

Hefei Huayun Machinery Manufacturing Co., Ltd.

Founded in 1990s, Hefei Huayun Machinery is a large professional manufacturer specializing in designing, production, sales of peristaltic hose pump, Water supply equipment and pumping control equipment and Integrated large-scale pump. Till now we had served over 800 customers from China and overseas. Currently, The peristaltic hose pump series with independent intellectual property rights have been developed. The hose pump has the ability to transport strong abrasive media, and transports gas-containing fluids and foam fluids without air resistance. It is also a strength to deliver high-viscosity, shear-sensitive media. Used in gold smelting, non-ferrous smelting, chemical, mining, food processing, brewing, ceramics, water treatment and other industries. In the pasted years, Huayun has become the biggest China manufacturer of peristaltic hose pump and self-pumping equipment, with the creed "Serve the world with high quality", we are looking forward to becoming your trusted partner.



Our professional engineers can choose a hose pump that suits you best.
For more product information, please visit the electronic catalogs on our website:
www.hospump.com

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HUAYUN PERISTALTIC HOSE PUMP

Ingenious design Quality based

Inspect the all parts only for a good pump

100%
CUSTOMER
SATISFACTION



Huayun Machinery always adheres to the principle of "Quality Service to the World", insists on the position and requirement from customers, and provides customers with professional consulting and quality products through profound understanding of relevant professional technologies and practical experience of a large number of projects.

Save time and costs

- 01 Volume + precision 1%, maximum working pressure can reach 1.6mpa;
- 02 Hefei Huayun's hose pump can run with dry condition, allowing forward and reverse rotation without causing any abnormal damage;
- 03 The true sense of the self-priming pump does not require a single irrigation for the pump before start, self-priming capacity is as high as 9.5 meters (water);
- 04 No need for any expensive auxiliary equipment, dispense with check valve, dispense with static and dynamic sealing of any kind;
- 05 Hefei Huayun hose pump is the most rational device for conveying highly viscous and high shear sensitive products;
- 06 Easy to maintain, only need to replace the special Huayun hose, simple replacement, short downtime;
- 07 Hefei Huayun Hose Pump has up to 17 international patents, obtained ISO9001 quality management system, and obtained CE certification.
- 08 Efficient transfer of corrosive materials, strong acid and alkali materials, any form of fluid(Gaseous, liquid), as efficient as delivery water.

“ Hefei Huayun Hose Pumps with excellent performance can be adapted to very harsh environments compared to other conventional volumetric pumps that require costly maintenance, such as diaphragm pumps, rotary lobe rotor pumps, and progressive cavity pumps. ”

Simplification Design

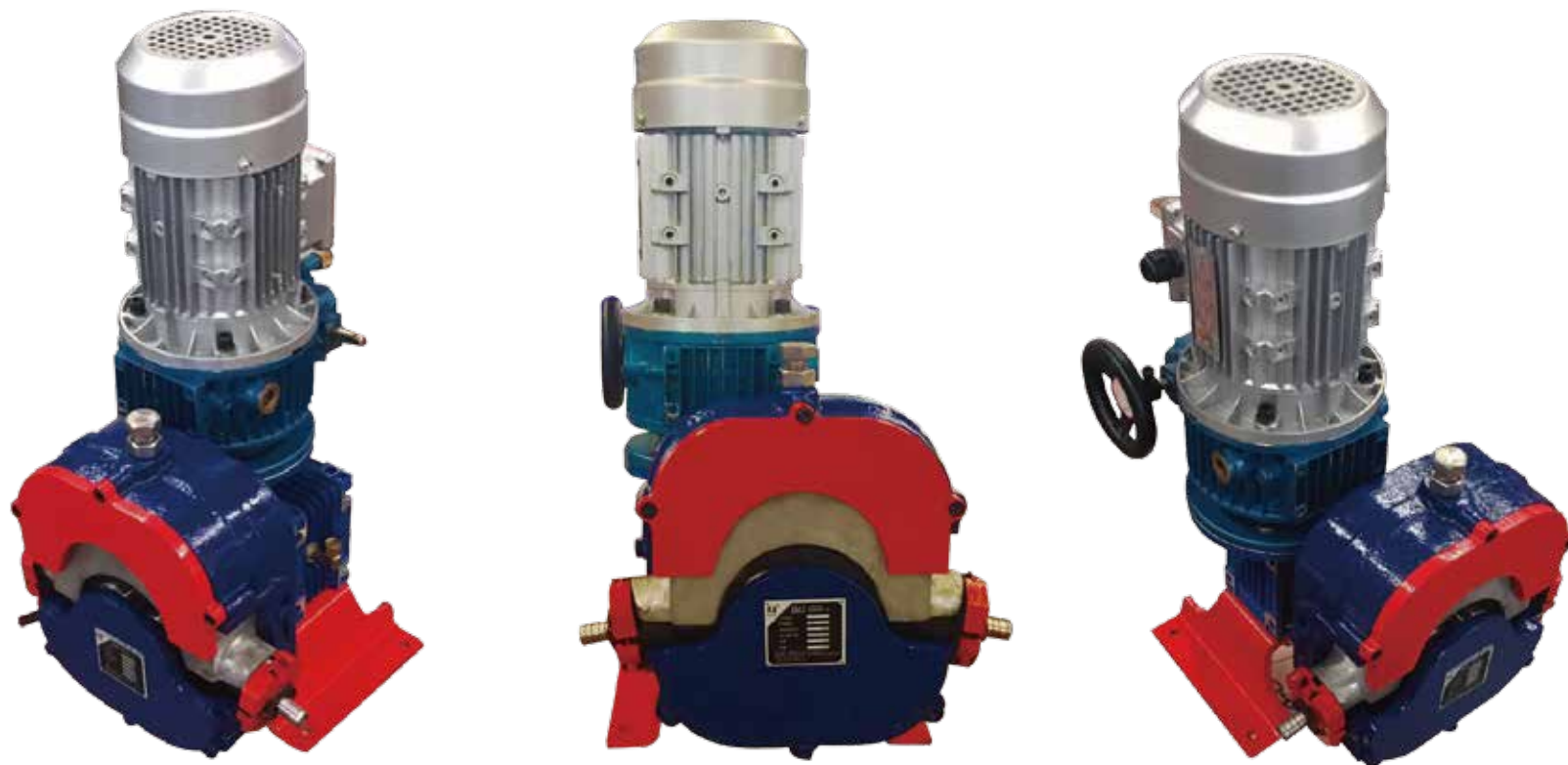
The exquisite coordination structure of the Huayun hose pump

The degree of vacuum in the pump body is generated by alternately extruding Huayun special hose with the pressure roller cycle. The press roll squeezing hose and conveys the material forward to the outlet, and at the same time, the pressure roller returns from the Huayun special hose and the rebound of the hose will inhale more inlet fluid. Since each press roller is a fully pressurized hose, the material does not flow back, providing accurate metering system and pressure performance. The conveying material is only in contact with the inner wall of the hose, so it is not necessary to use expensive sealing systems, valves and other auxiliary equipment, can be easily transport abrasive materials. The Huayun hose pump is the best product for handling abrasive materials.



No sealed and valveless pump, no leakage, no wear, no clogging

Hefei Huayun Machinery Manufacturing Co., Ltd. is the drafter of Chinese industry standards (standard number: JB/T12753-2015) and is a large-scale factory for the design and manufacture of the world's top hose pumps. So far there are countless famous companies that have cooperated with our company. The maximum output pressure of the new-generation Z-type hose pump can reach 1600Kpa (1.6Mpa), and the maximum flow can reach 150m³/h. The technology of the Huayun hose pump is tested repeatedly from the actual situation. The new Z-type pump is even more functionally improved. It solves many unreachable technical heights and solves more stingy problems for high quality requested customers. It's easy for you and minimizes downtime.



