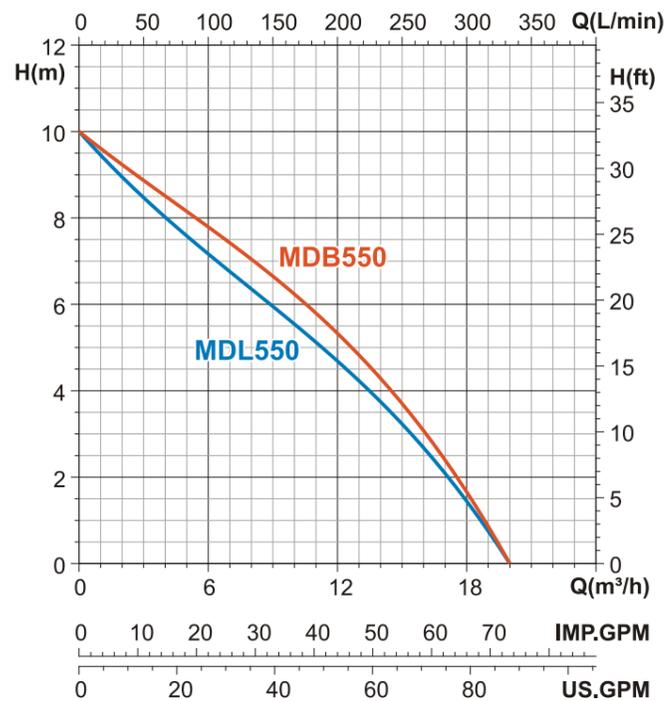
Applications :

Especially suitable for mariculture, industry, sewage, etc.



Italian mechanical seal
 采用意大利机械密封

MDL550 全不锈钢污水泵
Stainless steel Submersible Sewage Pump



特点 :

- 采用意大利双端面机械密封
- 采用316L泵轴、AISI 304叶轮、外壳
- 电机内设有过热保护装置

用途 :

特别适合于海水养殖、工业、生活污水等使用。

PERFORMANCE PARAMETER 性能参数

| Model 型号 | Power 功率 | | Voltage 电压 | Rotation 极数/转速 | Max Flow 最大流量 | Max Head 最高扬程 | Outlet 出水口径 | Max particle 最大颗粒 | Weight 重量 |
|----------|----------|-----|------------|----------------|---------------|---------------|-------------|-------------------|-----------|
| | W | HP | | | | | | | |
| MDB550 | 550 | 3/4 | 220 | 2P/2850 | 20 | 10 | 40 | 4 | 10.5 |
| MDL550 | 550 | 3/4 | 220 | 2P/2850 | 20 | 10 | 40 | 31 | 9 |

For MDB550 and MDL550, without float switch is also available. MDB550和MDL550可不配浮球

Low water level drainage pump
低水位排水泵



MHF203L

Features :

- The water level of the pump is as low as 8mm
- Italian double mechanical seal, AC over-heat protector inside
- AISI304 motor shell, upper cover, strainer, shaft, and nuts
- Good appearance, small and light, easy to use and maintain

Applications :

Clearance of low water level rainwater into the house, removal of all kinds of water from basement, factory, site, waste water removal, recycling water of landscape.

特点 :

- 低水位排水, 低至8mm
- 采用意大利双端面机械密封设计, 电机内设有AC过热保护
- 电机外壳、顶盖、滤网、螺丝、泵轴均采用304不锈钢制造
- 外形美观, 重量轻, 体积小, 使用方便, 易维修

用途 :

低水位雨水入屋的清除, 地下室、工厂、工地各种积水、废水排除, 园艺石山循环水景等。

PERFORMANCE PARAMETER 性能参数

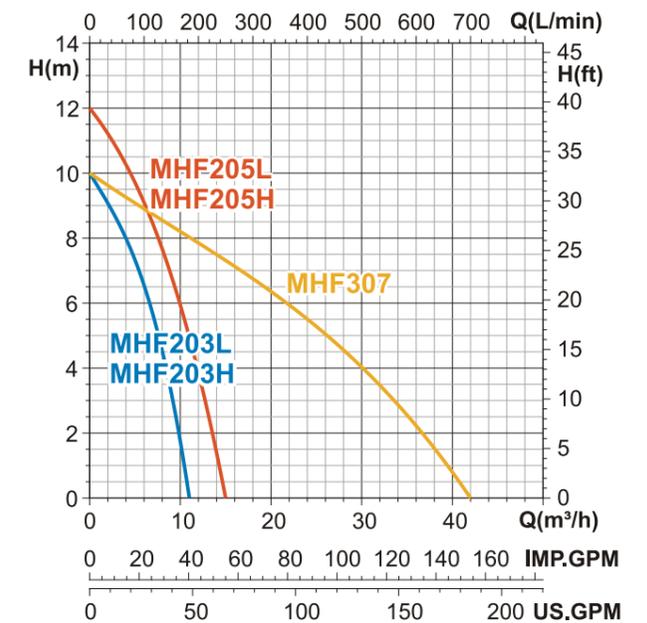
| 型号/Model | 功率 Power | | 电压 Voltage | 极数/转速 Rotation | 最大流量 Max Flow | 最高扬程 Max Head | 出水口径 Outlet | 最大颗粒 Max particle | 重量 Weight |
|----------|----------|------|------------|----------------|---------------|---------------|-------------|-------------------|-----------|
| | kW | HP | | | | | | | |
| MHF203L | 0.37 | 0.5 | 220 | 2P/2850 | 11 | 10 | 40/50 | 3.5 | 7.6 |
| MHF205L | 0.55 | 0.75 | 220 | 2P/2850 | 15 | 12 | 40/50 | 3.5 | 12.8 |

Silent drainage pump
静音排水泵



MHF307H

▪ Rubber base
 橡胶底座



PERFORMANCE PARAMETER 性能参数

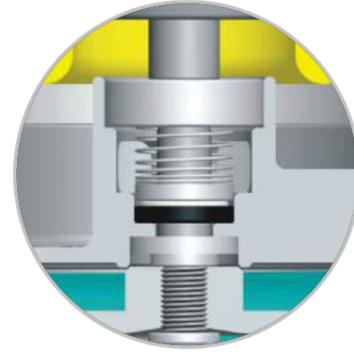
| Model 型号 | Power 功率 | | Voltage 电压 | Rotation 极数/转速 | Max Flow 最大流量 | Max Head 最高扬程 | Outlet 出水口径 | Max particle 最大颗粒 | Weight 重量 |
|----------|----------|------|------------|----------------|---------------|---------------|-------------|-------------------|-----------|
| | kW | HP | | | | | | | |
| MHF203H | 0.37 | 0.5 | 220 | 2P/2850 | 12 | 11 | 80 | 7 | 7.6 |
| MHF205H | 0.55 | 0.75 | 220 | 2P/2850 | 15 | 12 | 80 | 7 | 12.8 |
| MHF307H | 0.75 | 1 | 220/380 | 2P/2850 | 42 | 10 | 80 | 7 | 20 |

Features :

- AISI304 motor shell, impeller, diffuser, strainer, and nuts. Shaft in 316L special material
- Italian double face mechanical seal, AC over-heat protector inside
- Integrated plug, good water proof
- Good appearance, small and lightweight, easy to use and maintain

Applications :

Ideal for work places which have a high requirement for water quality, eg. fountain, aquarium fish cultivation and industrial waste water, especially for draining industrial acid or alkaline waste water.



Italian mechanical seal
采用意大利机械密封

MBS315 潜水排污泵
Submersible Sewage Pump



MBS322 污物潜水泵
Submersible Sewage Pump

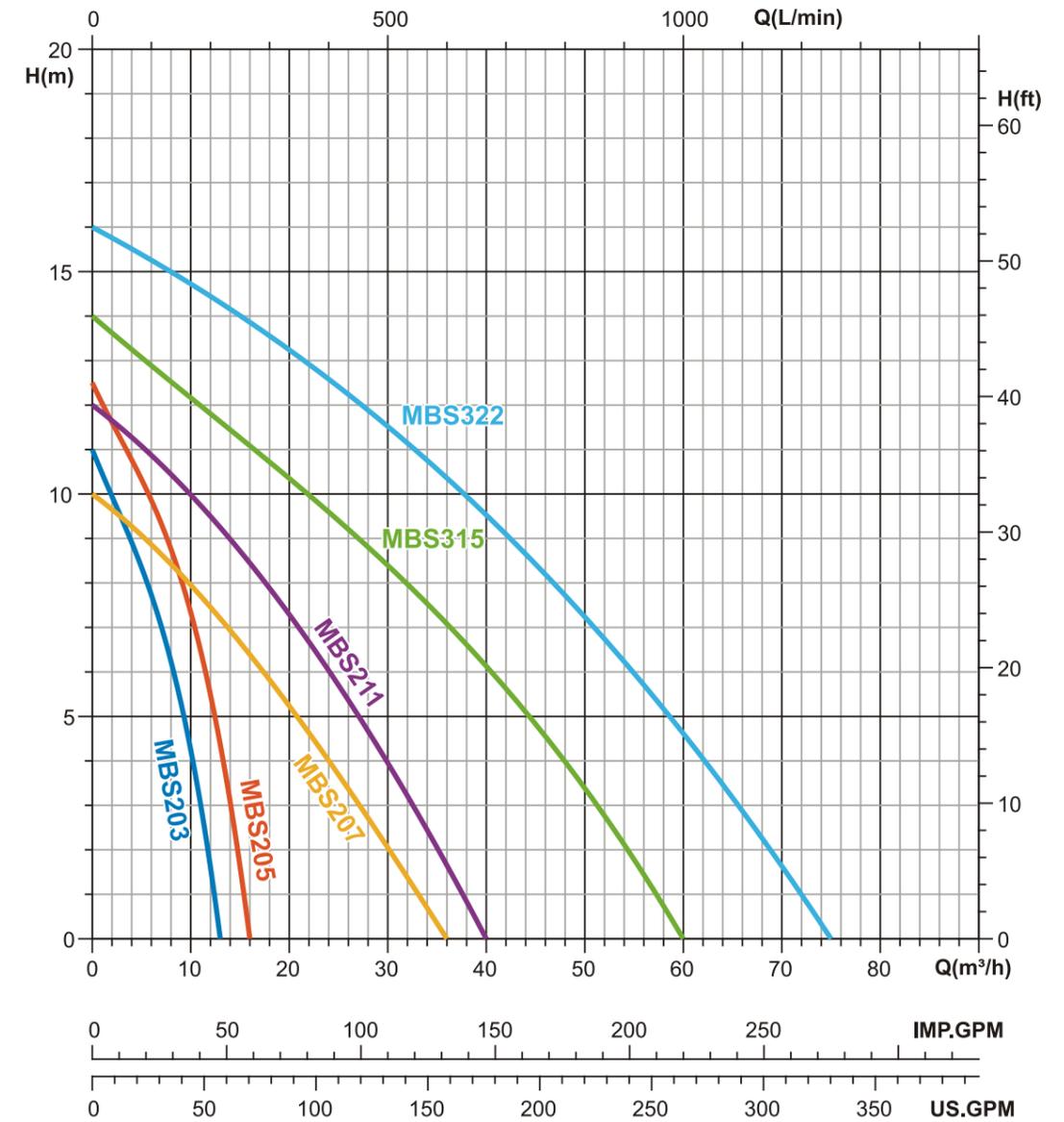


特点 :

- 电机外壳、泵叶轮、导流器、滤网、螺丝等所有零部件均用304不锈钢制成, 泵轴用316L特殊材料制成
- 采用意大利双端面机械密封设计, 电机内设有AC过热保护
- 电缆线头采用一体成型, 防水性佳
- 外形美观, 重量轻, 体积小, 使用方便, 易维修

用途 :

特别适用于对水质要求高的场合。如喷泉池, 观赏鱼养殖, 工业废水, 特别是含酸含碱的各类工业废水排放。



PERFORMANCE PARAMETER 性能参数

| Model 型号 | Power 功率 | | Voltage 电压 | Rotation 极数/转速 | Max Flow 最大流量 | Max Head 最高扬程 | Outlet 出水口径 | Max particle 最大颗粒 | Weight 重量 |
|----------|----------|------|------------|----------------|---------------|---------------|-------------|-------------------|-----------|
| | kW | HP | V | P/rpm | m³/h | m | mm | mm | kg |
| MBS203 | 0.37 | 0.5 | 220/380 | 2P/2850 | 13 | 11 | 50 | 6.8 | 12.1 |
| MBS205 | 0.55 | 0.75 | 220/380 | 2P/2850 | 16 | 12.5 | 50 | 6.8 | 13.2 |
| MBS207 | 0.75 | 1 | 220/380 | 2P/2850 | 36 | 10 | 50 | 5.5/7 | 18 |
| MBS211 | 1.1 | 1.5 | 220/380 | 2P/2850 | 40 | 12 | 50 | 5.5/7 | 19.3 |
| MBS315 | 1.5 | 2 | 220/380 | 2P/2850 | 60 | 14 | 75 | 8 | 23.1 |
| MBS322 | 2.2 | 3 | 380 | 2P/2850 | 75 | 16 | 75 | 8 | 30.9 |
| * MBS337 | 3.7 | 5 | 380 | 2P/2850 | 70 | 27 | 75 | 10 | - |
| * MBS355 | 5.5 | 7.5 | 380 | 2P/2850 | 75 | 33 | 75 | 10 | - |
| * MBS475 | 7.5 | 10 | 380 | 2P/2850 | 96 | 36 | 100 | 12 | - |

Under development products will be marked "**". 标识 * 为待开发产品型号

Features :

- With Italian double mechanical seal
- 316SS shaft, heat resistant material, special engineering plastics
- Equipped with imported overheating protection device
- Large flow, small power, power saving, maximum passing particle 25 or 35mm

Applications :

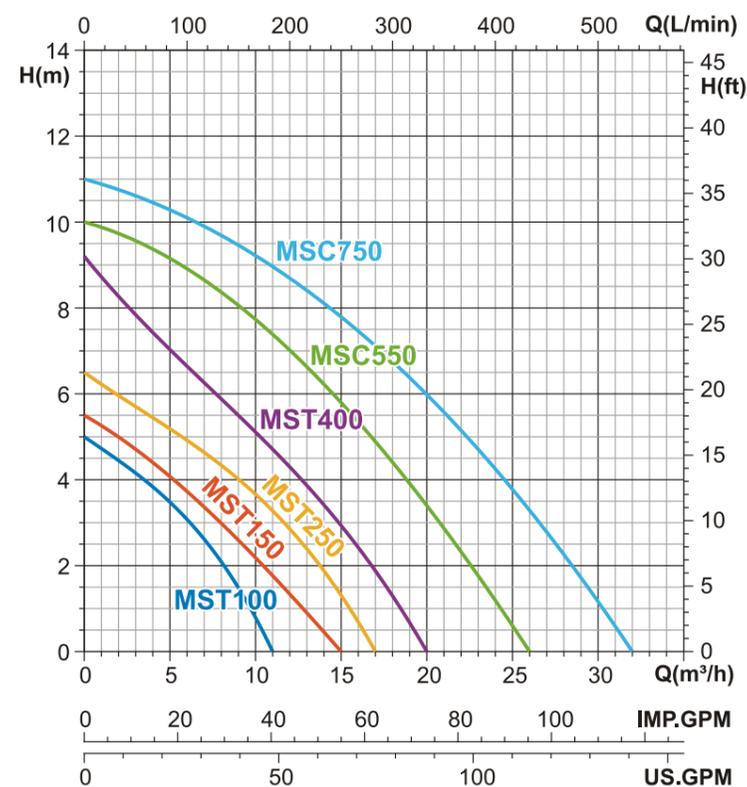
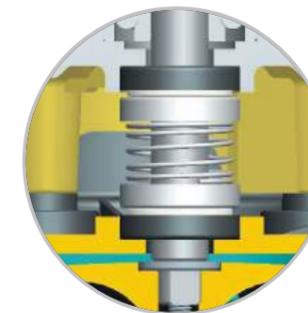
Suitable for factory, fish pond, family ornamental fish for aquaculture circulating water, and suitable for fishing boats, Marine farms.

