

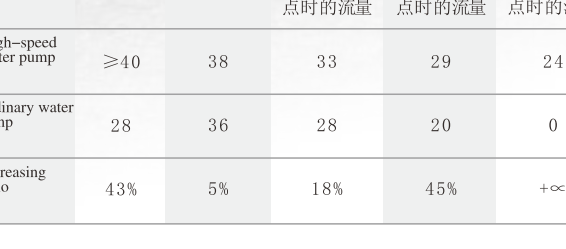
Power solution for you!

RT50ZB40-3.8Q

1 Parameter comparing to ordinary water pump

Pump performance	Max no-load speed(r/min)	Working speed (r/min)	Max head lift (m)	Max discharge capacity(m ³ /h)	Max suction head(m)
High-speed water pump	4800	4400	40	38	8
Ordinary water pump	3800	3600	26	36	8

2 Performance characteristic curve comparing



3 Comparative analysis of performance characteristics of high-speed water pump and ordinary clean water pump

High-speed water pump is based on the structure of the ordinary water pump. It improves the pump's performance by improving engine speed and the optimal design of the pump impeller. The advantages of the pump head lift and flow compared with ordinary clean water pump are very obvious. The high-speed water pump is on the entire lift section. (0-40m) has continuous and efficient flow characteristics, and the performance improvement ratio is as follows.

Pump performance	Max head lift (m)	Discharge capacity(m ³ /h)	Capacity at 12m lift point (m ³ /h) 12m扬程点时的流量	Capacity at 20m lift point (m ³ /h) 20m扬程点时的流量	Capacity at 28m lift point (m ³ /h) 28m扬程点时的流量
High-speed water pump	≥40	38	33	29	24
Ordinary water pump	28	36	28	20	0
Increasing ratio	43%	5%	18%	45%	+∞

4 Comparative analysis of performance characteristics of high-speed water pump and high lift water pump

High-lift pump improve the pump lift by changing the impeller structure and reducing the flow. Although high-speed pumps have no advantage in terms of lift compare to high-lift pumps, they have an absolute advantage in flow characteristics when narrowing the lift advantage of high lift pump. Since the impeller and volute structure of the high-speed water pump are the same as the ordinary clean water pump, the passability is better, and the water quality is not as strict as the high-lift pump. The application range of the high-speed water pump is wider, and the performance comparing to the ordinary high-lift pump is as follows.

Pump performance	Max head lift (m)	Discharge capacity(m ³ /h)	Capacity at 20m lift point (m ³ /h) 20m扬程点时的流量	Capacity at 30m lift point (m ³ /h) 30m扬程点时的流量	Water quality requirement
High-speed water pump	≥40	38	29	23	Common
High-lift pump	50	30	23	17	High
Increasing ratio	-20%	27%	26%	35%	/

5 High-speed pump is widely used



Due to the improved pump lift, the high-speed water pump is not only suitable for all the use environments of ordinary pumps in the existing market, but also more practical in mountainous, hilly, terraced and orchard areas; It can replace high value fire pump of fire-fighting operation in low urban buildings, shrub forests; Pump impeller and spiral casing have good passability, and at the same time, design a ring of tongue on the pump base surface to block particles, water grass, rags and other impurities from entering the mechanical seal chamber, and protect the mechanical seal and other vulnerable parts from Injury, the pump has the relevant characteristics of the semi-sewage pump, and can be applied to urban areas, fish pond irrigation and other areas with poor water quality and so on.

6 Good intensity and longer life time

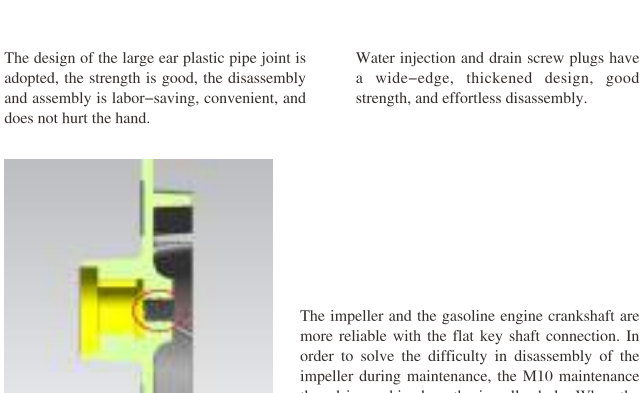
High-speed water pump has taken a number of measures to improve the reliability and life of the pump.