IHP10Z

Performance parameters

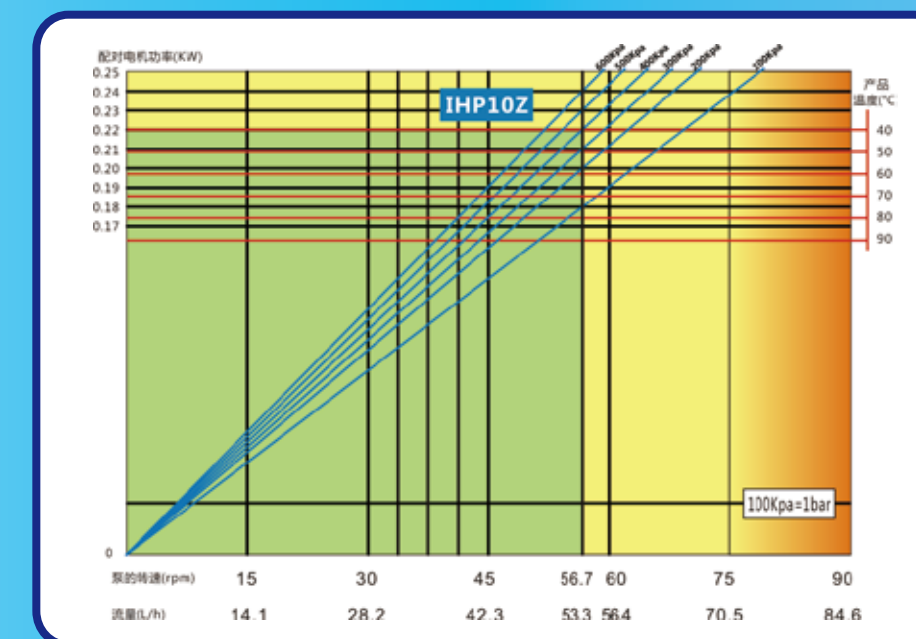
Maximum continuous working flow: 65L/h

Maximum clearance working flow : 70L/h

Maximum outlet pressure: 1.2Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose: Φ10



IHP5Z

Performance parameters

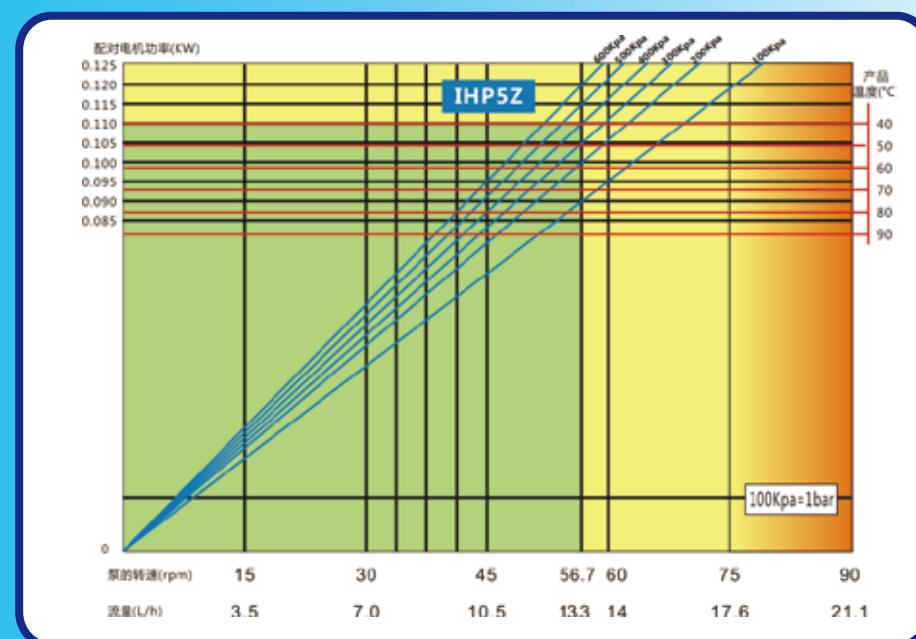
Maximum continuous working flow: 35L/h

Maximum clearance working flow : 17L/h

Maximum outlet pressure: 1.2Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose: Φ5



IHP15Z

Performance parameters

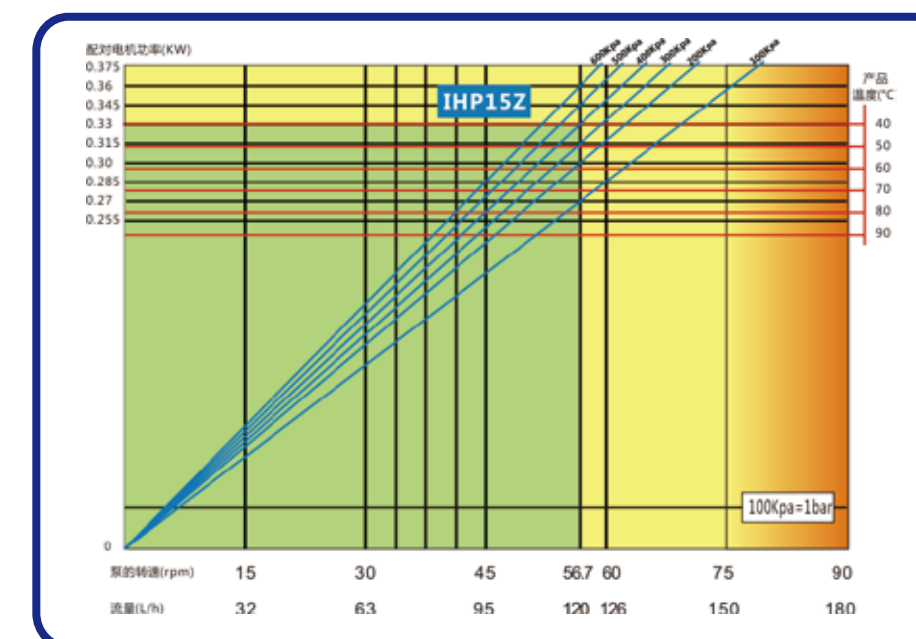
Maximum continuous working flow : 120L/h

Maximum clearance working flow : 150L/h

Maximum outlet pressure: 1.2Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose : Φ15



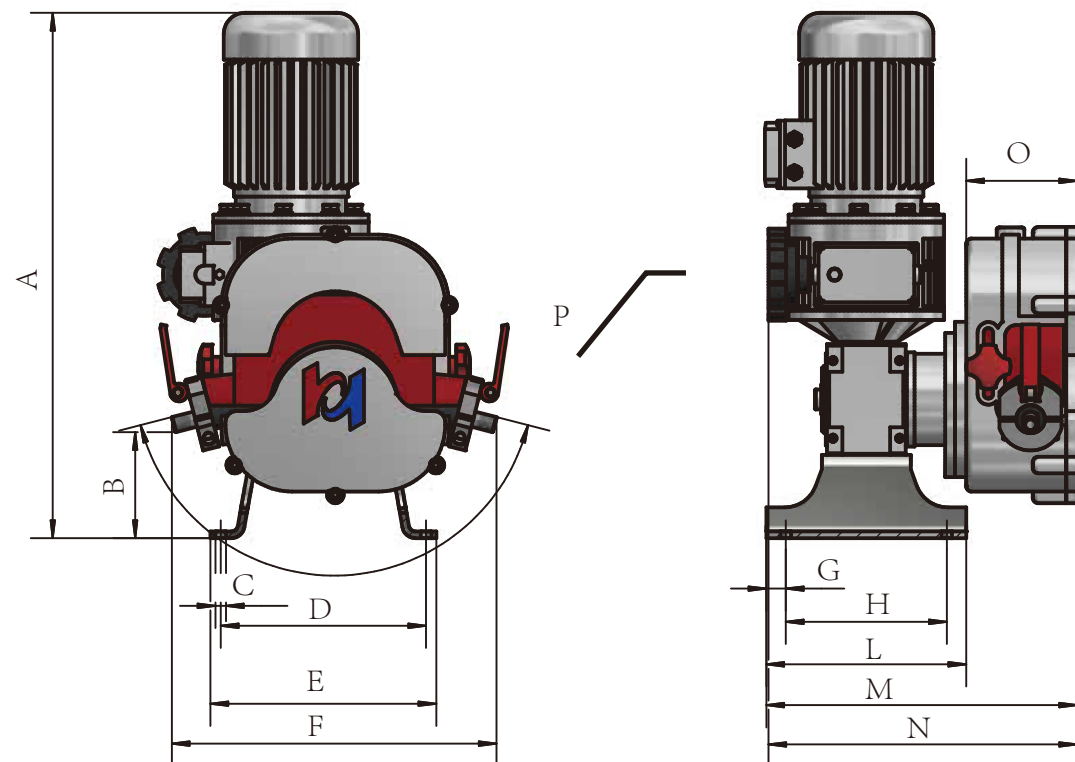
IHP5Z, IHP10Z, IHP15Z size installation table