特点 :

- 采用意大利双机械密封
- 316SS轴, 耐热材料, 特殊工程塑料制造
- 设有过热保护装置
- 流量大, 功率小, 省电, 最大通过颗粒25或35mm

用途 :

适合工厂、鱼池、住宅养观赏鱼过滤循环水之用, 并适合渔船、海水养殖场用。



MST 150 A

A: with float B: with buoy C: with double float D: with new buoy
A: 浮球 B: 浮筒开关 C: 双浮球式浮筒开关 D: 直筒浮筒开关

Pump Power 水泵功率

Pump Model 水泵型号

Type D buoy can only be equipped with 100 ~ 250W. D款浮筒只可配100-250W

PERFORMANCE PARAMETER 性能参数

| Model 型号 | Power 功率 | | Voltage 电压 | Rotation 极数/转速 | Max Flow 最大流量 | Max Head 最高扬程 | Outlet 出水口径 | Max particle 最大颗粒 | Weight 重量 |
|----------|----------|------|------------|----------------|---------------|---------------|-------------|-------------------|-----------|
| | W | HP | V | P/rpm | m³/h | m | mm | mm | kg |
| MST100 | 100 | 1/8 | 220/240 | 2P/2850 | 11 | 5 | 40/50 | 35 | 6.5 |
| MDT100 | 100 | 1/8 | 220/240 | 2P/2850 | 11 | 5 | 40/50 | 35 | 6.3 |
| MST150 | 150 | 1/5 | 220/240 | 2P/2850 | 15 | 5.5 | 40/50 | 35 | 6.5 |
| MDT150 | 150 | 1/5 | 220/240 | 2P/2850 | 15 | 5.5 | 40/50 | 35 | 6.3 |
| MST250 | 250 | 1/3 | 220/240 | 2P/2850 | 17 | 6.5 | 40/50 | 35 | 7.4 |
| MDT250 | 250 | 1/3 | 220/240 | 2P/2850 | 17 | 6.5 | 40/50 | 35 | 7.4 |
| MST400 | 400 | 1/2 | 220/240 | 2P/2850 | 20 | 9 | 40/50 | 25 | 8.5 |
| MDT400 | 400 | 1/2 | 220/240 | 2P/2850 | 20 | 9 | 40/50 | 25 | 8.5 |
| MSC550* | 550 | 0.75 | 220/240 | 2P/2850 | 26 | 10 | 40/50 | 25 | 16.3 |
| MSC750* | 750 | 1 | 220/240 | 2P/2850 | 32 | 11 | 40/50 | 25 | 18.3 |

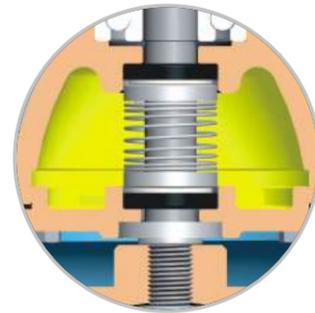
Items marked with * are equipped with cast iron base. 带*符号代表本泵使用铸铁底座

Features :

- AISI304 motor shell, upper cover, strainer, shaft, and nuts
- Italian double face mechanical seal, AC over-heat protector insible
- Integrated plug, good water proof
- Good appearance, small and light, easy to use and maintain

Applications :

Draining standing-water and waste water for cellar, plant, construction site etc, Water Circulation for garden landscapes.



Italian mechanical seal
采用意大利机械密封

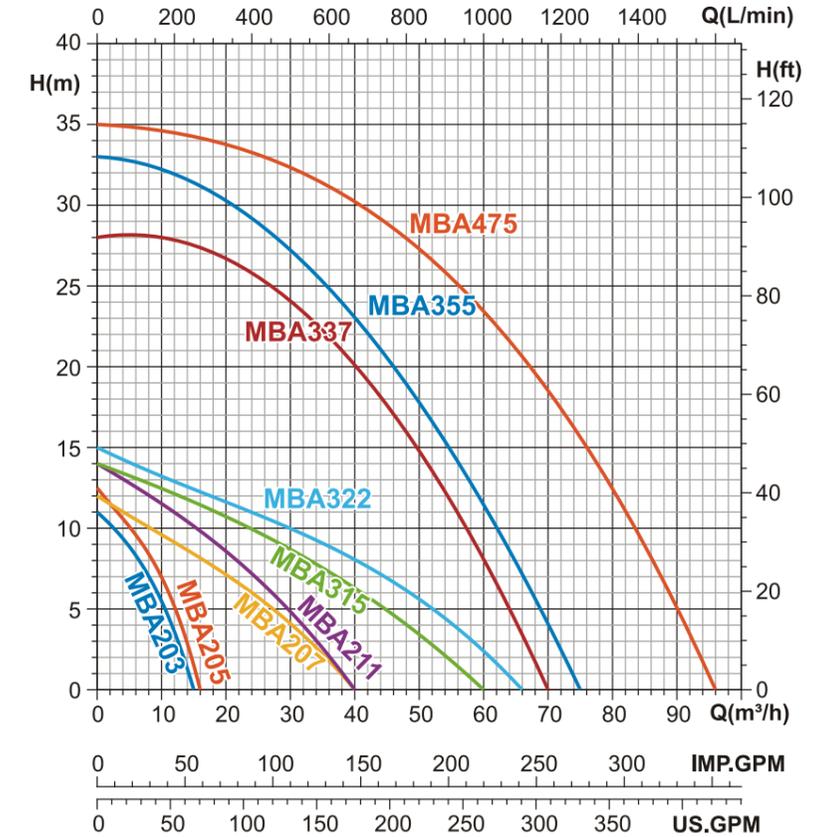


特点 :

- 电机外壳、顶盖、滤网、螺丝、泵轴均采用304不锈钢制造
- 采用意大利进口双端面机械密封设计，电机内设有AC过热保护
- 电缆线头采用一体成型，防水性好
- 外形美观，重量轻，体积小，使用方便，易维修

用途 :

积水排除，地下室、工厂、工地各种积水，废水排除，园艺石山循环水景等。



PERFORMANCE PARAMETER 性能参数

| Model 型号 | Power 功率 | | Voltage 电压 | Rotation 极数/转速 | Max Flow 最大流量 | Max Head 最高扬程 | Outlet 出水口径 | Max particle 最大颗粒 | Weight 重量 |
|----------|----------|------|------------|----------------|---------------|---------------|-------------|-------------------|-----------|
| | kW | HP | V | P/rpm | m³/h | m | mm | mm | kg |
| * MBA202 | 0.25 | 0.4 | 220 | 2P/2850 | 12 | 8 | 50 | 7 | - |
| MBA203 | 0.37 | 0.5 | 220 | 2P/2850 | 15 | 11 | 50 | 6.8 | 13.5 |
| MBA205 | 0.55 | 0.75 | 220 | 2P/2850 | 18 | 12 | 50 | 6.8 | 14.7 |
| MBA207 | 0.75 | 1 | 220/380 | 2P/2850 | 40 | 12 | 50 | 5.5/7 | 20.5 |
| MBA211 | 1.1 | 1.5 | 220/380 | 2P/2850 | 40 | 15 | 50 | 5.5/7 | 21.9 |
| MBA315 | 1.5 | 2 | 220/380 | 2P/2850 | 60 | 14 | 75 | 8 | 26 |
| MBA322 | 2.2 | 3 | 220/380 | 2P/2850 | 66 | 15 | 75 | 8 | 40.2 |
| MBA337 | 3.7 | 5 | 380 | 2P/2850 | 70 | 28 | 75 | 10 | 55.3 |
| MBA355 | 5.5 | 7.5 | 380 | 2P/2850 | 75 | 33 | 75 | 10 | 91.2 |
| MBA475 | 7.5 | 10 | 380 | 2P/2850 | 96 | 35 | 100 | 12 | - |

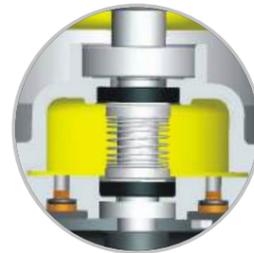
Under development products will be marked "**". 标识 * 为待开发产品型号

Features :

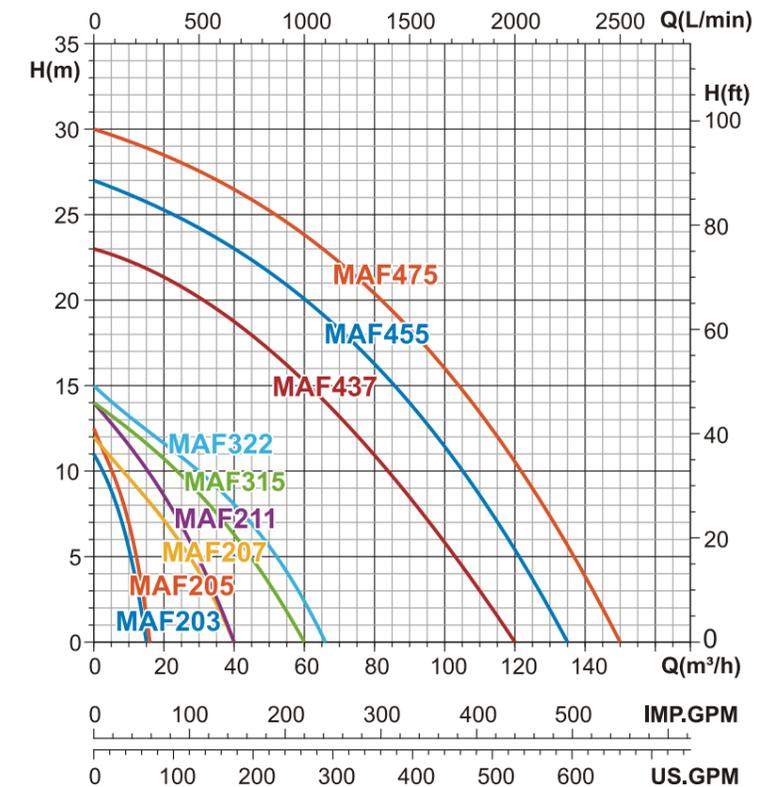
- Adopting Italian double mechanical seal can ensure the pump to operate for more than 8000 hours continuously
- The cable adopts anti-fog design, with excellent waterproof performance
- With unique impeller and volute design, large solid particles can pass through easily (see table for specific particle size)
- Fully automatic control cabinet can be equipped according to the needs of users to automatically protect the pump from electric leakage and overload, which improves the safety and reliability of the product

Applications :

- For building basement, farming field, factory and industrial waste water drainage
- For dirty and waste water drainage in sewage plants



Italian double mechanical seal
采用意大利双机械密封设计



P: Three-channel unshrouded non clog impeller, high discharge capacity, suitable for muddy sewage with big solid.

特点 :

- 采用意大利机械密封, 可使泵安全连续运行8000小时以上
- 电缆线采用防雾气设计, 防水性能极佳
- 采用独特的叶轮和蜗壳设计, 污物通过能力强, 可通过较大的固体颗粒 (具体颗粒大小见表格)
- 可根据用户需要配备全自动控制柜, 对泵的漏电过载进行自动保护, 提高了产品的安全性与可靠性

用途 :

- 大楼地下室污水处理设备, 牧场, 食品厂, 工业废水排放
- 污水厂各种污物, 污水排放

PERFORMANCE PARAMETER 性能参数

| Model 型号 | Power 功率 | | Voltage 电压 | Rotation 极数/转速 | Max Flow 最大流量 | Max Head 最高扬程 | Outlet 出水口径 | Max particle 最大颗粒 | Weight 重量 |
|----------|----------|------|------------|----------------|---------------|---------------|-------------|-------------------|-----------|
| | kW | HP | V | P/rpm | m³/h | m | mm | mm | kg |
| *MAF202 | 0.25 | 0.33 | 220 | 2P/2850 | 12 | 9.3 | 40/50 | 9 | - |
| MAF203 | 0.37 | 0.5 | 220 | 2P/2850 | 15 | 11 | 40/50 | 7 | 14.6 |
| MAF205 | 0.55 | 0.75 | 220/380 | 2P/2850 | 18 | 12 | 40/50 | 7 | 14.6 |
| MAF207 | 0.75 | 1 | 220/380 | 2P/2850 | 40 | 12 | 40/50 | 7 | 20.7 |
| MAF211 | 1.1 | 1.5 | 220/380 | 2P/2850 | 40 | 15 | 40/50 | 7 | 22.3 |
| MAF315 | 1.5 | 2 | 220/380 | 2P/2850 | 60 | 14 | 75 | 20 | 24 |
| MAF322 | 2.2 | 3 | 220/380 | 2P/2850 | 66 | 15 | 75 | 20 | 42.5 |
| MAF437 | 3.7 | 5 | 380 | 2P/2850 | 120 | 23 | 100 | 20 | 91.3 |
| MAF455 | 5.5 | 7.5 | 380 | 2P/2850 | 135 | 27 | 100 | 22 | 94.3 |
| MAF475 | 7.5 | 10 | 380 | 2P/2850 | 150 | 30 | 100 | 22 | 98.1 |

Under development products will be marked "**". 标识 * 为待开发产品型号

Features :

MBF series of sewage submersible pump is the professional submersible equipment specially developed to resolve waste water drainage containing large particles. It adopts imported Italian double mechanical seal. Cable thrum adopt antifog design make the product excellent waterproof performance. Motor shell, pump shaft and screw are made of 304 stainless steel, with beautiful appearance and durable service.