In the position of the gasoline engine and the frame connection, a distinctive shock absorbing mechanism is designed to reduce the vibration caused by the increase of the rotational speed, and the vibration effect of the whole machine is equivalent to that of the ordinary water pump.

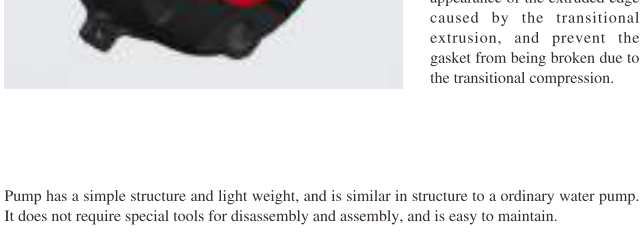


Pump body adopts the characteristic turtle shell design and has excellent material selection. Wall thickness is scientifically calculated, has good pressure bearing effect, and through the pump body burst pressure test and pump body pressure bearing capacity is the working pressure more than 2 times.

Spiral casing and the pump base adopt the "one-hole double fork" positioning mode, the contact surface of casing and pump base is enlarged, and casing fixing is very reliable, avoiding contacting wear caused by the poor positioning of the casing. Greatly reduce the market defect rate and reduce the maintenance cost.



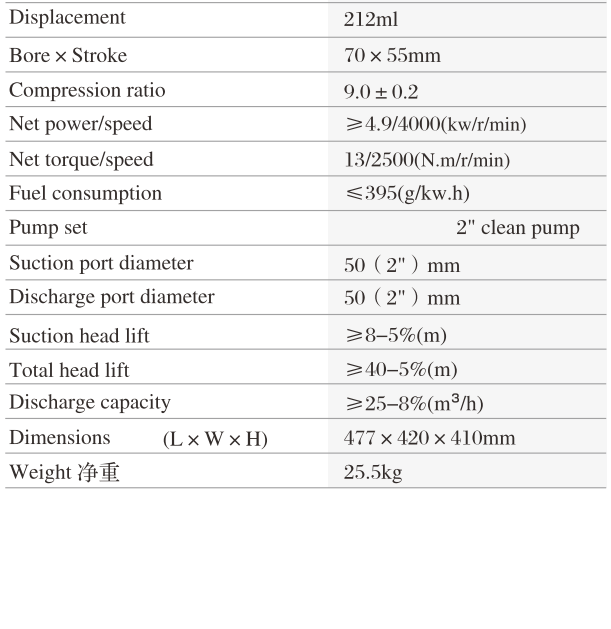
The pump impeller was subjected to repeated theoretical calculations, blade design, and bottom testing to select the optimal solution. The pump impeller has good anti-cavitation and excellent comprehensive performance. The pump has a long service life and can maintain the best performance of the pump for a long time.



Pump inlet and outlet gasket are all installed in a submerged manner, which can prevent the appearance of the extruded edge caused by the transitional extrusion, and prevent the gasket from being broken due to the transitional compression.

Pump has a simple structure and light weight, and is similar in structure to an ordinary water pump. It does not require special tools for disassembly and assembly, and is easy to maintain.

RT50ZB40-3.8Q High-speed water pump



Specification	RT50ZB40-3.8Q
Engine	R210-V
Engine type	Single cylinder, 4-stroke(OHV)
Starting system	Recoil starter
Displacement	212ml
Bore × Stroke	70 × 55mm
Compression ratio	9.0 ± 0.2
Net power/speed	≥ 4.9/4000(kw/r/min)
Net torque/speed	13/2500(N.m/r/min)
Fuel consumption	≤ 395(g/kw.h)
Pump set	2" clean pump
Suction port diameter	50 (2") mm
Discharge port diameter	50 (2") mm
Suction head lift	≥ 8-5%(m)
Total head lift	≥ 40-5%(m)
Discharge capacity	≥ 25-8%(m ³ /h)
Dimensions (L × W × H)	477 × 420 × 410mm
Weight 净重	25.5kg