HUAYUN		Dimensions											
Type	A	B	C	D	E	F	G	H	L	M	N	O	P
IHP5Z	474	96	9	185	204	286	17.5	145	180	280	275	100	Φ5
IHP10Z	474	96	9	185	204	286	17.5	145	180	280	275	100	Φ10
IHP15Z	474	96	9	185	204	286	17.5	145	180	280	275	100	Φ15



IHP5Z, IHP10Z, IHP15Z Dimensions Installation Diagram

Note: unit mm



IHP20Z

Performance parameters

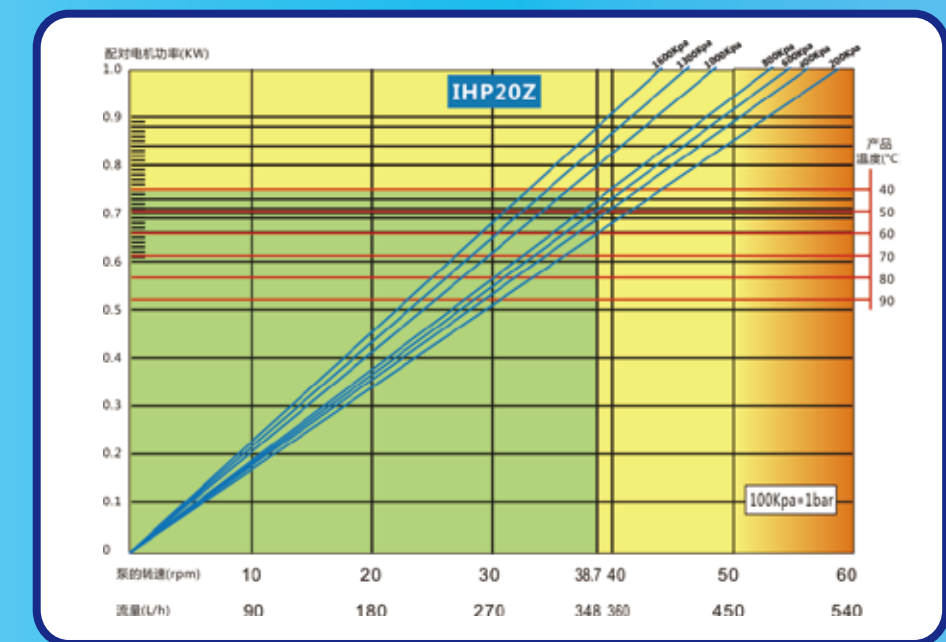
Maximum continuous working flow: 400L/h

Maximum clearance working flow : 450L/h

Maximum outlet pressure: 1.2Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose: Φ20



IHP25Z

Performance parameters

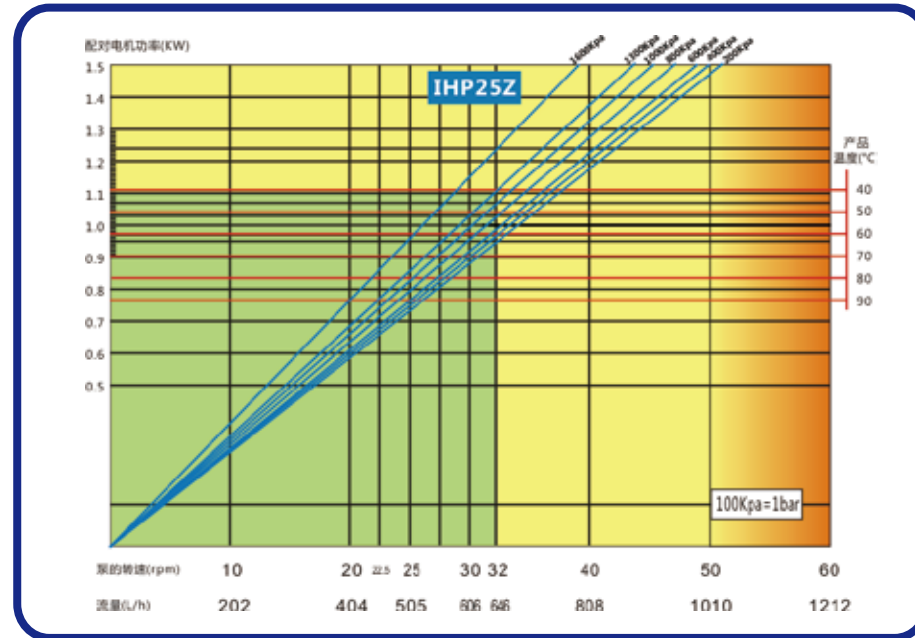
Maximum continuous working flow: 640L/h

Maximum clearance working flow : 1000L/h

Maximum outlet pressure: 1.2Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose: Φ25

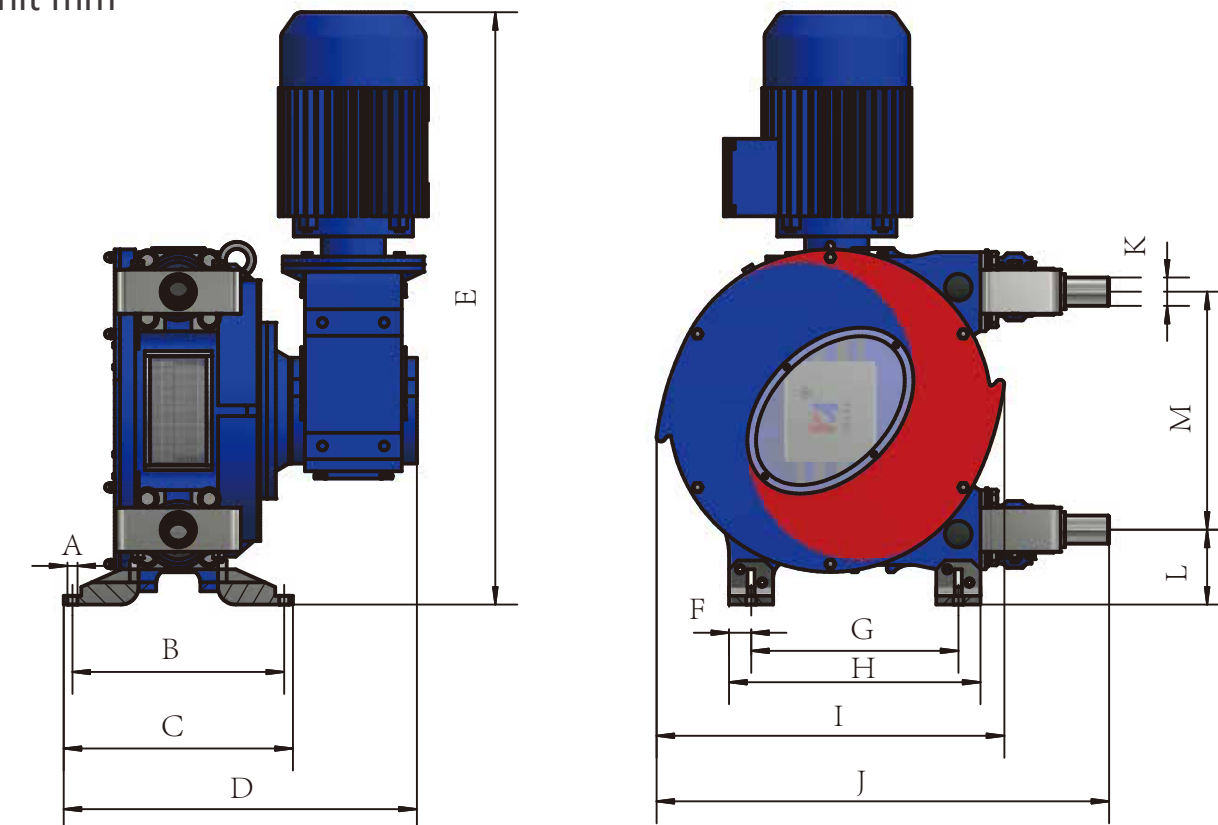


IHP20Z,IHP25Z,IHP32Z size installation table

HUAYUN		Dimensions											
Type	A	B	C	D	E	F	G	H	I	J	K	L	M
IHP20Z	10	230	250	357	560	22.5	185	230	302	426	Φ25	78.5	204
IHP25Z	10	240	260	400	672	25	235	285	395	513	Φ32	85	270
IHP32Z	10	256	276	434	712	25	275	325	479	575	Φ38	87.5	332