MBF455

Applications :

- Used in construction site, engineering foundation construction, public facilities and waterworks
- Drainage sewage from cellar of all sorts of high buildings, bomb shelters, subways, etc
- Treat sewage and transport circulating water in small and medium size enterprises
- Pumping liquid with slag for enterprises in the filed of food, paper making, brewing, steel and non-ferrous metal, tanning, textile, pharmacy
- Pumping slurry in all kinds of breeding industry like chicken farm, pig farm, fish pond, septic-tank, etc

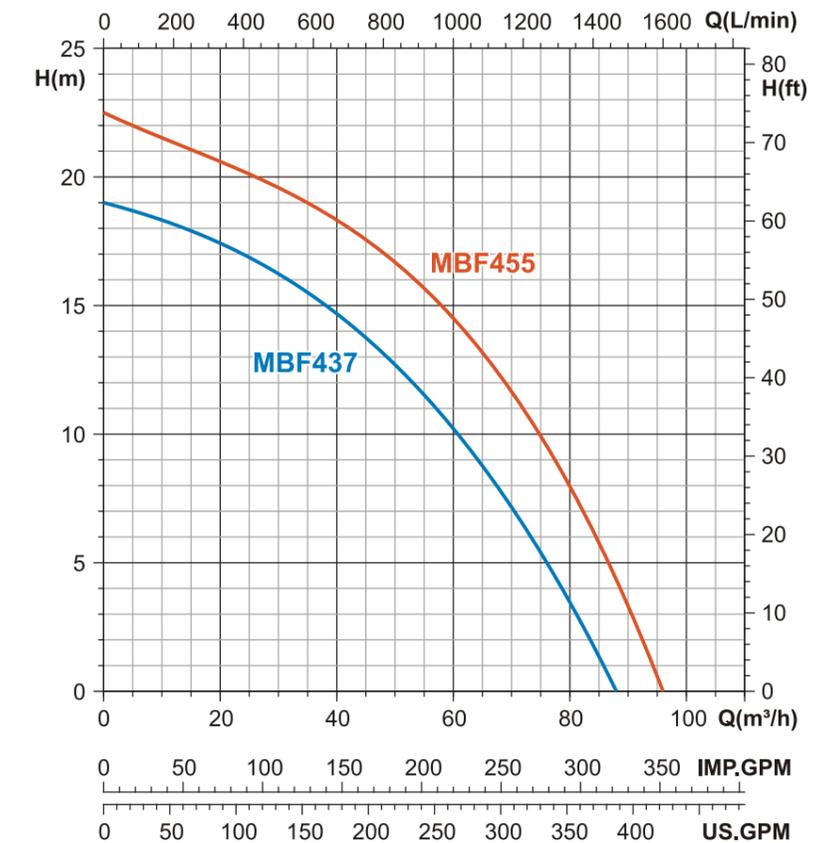


特点 :

MBF系列污水潜水泵是为了解决含大颗粒固体废水而开发的专业潜水设备，它采用意大利双端面机械密封，电缆线头采用防雾气设计，防水性能极佳。电机外壳、泵轴、螺丝采用不锈钢304材质，使产品具有外形美观、经久耐用等特点。

用途 :

- 用于建筑工地、工程基础施工、市政设施、自来水厂
- 各种高楼大厦的地下室、人防坑洞、地铁等地下层污水排放
- 中小型企业污水处理及循环水输送
- 食品、造纸、酿造、钢铁及有色金属、制革、纺织、制药等厂矿企业的渣浆液抽送
- 养鸡场、养猪场、各种养殖业、鱼池作抽水清塘、增氧，化粪池等各种场合的人畜粪尿抽送等作用



PERFORMANCE PARAMETER 性能参数

| Model 型号 | Power 功率 | | Voltage 电压 | Rotation 极数/转速 | Max Flow 最大流量 | Max Head 最高扬程 | Outlet 出水口径 | Max particle 最大颗粒 |
|----------|----------|-----|------------|----------------|---------------|---------------|-------------|-------------------|
| | kW | HP | V | P/rpm | m³/h | m | mm | mm |
| *MBF311 | 1.1 | 1.5 | 380 | 2P/2850 | 46 | 13 | 75 | 50 |
| *MBF315 | 1.5 | 2 | 380 | 2P/2850 | 50 | 14 | 75 | 50 |
| *MBF322 | 2.2 | 3 | 380 | 2P/2850 | 60 | 17 | 75 | 50 |
| MBF437 | 3.7 | 5 | 380 | 2P/2850 | 88 | 19 | 100 | 55 |
| MBF455 | 5.5 | 7.5 | 380 | 2P/2850 | 110 | 23 | 100 | 55 |

Under development products will be marked "**". 标识 * 为待开发产品型号

Features :

- The pump adopts double-blade cutting impeller to improve the capacity of the water pump
- The blade is equipped with an alloy blade, which can effectively cut the solids and long fibers contained in sewage when the worm chamber moves relatively
- Overload protector can be equipped according to the user's needs to monitor the leakage and overload of the pump to ensure the safe and reliable operation of the pump
- With compact structure and small volume, easy to move, easy to install

Applications :

It is used for the discharge of wastewater from livestock farms, sewage discharge stations in residential areas, seriously polluted wastewater discharge from factories and businesses, discharge system of urban sewage treatment plants, sewage discharge from hospitals and hotels, rural irrigation and other industries.



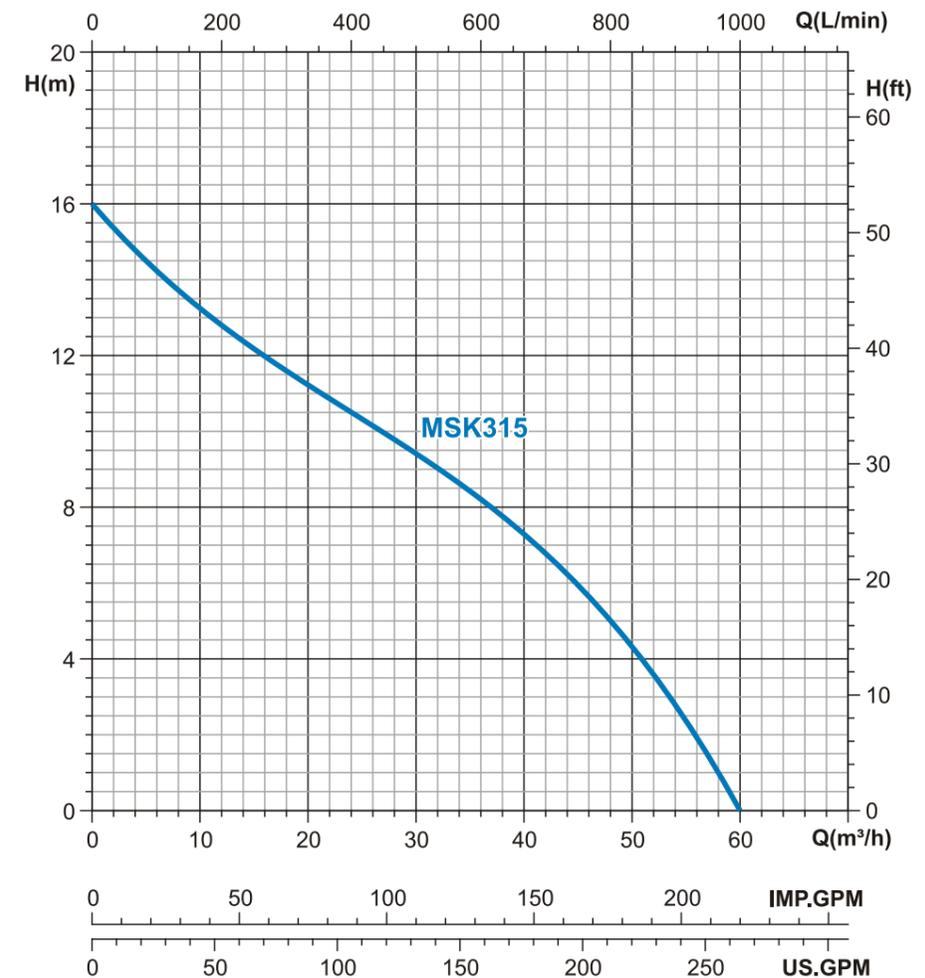
MSK315

特点 :

- 该泵采用双叶片切割式叶轮，提高了水泵的过流能力
- 同时叶片上设置的合金刀片，配合蜗室相对运动时，能有效对污水中含有的固体物和长纤维进行切割
- 可根据用户需要配备过载保护器，对泵的漏电、过载等进行监控，保证泵安全可靠运行
- 具有结构紧凑、体积小、移动方便、安装简便

用途 :

特别适合于养猪场粪便排污。用于畜牧养殖场的废水排放，住宅区污水排污站，工厂商业严重污染废水排放，城市污水处理厂排放系统，医院、宾馆的污水排放，农村农田灌溉等行业。



PERFORMANCE PARAMETER 性能参数

| Model 型号 | Power 功率 | | Voltage 电压 | Rotation 极数/转速 | Max Flow 最大流量 | Max Head 最高扬程 | Outlet 出水口径 | Max particle 最大颗粒 |
|----------|----------|-----|------------|----------------|---------------|---------------|-------------|-------------------|
| | kW | HP | V | P/rpm | m³/h | m | mm | mm |
| * MSK311 | 1.1 | 1.5 | 380 | 2P/2850 | 56 | 14 | 75 | 24 |
| MSK315 | 1.5 | 2 | 380 | 2P/2850 | 60 | 16 | 75 | 24 |
| * MSK322 | 2.2 | 3 | 380 | 2P/2850 | 70 | 17 | 75 | 24 |

Under development products will be marked "**". 标识 * 为待开发产品型号

Features :

- Adopting Italian double-end mechanical seal, which can increase the leakproofness of pump and extend its service life; The structure of oil chamber can not only lubricate the mechanical seal, but also cooling it
- The cable adopts anti-fog design, which can effectively prevent the inner cavity of the motor from being affected by moisture, which is because of the heat expansion and cold contraction
- Adopt non-clogging impeller and volute design, with strong capacity of passing dirt , like large solid particles. (specific size of solid particle is shown in the table)
- Single phase electric pump that equipped with float can control the on and off of the pump according to the change of water level, but no need to monitor it
- Pump volute, impeller, motor shell are made of high quality cast iron, which is strong, durable and stable

Applications :

- Drainage sewage from cellar of all sorts of high buildings, bomb shelters, subways, etc
- Treat sewage and transport circulating water in small and medium size enterprises
- Pumping slurry in all kinds of breeding industry like farm, fish pond, septic-tank, etc

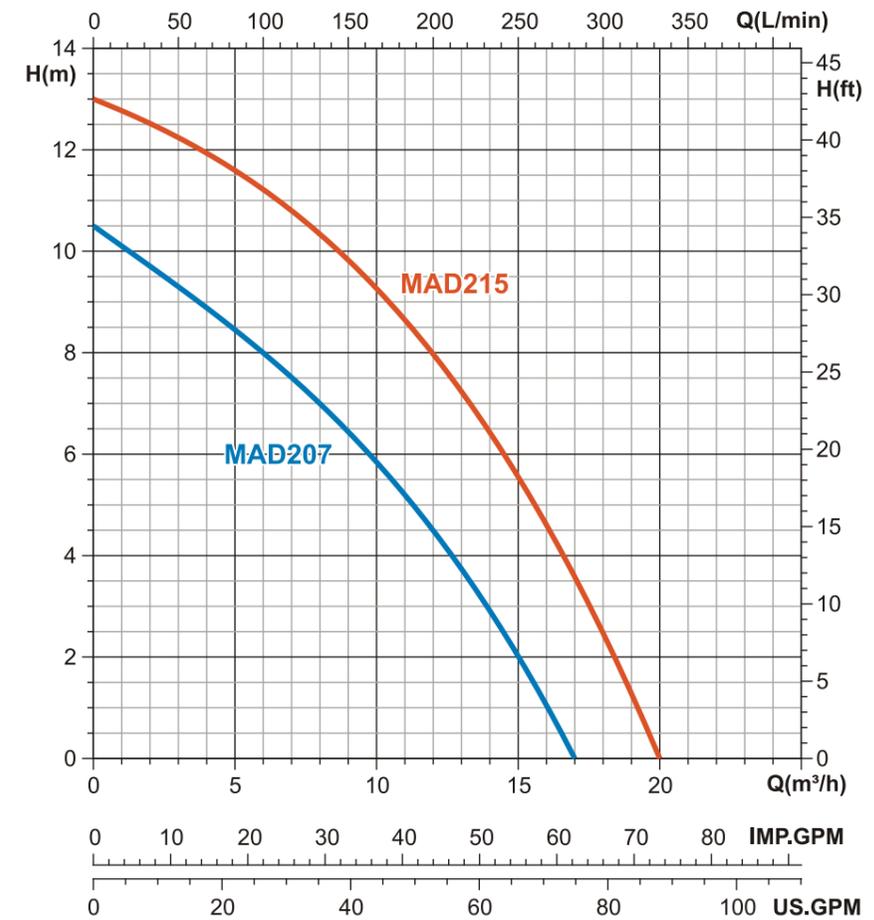


特点 :

- 采用意大利双端面机械密封，油腔设计结构可润滑冷却机械密封，提高电泵密封性、使用寿命
- 电缆线采用防雾气设计，有效防止电机内腔因热胀冷缩作用受潮
- 采用无堵塞叶轮和蜗壳设计，污物通过能力强，可通过较大的固体颗粒（具体颗粒大小见表格）
- 单相电泵配浮球根据水位变化，控制泵的启动和停止，无需专人看管
- 泵的蜗壳、叶轮、电机外壳等均采用优质铸铁，坚固耐用，稳定性好

用途 :

- 各种高楼大厦的地下室、人防坑洞、地铁等地下层污水排放
- 中小型企业潜水处理及手环水输送
- 养鸡场、养猪场、各种养殖业、鱼池作抽水清塘、增氧，化粪池等各种场合的人畜粪尿抽送等作用



PERFORMANCE PARAMETER 性能参数

| Model 型号 | Power 功率 | | Voltage 电压 | Rotation 极数/转速 | Max Flow 最大流量 | Max Head 最高扬程 | Outlet 出水口径 | Max particle 最大颗粒 |
|----------|----------|----|------------|----------------|---------------|---------------|-------------|-------------------|
| | kW | HP | V | P/rpm | m³/h | m | mm | mm |
| MAD207 | 0.75 | 1 | 220/380 | 2P/2850 | 17 | 10.5 | 50 | 22 |
| MAD215 | 1.5 | 2 | 380 | 2P/2850 | 20 | 13 | 50 | 22 |

Features :

MAD4 series of submersible heavy sewage pump is the professional submersible equipment specially developed to resolve waste water drainage containing large particles and fiber material in it. In allusion to different service condition under different power, three types of impellers E/A/B are designed to help drainage waster water containing large particles and fiber material to a max. degree. At the same time, the pump adopts Italian imported double-face mechanical seal with the characters of wear-resisting, heat-resisting and a better lubrication, which create a more durable service life for the pump by fully waterproof.

Applications :

- Used in construction site, engineering foundation construction, public facilities and waterworks
- Drainage sewage from cellar of all sorts of high buildings, bomb shelters, subways, etc
- Specially for submersible water treatment in small and medium sized enterprises
- Pumping liquid with slag for enterprises in the field of food, paper making, brewing, steel and non-ferrous metal, tanning, textile, pharmacy, cement, dirt treatment
- For pig farm, septic tank and other human and animal excrement urine pumping



A: Open impeller, with extra hard tungsten steel blade to cut foreign material, prevent the pump getting clogged.



E: Unshrouded impeller, non clog, double channel design for good balance and smooth running. For high head with big flow.



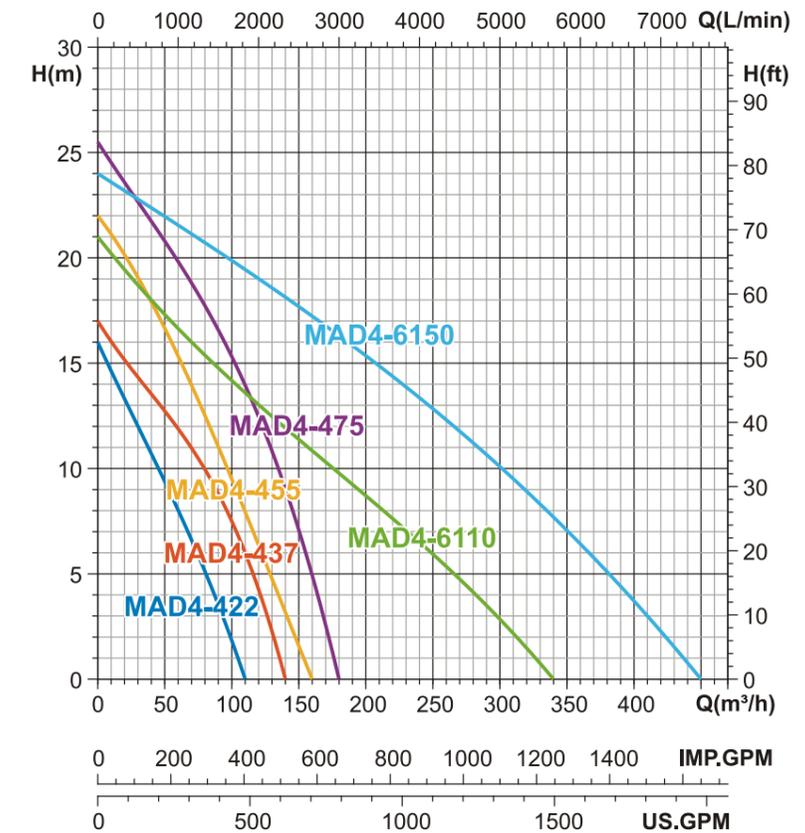
B: Suitable for sewage with solid and fibrous matter, to prevent the pump getting entwined. Good performance in flow and head.