IHP20Z,IHP25Z,IHP32Z Dimensions Installation Diagram

Note: unit mm



IHP32Z

Performance parameters

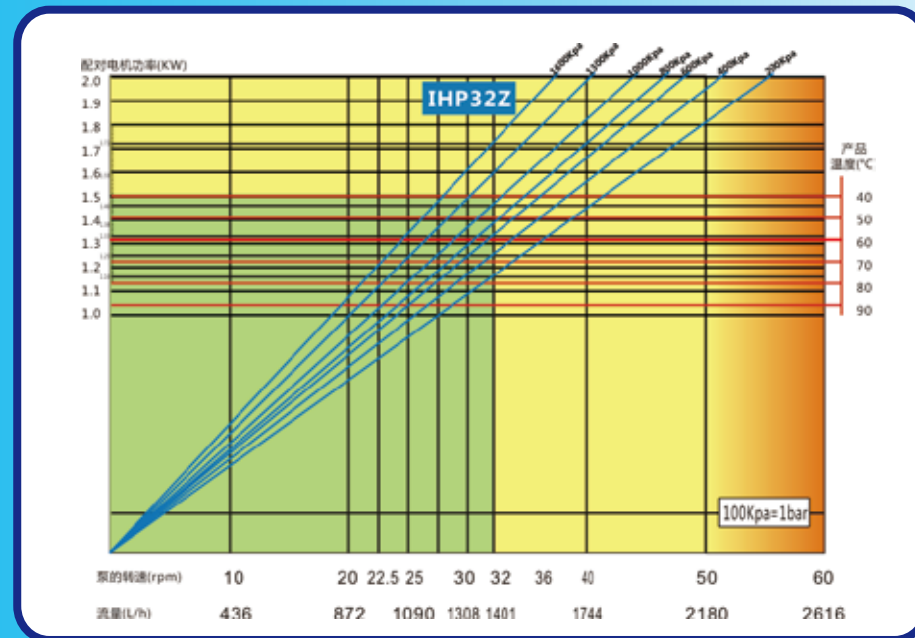
Maximum continuous working flow: 400L/h

Maximum clearance working flow : 2180L/h

Maximum outlet pressure: 1.6Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose: Φ32





IHP50Z

Performance parameters

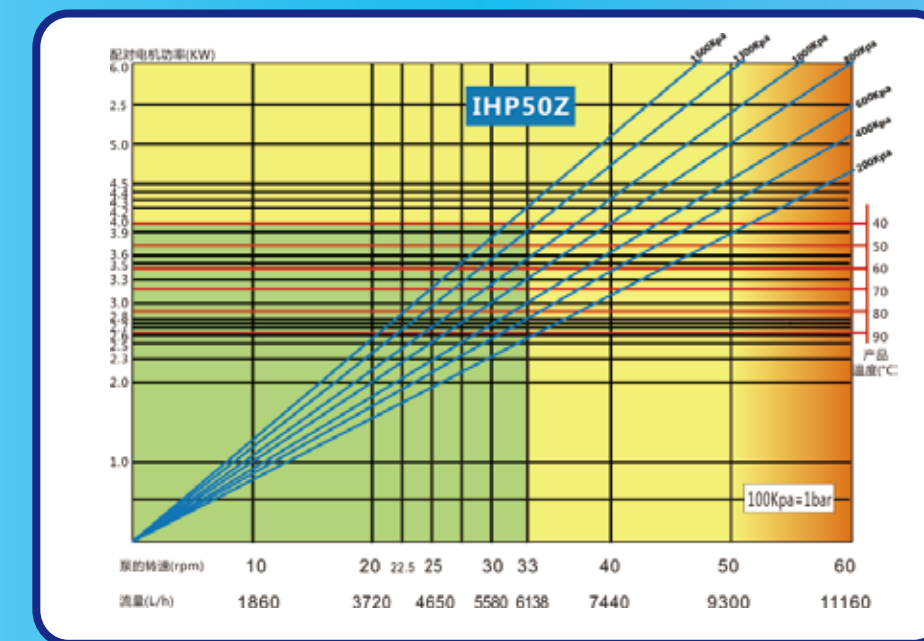
Maximum continuous working flow : 6100L/h

Maximum clearance working flow : 9300L/h

Maximum outlet pressure: 1.6Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose : Φ50



IHP40Z

Performance parameters

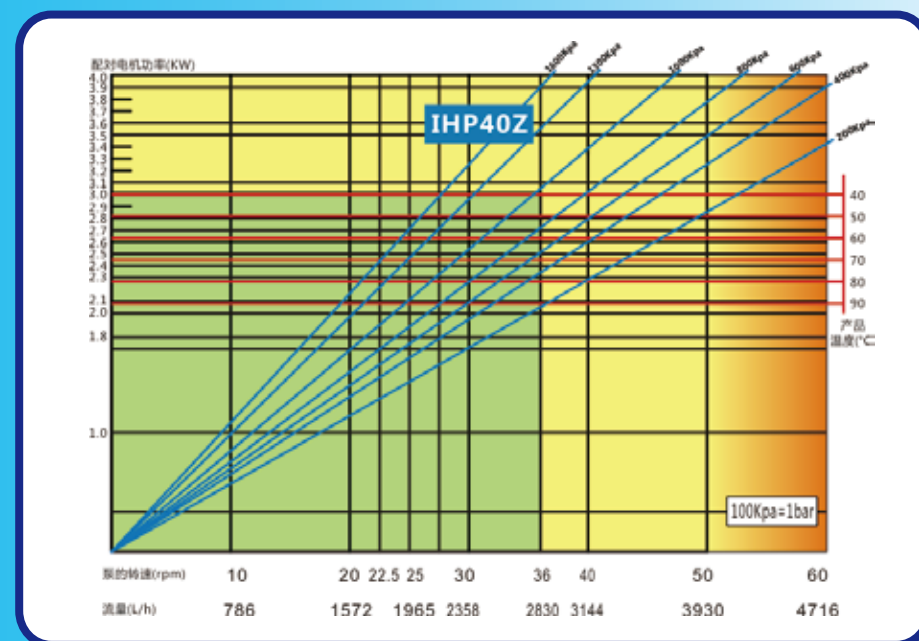
Maximum continuous working flow : 2800L/h

Maximum clearance working flow : 3900L/h

Maximum outlet pressure: 1.6Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose : Φ40



IHP65Z

Performance parameters

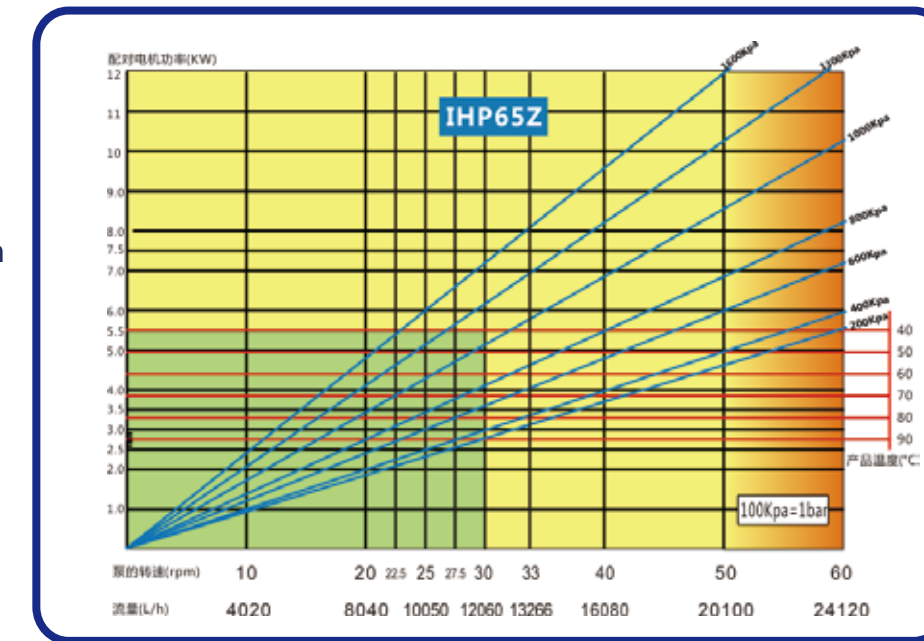
Maximum continuous working flow : 12000L/h

Maximum clearance working flow : 20000L/h

Maximum outlet pressure: 1.6Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose : Φ65



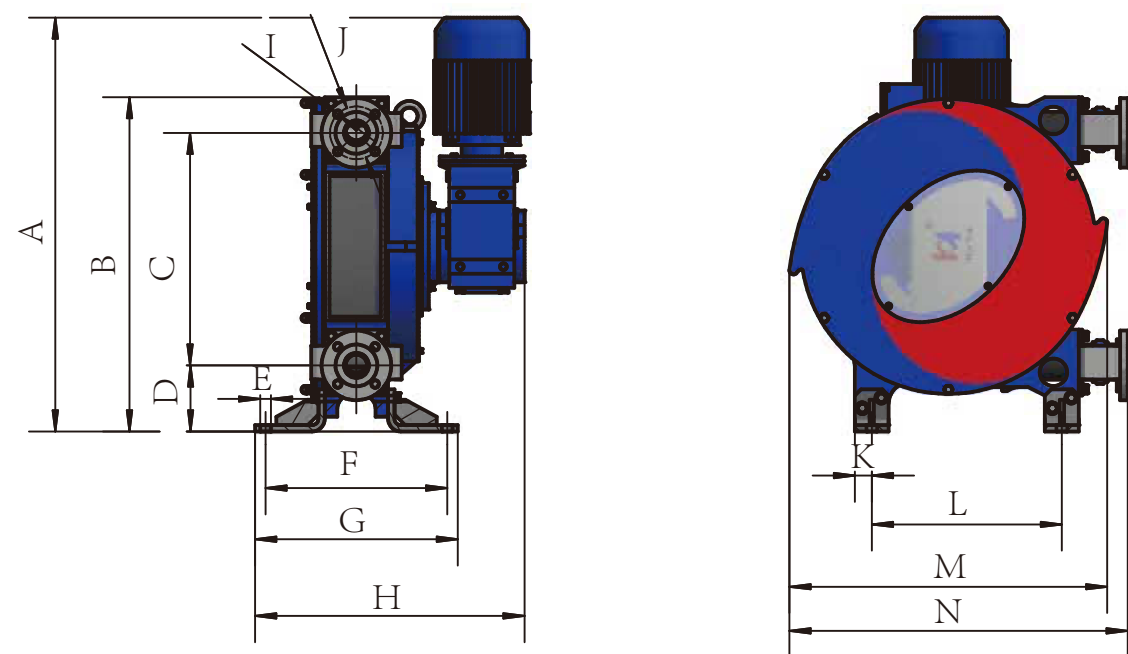
IHP40Z,IHP50Z,IHP65Z size installation table

HUAYUN		Dimensions												
Type	A	B	C	D	E	F	G	H	I	J	K	L	M	M
IHP40Z	829	596	422	109	15	330	360	495	Φ18	110	32.5	325	595	660
IHP50Z	980	792	551	156.5	25.5	430	480	638	Φ18	125	40	450	753	802
IHP65Z	1155	950	707	161.5	25	535	678	780	Φ18	145	40	535	935	996



IHP40Z,IHP50Z,IHP65Z Dimensions Installation Diagram

Note: unit mm



IHP80Z

Performance parameters

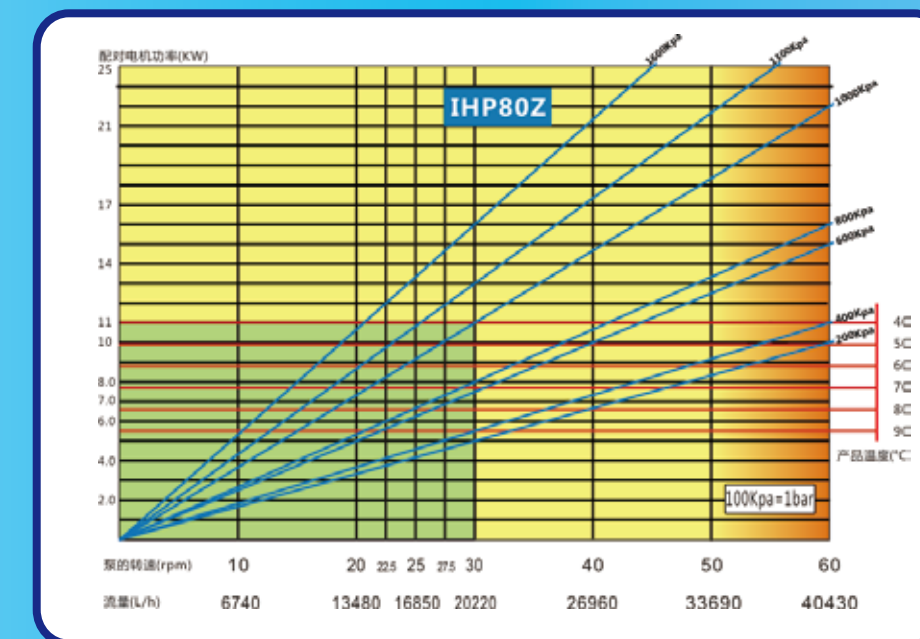
Maximum continuous working flow: 20000L/h

Maximum clearance working flow : 33000L/h

Maximum outlet pressure: 1.6Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose: Φ80



IHP90Z

Performance parameters

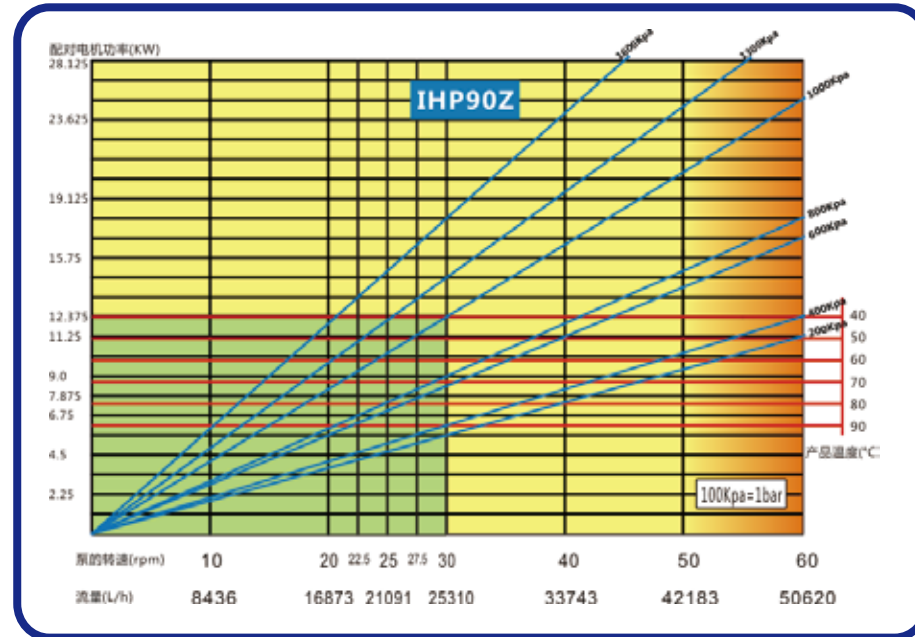
Maximum continuous working flow: 25000L/h

Maximum clearance working flow : 42000L/h

Maximum outlet pressure: 1.6Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose: Φ90