特点 :

MAD4系列重型污物潜水泵是本公司为了解决含大颗粒固体和纤维物质的废水排放而开发的专业潜水设备，具有大扭矩的特点，针对不同功率的使用情况，分别开发E/A/B等三种不同型式的叶轮设计，对于含固体或纤维物质的污水，均发挥最大的排水功能。同时该泵采用意大利双端面机械密封，具有耐磨耗，耐热性强，润滑性更佳等特点，使泵更佳经久耐用，全面防水。

用途 :

- 用于建筑工地、工程基础施工、自来水厂
- 各种高楼大厦的地下室、人防坑洞、地铁等地下层污水排放
- 中小型企业潜水处理专用
- 食品、造纸、酿造、钢铁及有色金属、制革、纺织、制药、水泥厂等厂矿企业的渣浆液抽送，污物清理
- 养猪场、化粪池等各种场合的人畜粪尿抽送等作用



PERFORMANCE PARAMETER 性能参数

| Model 型号 | Power 功率 | | Voltage 电压 | Rotation 极数/转速 | Max Flow 最大流量 | Max Head 最高扬程 | Rated Flow 额定流量 | Rated Head 额定扬程 | Outlet 出水口径 | Max particle 最大颗粒 | Weight 重量 |
|-------------|----------|-----|------------|----------------|---------------|---------------|-----------------|-----------------|-------------|-------------------|-----------|
| | kW | HP | | | | | | | | | |
| MAD4-422A | 2.2 | 3 | 380 | 4P/1450 | 110 | 16 | 55 | 9 | 100 | 50 | 87.5 |
| MAD4-437E | 3.7 | 5 | 380 | 4P/1450 | 140 | 17 | 60 | 12.5 | 100 | 50 | 96 |
| MAD4-455B | 5.5 | 7.5 | 380 | 4P/1450 | 160 | 22 | 70 | 14.5 | 100 | 40 | 143.5 |
| MAD4-475B | 7.5 | 10 | 380 | 4P/1450 | 180 | 25.5 | 80 | 18 | 100 | 40 | 152.2 |
| MAD4-6110B | 11 | 15 | 380 | 4P/1450 | 340 | 21 | 160 | 13.5 | 150 | 70 | - |
| *MAD4-6150E | 15 | 20 | 380 | 4P/1450 | 450 | 24 | 220 | 15 | 150 | 70 | - |

Under development products will be marked "**". 标识 * 为待开发产品型号

R128A Multistage Submersible Pump 多级潜水泵



R128B Multistage Submersible Pump 多级潜水泵



R128A R128A-II



Features :

- With Italian mechanical seal, improved sealing, longer service life
- With sound absorption design technology, the pump can be ultra-static operation
- With 304SS impeller and GE-PPO diffuser, the pump offers high head, high efficiency and good durability
- The float can effectively prevent the water pump from running without water

Applications :

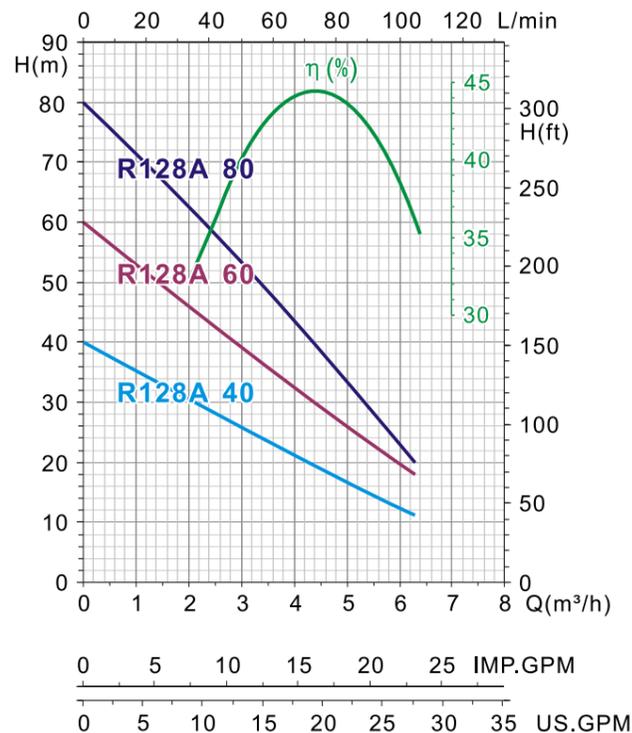
- Water supply for floor pressurization, reservoirs and water tanks
- Water for small-scale irrigation
- Clean the vehicle

特点 :

- 采用意大利机械密封件结构, 提高密封性, 提高水泵的使用寿命
- 采用吸音设计技术, 使泵运行超静
- 304SS叶轮和GE-PPO导流壳, 使泵具有高扬程、高效率 and 耐用性好等特点
- 浮球可有效防止水泵无水运行

用途 :

- 可供楼层加压、蓄水池、水箱输送清水
- 小规模灌溉用水
- 清洗车辆



PERFORMANCE PARAMETER 性能参数

| Model Single phase 型号(单相) 220V 50Hz | Model Three phase 型号(三相) 380V 50Hz | Power 功率 | | Input Power 输入功率 (kW) | | Single phase 电流电容 220V | | | Three phase 电流 380V | Q | Capacity流量 | | | | | | | Outlet 出水 口径 |
|--|---|-------------|-----|-----------------------------|------|------------------------------|----|-----|------------------------------|--------|------------|------|----|-----|----|----|-----|--------------------|
| | | HP | kW | 220V | 380V | A | μF | VC | | | A | m³/h | 0 | 1.5 | 3 | 4 | 5.1 | |
| R128A 40 | R128A 40T | 0.8 | 0.6 | 1 | 1 | 4.2 | 20 | 450 | 2.1 | H m | 40 | 32 | 25 | 22 | 15 | 14 | 11 | 30mm G1 1/4" |
| R128A 60 | R128A 60T | 1.2 | 0.9 | 1.4 | 1.4 | 6.3 | 25 | 450 | 2.5 | | 60 | 50 | 40 | 33 | 25 | 20 | 18 | |
| R128A 80 | R128A 80T | 1.6 | 1.2 | 1.8 | 1.8 | 8.6 | 35 | 450 | 3.4 | | 80 | 68 | 55 | 45 | 26 | 25 | 20 | |

R128B R128B-II



Features :

- With Italian double mechanical seal, improved sealing, longer service life
- Single phase motor is equipped with overheating protection device inside
- With sound absorption design technology, the pump can be ultra-static operation
- With GE-PPO impeller and diffuser, so the pump is with high head, high efficiency and good durability
- The float can effectively prevent the water pump from running without water

Applications :

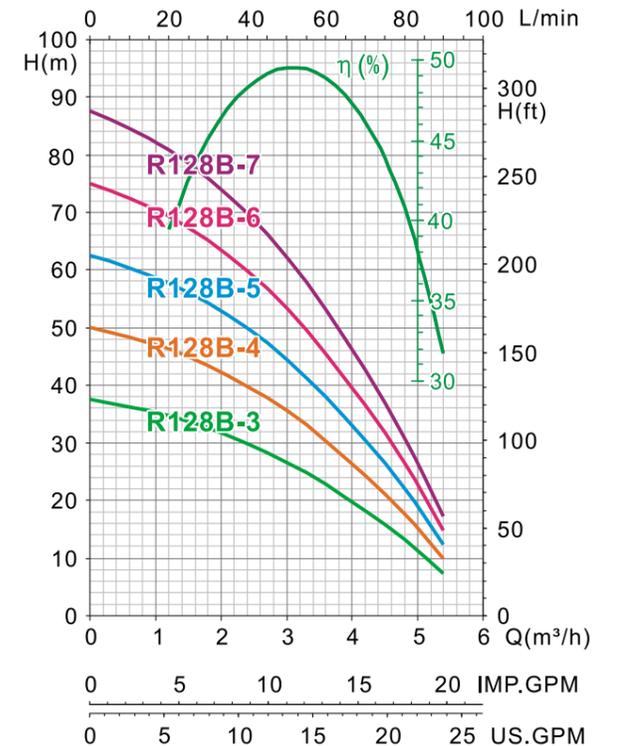
- Water supply for floor pressurization, reservoirs and water tanks
- Water for small-scale irrigation
- Clean the vehicle

特点 :

- 采用意大利双机械密封件结构, 提高密封性, 提高水泵的使用寿命
- 单相电机内设有过热保护装置
- 采用吸音设计技术, 使泵静音运行
- GE-PPO叶轮和导流壳, 使泵具有高扬程、高效率 and 耐用性好等特点
- 浮球可有效防止水泵无水运行

用途 :

- 可供楼层加压、蓄水池、水箱输送清水
- 小规模灌溉用水
- 清洗车辆



PERFORMANCE PARAMETER 性能参数

| Model Single phase 型号(单相) 220V 50Hz | Model Three phase 型号(三相) 380V 50Hz | Power 功率 | | Single phase 电流电容 220-240V | | | Three phase 电流 380V | Q | Capacity流量 | | | | | | | | Outlet 出水 口径 |
|--|---|-------------|-----|----------------------------------|----|-----|------------------------------|--------|------------|------|----|-----|-----|-----|----|-----|--------------------|
| | | HP | kW | A | μF | VC | | | A | m³/h | 0 | 1.2 | 1.8 | 2.4 | 3 | 3.6 | |
| R128B-3 | R128B-3T | 0.67 | 0.5 | 3.4 | 20 | 450 | - | H m | 39 | 36 | 34 | 31 | 28 | 25 | 21 | 17 | 30mm G1 1/4" |
| R128B-4 | R128B-4T | 0.8 | 0.6 | 4.4 | 25 | 450 | 2.2 | | 52 | 48 | 45 | 42 | 38 | 33 | 28 | 22 | |
| R128B-5 | R128B-5T | 1 | 0.8 | 5.4 | 30 | 450 | 2.7 | | 65 | 60 | 56 | 52 | 47 | 41 | 35 | 28 | |
| R128B-6 | R128B-6T | 1.3 | 1 | 6.5 | 35 | 450 | 3.3 | | 78 | 72 | 68 | 62 | 56 | 50 | 42 | 33 | |
| R128B-7 | R128B-7T | 1.6 | 1.2 | 7.4 | 35 | 450 | 3.8 | | 91 | 84 | 79 | 73 | 66 | 58 | 49 | 39 | |

R128K Multistage Submersible Pump 多级潜水泵



R148 Multistage Submersible Pump 多级潜水泵



R128K

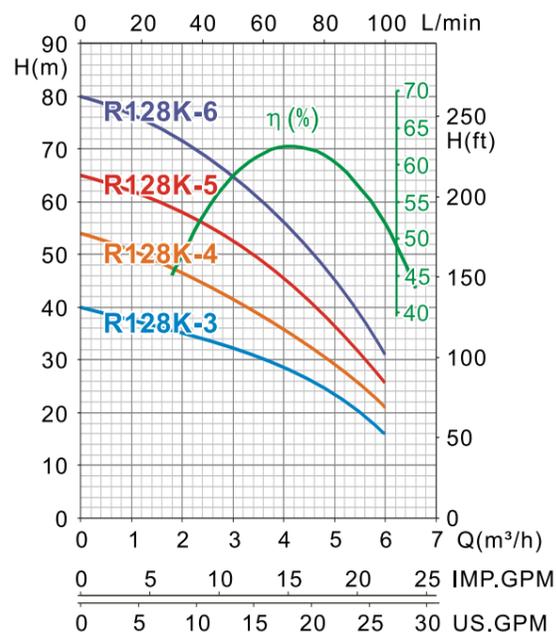


Features :

- With Italian double mechanical seal, improved sealing, longer service life
- Single phase motor is equipped with overheating protection device inside
- With sound absorption design technology, the pump can be ultra-static operation
- With stainless steel 304 impeller and plastic diffuser, so the pump is with high head, high efficiency and good durability
- The float can effectively prevent the water pump from running without water

Applications :

- Pumping clean water from well, reservoir, water tank
- Water for small-scale irrigation, gardening
- Clean the vehicle



特点 :

- 采用意大利双机械密封件结构, 提高密封性, 提高水泵的使用寿命
- 单相电机内设有过热保护装置
- 采用吸音设计技术, 使泵运行超静
- 304不锈钢叶轮和工程塑料导流壳, 具有高扬程、高效率 and 耐用性好等特点
- 浮球可有效防止水泵无水运行

用途 :

- 井水、蓄水池、水箱输送清水
- 小规模灌溉用水、花园淋花
- 清洗车辆

PERFORMANCE PARAMETER 性能参数

| Model Single phase 型号(单相) 220V 50Hz | Model Three phase 型号(三相) 380V 50Hz | Power 功率 | | Single phase 电流电容 220-240V | | | Three phase 电流 380V | Q Capacity流量 | | | | | | | | Outlet 出水 口径 |
|--|---|-------------|-----|----------------------------------|----|-----|------------------------------|------------------------|------|-----|-----|----|-----|-----|-----|--------------------|
| | | | | A | μF | VC | | A | m³/h | 1.8 | 2.4 | 3 | 3.6 | 4.2 | 4.8 | |
| R128K-3 | R128K-3T | 0.8 | 0.6 | 4.4 | 25 | 450 | 2.2 | Total head in meters扬程 | | | | | | | | 30mm G1 1/4" |
| R128K-4 | R128K-4T | 1 | 0.8 | 5.4 | 30 | 450 | 2.7 | 36 | 35 | 32 | 30 | 27 | 24 | 20 | 16 | |
| R128K-5 | R128K-5T | 1.3 | 1 | 6.5 | 35 | 450 | 3.3 | 48 | 46 | 43 | 40 | 36 | 32 | 26 | 21 | |
| R128K-6 | R128K-6T | 1.6 | 1.2 | 7.4 | 35 | 450 | 3.8 | 60 | 58 | 54 | 50 | 45 | 39 | 33 | 26 | |

R148



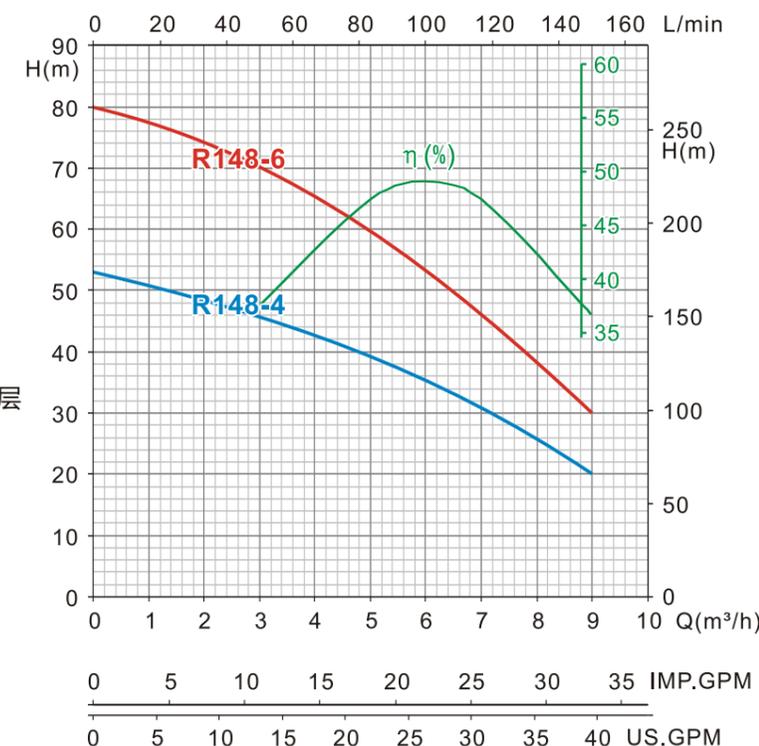
Features :

- GE-PPO diffuser, stainless steel impeller, shell, sand guard net
- Adopt Italian mechanical seal
- The pump base and outlet part are made of cast iron, a kind of high quality material. And it also adopts environmental protection coating treatment
- Adopting cable with plug, which is convenient to install and maintain

Applications :