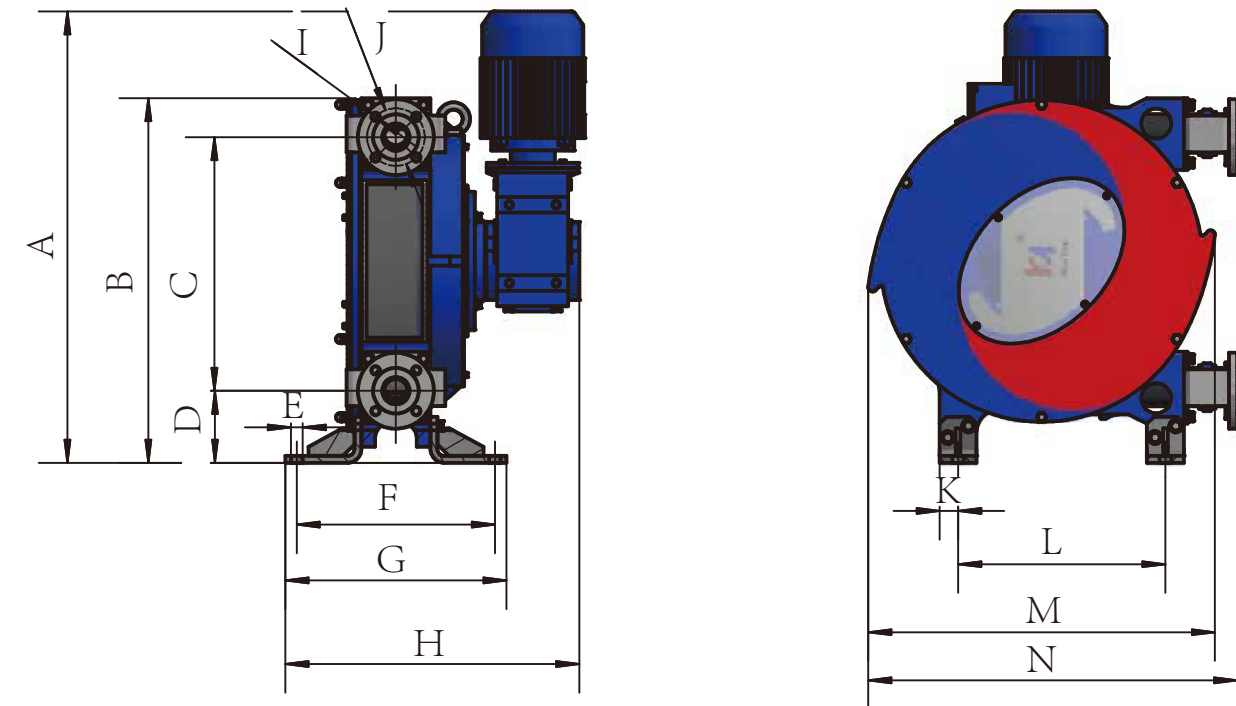


IHP80Z,IHP90Z,IHP100Z size installation table

HUAYUN		Dimensions												
Type	A	B	C	D	E	F	G	H	I	J	K	L	M	M
IHP80Z	11376	1130	870	167	Φ26	528	598	836	160	Φ18	40	635	1142	1152
IHP90Z	12798	1272	978	188	Φ26	594	673	940	180	Φ18	45	715	1284	1296
IHP100Z	14245	1413	1088	210	Φ26	660	748	1045	200	Φ18	50	794	1428	1440

IHP80Z,IHP90Z,IHP100Z Dimensions Installation Diagram

Note: unit mm



IHP100Z

Performance parameters

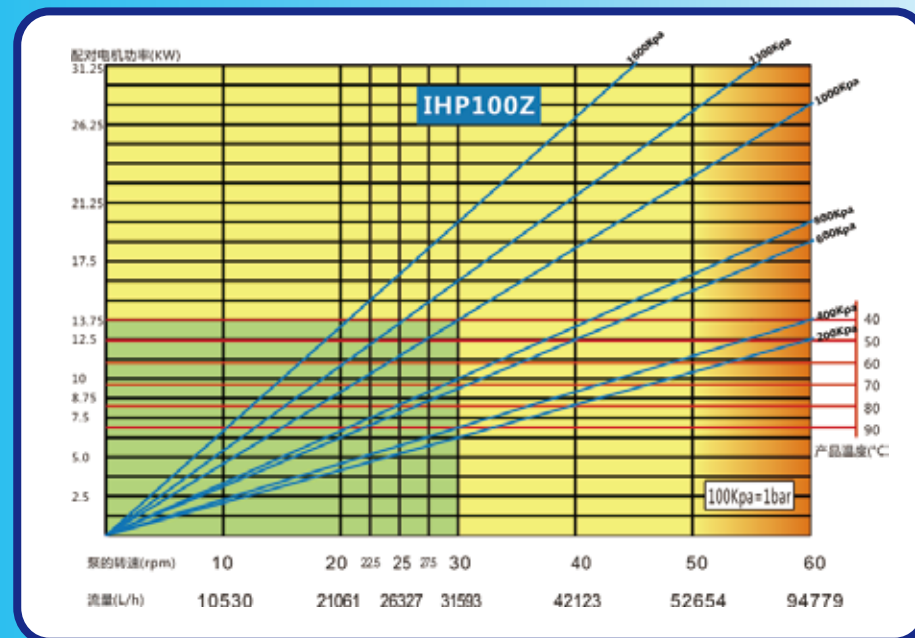
Maximum continuous working flow: 31000L/h

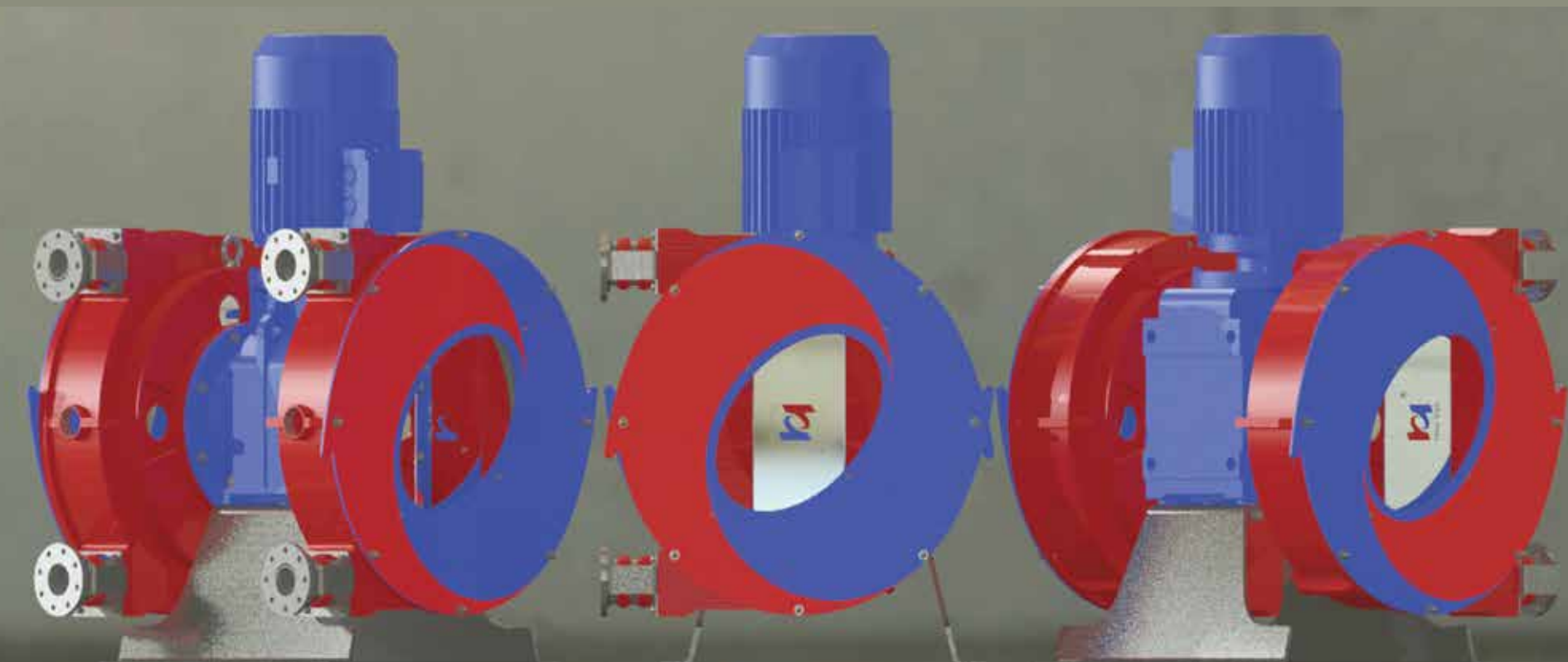
Maximum clearance working flow : 52000L/h

Maximum outlet pressure: 1.6Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose: Φ100





IHP280Z

Performance parameters

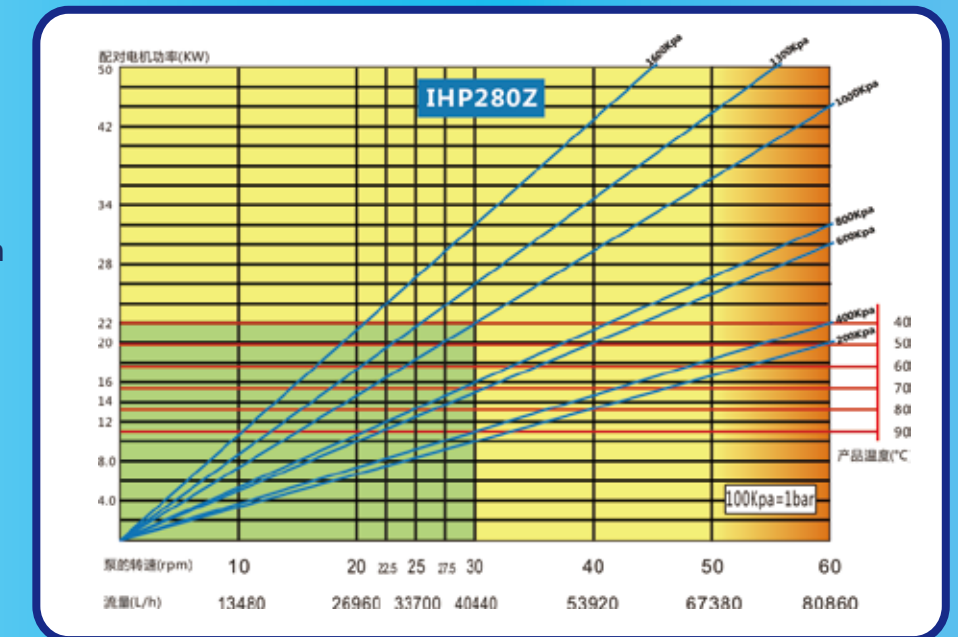
Maximum continuous working flow : 40000L/h

Maximum clearance working flow : 67000L/h

Maximum outlet pressure: 1.6Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose : Φ80



IHP265Z

Performance parameters

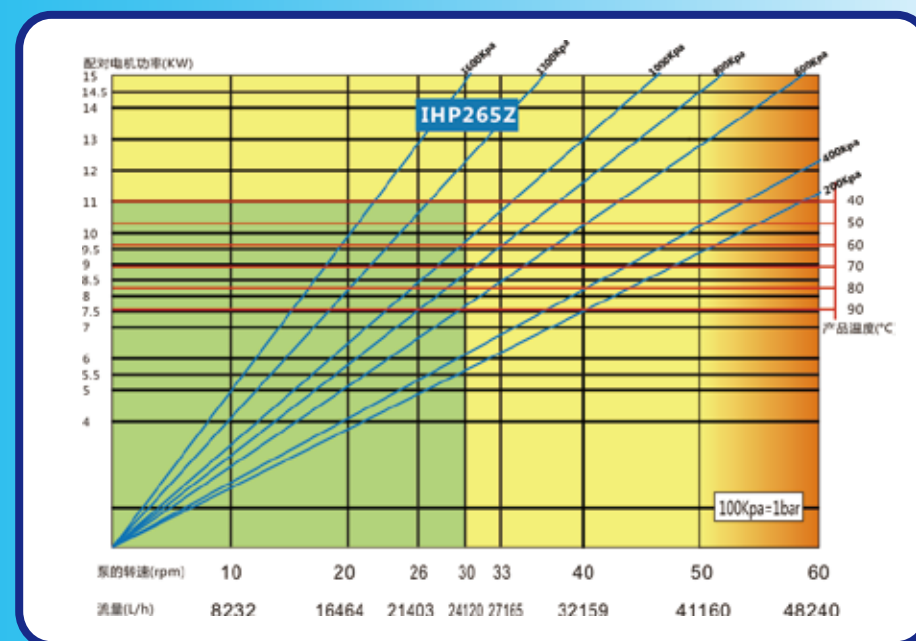
Maximum continuous working flow : 24000L/h

Maximum clearance working flow : 41000L/h

Maximum outlet pressure: 1.6Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose : Φ65



IHP290Z

Performance parameters

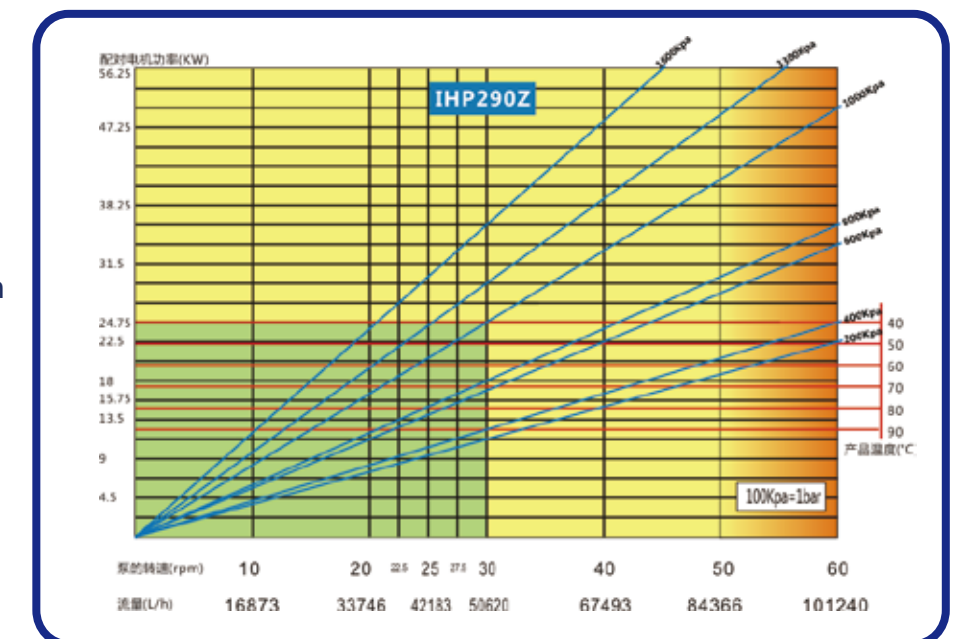
Maximum continuous working flow : 50000L/h

Maximum clearance working flow : 84000L/h

Maximum outlet pressure: 1.6Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose : Φ80



IHP2100Z

Performance parameters

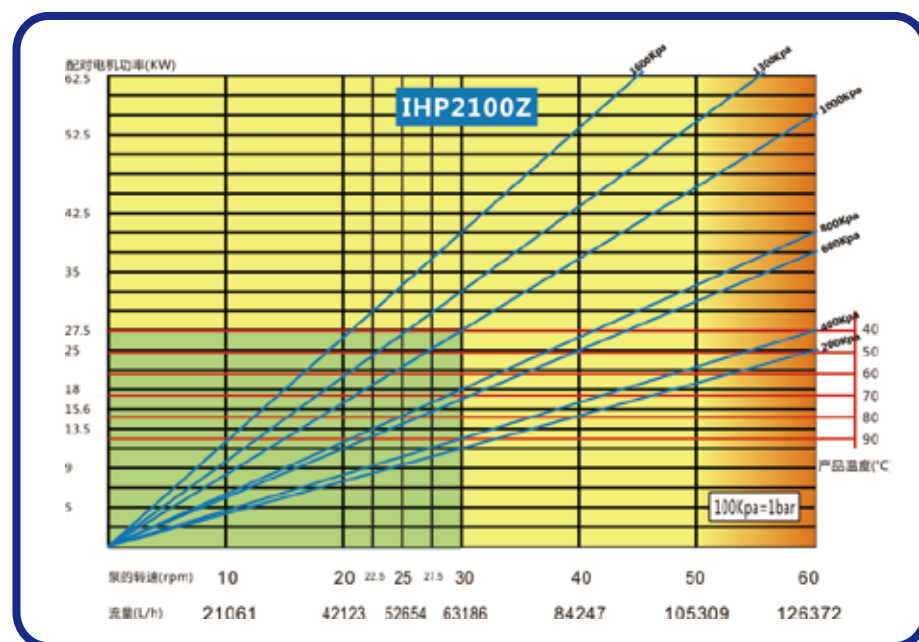
Maximum continuous working flow: 63000L/h