For agricultural irrigation, factory, household use

- motor: asynchronism, 2 poles
- Protection class: Ip68
- Insulation class: F



特点 :

- GE-PPO导流器, 采用不锈钢叶轮、外壳、防沙网
- 意大利机械密封件
- 泵底座及出水部分为优质铸铁, 并且采用环保涂层处理
- 采用插头式电缆, 方便安装维护

用途 :

用于农业灌溉、工厂、家庭使用

- 电机: 异步、两极
- 保护等级: IP68
- 绝缘等级: F级

PERFORMANCE PARAMETER 性能参数

| Model Single phase 型号(单相) 220V 50Hz | Model Three phase 型号(三相) 380V 50Hz | Power 功率 | | ELECTRIC CURRENT 电流 (A) | | | Capacitor 电容值 μF | Capacity流量 | | | | | | | | Outlet 出水 口径 |
|--|---|-------------|-----|----------------------------|-----|-----|------------------------|------------------------|----|----|----|----|----|----|----|--------------------|
| | | | | 1~ | 2~ | 3~ | | m³/h | 1 | 2 | 3 | 5 | 7 | 9 | 11 | |
| R148-4 | R148-4T | 1.5 | 1.1 | 8.8 | 5.2 | 3.6 | 35 | Total head in meters扬程 | | | | | | | | 40mm G1 1/2" |
| R148-6 | R148-6T | 3 | 2.2 | 13 | 8.5 | 6 | 70 | 50 | 48 | 46 | 40 | 33 | 20 | 18 | 7 | |

MP100 多级潜水泵
Multistage Submersible Pump



Features :

- Stainless steel shell, beautiful appearance and simple structure
- Good durability, high head, small flow and energy saving
- Single phase motor is equipped with overheating protection device inside

Applications :

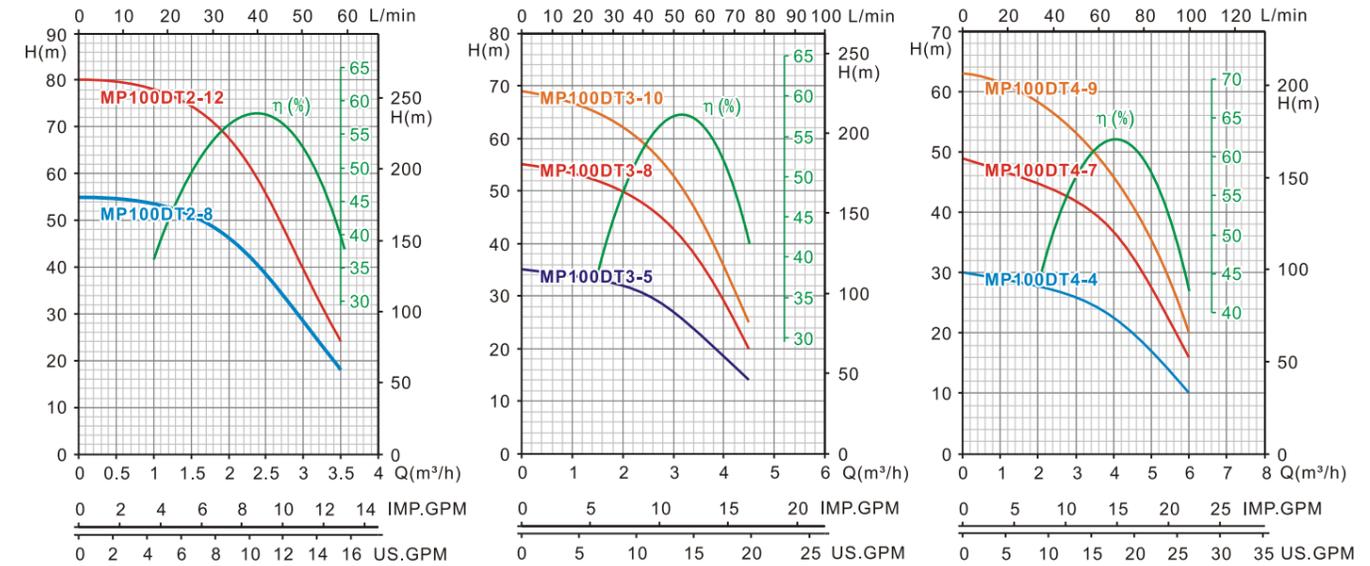
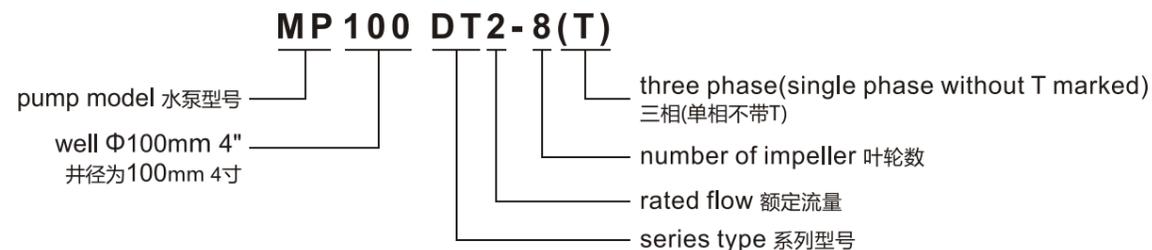
Generally it is used to pump the underground water, fresh water from lakes or rivers. It is suitable for agricultural irrigation, livestock breeding and daily water drinking.

特点：

- 采用不锈钢外壳，外形美观，结构简洁
- 耐用性好，具有高扬程，小流量和节能等特点
- 单相电机内设有过热保护装置

用途：

一般用于抽取地下井用水、湖泊或河流淡水以及用于农业灌溉、畜牧业养殖用水、日常饮用水等



PERFORMANCE PARAMETER 性能参数

| Model Single phase 型号(单相) 220V 50Hz | Model Three phase 型号(三相) 380V 50Hz | Power 功率 | | Single phase 电流电容 220-240V | | | Three phase 电流 380V | Q | | Capacity流量 | | | | | | | Outlet 出水 口径 | |
|--|---|-------------|------|----------------------------------|----|-----|------------------------------|------------------------|-------|------------|-----|----|-----|-----|-----|----|--------------------|-----|
| | | | | | | | | m³/h | L/min | 0 | 0.5 | 1 | 1.5 | 2 | 2.5 | 3 | | 3.5 |
| | | | | | | | | Total head in meters扬程 | | | | | | | | | | |
| | | | | | | | | H | | | | | | | | | | |
| MP100DT2-8 | MP100DT2-8T | 0.5 | 0.37 | 3.4 | 15 | 450 | - | m | 55 | 55 | 55 | 51 | 46 | 38 | 28 | 18 | 30mm G1 1/4" | |
| MP100DT2-12 | MP100DT2-12T | 0.75 | 0.55 | 4.6 | 20 | 450 | 1.8 | m | 80 | 80 | 80 | 75 | 66 | 54 | 39 | 24 | 30mm G1 1/4" | |
| Model Single phase 型号(单相) 220V 50Hz | Model Three phase 型号(三相) 380V 50Hz | Power 功率 | | Single phase 电流电容 220-240V | | | Three phase 电流 380V | Q | | Capacity流量 | | | | | | | Outlet 出水 口径 | |
| | | | | | | | | m³/h | L/min | 0 | 1 | 2 | 2.5 | 3 | 3.5 | 4 | | 4.5 |
| | | | | | | | | Total head in meters扬程 | | | | | | | | | | |
| | | | | | | | | H | | | | | | | | | | |
| MP100DT3-5 | MP100DT3-5T | 0.5 | 0.37 | 3.4 | 15 | 450 | - | m | 35 | 34 | 32 | 30 | 27 | 23 | 18 | 14 | 30mm G1 1/4" | |
| MP100DT3-8 | MP100DT3-8T | 0.75 | 0.55 | 4.6 | 20 | 450 | 1.8 | m | 55 | 54 | 50 | 47 | 42 | 37 | 29 | 20 | 30mm G1 1/4" | |
| MP100DT3-10 | MP100DT3-10T | 1 | 0.75 | 6 | 30 | 450 | 2.4 | m | 69 | 67 | 63 | 58 | 52 | 44 | 35 | 25 | 30mm G1 1/4" | |
| Model Single phase 型号(单相) 220V 50Hz | Model Three phase 型号(三相) 380V 50Hz | Power 功率 | | Single phase 电流电容 220-240V | | | Three phase 电流 380V | Q | | Capacity流量 | | | | | | | Outlet 出水 口径 | |
| | | | | | | | | m³/h | L/min | 0 | 1 | 2 | 3 | 3.5 | 4 | 5 | | 6 |
| | | | | | | | | Total head in meters扬程 | | | | | | | | | | |
| | | | | | | | | H | | | | | | | | | | |
| MP100DT4-4 | MP100DT4-4T | 0.5 | 0.37 | 3.4 | 15 | 450 | - | m | 30 | 29 | 28 | 26 | 24 | 23 | 17 | 10 | 30mm G1 1/4" | |
| MP100DT4-7 | MP100DT4-7T | 0.75 | 0.55 | 4.6 | 20 | 450 | 1.8 | m | 49 | 47 | 46 | 43 | 39 | 36 | 27 | 16 | 30mm G1 1/4" | |
| MP100DT4-9 | MP100DT4-9T | 1 | 0.75 | 6 | 30 | 450 | 2.4 | m | 63 | 60 | 59 | 54 | 50 | 46 | 36 | 20 | 30mm G1 1/4" | |



Features :

- With Italian double mechanical seal design
- The motor is located in the inlet area. Single phase motor is equipped with overheat protection device inside. GE-PPO impeller, diffuser
- High head, high efficiency, good durability, characterized by ultra-static operation

Applications :

Suitable for pressurized use in factory, school, housing estate and home pipelines.

R128BG With plastic impeller 塑料叶轮



特点 :

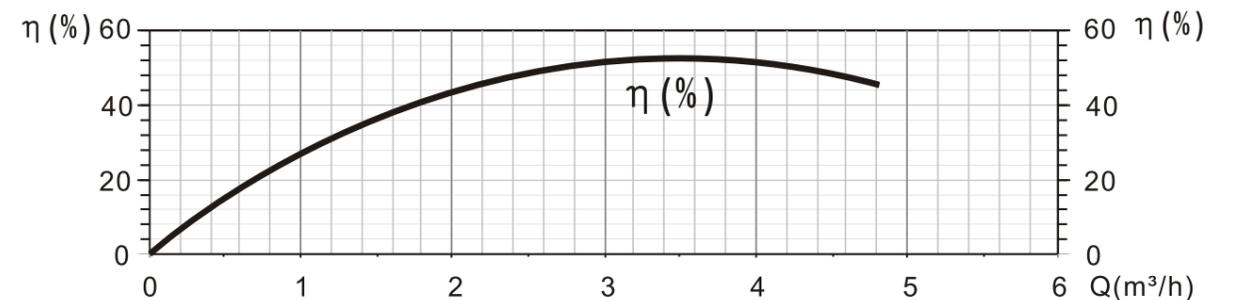
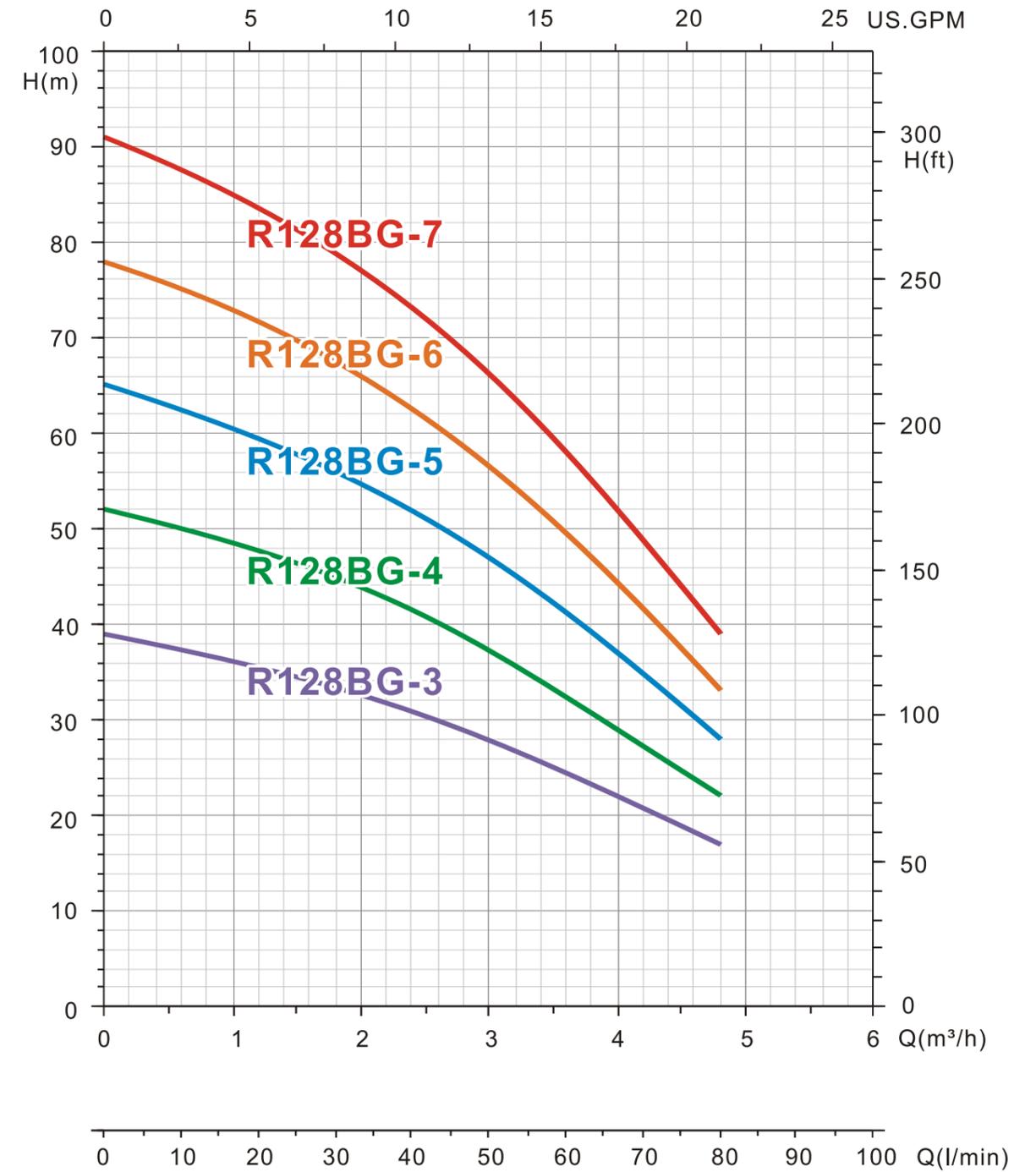
- 采用意大利双机械密封设计
- 电机设在低压的进水区, 单相电机内设有过热保护装置, GE-PPO叶轮, 导流器
- 高扬程、高效率、耐用性好, 特点是静音运行

用途 :

适合工厂、学校、小区、家庭管道中加压使用。

PERFORMANCE PARAMETER 性能参数

| Model Single phase 型号(单相) 220V 50Hz | Model Three phase 型号(三相) 380V 50Hz | Power 功率 | | Single phase 电流电容 220-240V | | | Three phase 电流 380V | Capacity流量 | | | | | | | | Outlet 出水 口径 |
|--|---|-------------|-----|----------------------------------|----|-----|------------------------------|------------|----|-----|-----|-----|----|-----|-----|--------------------|
| | | | | | | | | Q | | | | | | | | |
| | | HP | kW | A | μF | VC | A | m³/h | 0 | 1.2 | 1.8 | 2.4 | 3 | 3.6 | 4.2 | |
| R128BG-3 | R128BG-3T | 0.67 | 0.5 | 3.4 | 20 | 450 | - | L/min | 0 | 20 | 30 | 40 | 50 | 60 | 70 | 80 |
| R128BG-4 | R128BG-4T | 0.8 | 0.6 | 4.4 | 25 | 450 | 2.2 | H m | 39 | 36 | 34 | 31 | 28 | 25 | 21 | 17 |
| R128BG-5 | R128BG-5T | 1 | 0.8 | 5.4 | 30 | 450 | 2.7 | | 52 | 48 | 45 | 42 | 38 | 33 | 28 | 22 |
| R128BG-6 | R128BG-6T | 1.3 | 1 | 6.5 | 35 | 450 | 3.3 | | 65 | 60 | 56 | 52 | 47 | 41 | 35 | 28 |
| R128BG-7 | R128BG-7T | 1.6 | 1.2 | 7.4 | 35 | 450 | 3.8 | | 78 | 72 | 68 | 62 | 56 | 50 | 42 | 33 |
| | | | | | | | | | 91 | 84 | 79 | 73 | 66 | 58 | 49 | 39 |



BQ 600-4.2-27
changeable frequency water supply system
变频供水系统



Features :

- With Italian double mechanical seal design
- The motor is located in the inlet area. Single phase motor is equipped with overheat protection device inside. Stainless steel impeller, diffuser
- High head, high efficiency, good durability, characterized by ultra-static operation

Applications :

Suitable for pressurized use in factory, school, housing estate and home pipelines.

I R128KG With stainless steel impeller 不锈钢叶轮



特点 :

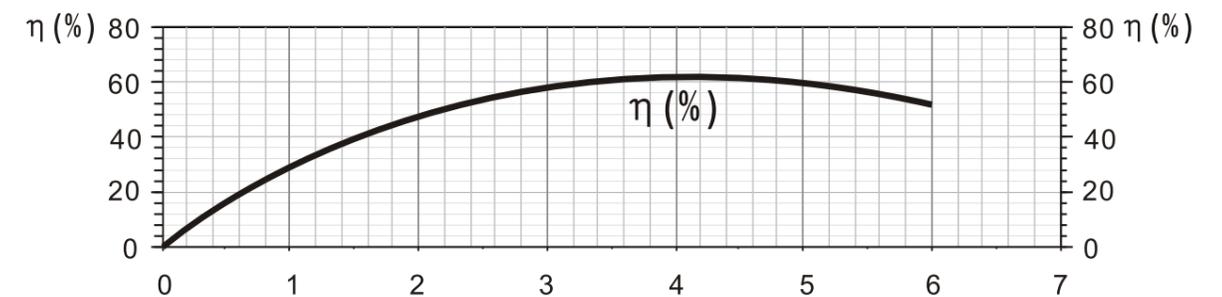
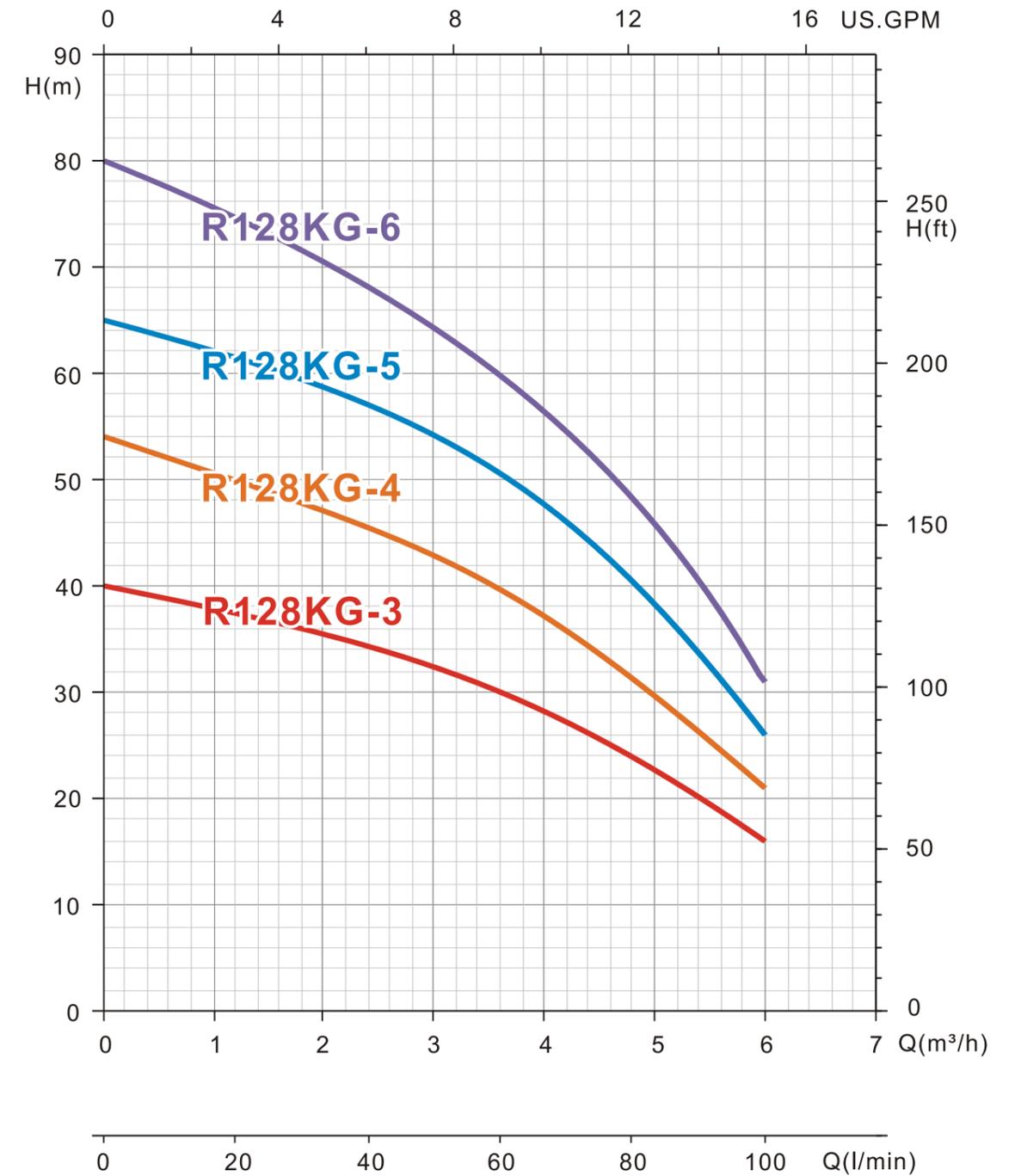
- 采用意大利双机械密封设计
- 电机设在低压的进水区, 单相电机内设有过热保护装置, 不锈钢叶轮, 导流器
- 高扬程、高效率、耐用性好, 特点是静音运行

用途 :

适合工厂、学校、小区、家庭管道中加压使用。

PERFORMANCE PARAMETER 性能参数

| Model Single phase 型号(单相) 220V 50Hz | Model Three phase 型号(三相) 380V 50Hz | Power 功率 | | Single phase 电流电容 220-240V | | | Three phase 电流 380V | Capacity流量 | | | | | | | | Outlet 出水 口径 | |
|--|---|-------------|-----|----------------------------------|----|-----|------------------------------|------------------------|-----|-----|----|-----|-----|-----|-----|--------------------|-----------------|
| | | | | | | | | Q | | | | | | | | | |
| | | HP | kW | A | μF | VC | A | m³/h | 1.8 | 2.4 | 3 | 3.6 | 4.2 | 4.8 | 5.4 | | 6 |
| R128KG-3 | R128KG-3T | 0.8 | 0.6 | 4.4 | 25 | 450 | 2.2 | L/min | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 | 30mm G1 1/4" |
| R128KG-4 | R128KG-4T | 1 | 0.8 | 5.4 | 30 | 450 | 2.7 | H m | 36 | 35 | 32 | 30 | 27 | 24 | 20 | 16 | |
| R128KG-5 | R128KG-5T | 1.3 | 1 | 6.5 | 35 | 450 | 3.3 | | 48 | 46 | 43 | 40 | 36 | 32 | 26 | 21 | |
| R128KG-6 | R128KG-6T | 1.6 | 1.2 | 7.4 | 35 | 450 | 3.8 | | 60 | 58 | 54 | 50 | 45 | 39 | 33 | 26 | |
| | | | | | | | | Total head in meters扬程 | | | | | | | | | |
| | | | | | | | | | 72 | 69 | 65 | 60 | 54 | 47 | 40 | 31 | |



Fancy Carp's Good Mate

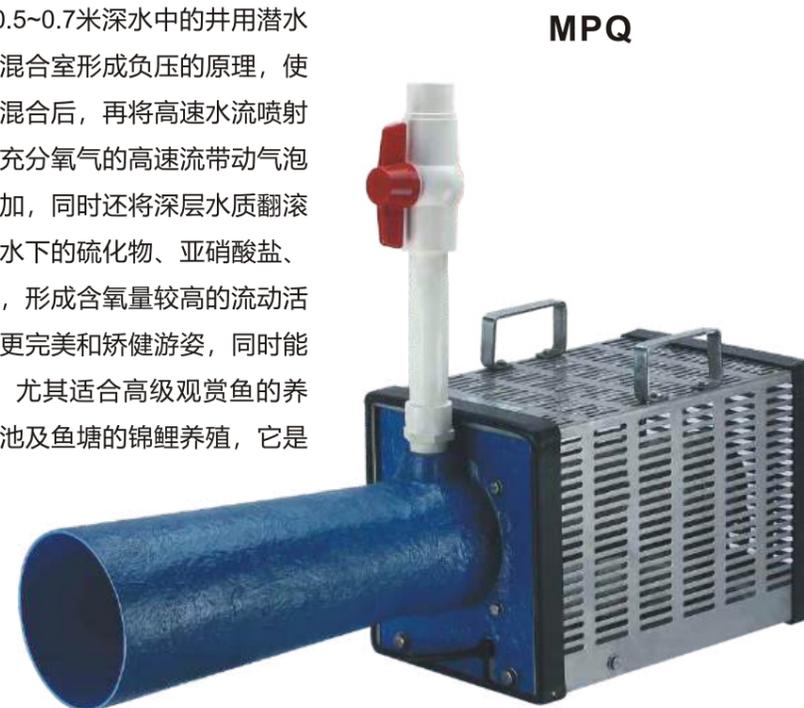
鱼池增氧推水循环泵

Ornamental Fish Pond Bubble Aerator Pump (Water Jet) uses a submersible motor placed 0.5 to 0.7 meters deep. It generates high-speed water flow through high-speed rotation of a special impeller, and forms negative pressure in the mixing chamber. After air is automatically sucked into the mixing chamber, water and air mix at high speed, generating rapid water flow and the water is jet out to a long distance, thereby circulating water in a larger area of the fish pond. The high-speed water flow aerates the surrounding water in the fish pond with ample oxygen, and increases oxygen levels even at depths. The aerator also circulates water in the bottom of the pond, pushing it up, thereby allowing sulfides, nitrites, ammonia and other harmful substances to decompose through the action of sunlight, when the water reaches the top. At the same time oxygen-rich water replaces the water in the bottom, ensuring the pond water has sufficient oxygen content, thereby being suitable for breeding koi and other fish, making the fish more active and strong, and improve their overall health. This improves pond breeding level and increases economic benefits, especially for high-end ornamental fish breeding, such as koi and other high-end ornamental fish. The Aerator Pump is a high-tech product and the first choice for all koi lovers and koi breeding specialists.

PERFORMANCE PARAMETER 性能参数

| Model 型号 | Power 功率 | Voltage 电压 | Frequency 频率 | Flow 流量 | Air intake 进气量 | Air inlet 进气口径 | Best depth 建议潜深 |
|----------|----------|------------|--------------|---------|----------------|----------------|-----------------|
| MPQ150 | 150W | 220V | 50Hz | 55m³/h | 8m³/h | 25mm | 0.3~0.7m |
| MPQ250 | 250W | 220V | 50Hz | 80m³/h | 12m³/h | 25mm | 0.3~1m |
| MPQ500 | 500W | 220V | 50Hz | 180m³/h | 28m³/h | 50mm | 0.3~1m |

鱼池气泡增氧推水机（水炮）采用潜入0.5~0.7米深水中的并用潜水电机带动特殊叶轮高速旋转产生高速水流通混合室形成负压的原理，使空气自动吸入混合器中与高速旋转水流充分混合后，再将高速水流喷射出去，推动鱼池的水远距离旋转喷流，使含充分氧气的高速流带动气泡搅拌鱼池的水翻滚，使深层水中的含氧量增加，同时还将深层水质翻滚到水面上，形成深层水质循环置换，使深层水下的硫化物、亚硝酸盐、氨氮有害物质能被大量翻滚上来被阳光分解，形成含氧量较高的流动活水，不但使养殖锦鲤鱼更加活跃强壮，体型更完美和矫健游姿，同时能提高鱼池的养殖密度，增加主人经济效益，尤其适合高级观赏鱼的养殖，例如家庭别墅的锦鲤鱼池、公共观赏鱼池及鱼塘的锦鲤养殖，它是锦鲤爱好者和养殖专业户首选的新科技产品。



MPQ

Features :

- Adopts new deep submersible pump motor technology, special mixed flow jet mechanism, strong water jet capacity, can jet out water up to 8 meters, increases water flow, and has long service life.
- Promote koi to be more active and strong, makes fish healthier with better body and skin texture, and enhances the fishes' elegance as they swim.
- Improve pond breeding level and increases economic benefits.
- Energy-saving, low noise, large water column and oxygen mixing capacity, highly suitable for fish growth.
- The motor adopts 304 material shell, which is suitable for aquaculture. If using it in seawater, 316L motor casing is required.



MPQ(B)

特点：

- 采用全新深井泵电机技术，特殊的混流推水机构，推水能力强，能将池水推8米远，增强水流动性，使用寿命长。
- 能促进锦鲤鱼更加活跃强壮结实，体型更完美健康，游泳姿势更美。
- 能提高鱼池的养殖密度，增加养殖户经济效益。
- 节能、低噪音、水柱混气氧融量大，适合鱼生长。
- 电机采用304材料外壳，适合于水产养殖。如果用于海水，需用316L材料电机外壳。



MPQ250C

Used for fish circulation, energy saving and high flow
鱼池循环 省电大流量

MSA370



Features :

- Double mechanical seals imported from Italy with high quality abrasion resistant graphite and ceramics
- Made of 316L corrosion-resistant stainless steel pump shaft, 304 stainless steel motor housing, pump housing and other superior materials
- The motor is equipped with overheating protection device
- It has the advantages of small power, large flow, 24-hour continuous operation, energy saving and good durability, low noise, easy installation and beautiful appearance

Applications :

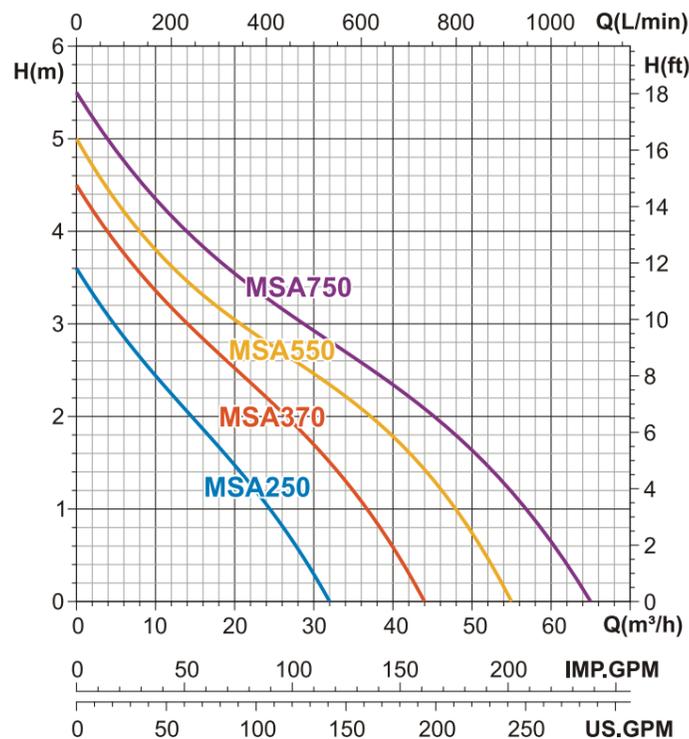
Especially suitable for large flow circulation water of mariculture industry and ornamental fish pond , especially good for koi.