Maximum clearance working flow : 105000L/h

Maximum outlet pressure: 1.6Mpa

Maximum fluid temperature: 90°C

Dimension of Inner Hose: Φ100



IHP265Z,IHP280Z,IHP290Z,IHP2100Z size installation table

HUAYUN		Dimensions											
Type	A	B	C	D	E	F	G	H	I	J	K	L	M
IHP265Z	1432	840	937	935	707	193	Φ25.5	600	800	830	1148	Φ145	Φ18
IHP280Z	1740	900	957	1142	864	243	Φ31.5	860	940	950	1282	Φ160	Φ18
IHP290Z	1958	1012	1077	1285	972	274	Φ31.5	968	1058	1069	1442	Φ180	Φ18
IHP2100Z	2175	1125	1196	1428	1080	304	Φ38	1075	1175	1188	1603	Φ180	Φ18

How to read the graph

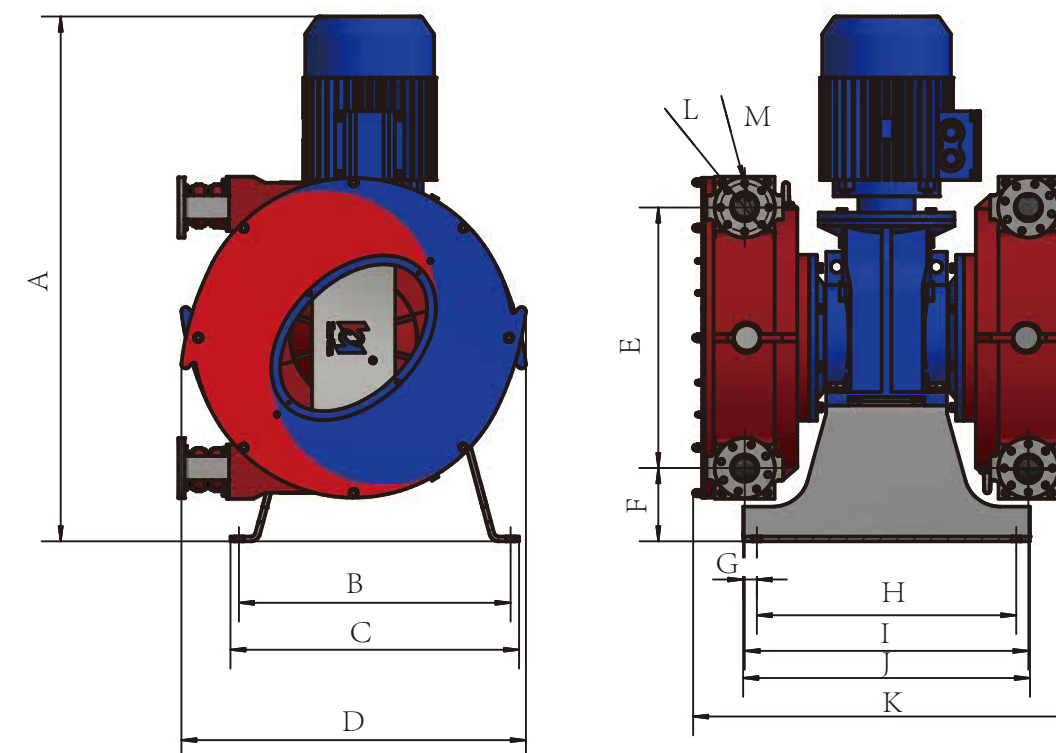
1. Determine the required flow (relative to rpm)
2. Determine the export pressure
3. The required motor power
4. Product temperature
5. Calculate the outlet pressure
6. The recommended maximum speed of the pump

Note:

1. The continuous operating area decreases as the product temperature increases;
2. If the temperature is higher than 40°C, the continuous operation area will be reduced to the corresponding red temperature line

IHP265Z,IHP280Z,IHP290Z,IHP2100Z Dimensions Installation Diagram

Note: unit mm



The special hose used for the hose pump is the core part of the peristaltic hose pump

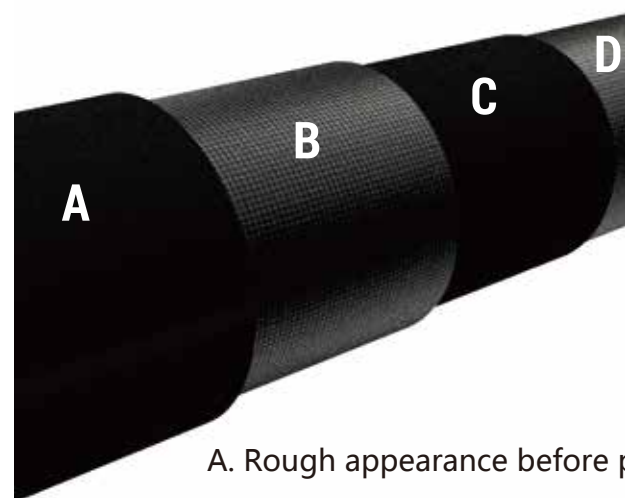
The hose of the peristaltic hose pump is the core component that determines the performance, durability and efficiency of the peristaltic hose pump. Hefei Huayun has a unique chemical formula developed independently and uses high-quality synthetic rubber to produce the pump hoses. The rubber is reinforced with multi-layered material and subjected to high-precision machining. Therefore, the hose can be completely compressed. There will not be any leakage, and other types of pumps will damage the shear sensitive materials due to backflow, reduce the metering accuracy, or caused the abrasive materials to erodes the components. The peristaltic hose pump which produced by Hefei Huayun including the hose can be a good solution to such incurable diseases.

Composition of pump hose

The hose consists of several layers of rubber that are reinforced by several layers of braiding ropes to form the basic components of a high performance hose. The inner and outer layers are squeezed, and the inner layer is a composite rubber. After the hose is formed, then machined, and the Machining is the last step in hose making and guarantees the most critical step in hose tolerances.

The benefits of the accurate hose manufacturing:

- * Spindle/roller bearing stress reduction
- * The best compression force can extend hose life
- * No matter what kind of working conditions and what the material transport, the basic guarantee of the flow remains are unchanged



- A. Rough appearance before processing
- B. Finished outer layer
- C. Reinforced layer
- D. Different types of rubber inner layer

Optional for hose material



Natural Rubber(NR)
Excellent abrasion resistance, generally resistant to dilute acid and ethanol
Fluid maximum temperature: 80°C
Fluid minimum temperature: -20°C



EPDM
Excellent chemical resistance, especially resistant to concentrated acids and ethanol
Fluid maximum temperature: 90°C
Fluid minimum temperature: -10°C



Food Grade Hose(F-NBR)
Meets the latest FDA, EU, 3A standards, resistant oil, grease, alkali and detergent
Fluid maximum temperature: 80°C
Fluid minimum temperature: -10°C



NBR
Oil, grease, alkali and detergent resistance,
Fluid maximum temperature: 80°C
Fluid minimum temperature: -10°C



Chlorosulfonated polyethylene rubber (GSM)
High-quality anti-hardening, antioxidant products and concentrated acid and concentrated alkali
Fluid maximum temperature: 90°C
Fluid minimum temperature: -10°C

Craftsmanship

Excellent quality

Advancing with the Times

Hefei Huayun exclusive formula

Beyond the Self

Annex

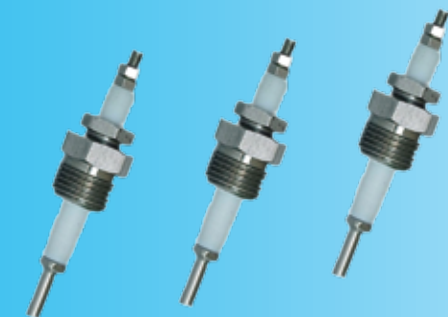
1. Outlet pulsation damper

The addition of a pulsation damper at the pump outlet eliminates 92% of the outlet pulsation, protects the pump, piping and piping equipment, and reduces the vibration, hammering and noise of the piping.



2. Inlet pulsation damper

Installed on the inlet side, when the inlet operating conditions change, the positive and negative pressure peaks on the inlet pipeline can be effectively reduced, which can make the pump run quietly without noise and can increase the service life of the pump.



3. Leak alarm

Connected to the motor control system. Once the hose is broken during use, the material enters the pump chamber. The alarm probe detects will outputs a signal to the control system to stop the pump from operating.

5. Inverter

If the pump's flow requirements are variable and the process needs to be controlled, an additional frequency converter can be added



4. PLC, touch screen

Accurately record the pump's operating parameters and calculate the pump's flow rate with high accuracy.



Certifications