特点 :

- 选用陶瓷对石墨优质耐磨材料的意大利双机械密封件
- 采用316L 耐腐蚀不锈钢泵轴, 304 不锈钢电机壳、泵壳等特优材料制成
- 电机内设有过热保护装置
- 具有功率小、流量大、可24 小时连续工作、省电耐用、低噪音、易安装、外型美观等优点

用途 :

特别适用于海水养殖行业、观赏鱼池大流量循环过滤水使用, 名贵锦鲤的福星。



PERFORMANCE PARAMETER 性能参数

| Model 型号 50Hz | Power 功率 | | Voltage 电压 V | Rotation 极数/转速 P/rpm | Max Flow 最大流量 m³/h | Max Head 最高扬程 m | Outlet 出水口径 mm |
|------------------|----------|-----|-----------------|----------------------------|--------------------------|-----------------------|----------------------|
| | W | HP | | | | | |
| * MSA 250 | 250 | 1/3 | 220/280 | 2P/2850 | 32 | 3.6 | 100(75) |
| MSA 370 | 370 | 1/2 | 220/280 | 2P/2850 | 44 | 4.5 | 100(75) |
| * MSA 550 | 550 | 3/4 | 220/280 | 2P/2850 | 55 | 5 | 100(75) |
| * MSA 750 | 750 | 1 | 220/280 | 2P/2850 | 65 | 5.5 | 100(75) |

Under development products will be marked "**". 标识 * 为待开发产品型号

Used for fish circulation, energy saving and high flow
鱼池循环 省电大流量



Features :

- Double mechanical seals imported from Italy with high quality abrasion resistant graphite and ceramics
- Made of 316L corrosion-resistant stainless steel pump shaft, 304 stainless steel motor housing, pump housing and other superior materials
- The motor is equipped with overheating protection device
- It has the advantages of small power, large flow, 24-hour continuous operation, energy saving and good durability, low noise, easy installation and beautiful appearance

Applications :

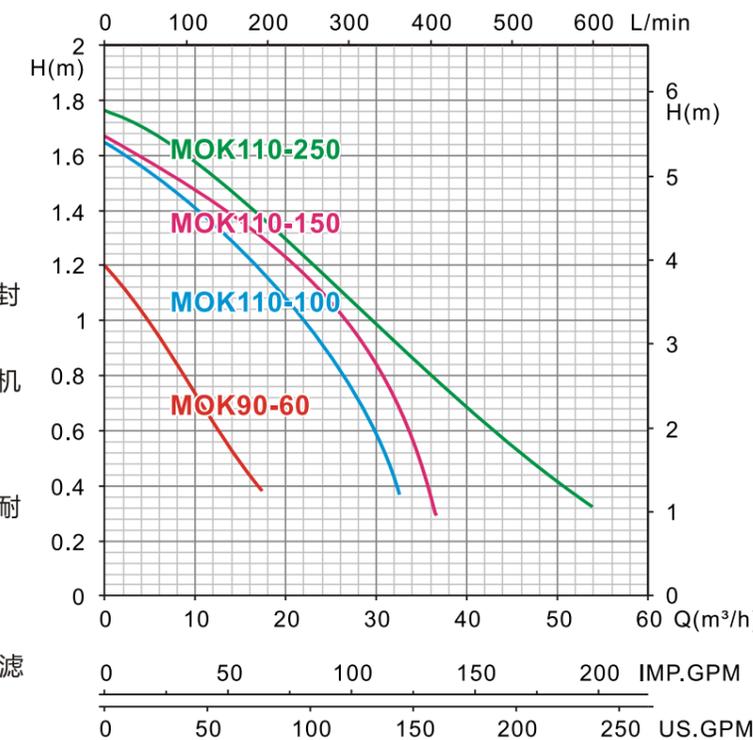
Especially suitable for large flow circulation water of mariculture industry and ornamental fish pond , especially good for koi.

特点 :

- 选用陶瓷对石墨优质耐磨材料的意大利双机械密封件
- 采用316L 耐腐蚀不锈钢泵轴, 304 不锈钢电机壳、泵壳等特优材料制成
- 电机内设有过热保护装置
- 具有功率小、流量大、可24 小时连续工作、省电耐用、低噪音、易安装、外型美观等优点

用途 :

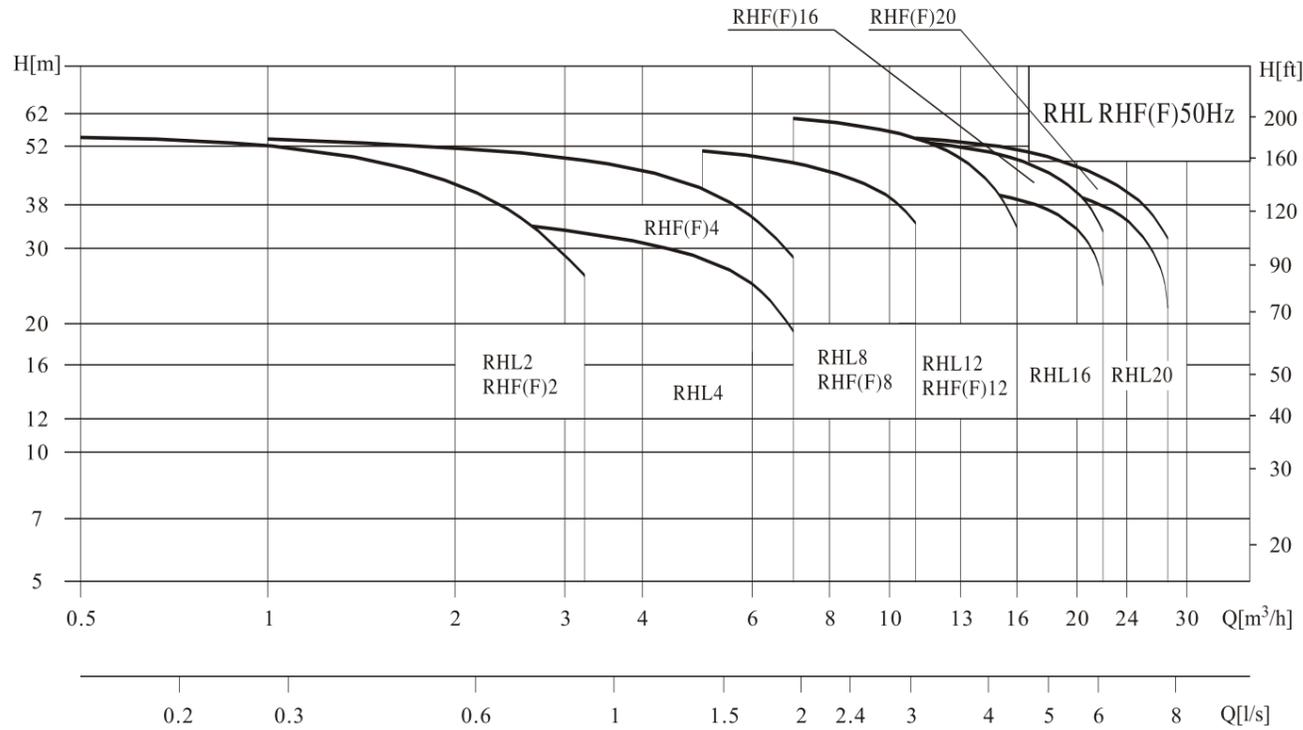
特别适用于海水养殖行业、观赏鱼池大流量循环过滤水使用, 名贵锦鲤的福星。



PERFORMANCE PARAMETER 性能参数

| Model 型号 50Hz | Power 功率 | | Voltage 电压 V | Rotation 极数/转速 P/rpm | Max Flow 最大流量 m³/h | Max Head 最高扬程 m | Outlet 出水口径 mm |
|------------------|----------|------|-----------------|----------------------------|--------------------------|-----------------------|----------------------|
| | W | HP | | | | | |
| MOK 90-60 | 60 | 1/12 | 220/240 | 4P/1450 | 23 | 1.2 | 90(75) |
| MOK 110-100 | 100 | 1/8 | 220/240 | 4P/1450 | 30 | 1.6 | 110(75) |
| MOK 110-150 | 150 | 1/5 | 220/240 | 4P/1450 | 45 | 1.7 | 110(75) |
| MOK 110-250 | 250 | 1/3 | 220/240 | 4P/1450 | 50 | 1.6 | 110(75) |

PERFORMANCE CURVE 性能曲线



PERFORMANCE PARAMETER 性能参数

| Key parameter 主要参数 | | RHL2 | RHL4 | RHL8 | RHL12 | RHL16 | RHL20 |
|----------------------|------|-----------|-----------|----------|---------|---------|---------|
| Rated flow 额定流量 | m³/h | 2 | 4 | 8 | 12 | 16 | 20 |
| Rated flow 额定流量 | L/s | 0.56 | 1.1 | 2.2 | 3.3 | 4.4 | 5.6 |
| Flow range 流量范围 | m³/h | 0.6~3.2 | 1~7 | 5~11 | 7~16 | 8~22 | 10~28 |
| Flow range 流量范围 | L/s | 0.17~0.89 | 0.28~1.9 | 1.39~3 | 1.9~4.4 | 2.2~6.1 | 2.8~7.8 |
| Max.pressure 最大压力 | bar | 5.3 | 3.7 | 5 | 6 | 3.9 | 3.9 |
| Motor power 电机功率 | kW | 0.37~0.75 | 0.37~0.75 | 0.75~2.2 | 1.2~3 | 2.2~3 | 2.2~4 |
| Temp.Range 温度范围 | °C | -15~105 | | | | | |
| Max.efficiency 最高效率 | % | 46 | 58 | 62 | 63 | 66 | 69 |
| Threaded joint 管螺纹连接 | | | | | | | |
| Water outlet 出水口 | | Rp1 | Rp1 | Rp2 | Rp2 | Rp2 | Rp2 |
| Water inlet 进水口 | | Rp1 | Rp1 1/4 | Rp2 | Rp2 | Rp2 | Rp2 |

| Key parameter 主要参数 | | RHF(F)2 | RHF(F)4 | RHF(F)8 | RHF(F)12 | RHF(F)16 | RHF(F)20 |
|----------------------|------|-----------|----------|----------|----------|----------|----------|
| Rated flow 额定流量 | m³/h | 2 | 4 | 8 | 12 | 16 | 20 |
| Rated flow 额定流量 | L/s | 0.56 | 1.1 | 2.2 | 3.3 | 4.4 | 5.6 |
| Flow range 流量范围 | m³/h | 0.6~3.2 | 1~7 | 5~11 | 7~16 | 8~22 | 10~28 |
| Flow range 流量范围 | L/s | 0.17~0.89 | 0.28~1.9 | 1.39~3 | 1.9~4.4 | 2.2~6.1 | 2.8~7.8 |
| Max.pressure 最大压力 | bar | 5.3 | 5.6 | 5 | 6 | 5.3 | 5.3 |
| Motor power 电机功率 | kW | 0.37~0.75 | 0.37~1.1 | 0.75~2.2 | 1.2~3 | 2.2~4 | 2.2~4.4 |
| Temp.Range 温度范围 | °C | -15~105 | | | | | |
| Max.efficiency 最高效率 | % | 46 | 58 | 62 | 63 | 66 | 69 |
| 管螺纹连接 Threaded joint | | | | | | | |
| Water outlet 出水口 | | Rp1 | Rp1 | Rp1 1/4 | Rp1 1/2 | Rp2 | Rp2 |
| Water inlet 进水口 | | Rp1 | Rp1 1/4 | Rp1 1/2 | Rp1 1/2 | Rp2 | Rp2 |

Model description 型号含义

RHL2/4/8/12/16/20

RHL 4 - 40

Series/number of impeller x10
级数/叶轮数x10
Rated flow(m³/h)
额定流量(m³/h)
Horizontal multi-stage centrifugal pump
(flow passage component made of Ss304 or 316L)
卧式多级离心泵(过流件为304/316L不锈钢)

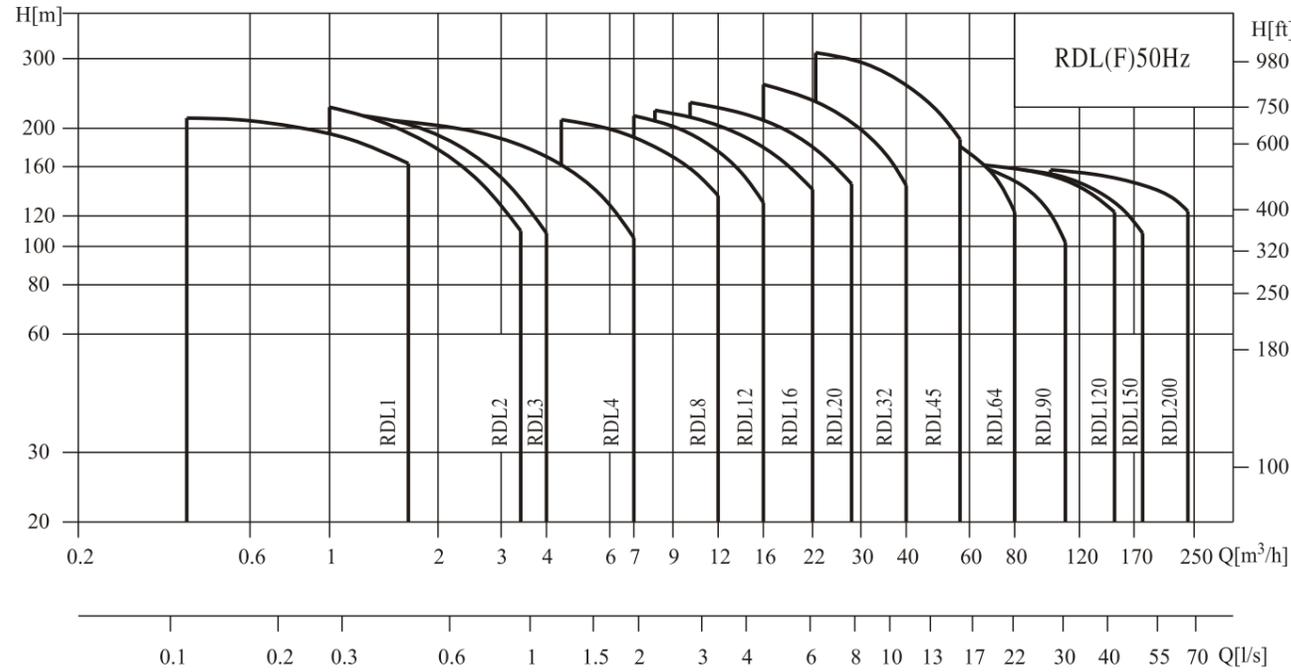
RHF,RHFF2/4/8/12/16/20

RHL F 8 - 30

Series/number of impeller x10
级数/叶轮数x10
Rated flow(m³/h)
额定流量(m³/h)
Water inlet/outlet cast iron seat
(stainless steel not indicated)
进出水体不锈钢(铸铁型略)
Horizontal(sectional type)
multi-stage centrifugal pump
卧式(节段式)多级离心泵



PERFORMANCE CURVE 性能曲线



PERFORMANCE PARAMETER 性能参数

| Key parameter 主要参数 | | RDL1 | RDL2 | RDL3 | RDL4 | RDL8 | RDL12 | RDL16 | RDL20 |
|----------------------|------|----------|-----------|----------|----------|----------|---------|---------|----------|
| Rated flow 额定流量 | m³/h | 1 | 2 | 3 | 4 | 8 | 12 | 16 | 20 |
| Rated flow 额定流量 | L/s | 0.28 | 0.56 | 0.83 | 1.1 | 2.2 | 3.3 | 4.4 | 5.6 |
| Flow range 流量范围 | m³/h | 0.4~1.8 | 1~3.5 | 1.2~4 | 1.5~7 | 5~12 | 7~16 | 8~22 | 10~28 |
| Flow range 流量范围 | L/s | 0.11~0.5 | 0.28~0.97 | 0.33~1.1 | 0.42~1.9 | 1.39~3.3 | 1.9~4.4 | 2.2~6.1 | 2.8~7.8 |
| Max. pressure 最大压力 | bar | 21 | 23 | 22 | 21 | 21 | 22 | 22 | 23 |
| Motor power 电机功率 | kW | 0.37~2.2 | 0.37~3 | 0.37~3 | 0.37~4 | 0.75~7.5 | 1.5~11 | 2.2~15 | 1.1~18.5 |
| Temp. Range 温度范围 | °C | -15~105 | | | | | | | |
| Max. efficiency 最高效率 | % | 44 | 46 | 54 | 58 | 62 | 63 | 66 | 69 |

| RDL Pipe connection RDL管路连接 | | | | | | | | | |
|-------------------------------|-----------|-----------|-----------|-----------|-------|-------|-------|-------|-------|
| DIN Flange DIN法兰 | DN25 | DN25 | DN25 | DN32 | DN40 | DN50 | DN50 | DN50 | DN50 |
| Pipe thread 管螺纹 | R, 1 1/4" | R, 1 1/4" | R, 1 1/4" | R, 1 1/4" | R, 2" |
| Joint connector 卡套接头 | DN32 | DN32 | DN32 | DN32 | DN50 | DN50 | DN50 | DN50 | DN50 |
| RDLF Pipe connection RDLF管路连接 | | | | | | | | | |
| DIN Flange DIN法兰 | DN25 | DN25 | DN25 | DN25 | DN40 | DN50 | DN50 | DN50 | DN50 |



| Key parameter 主要参数 | | RDL32 | RDL45 | RDL64 | RDL90 | RDL120 | RDL150 | RDL200 |
|----------------------|------|---------|----------|-------|--------|--------|--------|----------|
| Rated flow 额定流量 | m³/h | 32 | 45 | 64 | 90 | 120 | 150 | 200 |
| Rated flow 额定流量 | L/s | 8.9 | 12.5 | 17.8 | 25 | 33.3 | 41.7 | 55.6 |
| Flow range 流量范围 | m³/h | 16~40 | 25~55 | 30~80 | 50~110 | 60~150 | 80~180 | 100~240 |
| Flow range 流量范围 | L/s | 4.4~11 | 6.9~15.3 | 8~22 | 14~30 | 17~42 | 22~50 | 28~67 |
| Max. pressure 最大压力 | bar | 26 | 30 | 22 | 17 | 16 | 16 | 16 |
| Motor power 电机功率 | kW | 1.5~30 | 3~45 | 4~45 | 5.5~45 | 11~75 | 11~75 | 18.5~110 |
| Temp. Range 温度范围 | °C | -15~105 | | | | | | |
| Max. efficiency 最高效率 | % | 74 | 75 | 76 | 77 | 74 | 73 | 79 |
| Threaded joint 管螺纹连接 | | | | | | | | |
| Water outlet 出水口 | | DN65 | DN80 | DN100 | DN100 | DN125 | DN125 | DN150 |

Model description 型号含义

RDL, RDLF1/2/3/4/8/12/16/20

RDL F 8 - 120

Series/number of impeller x10
级数/叶轮数x10
Rated flow(m³/h)
额定流量(m³/h)
Stainless steel not indicated
(Without F is C.I.INLET&OUTLET SEAT)
不锈钢(无F进出水体是铸铁)
Vertical multi-stage centrifugal pump
立式多级离心泵

RDL, RDLF32/45/64/90/120/150

RDL F 64 - 50 - 2

小叶轮数Quantity of small impellers
级数x10 Series x10
额定流量(m³/h)
Rated flow(m³/h)
不锈钢(无F进出水体是铸铁)
Stainless steel not indicated
(Without F is C.I.INLET&OUTLET SEAT)
立式多级离心泵
Vertical multi-stage centrifugal pump

RDL, RDLF200

RDL F 200 - 30 - A - B

1个小叶轮B Small impeller B 1pc
1个小叶轮A Small impeller A 1pc
级数x10 Series x10
额定流量(m³/h)
Rated flow(m³/h)
不锈钢(无F进出水体是铸铁)
Stainless steel not indicated
(Without F is C.I.INLET&OUTLET SEAT)
立式多级离心泵
Vertical multi-stage centrifugal pump



Model R128 variable frequency water supply system consists of five sections: air pressure tank, water pump, pressure gage, control valve and variable frequency controller.

Its distinct advantages:

1. Unnecessary to build water tower, small investment, economic space occupation, convenient and flexible arrangement, fast installation and put into operation.
2. Adopt variable frequency automatic adjust and control, which fully manifests the system's features of energy and power saving.

Applications :

It widely applies to water supply for manufacturing, living and office in enterprises, residential areas and rural areas.



R128型变频供水系统，一般设在地面或地下室。有自来水的单位，使用该设备可以调节高峰用水量，增加水压，能在高峰用水时，满足大面积用水和高楼层用水。没自来水的单位、工厂或农村，只需将该设备接通水源电源，即可得到稳定的水量水压，满足用水需要。

用途：

广泛应用于企业单位、住宅区及农村的生产、生活、办公供水。

BP 600-4.2-27

Rated head 额定扬程

Rated flow 额定流量

Power 功率

System identification 系统标识

PERFORMANCE PARAMETER 性能参数

| Model 型号 50Hz | Power 功率 | | Single phase 电流电容 220-240V | | | Three phase 电流 380V | Q | Capacity 流量 | Outlet 出水 口径 |
|------------------|----------|-----|-------------------------------|----|-----------------|------------------------|-------------------|-------------|-----------------|
| | HP | kW | A | μF | V _{ac} | | m ³ /h | 4.2 | |
| | | | | | | | L/min | 70 | |
| | | | | | | | Head 扬程 | | |
| BP600-4.2-27 | 0.8 | 0.6 | 4.4 | 20 | 450 | 2.2 | H m | 27 | 30mm G1 1/4" |
| BP800-4.2-36 | 1 | 0.8 | 5.4 | 25 | 450 | 2.7 | | 36 | |
| BP1000-4.2-45 | 1.3 | 1 | 6.5 | 30 | 450 | 3.3 | | 45 | |
| BP1200-4.2-54 | 1.6 | 1.2 | 7.4 | 35 | 450 | 3.8 | | 54 | |

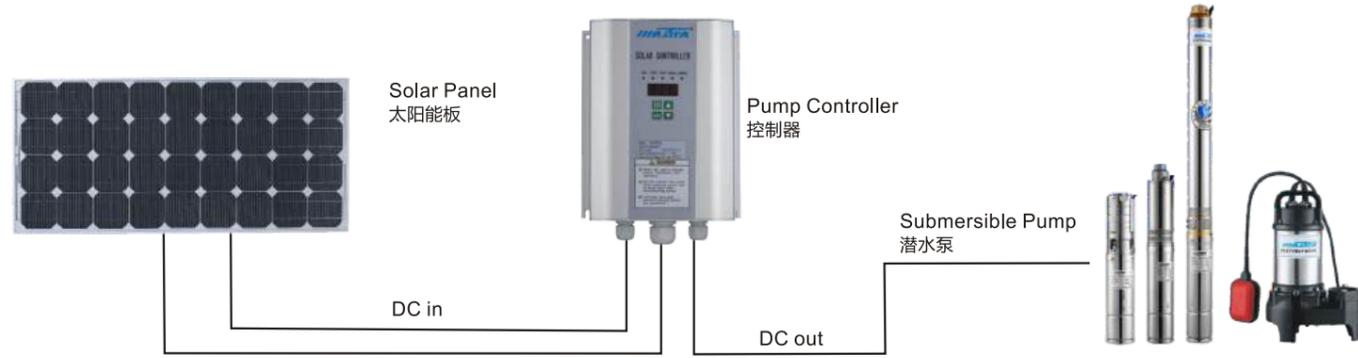


Applications :

Single phase controller up to 2.2kw with built-in capacitor. Three phase Direct-On-Line starting controller for up to 15kw. Easy operating, 24-hours duty, labor saving and energy saving. Great benefit under correct operation.

适用范围：

本产品有2.2KW以下电容运转的配单相电动机的控制器，15KW以下可配直接启动三相电动机的控制器。此产品由水位全自动24小时控制，使用操作简便、省工、减少电能和水资源的浪费，正确使用，效益显著。



Features :

The pump driven by a DC motor, draws water from wells or rivers, then pours water into the reservoir, storage tank or directly to irrigation systems and fountain systems. Based on the requirements and installation conditions, Screw pump and multistage impeller pump can be used.

In solar pumping systems, pump selection is essential, which directly affects the economy and stability of the whole system. Submersible pumps which have widely application and speed-regulating range, are common in solar pumping systems, it can increase working time and water flow rate of the solar pumping system. If the users require low head and high water flow, can choose multistage impeller pump, while they require high head and low water flow can be chosen screw pumps.

特点 :

潜水泵由直流电机驱动，从深井或江河湖泊等水源中抽水，送入蓄水箱/池，或直接接入灌溉系统以及喷泉系统等。根据实际系统需求和安装条件，可配螺杆泵、多级叶轮泵使用。

在光伏扬水系统中，水泵的选择至关重要，它直接影响整个系统的经济性和稳定性。光伏扬水系统中最常用的是潜水泵，具有应用范围广，调速范围宽的特点，可以增加光伏扬水系统每天的工作时间和出水量；低扬程、大流量的需求用户可以选择多级叶轮潜水泵；高扬程、小流量的用户可选择潜水螺杆泵。



| Model 型号 | Motor Power 电机功率 | | Voltage 电压 | Max Flow 最大流量 | Max Head 最高扬程 | Outlet 出水口径 | ΦMax |
|--------------------------------|------------------|------|------------|---------------|---------------|-------------|-------|
| | HP | kW | | | | | |
| 4MHC(4SP5-01)-8-8-24/250 | 0.33 | 0.25 | 24 | 8 | 8 | G1 1/2" | 100mm |
| 4MHC(4SP5-02)-8-14-24/250 | 0.33 | 0.25 | 24 | 8 | 14 | | |
| 4MHC(4SP5-04)-8-44-48/500 | 0.67 | 0.5 | 48 | 8 | 44 | | |
| 4MHC(4SP8-02)-13-21-48/500 | 0.67 | 0.5 | 48 | 13 | 21 | G2" | |
| 4MHC(4SP8-03)-13-31-110/750 | 0.67 | 0.75 | 110 | 13 | 31 | | |
| 4MHC(4SP8-04)-13-34-110/1100 | 1.5 | 1.1 | 110 | 13 | 34 | | |
| 4MHC(4SP14-02)-15-18-110/1100 | 1.5 | 1.1 | 110 | 15 | 18 | | |
| 4MHC(4SP14-03)-15-28-110/1100 | 1.5 | 1.1 | 110 | 15 | 28 | G2 1/2" | |
| 4MHC(5SP20-01)-28-15-110/1100 | 1.5 | 1.1 | 110 | 28 | 15 | | |
| 3MHR-1.3-73-36/200 | 0.26 | 0.2 | 36 | 1.3 | 73 | G1" | |
| 3MHR-1.8-73-36/300 | 0.4 | 0.3 | 36 | 1.8 | 73 | | |
| 3MHC(T09)-3.7-34-36/300 | 0.4 | 0.3 | 36 | 3.7 | 34 | | |
| 3MHR-2.2-80-48/400 | 0.53 | 0.4 | 48 | 2.2 | 80 | | |
| 3MHC(T15)-3.7-57-48/400 | 0.53 | 0.4 | 48 | 3.7 | 57 | | |
| 4MHR-2.2-80-48/400 | 0.53 | 0.4 | 48 | 2.2 | 80 | | |
| 4MHC(VC03)-7.2-25-48/400 | 0.53 | 0.4 | 48 | 7.2 | 25 | | |
| 3MHR-2.8-85-48/500 | 0.67 | 0.5 | 48 | 2.8 | 85 | G1" | 75mm |
| 4MHR-2.6-85-48/500 | 0.67 | 0.5 | 48 | 2.6 | 85 | | 100mm |
| 3MHC(T18)-3.7-69-48/500 | 0.67 | 0.5 | 48 | 3.7 | 69 | | 75mm |
| 4MHC(S06)-3.2-59-48/500 | 0.67 | 0.5 | 48 | 3.2 | 59 | G1 1/2" | 100mm |
| 4MHC(A05)-5.2-47-48/500 | 0.67 | 0.5 | 48 | 5.2 | 47 | | |
| 4MHC(BF03)-8.4-23-48/500 | 0.67 | 0.5 | 48 | 8.4 | 23 | | |
| 4MHC(VC04)-7.2-33-48/500 | 0.67 | 0.5 | 48 | 7.2 | 33 | | |
| 4MHR-2.3-132-48/600 | 0.8 | 0.6 | 48 | 2.3 | 132 | | |
| 4MHC(S07)-3.2-69-48/600 | 0.8 | 0.6 | 48 | 3.2 | 69 | | |
| 4MHC(A06)-5.2-54-48/600 | 0.8 | 0.6 | 48 | 5.2 | 54 | | |
| 4MHC(VC05)-7.2-43-48/600 | 0.8 | 0.6 | 48 | 7.2 | 43 | | |
| 4MHC(BF04)-8.4-30-48/600 | 0.8 | 0.6 | 48 | 8.4 | 30 | | |
| 4MHR-2.7-170-110/750 | 1 | 0.75 | 110 | 2.7 | 170 | | |
| 4MHC(VC06)-7.2-53-110/750 | 1 | 0.75 | 110 | 7.2 | 53 | | |
| 4MHC(BF05)-8.4-38-110/750 | 1 | 0.75 | 110 | 8.4 | 38 | | |
| 4MHC(4SP2-13)-4.2-91-110/750 | 1 | 0.75 | 110 | 4.2 | 91 | | |
| 4MHC(S22)-3.2-223-110/1500 | 2 | 1.5 | 110 | 3.2 | 223 | | |
| 4MHC(A08)-5.2-73-110/1100 | 1.5 | 1.1 | 110 | 5.2 | 73 | | |
| 4MHC(VC08)-7.2-68-110/1100 | 1.5 | 1.1 | 110 | 7.2 | 68 | | |
| 4MHC(BF07)-8.4-57-110/1100 | 1.5 | 1.1 | 110 | 8.4 | 57 | | |
| 4MHC(4SP2-18)-4.5-124-110/1100 | 1.5 | 1.1 | 110 | 4.5 | 124 | | |
| 4MHR-2.2-320-110/1500 | 2 | 1.5 | 110 | 2.2 | 320 | | |
| 4MHC(S14)-3.2-141-110/1100 | 1.5 | 1.1 | 110 | 3.2 | 141 | | |
| 4MHC(A12)-5.2-112-110/1500 | 2 | 1.5 | 110 | 5.2 | 112 | | |
| 4MHC(VC11)-7.2-89-110/1500 | 2 | 1.5 | 110 | 7.2 | 89 | | |
| 4MHC(BF09)-8.4-70-110/1500 | 2 | 1.5 | 110 | 8.4 | 70 | | |
| 4MHC(4SP3-18)-5.9-130-110/1500 | 2 | 1.5 | 110 | 5.9 | 130 | | |
| 4MHC(4SP5-12)-7.2-90-110/1500 | 2 | 1.5 | 110 | 7.2 | 90 | | |